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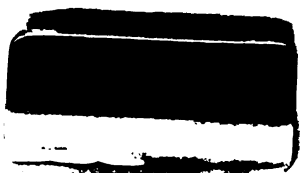
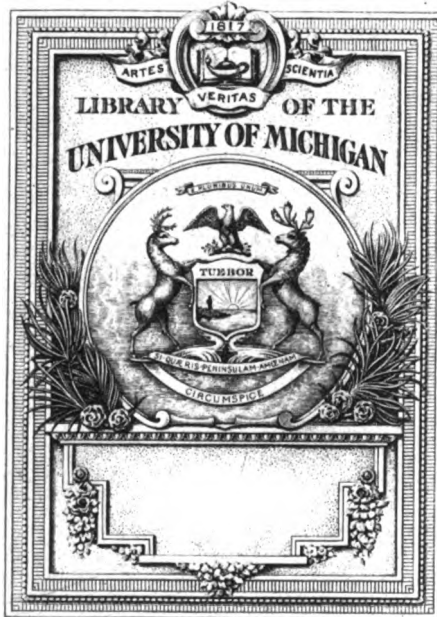
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D. of D.

CITY DOCUMENT, No. 72

ADDRESS OF

HONORABLE

PEHR G. HOLMES

MAYOR OF THE CITY OF WORCESTER, 1917

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WITH THE

ANNUAL REPORTS

OF THE SEVERAL DEPARTMENTS

FOR THE

FINANCIAL YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS

WORCESTER, MASS.

1918

D. of D.
AUG 1 1918

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SECOND
INAUGURAL ADDRESS
OF
HONORABLE
PEHR G. HOLMES

MAYOR OF
WORCESTER, MASSACHUSETTS

JANUARY 1, 1918



COMMONWEALTH PRESS
WORCESTER, MASS.
1918



**SECOND
INAUGURAL ADDRESS OF MAYOR
PEHR G. HOLMES**

MECHANICS HALL, JANUARY 7, 1918

Gentlemen of the City Council:—

WE meet for the inaugural exercises this year under conditions without parallel in the history of an American municipality. Our city government is being inducted into office when practically the whole world is at war. Our nation, peace-loving and tolerant, has been forced into the struggle by most unnatural crimes of Prussianism.. Now to city and to individual alike comes a duty, an obligation and a work such as we have never before experienced—which has been but faintly approximated in other wars of the United States. Confronting us is a double duty at this time—we must serve as the many needs of our country dictate, and we must strive, so far as it is practicable to bend our efforts in that direction, to maintain and enlarge upon the scope of our civic efficiency.

Already unprecedented demands have been made upon the people in the interests of the country. It is only reasonable to believe—and certainly wisdom dictates we should map our future action with such expectation in view—that even heavier demands may come during the present year.

IT is most natural that we should cherish deeply the interests of the city of Worcester, that we should be jealous of its welfare and its advancement, that our first hasty impulses should lead us to consider it above other things. But under present conditions such things must not be. Our better, our broader natures, tell us that, first of all and above every other consideration, we must lend willing ears to the call of country. We must give freely and willingly, in the most liberal measure, of whatever it may call for or demand. In times such as these, every aim and ambition of city and individual that does not serve absolutely the cause in which we are enlisted must be subordinated, without demur or hesitation, to the needs of our country.

We cannot stint the measure of our support in the slightest degree and do our duty. We cannot take up the great task in a half-hearted manner and truly feel that we have fulfilled those most sacred obligations of citizenship which rest upon every American. If our only thought is of the city and our own aims, we shall have stinted the measure of our support to the government, and we shall be working half-heartedly for the cause of humanity which the armed forces of our country are upholding.

I DO NOT for a moment mean to say or seek to intimate that just needs of the city should or must be rejected in a wholesale manner from our consideration. I cannot at this time see any logical reason why they should be. However, I do say, flatly and without

equivocation, that unessential things should be and must be cast entirely out of consideration. That which is truly essential can, as conditions permit, properly receive our earnest consideration. But that which is not must receive no place in our deliberations.

In devoting attention to essential things, we shall be moving to not only maintain, but, let us hope, to increase our civic efficiency. Maintenance of civic efficiency during the war is exactly what the head of this nation asks of us. By pursuing a program with relation to the city wherein only essential things have a place, we shall be in a position where the maximum of our resources and endeavors can be diverted to channels helpful to the government in the prosecution of the war. That is where they belong.

THERE has come to me most reliable information that a government request, or a request having the strong sanction of the government, will be made in a short time to cities urging them to adopt a policy of utmost conservatism this year. This request, I am informed, will be with special reference to public work requiring loans. The reason for such a request is two-fold. First, negotiation of loans called for in a program of public work other than conservative would place the city in direct financial competition with the government. Second, carrying on extensive public work would place the city in competition with the government for labor. This is an even stronger reason than that of finances why the city should not under-

take extended public works requiring a large amount of labor. I approve such a policy most heartily under conditions as they now are, and have been for the past year. It is practically such a policy as Worcester has adhered to during the year just closed. For most obvious reasons, in the year just passed, I urged conservatism in municipal affairs, and for the present year I would again urge it even more strongly.

THIS war is not merely a war of armies. It is a war of nations. Our efforts as a municipality and as individuals must necessarily be directed so that they will aid and strengthen our government's financial and labor program. This is our responsibility, our great responsibility, and we must meet it as city officials. Anything to the contrary will delay and retard the government in its program.

Politics, parties and partisanship and all their trappings, as we have known them, must be driven with relentless hand from all our activities. Selfish individual aims as well as selfish municipal aims should not be allowed to impair our better judgment in these days. There is far more at stake than our individual or municipal aims. Our whole country, our self-preservation, compels the true American to give every ounce of energy and direct every effort toward the accomplishment of that task which is infinitely greater than we at first realized—greater, perhaps, than we even now fully comprehend. There must be no division of effort. That which would distract our at-

tion from the supreme task at hand must be regarded as unworthy and dangerous—as unworthy and dangerous as one who would forget the duty which confronts him and seek to further a petty aim or ambition at the expense of the common cause.

To us it can be a source of pride that Worcester has served loyally and well in this struggle. It has given liberally of its money and liberally of that which is infinitely more precious, its young manhood. In both respects it has established a record which but few cities can equal. It is for us, strong in our pride and mighty in our determination, to go on with this work, to add our blows to the unity of blows being struck for humanity and right, to salve the wounds that war may cause and to alleviate suffering that may come in its train.

WORLD events have moved rapidly during the last three years. They are moving now with such rapidity and in such undreamed of channels that it is impossible for any one to predict successfully what the future will bring forth—what demands it will make upon us. Signs of the times, which once afforded a basis upon which fairly reliable conjectures might be based, are now without value. Indications that were once followed with some degree of certainty as to ultimate developments are now worthless.

Therefore, with the trend of future events uncertain as to the demands which may be made upon all, I deem it advisable on this occasion to make but few

recommendations for your consideration. I shall confine these to such things as I consider reason and good policy dictate that we should take up during the present year. From time to time, if conditions seem to warrant, or as needs may make it imperative, I shall lay before you for your consideration other recommendations.

I WOULD recommend that you give most careful and earnest consideration to housing problems in connection with our public school system. It is plain that more schoolhouses should be built during the present year to properly accommodate the ever increasing number of children who attend our schools. At least two or three new buildings will be necessary this year, if there is to be sufficient room to relieve crowded conditions and meet further demands for space that are inevitable. I ask that this phase of our educational program receive your most careful consideration and that you devote close attention to determining where additional buildings may be built with the greatest degree of efficiency and service.

IT is most essential in normal times, and doubly so now, that fire protection should be maintained at the highest degree of efficiency. In addition to attention which must be given property in general, special protection must be given and every effort taken to safeguard any building, any supplies or any material vital to the prosecution of this war. Fires in this connec-

tion have proved in other places to be deadly enemies. Therefore, I would ask that you consider the matter of laying larger water pipes in certain sections as a step toward better fire protection, and also to insure a more adequate supply of water for general use. At least two pieces of motor apparatus should be added to our fire department this year to place it on the most efficient basis. The addition of such apparatus means not only the highest efficiency but also the greatest economy.

PROVISION for carrying on work at the Pine Hill reservoir has been made by the outgoing city council. An appropriation sufficient to keep work in progress there for a considerable time has been made. Work on this basin, which will restrain water in sufficient volume to practically double our present supply, must be pushed this year with utmost vigor, and I ask that city council give this work their close attention. Much depends on this basin as to the future supply of water for a rapidly growing city.

IT seems advisable to consider the acquisition of land in the rear of the public library building on Elm Street and also land and an old building to the east of the plot of land which I mention. I do not mention this necessarily with an idea that an additional building should be built this year for library purposes, but rather with the idea that the land should be acquired with an eye to future development of library

facilities. The land could be secured now at a reasonable cost; later it might not be available. To enlarge our present library quarters through use of this land would mean a tremendous saving over securing a site elsewhere and erecting a new building.

THE new Lake bridge, a beautiful and thoroughly useful structure, is fast nearing completion. It should be completed early in the spring. As soon as the expense of building this bridge is apportioned by decree of the Court, it will be necessary for the city to meet its part of the financial obligation which construction of the bridge involves. The city's share of cost in construction of the bridge will probably figure at about \$145,000, and I ask that you consider steps toward meeting this obligation on our part.

AS the passage of time is recorded by the calendar, we have just entered upon another year. But with the destinies of nations being shaped, with the fate of humanity at issue, with the future of mankind involved, we are entering upon an epochal period. It is in times such as these that men and nations are tested—such times as these that true metal stands out in shining contrast to that which is base.

There can be no doubt as to the outcome. Victory, victory with honor and with justice for all men, will crown the effort of our arms and of that body of people who serve at home, the great and important army behind the lines. It is for us to face the new

year with high hearts and with a fine determination that our every effort, our every aim, come what may, shall be directed with unflagging energy to hasten the day of that victory. With it shall come for mankind a newer and a better order of things, light where there has been darkness, liberty where there has been oppression.

THE AUDITOR'S
ANNUAL REPORT
OF THE
RECEIPTS AND EXPENSES
OF THE
CITY OF WORCESTER
FOR THE FINANCIAL YEAR ENDING NOVEM-
BER 30, 1917
INCLUDING
REPORT OF THE CITY TREASURER, CITY CLERK, STATEMENT
OF TRUST FUNDS AND SINKING FUNDS, ALSO SCHED-
ULE OF CITY PROPERTY



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF THE AUDITOR

CITY OF WORCESTER,

AUDITOR'S OFFICE, February 4, 1918.

To His Honor the Mayor and the Honorable City Council:—

Gentlemen:—In conformity with the requirements of Section 4, Chapter 4, of the Ordinances of the City, I submit my annual report of the receipts and expenditures of the City of Worcester, exhibiting the same, classified according to functions, and by the several department accounts, for the financial year ending November 30, 1917, and showing the balances unexpended at that date; also my audit of the various Trust Funds held by the City Treasurer, as Treasurer ex-officio, and a schedule of the city property.

Respectfully submitted,

FRANK E. WILLIAMSON,
Auditor.

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**RECEIPTS AND PAYMENTS OF THE FISCAL YEAR ENDING
NOVEMBER 30, 1917**

CONSOLIDATED STATEMENT

Cash Balance at the beginning of year		\$68,074.84
Actual Payments during the year	\$6,932,263.61	
Actual Receipts during the year	6,756,626.62	
Excess of Payments		175,636.99
Deficit at end of year		\$107,562.15
Authorized Loans amounting to \$94,000.00 and Appropriated but unsold at the close of the Fiscal Year.		

**GENERAL EXHIBIT OF RECEIPTS AND PAYMENTS OF THE
FISCAL YEAR**

	Receipts	Payments
Revenue Accounts (Operation and Maintenance)	\$6,846,769.33	\$5,522,707.90
Non-Revenue Accounts (Construction, etc.)	409,857.29	1,409,555.71
Total Actual Cash Transactions of the Year . . .	\$6,756,626.62	\$6,932,263.61
Matured Loans:		
Temporary	\$5,475,000.00	
Long Term	325,500.00	
Serial	337,700.00	6,138,200.00
Total Transactions per City Auditor's Books . . .	\$12,894,826.62	\$13,070,463.61

**ACTUAL FINANCIAL RESULT OF THE OPERATION AND MAIN-
TENANCE OF THE CITY FOR THE YEAR**

Non-Revenue Payments		\$1,409,555.71
Non-Revenue Receipts		409,857.29
Excess of Non-Revenue Payments		\$999,698.42
Revenue Receipts as above from Taxation and other sources not including money borrowed.	\$6,846,769.33	
Revenue Payments as above for Operation and Maintenance (Running Expenses)	5,522,707.90	
Excess of Revenue Receipts for the Year		824,061.43
Excess of Payments		\$175,636.99

**EXHIBIT OF RECEIPTS AND PAYMENTS FOR THE YEAR,
REVENUE AND NON-REVENUE, GROUPED
ACCORDING TO FUNCTIONS**

REVENUE		Receipts	Payments
Taxes		\$4,563,633.88	\$674,178.78
Licenses		293,570.87	74,490.88
Special Assessments		79,423.43	.....
Departmental:			
General Government		33,743.12	175,314.56
Protection of Life and Property		31,801.64	701,021.52
Health and Sanitation		114,956.28	342,750.18
Highways and Bridges		193,009.77	793,699.63
Charities		219,968.54	512,615.60
Education		83,568.97	1,251,181.70
Libraries and Reading Rooms		5,005.72	74,633.35
Recreation		17,291.36	86,093.61
Soldiers' Benefits		24,806.00	46,432.88
Pensions .....		.....	24,773.30
Unclassified		3,084.00	8,948.74
Interest		40,841.09	578,617.94
Cemeteries		36,868.55	28,079.80
Municipal Industries		694,258.47	162,875.74
Municipal Indebtedness		1,990.95	.....
Serial Funds		337,700.00	.....
Sinking Funds			415,253.00
		\$6,775,022.64	\$5,950,961.21
Less Taxes Rebated	\$45,310.07		
Licenses Remitted to State	64,826.50		
Department Service Expend- iture Transfers	318,116.74	428,253.31	428,253.31
		\$6,346,769.33	\$5,522,707.90
NON-REVENUE		Receipts	Payments
Special Assessments		\$92,557.29	.....
Departmental:			
Protection of Life and Property			\$106,709.27
Health and Sanitation			108,490.63
Highways and Bridges			318,510.59
Charities .....			.....
Education			192,393.29
Recreation .....			.....
Unclassified .....			.....
Municipal Industries			345,751.93
Municipal Indebtedness		6,180,000.00	6,138,200.00
Serial Funds			337,700.00
Sinking Funds		325,500.00	.....
		\$6,548,057.29	\$7,547,755.71
Less Matured Loans:			
Temporary	\$5,475,000.00		
Serial	337,700.00		
Long Term	325,500.00	6,138,200.00	6,138,200.00
		\$409,857.29	\$1,409,555.71

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
1. TAXES.			
1. Current Year.....	\$3,039,488.02		
2. Previous Years.....	747,721.60		
3. Street Railway Excise Tax.....	25,297.09		
4. All Other Taxes by City.....			
Tax Lien Account.....	240.16		
5. Corporation Tax from State.....	423,126.82		
6. National Bank Tax from State.....	5,789.52		
7. Street Railway Tax from State.....	34,065.70		
8. All Other Taxes from State.....			
Income.....	290,220.30		
Public Institution.....	7,689.67		
9. Total from Taxes.....	\$4,563,633.88		\$4,563,633.88
2. LICENSES.			
10. Amusements.....	\$5,290.50		
11. Auctioneers.....	52.00		
12. Business.....	2,967.00		
13. Dog from County.....	5,101.97		
14. Druggists' (sixth class liquor).....	55.00		
15. Junk and Old Rags.....	990.00		
16. Liquor (except sixth class).....	268,248.40		
17. Marriage.....	2,272.00		
18. Milk.....	459.00		
19. Oleo.....	22.50		
20. Pool and Bowling Alleys.....	2,120.00		
21. All Others.....			
Elevator Operators.....	225.50		
Food.....	1,605.00		
Hawkers' and Pedlers'.....	1,360.00		
Hunters'.....			
Ice Cream.....	2,715.00		
Minors'.....			
Swill and Tallow.....	107.00		
22. Total from Licenses.....	\$293,570.87		\$293,570.87
3. SPECIAL ASSESSMENTS.			
23. Moth Extermination.....	\$5,052.40		
24. Sewer.....		\$37,950.77	
25. Sidewalk.....		13,782.50	
26. Street Betterment.....		35,874.02	
27. Street Sprinkling.....	74,371.03		
28. Total from Special Assessments.....	\$79,423.43	\$92,557.29	\$171,980.72

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. TAXES.			
1. Taxes Rebated.....	\$45,310.07		
2. Other Tax Payments.....			
Tax Lien Account.....	236.81		
3. Tax Remittance to County.....	186,869.00		
4. Tax Remittance to State.....			
a. State Tax.....	419,210.00		
b. State Corporation Tax.....	2,394.86		
c. State National Bank Tax.....	18,712.48		
d. State Highway.....	1,446.06		
5. Total for Taxes.....	\$674,178.78		\$674,178.78
2. LICENSES.			
6. Liquor Licenses Remitted to State..	\$64,826.50		
7. Liquor Licenses Refunded, Acts of 1911.....	8,997.40		
8. Badges and License Plates.....	526.15		
Minors.....			
Business.....	120.83		
Junk.....	15.00		
Ice Cream.....	5.00		
9. Total for Licenses.....	\$74,490.88		\$74,490.88
3. SPECIAL ASSESSMENTS.			
10. Special Assessments Rebated.....			
a. Moth Extermination.....			
b. Sewer.....			
c. Sidewalk.....			
d. Street Betterment.....			
e. Street Sprinkling.....			
11. Total for Special Assessments.....			

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4. DEPARTMENTAL.			
4a. General Government.....			
29. Legislative.....			
a. Aldermen and Council.....			
30. Executive.....			
a. Mayor's Office.....			
31. Other General Departments.....			
a. Assessors.....			
b. Auditor.....			
c. City Clerk.....	\$2,691.35		
d. Clerk of Committees.....			
e. City Messenger.....	17,048.94		
f. Election and Registration.....	6.46		
g. Law.....	76.40		
h. License Commissioners.....	988.00		
i. Treasurer and Collector.....	8,566.62		
j. All Other Departments.....			
32. Municipal Buildings.....			
Rent and Heating Buildings.....	1,500.00		
33. Miscellaneous.....			
City Fees for Dog Licenses.....	2,919.60		
Unclaimed Fees.....			
Badges, Hawkers'.....	5.75		
License Board.....			
34. Total from General Government....	\$38,748.12		\$38,748.12

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4. DEPARTMENTAL.			
4a. General Government.....			
12. Legislative.....			
a. Salaries of Aldermen and Council.			
b. Other Salaries (including Clerk of Common Council).....	\$995.00		
c. Other Expenses.....	2,881.05		
13. Executive.....			
a. Salary of Mayor.....	4,000.00		
b. Other Salaries.....	4,899.76		
c. Other Expenses.....	2,201.73		
14. Other General Departments.....			
a. Assessors.....			
Salaries and Clerical Service.....	15,642.58		
Other Expenses.....	6,237.71		
b. Auditor.....			
Salaries and Clerical Service.....	9,189.22		
Other Expenses.....	1,848.64		
c. City Clerk.....			
Salaries and Clerical Service.....	6,658.48		
Other Expenses.....	1,850.37		
d. Clerk of Committees.....			
Salaries and Clerical Service.....	3,468.09		
Other Expenses.....	594.01		
e. City Messenger.....			
Salaries and Clerical Service.....	2,023.11		
Other Expenses.....	16,749.82		
f. Election and Registration.....			
Salaries and Wages.....	11,944.81		
Other Expenses.....	10,204.25		
g. Law.....			
Salaries.....	6,845.44		
Other Expenses.....	1,647.78		
h. License Commissioners.....			
Salaries and Clerical Service.....	2,150.00		
Other Expenses.....	785.17		
i. Treasurer and Collector.....			
Salaries and Clerical Service.....	18,084.18		
Other Expenses.....	8,214.99		
j. All Other Departments.....			
k. Buildings Department.....	11,464.14		
15. Municipal Buildings.....	28,859.29		
16. Other Expenses.....			
17. Civil Service Commission.....	742.13		
18. License Board.....	608.01		
19. Planning Board.....	45.11		
20. Wire Commission.....	40.29		
21. Draft Enrollment.....	999.55		
22. Total for General Government.....	\$175,814.56		\$175,814.56

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4b. PROTECTION OF LIFE AND PROPERTY.			
35. Police Department.....			
a. Fines, Costs, etc., from Central District Court.....	\$12,362.69		
b. Services of Officers.....	7,852.57		
c. Cloth Caps and Helmets.....	790.09		
d. Station Houses and Lockups.....	500.00		
e. Other Receipts.....	2,068.87		
36. Fire Department.....			
a. Fines.....	245.00		
b. Horses.....	405.00		
c. Permits for Licenses.....	424.00		
d. Old Apparatus.....	1,075.00		
e. Other Receipts.....	508.10		
37. Signal Service.....			
a. Fire Alarm.....	68.93		
b. Police.....	121.20		
38. Forestry.....			
a. Brown Tail and Gypsy Moth Extermination.....	1,946.14		
b. Elm Leaf Beetle Extermination..	137.75		
c. Sundry Bugs.....			
d. Care of Trees.....	1,512.62		
Protection of Life and Property forward.....	\$30,017.96		

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4b. PROTECTION OF LIFE AND PROPERTY.			
23. Police Department.....			
a. General Administration.....			
Salaries and Wages.....	\$5,800.00		
Other Expenses.....	1,851.88		
b. Salaries of Police.....	245,212.87		
c. Other Salaries.....	57,060.44		
d. Automobiles.....	1,700.00		
e. Automobile Supplies and Repairs.....	9,822.01		
f. Fuel and Light.....	3,086.77		
g. Station Houses and Lockups.....	588.54		
h. Repairs on Buildings.....	1,280.06		
i. New Buildings.....		\$106,855.57	
Miscellaneous.....			
j. Other Expenses.....	12,909.46		
Uniforms.....	1,769.51		
24. Fire Department.....			
a. General Administration.....			
Salaries and Wages.....	10,800.00		
Other Expenses.....	207.70		
b. Salaries of Firemen.....	240,794.68		
c. Fire Warden.....			
d. Automobile Apparatus.....	11,980.47		
e. Automobile Supplies and Repairs.....	2,854.16		
f. Hay, Grain and Straw.....	6,800.18		
g. Horses.....			
Harness and Shoeing.....	1,482.88		
h. Fuel and Light.....	5,645.19		
i. Other Expenses of Fire Houses.....	7,516.42		
j. Equipment and Repairs.....	1,481.77		
k. Repairs on Buildings.....	5,824.81		
l. New Buildings, Additions and Land.....			
25. Signal Service.....			
a. Fire Alarm.....	12,148.86	800.00	
b. Police.....	1,069.58		
26. Forestry.....			
a. Brown Tail and Gypsy Moth Extermination.....	17,644.82		
b. Elm Leaf Beetle Extermination.....	805.77		
c. Sundry Bugs.....			
d. Care of Trees.....	8,116.60		
Protection of Life and Property forward.....	\$674,198.28	\$106,655.57	

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Protection of Life and Property forward.....	\$30,017.96		
39. Home Defense.....			
40. Rifle Range.....			
41. Inspection.....			
a. Inspection of Buildings.....	100.76		
b. Supervisor of Wires.....			
c. Sealer of Weights and Measures.....			
Fees for Sealing.....	1,657.53		
Other Receipts.....	25.39		
42. Total from Protection of Life and Property.....	\$31,801.64		\$31,801.64
4c. HEALTH AND SANITATION.			
Health.....			
43. Contagious Diseases.....			
Communicable Disease Hospital.....			
Belmont Hospital.....	\$8,076.15		
Smallpox.....	929.44		
Tuberculosis.....	2,302.51		
Tuberculosis Subsidy Como.....	12,877.64		
44. Inspection.....			
a. Inspection of Animals and Provisions.....			
b. Inspection of Milk and Vinegar....	36.91		
45. Other Receipts.....			
Convenience Station.....	77.40		
Vital Statistics.....	2.00		
Sanitation.....			
46. Sewers.....			
a. Construction.....	41,910.91		
b. Maintenance.....	3,210.69		
c. Purification.....	923.48		
47. Refuse and Garbage Disposal.....	44,609.15		
48. Total from Health and Sanitation...	\$114,956.23		\$114,956.23

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Protection of Life and Property forward.....	\$674,198.28	\$106,655.57	
27. Home Defense.....	4,842.08		
28. Rifle Range.....	1,704.48	53.70	
29. Inspection.....			
a. Inspection of Buildings.....	4,400.00		
b. Supervision of Wires.....	4,728.28		
c. Sealer of Weights and Measures....	7,088.48		
d. Inspection of Plumbing.....	4,064.92		
30. Total for Protection of Life and Property.....	\$701,021.52	\$106,709.27	\$807,730.79
4e. HEALTH AND SANITATION.			
Health.....			
31. General Administration.....	\$5,802.46		
32. Physician to Board of Health.....	700.00		
33. Contagious Diseases.....	358.86		
Communicable Disease Hospital....		\$312.68	
Belmont Hospital.....	37,775.75		
Smallpox Hospital.....	5,972.54		
Tuberculosis.....	46,835.22		
34. Inspection.....			
a. Inspection of Animals and Provisions.....	2,299.60		
b. Inspection of Milk and Vinegar..	2,682.03		
c. Inspection of School Children....	4,656.34		
d. Sanitary Inspectors.....	967.00		
e. Baby Hygiene.....	340.00		
f. Bacteriologists.....	1,007.49		
g. Disinfectant.....	990.00		
35. Other Expenses.....	6,254.26		
Bacteriological Expenses.....	188.91		
Disinfectants.....	261.55		
Convenience Station.....	4,962.89		
Vital Statistics.....	2,465.20		
Sanitation.....			
36. General Administration.....	5,806.82		
37. Sewer Construction.....		107,788.61	
38. Sewer Operation and Maintenance..	49,275.19		
39. Sewer Purification.....	75,172.12	389.34	
Automobiles.....	1,450.00		
Automobile Supplies and Repairs....	2,214.79		
40. Refuse and Garbage Disposal.....	83,241.19		
Incinerators.....	1,319.97		
41. Total for Health and Sanitation.....	\$342,750.18	\$108,490.63	\$451,240.81

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4d. HIGHWAYS AND BRIDGES.			
49. Engineering Department.....	\$25,889.29		
50. Street Con. (Land Damage).....	975.90		
51. Street Construction.....	24.68		
52. Street Maintenance.....	151,135.78		
53. Street Paving (Block).....	2,109.73		
54. Street Paving (Macadam).....	723.89		
55. Street Cleaning.....	849.76		
56. Street Lighting.....	1,161.11		
57. Street Sprinkling.....	2,098.91		
58. Sidewalks and Crosswalks.....	2,129.14		
59. Abolition of Grade Crossings.....	518.61		
60. Bridges and Repairs.....			
61. Lake Quinsigamond Bridge.....	6,398.02		
62. Total from Highways and Bridges. . .	\$193,009.77		\$193,009.77
4e. CHARITIES.			
63. Almshouse.....			
a. Board.....	\$23,155.91		
b. Sale of Farm Produce.....	22,833.16		
c. Sale of Live Stock.....	17,189.03		
d. Miscellaneous.....	3,824.16		
64. Reimbursements.....			
a. From Cities, Towns and Indi- viduals.....	1,763.65		
b. From the State.....	9,586.77		
c. From Other Sources.....	100.00		
d. From Cities and Towns—Aid to Mothers.....	1,455.09		
e. From the State—Aid to Mothers. Amount Uncalled for—Aid to Mothers.....	14,814.96		
f. From the State—Aid to Mothers. Amount Uncalled for—Aid to Mothers.....	46.00		
65. Hospital Receipts.....			
a. Board.....	99,759.85		
b. Out-Patient Department.....	679.27		
c. Miscellaneous.....	6,001.66		
66. Income from Trust Funds.....			
a. For General Hospital Purposes...	10,874.06		
b. For Specific Hospital Purposes...	2,929.97		
67. Total from Charities.....	\$219,968.54		\$219,968.54

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4d. HIGHWAYS AND BRIDGES.			
42. General Administration.....	\$11,997.46		
43. Engineering Department.....	35,276.77		
44. Street Con. (Land Damage).....		\$46,644.47	
45. Street Construction.....		52,280.68	
46. Street Maintenance.....	342,088.77		
47. Automobiles.....	4,485.05		
48. Automobile Supplies and Repairs...	12,345.28		
49. Street Paving (Block).....		53,895.16	
50. Street Paving (Macadam).....	10,012.18		
51. Street Cleaning.....	95,568.49		
52. Street Lighting.....	192,218.56		
53. Street Sprinkling.....	80,485.74		
54. Sidewalks and Crosswalks.....		33,984.82	
55. Abolition of Grade Crossings.....	7,795.70		
56. Bridges and Repairs.....	1,485.78		
57. Perambulating City Lines.....			
58. Street Congestion Committee.....			
59. Lake Quinsigamond Bridge.....		131,806.01	
60. Total for Highways and Bridges....	\$798,699.68	\$818,510.59	\$1,112,210.22
4a. CHARITIES.			
61. Almshouse.....			
a. General Administration.....	\$2,488.88		
b. Other Expenses.....	122,065.23		
62. City Relief.....			
a. General Administration.....	7,668.52		
b. Other Expenses.....	1,710.45		
c. Transportation.....	315.14		
63. Aid to Mothers with Dependent Children.....	89,861.12		
64. Out-door Poor in City.....	32,645.21		
65. Out-door Poor Outside City.....			
a. At Mass. Hospital School.....	1,544.55		
b. At Other Institutions and Hos- pitals.....	488.92		
c. Relief Given by Other Cities and Towns.....	3,008.86		
d. Relief Given by Other Cities and Towns for Aid to Mothers...	590.06		
66. Hospitals.....			
a. Payments from Appropriations for Hospital Purposes and Maintenance.....	236,807.11		
67. Expenditures for Various Purposes of Income from Specific Trust Funds.....	13,442.10		
68. Total for Charities.....	\$512,615.60		\$512,615.60

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4f. EDUCATION.			
68. From Various Sources.....			
a. Tuition.....	\$6,021.25		
b. Sale of Textbooks and Supplies..	706.50		
c. Manual Training.....	61.93		
d. Miscellaneous.....	734.45		
e. Janitorial Supplies.....	284.13		
f. Labor, Materials, etc.....	4,215.53		
g. Furniture, etc.....	29.09		
h. Sale of Buildings.....			
i. Rents.....	332.95		
69. Independent Industrial Schools.....			
a. Labor, Materials, etc.....	11,207.72		
b. Tuition.....	21,979.92		
c. Reimbursements from State.....	37,995.50		
70. Total from Education.....	\$83,568.97		\$83,568.97
4g. LIBRARIES AND READING ROOMS.			
71. Fines, Catalogues and Books.....	\$2,027.64		
72. Refuse Materials and Junk.....	105.01		
73. Rents.....	10.00		
74. Other Receipts.....	13.35		
75. Income from Trust Funds.....	2,849.72		
76. Total from Libraries and Reading Rooms.....	\$5,005.72		\$5,005.72

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4f. EDUCATION.			
69. General Administration.....			
a. Supt. and Asst. Supts' Salaries.....	\$13,400.00		
b. Supt. Pension Fund to Como.....	100.00		
c. Office Expenses.....	7,176.99		
d. Truant Officers.....	6,012.33		
e. Clerk of School Committee.....	2,991.66		
70. Teachers' Salaries.....			
a. High and Day Schools.....	797,098.59		
b. Evening Schools.....	23,698.44		
c. Pension Fund to Como.....	25,621.63		
71. Other Expense.....			
a. Textbooks and Supplies.....	45,719.07		
b. Janitors' Services.....	78,213.99		
c. Fuel and Light.....	50,311.61		
d. Transportation.....	890.50		
e. Board of Truants.....	2,367.89		
f. Furniture and Furnishings.....	5,111.82	\$17,548.04	
g. Manual Training.....			
Fuel and Light.....	353.90		
Other Expenses.....	4,917.77		
h. Evening Schools.....			
Fuel and Light.....	867.19		
Other Expenses.....	2,875.46		
i. Repairs on Buildings.....	44,428.04		
j. New Buildings, Additions and Land.....		96,859.48	
k. Rent for Schoolroom Purposes....	629.17		
l. Miscellaneous.....	21,350.41		
m. Janitorial Supplies.....	3,154.16		
n. Inspector of School Buildings....	1,483.32		
72. Independent Industrial Schools.....			
a. Construction.....		72,201.50	
b. Equipment.....		5,784.27	
c. Maintenance.....	98,508.73		
d. Evening Schools.....	13,599.53		
73. Total for Education.....	\$1,251,181.70	\$192,393.29	\$1,443,574.99
4g. LIBRARIES AND READING ROOMS.			
74. Supervision and Salaries.....	\$36,840.50		
75. Books and Periodicals.....	17,114.21		
76. Janitors' Services.....	6,914.45		
77. Fuel and Light.....	4,137.05		
78. Other Expenses.....	7,156.14		
Expenditures of Income for Books and Periodicals from Specific Trust Funds.....	2,471.00		
79. Total for Libraries and Reading Rooms.....	\$74,633.35		\$74,633.35

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4h. RECREATION.			
77. Parks.....			
a. Refreshments—Refectories.....	\$4,990.08		
b. Grass.....	111.00		
c. Miscellaneous.....	909.28		
d. Income from Trust Funds.....	9,928.88		
e. Rents.....	1,087.72		
f. Standing Wood.....			
78. Playgrounds.....	379.40		
79. Bathhouses.....			
80. Total from Recreation.....	\$17,291.86		\$17,291.86
4l. SOLDIERS' BENEFITS.			
81. State Aid.....	\$22,677.50		
82. Military Aid.....	1,061.00		
83. Soldiers' Burials.....	1,014.00		
84. Soldiers' Relief.....	53.50		
85. Total from Soldiers' Benefits.....	\$24,806.00		\$24,806.00
4j. PENSIONS.			
86. Total from Pensions.....			

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4h. RECREATION.			
80. Parks			
a. Supervision.....	\$1,642.14		
b. Labor.....	24,746.17		
c. Improvements and Additions....			
d. Other Expenses.....	22,584.86		
e. Expenditures for Various Purposes of Income from Specific Trust Funds.....	9,274.98		
81. Playgrounds.....	23,679.82		
82. Bathhouses.....			
a. Supervision.....	912.90		
b. Other Expenses.....	596.13		
83. Celebrations and Entertainments....			
a. Band Concerts.....	634.20		
b. Fourth of July.....	998.21		
c. Memorial Day.....	1,024.25		
d. Receptions.....			
84. Total for Recreation.....	\$36,093.61		\$36,093.61
4i. SOLDIERS' BENEFITS.			
85. State Aid.....	\$30,610.75		
86. Military Aid.....	1,466.00		
87. Soldiers' Burials.....	639.98		
88. Soldiers' Relief.....	11,482.91		
Care of Graves, Chap. 122, Acts 1914.	239.00		
Proportional Cost of Taxes, Chap. 299, Acts 1916.....	1,994.24		
89. Total for Soldiers' Benefits.....	\$46,432.88		\$46,432.88
4j. PENSIONS.			
90. Retirement Made From.....			
a. Buildings Department.....	\$670.07		
b. City Messenger Department.....	995.54		
c. Fire Department.....	3,258.24		
d. Police Department.....	12,863.18		
e. School Department.....	1,650.92		
f. Sewer Department.....	899.31		
g. Street Department.....	3,927.26		
h. Water Department.....	1,008.78		
91. Total for Pensions.....	\$24,773.30		\$24,773.30

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
4k. UNCLASSIFIED.			
87. Conscience Money.....			
88. Real Estate Sales.....	\$3,084.00		
89. City Ordinances.....			
90. Money Found.....			
91. Total from Unclassified.....	\$3,084.00		\$3,084.00
5. INTEREST.			
92. On Deposits.....	\$7,017.73		
93. On Taxes.....	25,444.33		
94. On Special Assessments.....	5,817.72		
95. Accrued Interest on City Loans.....	425.00		
96. Accrued Interest on Sewer Loans.....	350.00		
97. On Real Estate Lien Account.....	4.50		
98. On Real Estate Sale.....	17.23		
99. On Municipal Industry Loans.....			
a. Water.....			
Accrued Interest.....	1,764.58		
100. Total from Interest.....	\$40,841.09		\$40,841.09
6. CEMETERIES.			
101. Care of Lots.....	\$2,773.25		
102. Sale of Lots and Graves.....	12,352.00		
103. Digging Graves, Grading, etc.....	7,117.35		
104. Dividends on Perpetual Care Fund..	8,106.38		
105. Interest on Deposits.....	100.00		
106. Miscellaneous.....	1,420.57		
107. Memorial Gateway—Mary H. Nixon (Legacy).....	4,500.00		
108. Total from Cemeteries.....	\$36,368.55		\$36,368.55

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
4k. UNCLASSIFIED.			
92. City and Town Clocks	\$170.88		
93. Printing City Documents	3,231.38		
94. Fence Viewers	8.90		
95. Food Conservation	1,237.63		
96. Spanish War Statue	4,800.00		
97. Total for Unclassified	\$8,948.74		\$8,948.74
5. INTEREST.			
98. On Loans in Anticipation of Revenue.	\$53,705.70		
99. On Bonds or Notes			
a. City	232,811.00		
b. Park	10,297.50		
c. Public Playgrounds	2,950.00		
d. Sewer	76,645.00		
a. Refunded	87.49		
100. On Municipal Industry Loans			
a. Water			
From Earnings	202,121.25		
101. Total for Interest	\$578,617.94		\$578,617.94
6. CEMETERIES.			
102. General Supervision	\$1,800.00		
103. Labor	18,174.42		
104. Improvements and Additions			
105. Expenditures of Income From			
Perpetual Care Fund	8,105.38		
106. Other Expenses			
107. Total for Cemeteries	\$28,079.80		\$28,079.80

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
7. MUNICIPAL INDUSTRIES.			
109. Water Works.....			
a. Income from Sale of Water.....	\$576,365.96		
b. Labor, Materials, etc.....	117,892.51		
c. Rent and Sale of Buildings.....			
110. Total from Water Works.....	\$694,258.47		
111. Miscellaneous.....			
a. Public Scales.....			
112. Total from Miscellaneous.....			
113. Total from Municipal Industries....	\$694,258.47		\$694,258.47

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
7. MUNICIPAL INDUSTRIES.			
106. Water Works.....			
a. Construction.....		\$158,218.58	
b. Maintenance.....	\$148,036.82		
c. Automobiles.....	4,822.20		
d. Automobile Supplies and Repairs.....	8,818.24		
e. Construction, Pipe Improvement.....		29,801.75	
f. Construction, Asnebumskit.....		157,488.97	
g. Construction, Tatnuck.....		5,742.68	
h. Emergency.....	163.00		
i. Refund Water Rates.....	7.00		
109. Total for Water Works.....	\$161,867.26	\$345,751.98	
110. Miscellaneous.....			
a. Public Scales.....	\$1,008.48		
111. Total for Miscellaneous.....	\$1,008.48		
112. Total for Municipal Industries.....	\$162,875.74	\$345,751.98	\$508,627.67

SOURCES OF RECEIPTS	Revenue for Expenses	Indebtedness	Total
8. MUNICIPAL INDEBTEDNESS.			
114. Loans in Anticipation of Revenue....		\$5,475,000.00	
115. Sale of Bonds or Notes.....			
a. Highway.....		105,000.00	
b. Police Buildings.....		85,000.00	
c. School.....		65,000.00	
d. Sewer.....		50,000.00	
e. Water.....		350,000.00	
f. Miscellaneous.....			
Premium on Bonds.....			
a. Highway.....	\$702.45		
b. Police Buildings.....	568.65		
c. School.....	434.85		
d. Sewer.....			
e. Water.....	285.00		
f. Miscellaneous.....			
116. Total from Municipal Indebtedness..	\$1,990.95	\$6,180,000.00	\$6,181,990.95
9. SERIAL FUNDS.			
a. From Taxation.....	\$211,748.58		
b. From Premium on Bonds.....	1,745.42		
c. From Earnings of Municipal In- dustries.....			
Water Works.....	124,206.00		
117. Total from Serial Funds.....	\$337,700.00		\$337,700.00
10. SINKING FUNDS.			
118. From Commissioners to Meet Loans on Account of:			
a. Isolation Hospital.....		\$45,000.00	
b. Highway.....		50,000.00	
c. Home Farm (Barn).....		10,000.00	
d. Schools.....		138,500.00	
e. Sewer.....		57,000.00	
f. Water.....		25,000.00	
g. Miscellaneous.....			
119. Total from Sinking Funds.....		\$325,500.00	\$325,500.00
Total Receipts.....	\$6,775,022.64	\$6,548,057.29	\$13,323,079.93
Balance on Hand Beginning of Year..			68,074.84
Grand Total.....			\$13,391,154.77

OBJECTS OF PAYMENTS	Expense	Indebtedness	Total
8. MUNICIPAL INDEBTEDNESS.			
113. Loans in Anticipation of Revenue....		\$5,475,000.00	
114. Bonds or Notes.....			
a. Highways from Sinking Funds...		50,000.00	
b. Home Farm (Barn) from Sinking Funds.....		10,000.00	
c. Isolation Hospital from Sinking Funds.....		45,000.00	
d. Schoolhouses from Sinking Funds.....		188,500.00	
e. Sewer (Beaver Brook) from Sinking Funds.....		7,000.00	
f. Sewer (Filtration Beds) from Sinking Funds.....		50,000.00	
g. Water from Sinking Funds.....		25,000.00	
h. Ab. of Grade Crossings from Serial Funds.....		1,000.00	
i. Highways from Serial Funds.....		59,000.00	
j. Hospitals from Serial Funds.....		10,000.00	
k. House Offal from Serial Funds...		15,000.00	
l. Playgrounds from Serial Funds.....		1,000.00	
m. Police from Serial Funds.....		21,500.00	
n. Schoolhouses, from Serial Funds..		80,200.00	
o. Sewer from Serial Funds.....		25,000.00	
p. Water from Serial Funds.....		125,000.00	
115. Total for Municipal Indebtedness...		\$6,138,200.00	\$6,138,200.00
9. SERIAL FUNDS.			
a. Payments City Loan.....		\$187,700.00	
b. Payments Sewer Loan.....		25,000.00	
c. Payments Water Loan.....		125,000.00	
116. Total for Serial Funds.....		\$337,700.00	\$337,700.00
10. SINKING FUNDS.			
Paid Commissioners.....			
a. From Real Estate Sales.....	\$288.00		
b. From Taxation.....	349,765.00		
c. From Earnings of Municipal Industries.....			
d. Water Works.....	65,200.00		
117. Total for Sinking Funds.....	\$415,253.00		\$415,253.00
Total Payments.....	\$5,950,961.21	\$7,547,755.71	\$13,498,716.92
Deficit End of Year.....			107,562.15
Grand Total.....			\$13,591,154.77

RECEIPTS

The Receipts for the year ending November 30, 1917, are shown in aggregate as credited to the following accounts:—

1. Abolition of grade crossings.....	\$513.61
2. City Clerk Department.....	4,965.35
3. City Hospital.....	106,440.78
4. City Hospital (Barnard Fund).....	60.00
5. City Hospital (Harriet D. Brown Fund)	381.09
6. City Hospital (Burnside Fund).....	150.00
7. City Hospital (Conant Fund).....	60.00
8. City Hospital (Curtis Fund).....	40.00
9. City Hospital (Isaac Davis Fund).....	200.00
10. City Hospital (Alice Taft Farnum Fund)	17.20
11. City Hospital (Harris Fund).....	250.00
12. City Hospital (Heinsheimer Fund)....	40.00
13. City Hospital (Jaques Fund).....	9,491.88
14. City Hospital (McIntire Fund).....	206.00
15. City Hospital (Partridge Fund).....	60.00
16. City Hospital (Rice Fund).....	250.00
17. City Hospital (Salisbury Fund).....	220.00
18. City Hospital (Sargent Fund).....	20.00
19. City Hospital (Shaw Fund).....	80.00
20. City Hospital (Stoddard Fund).....	185.68
21. City Hospital (Tenney Fund).....	200.00
22. City Hospital (Thayer Fund).....	957.90
23. City Hospital (Thayer Nurses' Home Fund).....	490.00
24. City Hospital (Walker Fund).....	40.00
25. City Hospital (Wilson Fund).....	260.00
26. City Hospital (Wolfe Fund).....	144.28
27. City Messenger Department.....	17,043.94
28. Engineering Department.....	25,389.29
29. Fire Department (Pay Rolls).....	508.25
30. Fire Department (Automobile Maintenance)	7.00
31. Fire Department (Fire Alarm Telegraph)	68.93
32. Fire Department (Horses, Hay and Grain).....	596.33
33. Fire Department (Hose, Fittings and Apparatus Repairs).....	99.47
34. Fire Department (New Apparatus Ac- count).....	1,075.00
35. Fire Department (Miscellaneous)....	484.59
36. General Expense.....	20,866.31
37. Health Department.....	1,251.19
38. Health Department (Belmont Hospital)	23,121.55
39. Health Department (Milk Inspection).	518.41
40. Hope Cemetery.....	36,368.55
41. Inspection and Construction of Build- ings Department.....	1,903.66
42. Inspection and Construction of Build- ings Department (Repairs and Im- provements of Engine Houses).....	7.66
43. Inspection and Construction of Build- ings Department (Repairs and Im- provements of Police Buildings).....	.85

44. Inspection and Construction of Buildings Department (Care of Schoolhouses).....	646.17
45. Inspection and Construction of Buildings Department (Ordinary Repairs of Schoolhouses).....	3,257.87
46. Inspection and Construction of Buildings Department (Permanent Improvements of Schoolhouses).....	879.59
47. Interest.....	38,726.51
48. Interest on Sewer Loan.....	350.00
49. Interest on Water Loan.....	1,764.58
50. Lake Quinsigamond Bridge Account ..	6,398.02
51. Law Department.....	76.40
52. Liquor Licenses.....	268,303.40
53. Loans, Serial City.....	255,000.00
54. Loans, Serial Sewer.....	50,000.00
55. Loans, Serial Water.....	350,000.00
56. Loans, Temporary.....	5,475,000.00
57. Moth Extermination Assessments.....	5,052.40
58. Overlaying Taxes, 1916.....	15.00
59. Overseers of Poor Department (City Relief).....	27,771.47
60. Overseers of Poor Department (Home Farm).....	71,952.26
61. Overseers of Poor Department (House Offal).....	44,609.15
62. Park Commissioners.....	6,963.86
63. Park Commissioners (Forestry).....	1,512.62
64. Edward Livingston Davis Tower and Park Fund.....	1,086.05
65. William A. Richardson Park Fund.....	8,862.05
66. Moth and Beetle Extermination.....	2,083.89
67. Public Playgrounds.....	379.40
68. Police Department (Pay Rolls).....	20,219.26
69. Police Department (Cloth, Caps and Helmets).....	1,006.59
70. Police Department (Miscellaneous)....	2,147.85
71. Police Department (New Police Stations).....	199.67
72. Premium on City Bonds.....	1,990.95
73. Public Library Department (Salaries and Pay Rolls).....	5,103.32
74. Public Library Department (Books and Periodicals).....	2,127.15
75. Public Library Department (Heat, Light and Repairs).....	15.50
76. Public Library Department (Miscellaneous).....	12.00
77. Public Library Department (Green Library Book Account).....	2,405.27
78. Public Library Department (Reading Room Fund).....	444.45
79. Real Estate Lien Account.....	240.16
80. Real Estate Sales.....	3,084.00
81. Schools (Salaries).....	6,338.75
82. Schools (Salaries, Janitors).....	150.20

83.	Schools (Text-books, Stationery and Supplies)	706.50
84.	Schools (Printing and Miscellaneous) ..	63.34
85.	Schools (Manual Training)	61.93
86.	Schools (Industrial Schools)	249.00
87.	Schools (Industrial Schools, Maintenance, Boys)	46,716.84
88.	Schools (Industrial Schools, Maintenance, Girls)	24,217.30
89.	Schoolhouses	281.48
90.	Sealer of Weights and Measures Department	1,682.92
91.	Serial Fund	337,700.00
92.	Sewer Assessments	37,950.77
93.	Sewer Department (Construction)	41,889.35
94.	Sewer Department (Maintenance)	3,210.69
95.	Sewer Department (Purification)	745.09
96.	Sewers (Construction Greendale Trunk) ..	21.56
97.	Sewers (Purification, Filtration Beds) ..	178.89
98.	Sidewalk Assessments	18,732.50
99.	Sinking Funds, 1888 to 1913	325,500.00
100.	Soldiers' Benefits	24,806.00
101.	Street Betterment Assessments	35,874.02
102.	Street Construction (Land Damage Account)	975.90
103.	Street Department (Construction)	24.63
104.	Street Department (Maintenance)	151,135.78
105.	Street Department (Paving Account) ..	2,109.73
106.	Street Department (Macadam Paving Account)	723.89
107.	Street Department (Sidewalks and Crosswalks)	2,129.14
108.	Street Department (Street Cleaning) ...	349.76
109.	Street Department (Street Sprinkling) ..	2,098.91
110.	Street Lighting Department	1,161.11
111.	Street Sprinkling Assessments	74,371.03
112.	Taxes, 1914 to 1916	747,704.60
113.	Taxes, 1916 Corporation (Balance)	18,508.81
114.	Taxes, 1916 Street Railway Tax	14,777.09
115.	Taxes, 1917	3,039,433.02
116.	Taxes, 1917 Corporation	404,618.01
117.	Taxes, 1917 Income Tax	280,220.30
118.	Taxes, 1917 National Bank Tax—State Account	5,789.52
119.	Taxes, 1917 Street Railway	19,288.61
120.	Taxes, 1917 Street Railway Excise	25,297.09
121.	Taxes, 1917 Public Institution	7,689.67
122.	Treasury Department	8,566.62
123.	Water Department (Construction)	70,380.97
124.	Water Department (Maintenance)	32,714.87
125.	Water Department (1911 Emergency Supply)	7,000.00
126.	Water Rates	576,365.96
127.	Water Works (Construction, Pipe Extension and Improvement)	6,202.25
128.	Water Works (Asnebumskit Supply) ...	1,594.42

\$13,323,079.98

Cash in Treasury, November 30, 1916..	334,627. 37
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	\$13,657,707. 30
November bills included in draft and paid after November 30, 1916.....	266,552. 53
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	\$13,391,154. 77

EXPENSES

The claims of the year ending November 30, 1917, as approved and drawn for in the Auditor's office, are shown in aggregates as charged to the following accounts:—

1. Abolition of Grade Crossings.....	\$7,795. 70
2. Assessors Department (Salaries).....	15,642. 53
3. Assessors Department (Miscellaneous).	6,237. 71
4. Auditing Department.....	10,537. 86
5. City Clerk Department.....	10,474. 00
6. Clerk of Committee's Department.....	4,057. 10
7. City Hospital.....	286,807. 11
8. City Hospital (Barnard Fund).....	46. 00
9. City Hospital (Harriet D. Brown Fund)	836. 00
10. City Hospital (Burnside Fund).....	301. 00
11. City Hospital (Conant Fund).....	19. 00
12. City Hospital (Curtis Fund).....	39. 25
13. City Hospital (Isaac Davis Fund).....	141. 00
14. City Hospital (Jaques Fund).....	9,491. 88
15. City Hospital (McIntire Fund).....	145. 00
16. City Hospital (Partridge Fund).....	21. 00
17. City Hospital (Rice Fund).....	301. 00
18. City Hospital (Salisbury Fund).....	131. 00
19. City Hospital (Sargent Fund).....	21. 50
20. City Hospital (Shaw Fund).....	80. 00
21. City Hospital (Stoddard Fund).....	103. 19
22. City Hospital (Tenney Fund).....	200. 00
23. City Hospital (Thayer Fund).....	957. 90
24. City Hospital (Thayer Nurses' Home Fund).....	291. 10
25. City Hospital (Wilson Fund).....	172. 00
26. City Hospital (Wolfe Fund).....	144. 28
27. City Messenger Department.....	38,406. 77
28. Engineering Department.....	35,276. 77
29. Fire Department (Pay Rolls).....	260,978. 81
30. Fire Department (Automobile Maintenance)	2,854. 16
31. Fire Department (Fire Alarm—New Building).....	300. 00
32. Fire Department (Fire Alarm Telegraph)	2,764. 68
33. Fire Department (Fuel).....	4,509. 76
34. Fire Department (Horses, Hay and Grain).....	6,824. 18
35. Fire Department (Hose, Fittings and Apparatus Repairs).....	1,481. 77
36. Fire Department (New Apparatus Ac- count).....	11,980. 47
37. Fire Department (Miscellaneous).....	10,317. 88

38.	General Expense.....	55,088.85
39.	Health Department.....	38,281.81
40.	Health Department (Belmont Hospital)	77,775.75
41.	Health Department (Medical Inspection of Public Schools).....	4,656.84
42.	Health Department (Milk Inspection).....	2,632.03
43.	Home Defense.....	4,842.08
44.	Hope Cemetery.....	28,079.80
45.	Incidental Expenses (New Rifle Range Account).....	53.70
46.	Inspection and Construction of Buildings Department.....	23,578.23
47.	Inspection and Construction of Buildings Department (Hospitals for Communicable diseases).....	312.68
48.	Inspection and Construction of Buildings Department (Repairs and Improvements of Engine Houses).....	5,824.81
49.	Inspection and Construction of Buildings Department (Repairs and Improvements of Police Buildings).....	1,280.06
50.	Inspection and Construction of Buildings Department (Care of Schoolhouses).....	67,169.40
51.	Inspection and Construction of Buildings Department (Ordinary Repairs of Schoolhouses).....	26,107.06
52.	Inspection and Construction of Buildings Department (Permanent Improvements of Schoolhouses).....	22,984.10
53.	Interest.....	299,851.69
54.	Interest on Sewer Loan.....	76,645.00
55.	Interest on Water Loan.....	202,121.25
56.	Lake Quinsigamond Bridge Account.....	131,806.01
57.	Law Department.....	8,493.22
58.	Liquor Licenses.....	73,823.90
59.	Loans, Funded City.....	250,500.00
60.	Loans, Funded Sewer.....	50,000.00
61.	Loans, Funded Water.....	25,000.00
62.	Loans, Serial City.....	187,700.00
63.	Loans, Serial Sewer.....	25,000.00
64.	Loans, Serial Water.....	125,000.00
65.	Loans, Temporary.....	5,475,000.00
66.	Overlayings, Taxes, 1914.....	8,167.53
67.	Overlayings, Taxes, 1915.....	2,246.80
68.	Overlayings, Taxes, 1916.....	11,008.25
69.	Overlayings, Taxes, 1917.....	23,242.50
70.	Overseers of Poor Department (City Relief).....	87,827.83
71.	Overseers of Poor Department (Home Farm).....	124,538.56
72.	Overseers of Poor Department (House Offal).....	83,241.19
73.	Park Commissioners.....	48,895.64
74.	Park Commissioners (Forestry).....	8,116.60
75.	Edward Livingston Davis Tower and Park Fund.....	514.29
76.	William A. Richardson Park Fund.....	8,760.64

77.	Boynton Park	77. 53
78.	Moth and Beetle Extermination	17,950. 09
79.	Public Playgrounds	23,679. 82
80.	Pensions	24,773. 80
81.	Police Department (Pay Rolls)	307,572. 81
82.	Police Department (Cloth, Caps and Helmets)	975. 76
83.	Police Department (Miscellaneous)	30,182. 90
84.	Police Department (New Police Stations)	106,355. 57
85.	Public Library Department (Salaries and Pay Rolls)	43,754. 95
86.	Public Library Department (Books and Periodicals)	17,114. 21
87.	Public Library Department (Heat, Light and Repairs)	6,522. 72
88.	Public Library Department (Miscellaneous)	4,770. 47
89.	Public Library Department (Green Library Book Account)	2,344. 88
90.	Public Library Department (Reading Room Fund)	126. 12
91.	Real Estate Lien Account	236. 31
92.	Schools (Salaries)	853,884. 52
93.	Schools (Salaries, Janitors)	78,213. 99
94.	Schools (Text-books, Stationery and Supplies)	45,719. 07
95.	Schools (Printing and Miscellaneous) ..	9,784. 25
96.	Schools (Truant School)	2,867. 89
97.	Schools (Manual Training)	5,271. 67
98.	Schools (Evening Schools)	26,373. 90
99.	Schools (Industrial Schools)	77,985. 77
100.	Schools (Industrial Schools, Maintenance, Boys)	74,374. 90
101.	Schools (Industrial Schools, Maintenance, Girls)	37,733. 36
102.	Schoolhouses	59,422. 98
103.	Schoolhouses (High Schools)	55,613. 71
104.	Sealer of Weights and Measures Department	7,083. 48
105.	Serial Funds	337,700. 00
106.	Sewer Department (Construction)	89,501. 01
107.	Sewer Department (Maintenance)	48,999. 50
108.	Sewer Department (Purification)	65,006. 94
109.	Sewers (Construction Greendale Trunk) ..	27,759. 21
110.	Sewers (Purification, Filtration Beds) ..	10,165. 13
111.	Sewers (Purification, Outfall Sewer) ..	389. 34
112.	Brooks and Rivers (Maintenance)	275. 69
113.	Sinking Funds, 1838 to 1913	415,253. 00
114.	Soldiers' Benefits	46,432. 88
115.	Street Construction (Land Damage Account)	46,644. 47
116.	Street Department (Salaries and Clerical Service)	11,997. 46
117.	Street Department (Bridges and Repairs)	1,485. 73
118.	Street Department (Construction)	52,230. 63
119.	Street Department (Maintenance)	358,914. 05

120.	Street Department (Paving Account) . .	53,895.16	
121.	Street Department (Macadam Paving Account)	10,012.18	
122.	Street Department (Sidewalks and Crosswalks)	33,934.82	
123.	Street Department (Street Cleaning) . .	95,568.49	
124.	Street Department (Street Sprinkling) .	80,435.74	
125.	Street Lighting Department	192,213.66	
126.	Supervision of Wires Department	4,728.28	
127.	Taxes, 1916, Corporation	2,394.86	
128.	Taxes, 1917, County	186,869.00	
129.	Taxes, 1917, National Bank—State Account	18,712.48	
130.	Taxes, 1917, State	419,210.00	
131.	Taxes, 1917, State Highway Account . .	1,446.06	
132.	Treasury Department	26,299.12	
133.	Water Department (Construction)	153,218.53	
134.	Water Department (Maintenance)	161,684.26	
135.	Water Department (1911 Emergency Supply)	183.00	
136.	Water Works (Construction, Pipe Ex- tension and Improvement)	29,301.75	
137.	Water Works (Asnebumskit Supply) . . .	157,488.97	
138.	Water Works (Tatnuck Supply)	5,742.68	
			<hr/>
	November bills included in draft and paid after November 30, 1917		\$13,498,716.92
			236,129.68
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	Cash in Treasury, November 30, 1917 . .		\$13,262,587.24
			128,567.53
			<hr/>
			\$13,891,164.77

MAYOR'S DRAFTS AND TREASURER'S PAYMENTS COMPARED

The column of differences Nov. 30, 1917, in the following statement shows amount drawn for and charged to City Accounts in the Auditor's Office but not paid by the City Treasurer at that date.

No.	ACCOUNTS	Differences Nov. 30, 1916	Mayor's Drafts	Total	Treasurer's Payments	Differences Nov. 30, 1917
1	Abolition of Grade Crossings		\$7,795.70	\$7,795.70	\$7,795.70	
2	Assessors' Department (Salaries)	\$949.15	15,642.58	16,591.68	15,604.08	\$987.60
3	Assessors' Department (Miscellaneous)	1,097.80	6,237.71	7,335.51	6,419.71	915.80
4	Auditing Department	781.87	10,587.86	11,319.73	10,551.97	767.78
5	City Clerk Department	749.77	10,474.00	11,223.77	10,596.42	627.35
6	Clerk of Committees Department		4,057.10	4,057.10	9,977.19	79.91
7	City Hospital	11,207.40	285,807.11	298,014.51	285,231.76	12,782.75
8	City Hospital (Barnard Fund)		46.00	46.00	46.00	
9	City Hospital (Harriet D. Brown Fund)		836.00	836.00	836.00	
10	City Hospital (Burnside Fund)		301.00	301.00	301.00	
11	City Hospital (Conant Fund)		19.00	19.00	19.00	
12	City Hospital (Curtis Fund)	10.73	39.25	49.98	49.98	
13	City Hospital (Lesse Davis Fund)		141.00	141.00	141.00	
14	City Hospital (Jaques Fund)	4,746.69	9,491.83	14,238.57	9,470.83	4,767.74
15	City Hospital (McIntire Fund)		145.00	145.00	145.00	
16	City Hospital (Partridge Fund)		21.00	21.00	21.00	
17	City Hospital (Rice Fund)		301.00	301.00	301.00	
18	City Hospital (Salisbury Fund)		131.00	131.00	131.00	
19	City Hospital (Sargent Fund)		21.50	21.50	21.50	
20	City Hospital (Shaw Fund)		80.00	80.00	80.00	
21	City Hospital (Stoddard Fund)		103.19	103.19	103.19	
22	City Hospital (Tenney Fund)		200.00	200.00	200.00	
23	City Hospital (Thayer Fund)	967.33	957.90	1,925.23	967.33	957.90
24	City Hospital (Thayer Nurses' Home Fund)	17.60	291.10	308.70	296.30	12.40
25	City Hospital (Wilson Fund)		172.00	172.00	172.00	
26	City Hospital (Wolfe Fund)		144.28	144.28	144.28	
27	City Messenger Department	1,260.37	33,406.77	39,667.14	37,501.69	2,165.45
28	Engineering Department	2,470.21	35,276.77	37,746.98	35,888.95	1,858.03
29	Fire Department (Pay Rolls)	6,801.94	260,978.81	267,780.75	260,788.45	6,992.30
30	Fire Department (Automobile Maintenance)	611.52	2,354.16	3,465.68	3,070.44	395.24
31	Fire Department (Fire Alarm New Building)		300.00	300.00	300.00	
32	Fire Department (Fire Alarm Telegraph)	699.16	2,764.68	3,463.84	3,322.49	81.86
33	Fire Department (Fuel)	297.32	4,509.76	4,807.58	4,378.11	429.47
34	Fire Department (Hay and Grain)	739.60		739.60	739.60	
35	Fire Department (Horses, Hay and Grain)		6,324.18	6,324.18	5,179.91	1,644.27
36	Fire Department (Hoses, Fittings and Apparatus Repairs)		1,481.77	1,481.77	1,327.84	153.93
37	Fire Department (Engines and Apparatus Repairs)	1.00		1.00	1.00	
38	Fire Department (New Apparatus Account)		11,980.47	11,980.47	11,980.47	
39	Fire Department (Miscellaneous)	1,511.93	10,217.88	11,829.86	10,359.36	1,470.50
40	General Expense	2,564.66	55,088.35	57,653.01	54,850.29	2,802.72
41	Health Department	1,239.18	33,231.81	39,570.99	37,609.45	1,961.54
42	Health Department (Belmont Hospital)	5,001.88	77,775.75	82,777.63	77,691.84	5,085.79

No.	ACCOUNTS	Differences Nov. 30, 1916	Mayor's Drafts	Total	Treasurer's Payments	Differences Nov. 30, 1917
43	Health Department (Medical Inspection of Public Schools)	895.95	4,656.84	5,052.29	4,714.84	337.45
44	Health Department (Milk Inspection)	251.61	2,632.08	2,883.64	2,674.23	209.41
45	Home Defense		4,842.08	4,842.08	4,842.08	
46	Hope Cemetery	709.92	28,079.80	28,789.72	28,005.96	783.76
47	Incidental Expenses (New Rifle Range Account)		58.70	58.70	58.70	
48	Inspection and Construction of Buildings Department	1,618.82	28,578.23	30,191.55	27,761.67	2,429.88
49	Inspection and Construction of Buildings Department (Hospitals for Communicable Diseases)		312.68	312.68	205.68	107.00
50	Inspection and Construction of Buildings Department (Repairs and Improvements of Engine Houses)	90.88	5,824.81	5,915.19	5,582.78	332.41
51	Inspection and Construction of Buildings Department (Repairs and Improvements of Police Buildings)	174.68	1,230.06	1,454.74	1,368.49	86.25
52	Inspection and Construction of Buildings Department (Care of Schoolhouses)	1,219.29	67,169.40	68,388.69	66,929.23	1,459.46
53	Inspection and Construction of Buildings Department (Ordinary Repairs of Schoolhouses)	570.94	26,107.06	26,678.00	25,279.75	1,398.25
54	Inspection and Construction of Buildings Department (Permanent Improvements of Schoolhouses)	1,016.76	22,984.10	24,000.86	20,948.83	3,052.03
55	Interest		299,851.69	299,851.69	299,851.69	
56	Interest on Sewer Loan		76,645.00	76,645.00	76,645.00	
57	Interest on Water Loan		202,121.25	202,121.25	202,121.25	
58	Lake Quinsigamond Bridge Account	17,866.85	131,806.01	149,672.86	141,421.76	8,251.10
59	Law Department	508.08	8,498.22	9,001.30	8,500.48	500.82
60	Liquor Licenses		78,823.90	78,823.90	78,823.90	
61	Loans, Funded City		250,500.00	250,500.00	250,500.00	
62	Loans, Funded Sewer		50,000.00	50,000.00	50,000.00	
63	Loans, Funded Water		25,000.00	25,000.00	25,000.00	
64	Loans, Serial City		187,700.00	187,700.00	187,700.00	
65	Loans, Serial Sewer		25,000.00	25,000.00	25,000.00	
66	Loans, Serial Water		125,000.00	125,000.00	125,000.00	
67	Loans, Temporary		5,475,000.00	5,475,000.00	5,475,000.00	
68	Overlays, Taxes, 1914		8,167.58	8,167.58	8,167.58	
69	Overlays, Taxes, 1915		2,246.80	2,246.80	2,246.80	
70	Overlays, Taxes, 1916		11,008.25	11,008.25	11,008.25	
71	Overlays, Taxes, 1917		23,242.50	23,242.50	23,242.50	
72	Overseers of Poor Department (City Relief)	3,061.77	37,827.83	90,889.60	86,952.13	3,937.47
73	Overseers of Poor Department (Home Farm)	7,241.84	124,538.56	131,779.90	116,781.21	14,998.69
74	Overseers of Poor Department (House Off)	5,552.17	38,241.19	38,793.36	35,082.29	3,711.07
75	Park Commissioners	1,923.31	48,895.64	50,818.95	50,601.01	217.94
76	Park Commissioners (Forestry)	172.95	8,116.60	8,289.55	8,188.82	100.73
77	Edward Livingston Davis Tower and Park Fund		514.29	514.29	514.29	
78	William A. Richardson Park Fund	3,104.12	8,760.64	11,864.76	9,987.55	1,897.21
79	Boynton Park		77.53	77.53	74.54	2.99
80	Moth and Beetle Extermination	845.35	17,950.09	18,795.44	18,453.72	341.72
81	Public Playgrounds	1,040.80	28,679.82	24,720.62	18,922.28	5,798.34
82	Pensions	1,955.71	24,778.30	26,723.01	24,509.83	2,213.18
83	Police Department (Pay Rolls)	9,433.00	307,572.81	317,005.81	311,681.81	5,324.00

No.	ACCOUNTS	Differences Nov. 30, 1916	Mayor's Drafts	Total	Treasurer's Payments	Differences Nov. 30, 1917
84	Police Department (Cloth, Caps and Helmets)	112.38	975.76	1,088.14	843.16	244.98
85	Police Department (Miscel- laneous)	1,480.14	80,182.90	81,613.04	29,720.62	1,892.42
86	Police Department (New Police Stations)	19,755.08	106,355.57	126,110.65	112,788.85	13,327.80
87	Public Library Department (Salaries and Pay Rolls)	1,853.54	43,754.95	45,608.49	43,678.67	1,929.82
88	Public Library Department (Books and Periodicals)	2,248.32	17,114.21	19,362.53	17,954.69	1,407.84
89	Public Library Department (Heat, Light and Repairs)	750.88	6,522.72	7,273.60	6,329.01	944.59
90	Public Library Department (Miscellaneous)	1,359.49	4,770.47	6,129.96	4,898.63	1,231.33
91	Public Library Department (Green Library Book Ac- count)	188.79	2,344.88	2,533.67	2,211.67	322.00
92	Public Library Department (Reading Room Fund)	267.00	126.12	393.12	393.12	.....
93	Real Estate Lien Account .....	.....	236.31	236.31	236.31	.....
94	Schools (Salaries)	22,938.68	853,884.52	876,823.20	874,276.37	2,546.83
95	Schools (Salaries—Janitors)	1,511.70	78,218.99	79,730.69	78,051.29	1,679.40
96	Schools (Text-books, Sta- tionery and Supplies)	1,837.52	45,719.07	47,556.59	43,700.77	3,855.82
97	Schools (Printing and Mis- cellaneous)	1,835.12	9,784.25	11,619.37	11,193.26	426.11
98	Schools (Truant School)	210.06	2,367.89	3,077.95	2,338.58	739.37
99	Schools (Manual Training)	1,215.50	5,271.67	6,487.17	6,252.61	234.56
100	Schools (Evening Schools)	1,447.15	26,378.90	27,826.05	26,625.41	1,199.64
101	Schools (Industrial Schools)	2,241.92	77,986.77	80,228.69	79,647.80	580.89
102	Schools (Industrial Schools— Main, Boys)	6,501.23	74,374.90	80,876.13	75,671.58	5,204.55
103	Schools (Industrial Schools— Main, Girls)	1,477.61	37,733.36	39,210.97	37,856.56	1,354.41
104	Schoolhouses	8,093.81	59,422.98	67,516.79	55,062.90	12,453.89
105	Schoolhouses (High Schools)	762.18	55,613.71	56,375.89	54,607.37	1,768.52
106	Sealer of Weights and Mea- sures Department	627.29	7,083.48	7,710.77	7,480.71	230.06
107	Serial Funds .....	.....	337,700.00	337,700.00	337,700.00	.....
108	Sewer Department (Con- struction)	3,338.33	89,501.01	92,839.34	89,210.33	3,629.01
109	Sewer Department (Mainte- nance)	4,716.52	43,999.50	48,716.02	52,302.76	3,586.74
110	Sewer Department (Purifica- tion)	2,329.63	65,006.94	67,336.57	64,845.69	2,490.88
111	Sewers (Construction Green- dale Trunk) .....	.....	27,759.21	27,759.21	27,295.08	464.13
112	Sewers (Purification, Filtra- tion Beds) .....	.....	10,165.18	10,165.18	9,776.71	388.47
113	Sewers (Purification, Outfall Sewer) .....	.....	339.34	339.34	339.04	.30
114	Brooks and Rivers (Mainte- nance) .....	.....	275.69	275.69	275.69	.....
115	Sinking Funds, 1888 to 1913 .....	.....	415,253.00	415,253.00	415,253.00	.....
116	Soldiers' Benefits	1,072.50	46,432.33	47,504.83	46,574.64	930.19
117	Street Construction (Land Damage Account)	2,353.42	46,644.47	48,997.89	47,999.72	1,000.17
118	Street Construction (Land Damage Account, Shrews- bury Street) .....	.67	.....	.67	.67	.....
119	Street Department (Salaries and Clerical Service)	545.89	11,997.46	12,543.35	11,978.96	564.39
120	Street Department (Bridges and Repairs)	33.36	1,485.73	1,519.09	1,569.09	.....
121	Street Department (Con- struction)	2,606.39	52,230.63	54,837.02	53,116.90	1,720.12
122	Street Department (Mainte- nance)	11,432.06	358,914.05	370,346.11	345,602.68	24,743.43
123	Street Department (Paving Account)	224.19	53,895.16	54,119.35	53,368.43	750.92
124	Street Department (Macad- am Paving Account) .....	.....	10,012.13	10,012.13	9,335.93	676.20

No.	ACCOUNTS	Differences Nov. 30, 1916	Mayor's Drafts	Total	Treasurer's Payments	Differences Nov. 30, 1917
125	Street Department (Side- walks and Crosswalks) . . .	2,064.08	33,984.32	35,998.40	34,548.12	1,450.28
126	Street Department (Street Cleaning)	1,687.05	95,568.49	97,255.54	96,771.73	483.81
127	Street Department (Street Sprinkling)	11,005.77	80,435.74	91,441.51	91,441.51	.....
128	Street Lighting Department.	15,477.03	192,218.56	207,690.59	191,114.96	16,575.63
129	Supervision of Wires Depart- ment	223.34	4,728.23	4,951.62	4,756.52	195.10
130	Taxes, 1916, Corporation . . .	.....	2,394.86	2,394.86	2,394.86	.....
131	Taxes, 1917, County . . . . .	.....	186,869.00	186,869.00	186,869.00	.....
132	Taxes, 1917, National Bank —State Account . . . . .	.....	18,712.48	18,712.48	18,712.48	.....
133	Taxes, 1917, State . . . . .	.....	419,210.00	419,210.00	419,210.00	.....
134	Taxes, 1917, State Highway Account . . . . .	.....	1,446.06	1,446.06	1,446.06	.....
135	Treasury Department	1,289.98	26,239.12	27,529.10	25,696.44	1,832.66
136	Water Department (Con- struction)	8,681.79	153,218.53	161,850.32	153,775.29	8,075.03
137	Water Department (Mainte- nance)	4,413.60	161,684.26	166,097.86	159,769.92	6,327.94
138	Water Department (1911 Emergency Supply)	53.37	133.00	241.37	179.25	62.12
139	Water Works (Construction, Pipe Extension and Im- provement)	3,456.29	29,301.75	32,758.04	32,624.39	133.65
140	Water Works (Anebumskit Supply)	6,811.42	157,483.97	164,300.39	161,436.44	2,863.95
141	Water Works (Tatnuck Sup- ply) . . . . .	.....	5,742.68	5,742.68	5,633.79	58.89
		\$266,552.53	\$13,498,716.92	\$13,765,269.45	\$13,529,139.77	\$236,129.68

BORROWING CAPACITY DECEMBER 1, 1917

[Acts 1913, Chapter 719, Section 12]

AN ACT RELATIVE TO MUNICIPAL INDEBTEDNESS*Be it enacted, etc., as follows:*

Section 12. A city shall not authorize indebtedness to an amount exceeding two and one-half per cent. on the average of the assessors' valuations of the taxable property for the three preceding calendar years, the valuations being first reduced by the amount of all abatements allowed thereon previous to the last day of December of the preceding calendar year.

	Valuation	Less Abatements		
1915,	\$180,074,186.00	\$2,324,151.00	\$177,750,035.00	
1916,	189,271,723.00	1,779,137.50	187,492,585.50	
1917,	186,341,156.00	1,203,900.00	185,137,256.00	
	Average of three years.....		\$183,459,958.88	
Debt Limit 2½% of same.....				\$4,586,498.97
Total Bonded Debt.....			\$13,777,700.00	
		EXEMPT		
Abolition of Grade Crossing				
Debt.....		\$430,000.00		
City Hall Debt.....		650,000.00		
Park Debt.....		250,000.00		
Public Playgrounds Debt....		116,000.00		
Sewer Debt.....		1,270,000.00		
Water Debt (Funded).....		3,965,000.00		
Water Debt (Serial).....		1,540,500.00	\$3,221,500.00	
Total Sinking Funds ..	\$6,706,734.88		\$5,556,200.00	
Less Abolition of				
Grade crossing				
Fund.....	\$246,931.75			
Less City Hall				
Fund.....	402,590.27			
Less Park Loan				
Fund.....	122,608.10			
Less Public Play-				
grounds Loan				
Fund.....	72,248.47			
Less Sewer Loan				
Fund.....	631,271.29			
Less Water Loan				
Fund.....	2,595,178.44	\$4,070,828.32	\$2,635,906.56	\$2,920,293.44
Borrowing Capacity inside Debt Limit.....				\$1,666,205.53

DEBT STATEMENT

Bonded Loans, November 30, 1916.....	\$13,785,900.00
The debt has been increased during the financial year ending November 30, 1917, by Serial Loans authorized by City Council as follows:	

Limit for 1917 according to Ordinance \$349,765.00

1917

INSIDE LIMIT

Apr. 9 Police Dep't (New Police Stations) 10 yrs. 4%	\$85,000.00
Apr. 9 Schools (Industrial Schools) 10 yrs. 4%	65,000.00
Apr. 9 Street Con. (Land Damage Acc't) 10 yrs. 4%	75,000.00
Apr. 9 Street Dep't (Paving Acc't) 10 yrs. 4%	30,000.00
Nov. 26 City Hospital (New Public Ward) 10 yrs.—%	47,000.00
Nov. 26 Insp. and Con. of Bldgs. Dep't (Hos. for Communic'le Diseases) 10 yrs. —%	47,000.00
	<hr/>
	\$349,000.00

1917

OUTSIDE LIMIT

Jan. 1 Water Works (Asnebumskit Supply) 10 yrs. 3½%	\$150,000.00
Apr. 23 Sewers (Con. Greendale Trunk) 10 yrs. 4½%	50,000.00
Nov. 12 Water Works (Asnebumskit Supply) 10 yrs. 4½%	200,000.00
(Chap. 85, Spec. Acts 1915, \$70,000, Balance)	
	<hr/>
	\$400,000.00
	<hr/>
	\$749,000.00

\$14,534,900.00

And decreased by payment of Bonds matured
as follows:

No.

142 Apr. 1 Health Dep't (Isolation Hospital) 1907 4%	\$45,000.00
148 Apr. 1 Home Farm (New Barn and Laun- dry Plant Addition) 1907 4%	10,000.00
63 Apr. 1 Schoolhouses 1897 4%	40,000.00
144 Apr. 1 Schoolhouses (Classical High, Perm. Imp'ts) 1907 4%	17,500.00
147 Apr. 1 Schoolhouses (Dix St.) 1907 4% . . .	12,000.00
145 Apr. 1 Schoolhouses (Edgeworth St.) 1907 4%	47,000.00
140 Apr. 1 Schoolhouses (Malvern Road) 1907 4%	22,000.00
143 Apr. 1 Sewers (Purification, Filtration Beds) 1907 4%	50,000.00
146 Apr. 1 Street Dep't (Permanent Paving) 1907 4%	50,000.00
141 Apr. 1 Water Works (Con., Pipe Exten. and Imp't) 1907 4%	25,000.00
150 Oct. 1 Sewers (Con., Beaver Brook) 1907 4%	7,000.00
Payments on Serial City Loans	187,700.00
Payments on Serial Sewer Loans	25,000.00
Payments on Serial Water Loans	125,000.00
	<hr/>
	\$663,200.00

Loans not negotiated:

City Hospital (New Public Ward).....	47,000.00	
Insp. and Con. of Bldgs. Dep't (Hospitals for Communicable Diseases).....	47,000.00	\$757,200.00
	<hr/>	
Bonded Loans, November 30, 1917.....		\$13,777,700.00
(Lake Quinsigamond Bridge Gold Notes, Chapter 302, Acts 1915.....)		\$250,000.00

APPROPRIATIONS AND EXPENDITURES

Showing the appropriation for each city account; the receipts and expenses for the year ending November 30, 1917, and the balances unexpended at that date.

ABOLITION OF GRADE CROSSINGS

Balance November 30, 1916.....	\$11,790.26	
		\$11,790.26

RECEIVED

For Payment of seventy-third decree—Boston and Albany R. R.....	\$166.98	
Payment of seventy-third decree—New York, New Haven and Hartford R. R. Co.....	166.92	
Payment of seventy-third decree—Commonwealth of Massachusetts.....	128.40	
Payment of seventy-third decree—Commonwealth of Massachusetts (City's share to be refunded).....	51.86	
Total as per item No. 1 of receipts.....		\$518.61
		\$12,303.87

EXPENDED

For Copies of decrees.....	\$6.10	
Interest.....	5.89	
Payment of the seventy-first decree.....	7,191.40	
Payment of the seventy-second decree.....	525.95	
Payment of the seventy-third decree.....	51.36	
Services Auditor—James A. Stiles.....	15.00	
Total as per item No. 1 of expenses.....		\$7,795.70
Balance November 30, 1917.....		\$4,508.17

ASSESSORS' DEPARTMENT (Salaries)

Balance November 30, 1916.....	\$116.04	
Appropriation.....	15,000.00	
Amount transferred from liquor licenses.....	600.00	
		\$15,716.04

EXPENDED

For Salary of Assessor—Arthur H. Burton.....	\$575.00	
Salary of Assessor—George B. Hurlburt.....	2,300.00	
Salary of Assessor—Charles H. Harris.....	2,300.00	
Salary of Assessor—George C. Hunt.....	1,700.27	

Assistant assessors.....	2,347.90	
Clerical service.....	6,419.36	
		<hr/>
Total as per item No. 2 of expenses.....		\$15,642.53
		<hr/>
Balance November 30, 1917.....		\$73.51

ASSESSORS' DEPARTMENT (Miscellaneous)

Balance November 30, 1916.....	\$38.98	
Appropriation.....	6,200.00	
		<hr/>
		\$6,238.98

EXPENDED

For Advertising.....	\$27.13	
Automobile hire.....	452.00	
Books and subscriptions.....	104.50	
Engineers' material.....	.65	
Engrossing resolutions—A. H. Burton.....	20.00	
Information—stockholders—foreign corporations.....	247.25	
New England Telephone and Telegraph Co., rental and service.....	17.60	
Printing, stationery and supplies.....	1,981.97	
Refreshments.....	26.00	
Reporting and plotting deeds—Worcester County Abstract Co.....	880.00	
Traveling expenses.....	86.17	
		<hr/>
	\$3,843.27	
Service Transfers—Sundry Departments:		
Engineers' services and materials..	\$856.95	
Engineers' services and materials, plans.....	1,368.87	
Horse hire and car fares.....	6.00	
Stationery, stamps and supplies...	167.62	\$2,394.44
		<hr/>
Total as per item No. 3 of expenses.....		\$6,297.71
		<hr/>
Balance November 30, 1917.....		\$1.27

AUDITING DEPARTMENT

Balance November 30, 1916.....	\$.30	
Appropriation.....	10,550.00	
		<hr/>
		\$10,550.30

EXPENDED

For Salary of Auditor—Frank E. Williamson.....	\$3,000.00	
Clerical service.....	6,189.22	
Adding machine—Wales.....	198.85	
Books and subscriptions.....	23.50	
Insurance on bond.....	15.00	
Membership dues.....	1.00	

Printing, stationery and supplies	632.74	
Traveling expenses	6.82	
		<u>\$10,067.13</u>
Service Transfers—Sundry Departments:		
Printing, stationery, stamps and supplies	\$420.73	
Typewriter—Underwood	50.00	\$470.73
		<u>\$470.73</u>
Total as per item No. 4 of expenses		<u>\$10,537.86</u>
Balance November 30, 1917		<u>\$12.44</u>

CITY CLERK DEPARTMENT

Balance November 30, 1916	\$163.41	
Appropriation	5,700.00	
		<u>\$5,863.41</u>

RECEIVED

For Fees for death returns unclaimed by undertakers	\$2.00	
Office fees	1,915.48	
Office fees, marriage licenses	2,272.00	
Reimbursement from County for dog officer	690.27	
		<u>\$4,879.75</u>
Service Transfers—Sundry Departments:		
Office fees	\$85.60	\$85.60
		<u>\$85.60</u>
Total as per item No. 2 of receipts		<u>\$4,965.35</u>
		<u>\$10,828.76</u>

EXPENDED

For Salary of City Clerk—W. Henry Towne	\$2,700.00
Salary of Asst. City Clerk—William H. Pratt	20.97
Salary of Asst. City Clerk—Leon M. Yatter ..	982.14
Clerical service	2,956.32
Services of canvassers—collecting and verifying birth records	549.70
Services of dog officer	628.77
Birth returns by physicians	1,145.50
Death returns by undertakers	770.00
Advertising and posting notices	14.00
Books, subscriptions, etc.	18.00
Express, freight and trucking	5.41
Insurance on bond	20.00
Membership dues	5.00
New England Telephone and Telegraph Co., rental and service	26.03
Notary public commission	7.00
Printing, stationery and supplies	414.94
Traveling expenses	11.05
	<u>\$10,273.83</u>

Service Transfers—Sundry Departments:		
Stationery, stamps and supplies . . .	\$200.17	\$200.17
Total as per item No. 5 of expenses		\$10,474.00
Balance November 30, 1917		\$354.76

CLERK OF COMMITTEES DEPARTMENT

Appropriation	\$3,940.00	
Amount transferred from liquor licenses	125.00	
		\$4,065.00

EXPENDED

For Salary of Clerk—William H. Pratt	\$2,579.03	
Clerical service	884.06	
Books and subscriptions	6.00	
Miscellaneous supplies	5.00	
New England Telephone and Telegraph Co., rental and service	7.47	
Printing, stationery and supplies	249.02	
Typewriter—Underwood	110.25	
	\$3,840.83	
Service Transfers—Sundry Departments:		
Car fares	\$5.00	
Engineers' services and materials	12.90	
Stationery, stamps and supplies	198.37	\$216.27
Total as per item No. 6 of expenses		\$4,057.10
Balance November 30, 1917		\$7.90

CITY HOSPITAL

Balance November 30, 1916	\$3,503.30	
Appropriation	145,000.00	
Appropriation from corporation tax	17,000.00	
Amount transferred from liquor licenses	15,000.00	
Amount transferred from real estate sales	2,000.00	
		\$182,503.30

RECEIVED

For Board of patients	\$97,010.29
Admission cards—Out Patient Department	679.27
Birth returns	123.75
Copies of records	186.60
Crockery and tinware	39.16
Electrical supplies	18.35
Medical and surgical supplies	579.90
Miscellaneous supplies and expenses	220.16
Nurses' uniforms	157.65
Operating room fees	2,304.14

Refuse materials and junk.....	750.45
Rent of tenement.....	143.70
Repairs buildings.....	93.57
Services nurses.....	64.84
Stationery, stamps and supplies.....	141.52
Telegrams and telephone tolls.....	148.38
Wages uncalled for.....	224.08

\$102,885.81

Service Transfers—Sundry Departments:

Board of patients.....	\$2,749.56	
Services nurses.....	630.41	
Telephone service, Nurses' Home.....	25.00	
Wasserman blood tests.....	150.00	\$3,554.97

Total as per item No. 3 of receipts..... \$106,440.78

\$288,944.08

EXPENDED

For Salary of Supt.—Charles A. Drew, M.D.....	\$4,200.00
Salary of assistant superintendents.....	3,491.39
Salary of resident physician.....	518.33
Salary of pathologist, Fred'k H. Baker, M. D.....	300.00
Pay rolls—nurses and domestics.....	58,395.70
Pay rolls—carpenters and painters.....	2,494.47
Pay rolls—engineers.....	6,556.24
Clerical service.....	4,114.23
Advertising.....	40.84
Architects' services—dormitory.....	132.60
Automobile hire.....	41.00
Automobile maintenance.....	600.00
Books, subscriptions, etc.....	54.03
Brickwork for furnace.....	800.00
Busy work, etc.—Children's Ward.....	7.49
Clothing.....	907.82
Coal.....	21,866.38
On contract boiler—C. Stewart and Son.....	4,155.00
On contract—dormitory—George W. Car Co.....	1,985.00
Extras on contract—dormitory—George W. Car Co.....	237.17
Cordage, waste and packing.....	28.31
Crockery, tinware, etc.....	2,406.83
Disinfectants.....	809.57
Dry goods, bedding, etc.....	5,533.93
Electrical supplies and repairs on electric machinery.....	846.25
Engines, steam pumps and repairs.....	995.64
Express, freight and trucking.....	532.71
Fire escapes.....	255.89
Furniture, fixtures and repairs.....	2,744.10
Gas.....	475.99
Groceries and provisions.....	85,499.68
Hardware, tools and repairs.....	451.71
Horse hire and car fares.....	8.07
Ice.....	111.71
Insurance.....	1,393.25
Insurance on bond.....	29.00

Janitorial supplies.....	1,749.59
Labor on grounds, plants, etc.....	262.09
Laboratory supplies.....	329.42
Land and buildings—Patrick B. and Mary Cummings.....	6,500.00
Land and buildings—Frank and Kate E. Joynes.....	14,600.00
Land and buildings—Charlotte A. Knowles Est.....	5,000.00
Laundry supplies and work.....	4,661.06
Legal expenses.....	5.88
Lumber.....	322.48
Machinery, belting and repairs.....	172.62
Medical and surgical supplies.....	23,562.65
Miscellaneous supplies and expenses.....	593.33
Money refunded.....	32.68
New England Telephone and Telegraph Co., rental and service.....	685.13
Oil—illuminating and gasolene.....	20.81
Oil—lubricating and grease.....	113.06
Paints and oils.....	761.51
Printing, stationery, stamps and supplies....	2,542.55
Removing ashes, rubbish and snow.....	123.00
Rental and inspection fire alarm boxes.....	129.96
Repairs, buildings.....	1,435.21
Repairs, heating apparatus.....	2,815.76
Repairs, sewer.....	180.25
Rubber goods.....	301.74
Services on annual report—Cooley and Mar- vin Co.....	176.77
Services expert engineers (heating apparatus)	288.60
Services of efficiency expert.....	150.00
Sprinkling streets.....	127.83
Traveling expenses.....	72.09
Water rates.....	2,266.78

\$282,997.18

Service Transfers—Sundry Depart-
ments:

Busy work, etc.—Children's Ward.....	\$2.00
Engineers' services.....	4.80
Exterminating moths and beetles.....	2.40
Groceries and provisions.....	3,634.81
Repairs, driveway.....	30.46
Services, deputy collector—Treas- ury Dept.....	108.00
Stationery, stamps and supplies....	18.96
Team work.....	3.00
Water connections.....	5.50

\$3,809.93

Total as per item No. 7 of expenses..... \$286,807.11

Balance November 30, 1917..... \$2,136.97

CITY HOSPITAL (Barnard Fund)

Balance November 30, 1916..... \$2.18

\$2.18

RECEIVED		
For Net income from commissioners of Barnard Hospital Fund.....	\$60.00	
Total as per item No. 4 of receipts.....		<u>\$60.00</u>
		\$62.18
EXPENDED		
For City Hospital: Board of patients.....	\$46.00	\$46.00
Total as per item No. 8 of expenses.....		<u>\$46.00</u>
Balance November 30, 1917.....		\$16.18

CITY HOSPITAL (Harriet D. Brown Fund)

Balance November 30, 1916.....	\$778.26	
		<u>\$778.26</u>
RECEIVED		
For Net income from commissioners of Harriet D. Brown Hospital Fund.....	\$381.09	
Total as per item No. 5 of receipts.....		<u>\$381.09</u>
		\$1,159.35
EXPENDED		
For City Hospital: Board of patients.....	\$836.00	\$836.00
Total as per item No. 9 of expenses.....		<u>\$836.00</u>
Balance November 30, 1917.....		\$323.35

CITY HOSPITAL (Burnside Fund)

Balance November 30, 1916.....	\$161.23	
		<u>\$161.23</u>
RECEIVED		
For Net income from commissioners of Burnside Hospital Fund.....	\$150.00	
Total as per item No. 6 of receipts.....		<u>\$150.00</u>
		\$311.23
EXPENDED		
For City Hospital: Board of patients.....	\$301.00	\$301.00
Total as per item No. 10 of expenses.....		<u>\$301.00</u>
Balance November 30, 1917.....		\$10.23

CITY HOSPITAL (Conant Fund)

Balance November 30, 1916.....	\$3.97	
		\$3.97
RECEIVED		
For Net income from commissioners of Conant Hospital Fund.....	\$60.00	
Total as per item No. 7 of receipts.....		\$60.00
		\$63.97
EXPENDED		
For City Hospital: Board of patients.....	\$19.00	\$19.00
Total as per item No. 11 of expenses.....		\$19.00
Balance November 30, 1917.....		\$44.97

CITY HOSPITAL (Curtis Fund)

Balance November 30, 1916.....	\$3.60	
		\$3.60
RECEIVED		
For Net income from commissioners of Curtis Hos- pital Fund.....	\$40.00	
Total as per item No. 8 of receipts.....		\$40.00
		\$43.60
EXPENDED		
For Books and subscriptions.....	\$39.25	
Total as per item No. 12 of expenses.....		\$39.25
Balance November 30, 1917.....		\$4.35

CITY HOSPITAL (Isaac Davis Fund)

Balance November 30, 1916.....	\$17.25	
		\$17.25
RECEIVED		
For Net income from commissioners of Isaac Davis Hospital Fund.....	\$200.00	
Total as per item No. 9 of receipts.....		\$200.00
		\$217.25

EXPENDED		
For City Hospital:		
Board of patients.....	\$141.00	<u>\$141.00</u>
Total as per item No. 13 of expenses.....		<u>\$141.00</u>
Balance November 30, 1917.....		<u>\$76.25</u>
CITY HOSPITAL (Alice Taft Farnum Fund)		
Balance November 30, 1916.....	<u>\$2.58</u>	\$2.58
RECEIVED		
For Net income from commissioners of Alice Taft Farnum Hospital Fund.....	<u>\$17.20</u>	
Total as per item No. 10 of receipts.....		<u>\$17.20</u>
Balance November 30, 1917.....		<u>\$19.78</u>
CITY HOSPITAL (Harris Fund)		
Balance November 30, 1916.....	<u>\$128.54</u>	\$128.54
RECEIVED		
For Net income from commissioners of Harris Hospital Fund.....	<u>\$250.00</u>	
Total as per item No. 11 of receipts.....		<u>\$250.00</u>
Balance November 30, 1917.....		<u>\$378.54</u>
CITY HOSPITAL (Heinsheimer Fund)		
Balance November 30, 1916.....	<u>\$1.00</u>	\$1.00
RECEIVED		
For net income from commissioners of Hein- sheimer Hospital Fund.....	<u>\$40.00</u>	
Total as per item No. 12 of receipts.....		<u>\$40.00</u>
Balance November 30, 1917.....		<u>\$41.00</u>
CITY HOSPITAL (Jaques Fund)		
RECEIVED		
For Net income from commissioners of Jaques Hospital Fund.....	<u>\$9,491.88</u>	
Total as per item No. 13 of receipts.....		<u>\$9,491.88</u>

EXPENDED

For Coal.....	\$4,865.51	
Cordage, waste and packing.....	7.65	
Dry goods, bedding, etc.....	113.70	
Groceries and provisions.....	3,625.31	
Janitorial supplies.....	49.00	
Laboratory supplies.....	12.00	
Medical and surgical supplies.....	726.25	
Printing, stationery and supplies.....	81.96	
Removing rubbish.....	9.00	
Repairs, heating apparatus.....	1.50	
	<hr/>	
Total as per item No. 14 of expenses.....		\$9,491.88

CITY HOSPITAL (McIntire Fund)

Balance November 30, 1916.....	\$10.39	
	<hr/>	\$10.39

RECEIVED

For Net income from commissioners of McIntire Hospital Fund.....	\$206.00	
	<hr/>	
Total as per item No. 14 of receipts.....		\$206.00
		<hr/>
		\$216.39

EXPENDED

For City Hospital:		
Board of patients.....	\$145.00	\$145.00
	<hr/>	
Total as per item No. 15 of expenses.....		\$145.00
		<hr/>
Balance November 30, 1917.....		\$71.39

CITY HOSPITAL (Partridge Fund)

Balance November 30, 1916.....	\$18.89	
	<hr/>	\$18.89

RECEIVED

For Net income from commissioners of Partridge Hospital Fund.....	\$60.00	
	<hr/>	
Total as per item No. 15 of receipts.....		\$60.00
		<hr/>
		\$78.89

EXPENDED

For City Hospital:		
Board of patients.....	\$21.00	\$21.00
	<hr/>	
Total as per item No. 16 of expenses.....		\$21.00
		<hr/>
Balance November 30, 1917.....		\$57.89

CITY HOSPITAL (Rice Fund)

Balance November 30, 1916.....		<u>\$199.16</u>	
			\$199.16
	RECEIVED		
For Net income from commissioners of Rice Hospital Fund.....		<u>\$250.00</u>	
Total as per item No. 16 of receipts.....			<u>\$250.00</u>
			<u>\$449.16</u>
	EXPENDED		
For City Hospital: Board of patients.....	<u>\$301.00</u>	<u>\$301.00</u>	
Total as per item No. 17 of expenses.....			<u>\$301.00</u>
Balance November 30, 1917.....			<u>\$148.16</u>

CITY HOSPITAL (Salisbury Fund)

Balance November 30, 1916.....		<u>\$23.65</u>	
			\$23.65
	RECEIVED		
For Net income from commissioners of Salisbury Hospital Fund.....		<u>\$220.00</u>	
Total as per item No. 17 of receipts.....			<u>\$220.00</u>
			<u>\$243.65</u>
	EXPENDED		
For City Hospital: Board of patients.....	<u>\$131.00</u>	<u>\$131.00</u>	
Total as per item No. 18 of expenses.....			<u>\$131.00</u>
Balance November 30, 1917.....			<u>\$112.65</u>

CITY HOSPITAL (Sargent Fund)

Balance November 30, 1916.....		<u>\$1.53</u>	
			\$1.53
	RECEIVED		
For Net income from commissioners of Sargent Hospital Fund.....		<u>\$20.00</u>	
Total as per item No. 18 of receipts.....			<u>\$20.00</u>
			<u>\$21.53</u>
	EXPENDED		
For Books and subscriptions.....	<u>\$21.50</u>	<u>\$21.50</u>	
Total as per item No. 19 of expenses.....			<u>\$21.50</u>
Balance November 30, 1917.....			<u>\$.08</u>

CITY HOSPITAL (Shaw Fund)

RECEIVED

For Net income from commissioners of Shaw Hospital Fund.....	\$80.00	
Total as per item No. 19 of receipts.....		\$80.00

EXPENDED

For Miscellaneous supplies and expenses.....	\$38.00	
Printing, stationery and supplies.....	38.50	
Repairs, furniture.....	8.50	
Total as per item No. 20 of expenses.....		\$80.00

CITY HOSPITAL (Stoddard Fund)

Balance November 30, 1916.....	\$102.02	
		\$102.02

RECEIVED

For Net income from commissioners of Stoddard Hospital Fund.....	\$185.68	
Total as per item No. 20 of receipts.....		\$185.68
		\$287.70

EXPENDED

For Christmas decorations and toys.....	\$21.50	
Delicacies.....	74.34	
Victrola supplies.....	7.35	
Total as per item No. 21 of expenses.....		\$103.19
Balance November 30, 1917.....		\$184.51

CITY HOSPITAL (Tenney Fund)

RECEIVED

For Net income from commissioners of Tenney Hospital Fund.....	\$200.00	
Total as per item No. 21 of receipts.....		\$200.00

EXPENDED

For Disinfectants.....	\$31.50	
Laboratory supplies.....	33.00	
Medical and surgical supplies.....	123.00	
Miscellaneous expenses.....	.50	
Stationery.....	12.00	
Total as per item No. 22 of expenses.....		\$200.00

CITY HOSPITAL (Thayer Fund)

RECEIVED	
For Net income from commissioners of Thayer Hospital Fund.....	\$957.90
Total as per item No. 22 of receipts.....	\$957.90
EXPENDED	
For Groceries and provisions.....	\$900.45
Medical and surgical supplies.....	17.70
Printing, stationery and supplies.....	39.75
Total as per item No. 23 of expenses.....	\$957.90

CITY HOSPITAL (Thayer Nurses' Home Fund)

Balance November 30, 1916.....	\$720.18	\$720.18
RECEIVED		
For Net income from commissioners of Thayer Nurses' Home Hospital Fund.....	\$490.00	
Total as per item No. 23 of receipts.....	\$490.00	\$490.00
		\$1,210.18
EXPENDED		
For Books and subscriptions.....	\$81.75	
Decorations, flowers, etc.....	24.50	
Delicacies.....	94.60	
Dishes, etc.....	1.05	
Miscellaneous supplies.....	.70	
Printing and stationery.....	30.00	
Services, orchestra.....	75.00	
Tennis nets and tapes.....	8.50	
	\$266.10	
City Hospital: Telephone service.....	\$25.00	\$25.00
Total as per item No. 24 of expenses.....		\$291.10
Balance November 30, 1917.....		\$919.08

CITY HOSPITAL (Walker Fund)

Balance November 30, 1916.....	\$4.98	\$4.98
RECEIVED		
For Net income from commissioners of Walker Hospital Fund.....	\$40.00	
Total as per item No. 24 of receipts.....		\$40.00
Balance November 30, 1917.....		\$44.98

CITY HOSPITAL (Wilson Fund)

Balance November 30, 1916.....	\$69.61	
		\$69.61
RECEIVED		
For Net income from commissioners of Wilson Hospital Fund.....	\$260.00	
Total as per item No. 25 of receipts.....		\$260.00
		\$329.61
EXPENDED		
For City Hospital: Board of patients.....	\$172.00	\$172.00
Total as per item No. 25 of expenses.....		\$172.00
Balance November 30, 1917.....		\$157.61

CITY HOSPITAL (Wolfe Fund)

RECEIVED		
For Net income from commissioners of Wolfe Hospital Fund.....	\$144.28	
Total as per item No. 26 of receipts.....		\$144.28
EXPENDED		
For Clothing.....	\$9.00	
Groceries and provisions.....	2.53	
Janitorial supplies.....	1.50	
Medical and surgical supplies.....	4.50	
Printing, stationery and supplies.....	126.75	
Total as per item No. 26 of expenses.....		\$144.28

CITY HOSPITAL (Children's Ward)

Balance November 30, 1916.....	\$3,084.73	
Balance November 30, 1917.....		\$3,084.73

CITY HOSPITAL (New Public Ward)

Appropriation from loan.....	\$47,000.00	
Balance November 30, 1917.....		\$47,000.00

CITY MESSENGER DEPARTMENT

Balance November 30, 1916.....	\$698.20	
Appropriation.....	19,000.00	
Amount transferred from liquor licenses.....	1,500.00	
Amount transferred from real estate sales.....	200.00	
		\$21,398.20

RECEIVED		
For Electrical supplies		\$5.10
Refuse materials		92.02
		\$97.12
Service Transfers—Sundry Depart- ments:		
Carfares	\$9,890.50	
Disinfectants	4.00	
Furniture	20.00	
Hardware and tools	13.87	
Janitorial supplies	4.43	
Miscellaneous supplies .....	.25	
Stationery, stamps, postals and supplies	7,013.77	\$16,946.82
Total as per item No. 27 of receipts ..		\$17,043.94
		\$38,442.14

EXPENDED		
For Salary of City Messenger—Edwin M. C. French	\$1,800.00	
Clerical service	200.72	
Automobile hire	26.50	
Books and subscriptions	6.00	
Car checks	9,652.00	
Disinfectants	9.00	
Express, freight and trucking	2.95	
Flag for Common	105.00	
Hardware	16.27	
Postals	1,130.00	
Printing, stationery and supplies	1,492.83	
Repairs flagstaff, Stearns Square	21.00	
Stamps and stamped envelopes	4,258.41	
		\$18,720.68
Service Transfers—Sundry Depart- ments:		
Clerical service	\$22.39	
Car fares	4.00	
Stationery, stamps and supplies ..	25.86	\$52.25
For City Hall Maintenance:		
Pay rolls—janitors	\$10,658.04	
Coal	2,767.71	
Cordage, waste and packing	13.15	
Damage to typewriter	21.00	
Disinfectants	6.77	
Electric light	884.64	
Electric power	108.77	
Electrical repairs	296.26	
Express, freight and trucking	20.43	
Flags, flagstuffs and repairs	163.79	
Furniture, fixtures and repairs ..	1,167.63	
Gas	172.70	
Hardware, tools and repairs	34.18	
Ice	165.87	
Janitorial supplies	720.20	
Laundry work	106.39	

Miscellaneous supplies and expenses	.25
New England Telephone and Telegraph Co., rental and service	6.10
Oil—illuminating	5.00
Oil—lubricating and grease	3.25
Removing ashes	100.11
Repairs, building	2.00
Repairs, heating apparatus	6.21
Sprinkling streets	71.50
Water rates	234.79
Water rates, elevator	1,023.84

\$18,760.53

Service Transfers—Sundry Departments:

Electrical supplies	\$15.05
Elevator operators' licenses	6.00
Flag standards for council chambers	75.33
Furniture, fixtures and repairs	58.88
Hose and couplings	.92
Labor on grounds and driveway, shrubs, etc.	67.62
Removing snow	649.01
Special police badges	.50

\$873.31

Total as per item No. 27 of expenses..

\$38,406.77

Balance November 30, 1917.....

\$35.37

COLLECTOR'S SALES, SURPLUS ACCOUNT

Balance November 30, 1916..... \$259.02

Balance November 30, 1917.....

\$259.02

ENGINEERING DEPARTMENT

Balance November 30, 1916..... \$201.26

Appropriation..... 10,000.00

\$10,201.26

RECEIVED

For Engineering on drains	\$321.50
Engineers' services	201.22
Car fares	30.55
Engineers' materials	17.61
Refund, over payment automobile registration	6.00
Refuse materials	6.25

\$583.13

Service Transfers—Sundry Departments:

Engineers' services	\$22,996.90
Automobile hire	1,389.00
Car fares	261.45
Engineers' materials	155.44

Express.....	2.07	
Telephone tolls.....	1.80	\$24,806.16
Total as per item No. 28 of receipts.....		\$25,889.29
		\$35,590.55

EXPENDED

For Salary of City Engineer—Frederick A. McClure	\$4,000.00	
Salaries of other engineers.....	27,832.48	
Clerical service.....	1,219.81	
Automobile insurance.....	169.40	
Automobile license and registration.....	54.00	
Automobile repairs.....	572.21	
Automobile supplies.....	310.62	
Books, subscriptions, etc.....	21.00	
Engineers' instruments, materials and repairs.....	286.79	
Express, freight and trucking.....	5.66	
Miscellaneous supplies and expenses.....	3.17	
New England Telephone and Telegraph Co., rental and service.....	14.25	
Printing, stationery and supplies.....	153.00	
Rent of garage.....	352.50	
	\$34,994.89	
Service Transfers—Sundry Departments:		
Car fares.....	\$250.00	
Stationery, stamps and supplies....	31.88	\$281.88
Total as per item No. 28 of expenses.....		\$35,276.77
Balance November 30, 1917.....		\$313.78

FIRE DEPARTMENT (Pay Rolls)

Balance November 30, 1916.....	\$677.16	
Appropriation.....	250,000.00	
Amount transferred from liquor licenses.....	10,350.00	
	\$261,027.16	
RECEIVED		
For Fines.....	\$245.00	
Labor.....	35.05	
Services, firemen.....	107.00	
	\$387.05	
For Service Transfers—Sundry Departments:		
Care of police signals.....	\$121.20	\$121.20
Total as per item No. 29 of receipts.....		\$508.25
		\$261,535.41

EXPENDED

For Salary of Chief Engineer—W. N. Avery.....	\$2,800.00
Salary of Deputy Chief Engineer—E. L. Janes	2,100.00
Salary of District Chief Engineer—J. F. Adams	1,800.00
Salary of District Chief Engineer—C. L. Mc- Carthy.....	1,800.00

Salary of District Chief Engineer—W. B. Spooner.....	1,800.00
Salary of Surgeon—George H. Hill, M. D.....	500.00
Pay rolls—permanent men.....	233,600.57
Pay rolls—call men, Engine Co. No. 4.....	526.00
Pay rolls—“ Engine Co. No. 5.....	513.49
Pay rolls—“ Engine Co. No. 6.....	275.00
Pay rolls—“ Engine Co. No. 7.....	27.35
Pay rolls—“ Hose Co. No. 1.....	200.00
Pay rolls—“ Hose Co. No. 3.....	64.50
Pay rolls—“ Hose Co. No. 6.....	275.00
Pay rolls—“ Hose Co. No. 8.....	825.00
Pay rolls—“ Hose Co. No. 9.....	269.82
Pay rolls—“ Ladder Co. No. 1.....	801.67
Pay rolls—“ Ladder Co. No. 2.....	938.69
Pay rolls—“ Ladder Co. No. 4.....	275.00
Back pay for time lost on account of injury...	1,601.54
Back pay for time lost on account of sickness..	601.00

\$251,594.63

For Fire Alarm Telegraph:

Salary of Superintendent—William H. McClure.....	\$1,700.00
Salary of Asst. Superintendent—John C. McDonald.....	1,381.72
Pay rolls—operators.....	5,018.66
Pay rolls, linemen.....	1,079.25
Pay rolls, laborers.....	204.55

\$9,384.18

Total as per item No. 29 of expenses..... **\$260,978.81**

Balance November 30, 1917..... **\$556.60**

FIRE DEPARTMENT (Automobile Maintenance)

Balance November 30, 1916.....	\$287.56
Appropriation.....	3,000.00

\$3,287.56

RECEIVED

For Automobile repairs.....	\$7.00
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Total as per item No. 30 of receipts..... **\$7.00**

\$3,294.56

EXPENDED

For Automobile repairs.....	\$1,551.74
Automobile supplies.....	1,290.19
Express, freight and postage.....	4.22
Telephone tolls.....	1.25
Traveling expenses.....	6.76

Total as per item No. 30 of expenses..... **\$2,854.16**

Balance November 30, 1917..... **\$440.40**

FIRE DEPARTMENT (Fire Alarm, New Building)

Balance November 30, 1916.....	<u>\$4,302.72</u>	
		\$4,302.72
EXPENDED		
For Architects' services—L. W. Briggs Co.....	<u>\$300.00</u>	
Total as per item No. 31 of expenses.....		<u>\$300.00</u>
Balance November 30, 1917.....		<u>\$4,002.72</u>

FIRE DEPARTMENT (Fire Alarm Telegraph)

Balance November 30, 1916.....	<u>\$228.09</u>	
Appropriation.....	<u>2,500.00</u>	
		\$2,728.09
RECEIVED		
For Refuse materials and junk.....	<u>\$29.27</u>	
Repairs, posts.....	<u>39.66</u>	
Total as per item No. 31 of receipts.....		<u>\$68.93</u>
		\$2,797.02
EXPENDED		
For Automobile hire.....	\$ 50	
Badges and repairs.....	6.00	
Batteries.....	11.06	
Blankets, harness and repairs.....	5.45	
Boxes, indicators and posts.....	376.48	
Castings and patterns.....	3.60	
Electric power.....	50.55	
Electrical repairs.....	121.30	
Express, freight and trucking.....	23.61	
Gas.....	173.17	
Gasolene.....	1.13	
Glass.....	18.42	
Gongs, whistle valves and repairs.....	30.69	
Hardware, tools and repairs.....	38.37	
Horse hire and car fares.....	49.10	
Lumber.....	.25	
Medical attendants on horses.....	2.00	
Miscellaneous supplies and expenses.....	1.84	
New England Telephone and Telegraph Co., rental and service.....	86.91	
Paints and oils.....	2.71	
Pipe fittings and wire.....	798.38	
Printing, stationery and supplies.....	10.40	
Register paper, ink and pens.....	55.06	
Rent of clock for time signals.....	18.75	
Repairs—boxes, indicators and posts.....	104.86	
Underground wires.....	381.08	
		<u>\$2,371.67</u>

Service Transfers—Sundry Departments:

Care of signal lights.....	\$147.79	
Extra labor and materials.....	7.80	
Extra labor and materials underground wires.....	6.96	
Repairs—Streets.....	230.46	\$393.01

Total as per item No. 32 of expenses..... \$2,764.68

Balance November 30, 1917..... \$32.84

FIRE DEPARTMENT (Fuel)

Balance November 30, 1916.....	\$19.55	
Appropriation.....	4,500.00	

\$4,519.55

EXPENDED

For Coal.....	\$4,491.50	
Wood.....	18.26	

Total as per item No. 33 of expenses..... \$4,509.76

Balance November 30, 1917..... \$9.79

FIRE DEPARTMENT (Horses, Hay and Grain)

Appropriation.....	\$2,000.00	
Appropriation from unappropriated balances.....	4,318.12	

\$6,318.12

RECEIVED

For Horses.....	\$405.00	
Manure.....	191.88	

Total as per item No. 32 of receipts..... \$596.88

\$6,914.45

EXPENDED

For Bran.....	\$112.20	
Hay.....	3,938.76	
Horse hire on account of snow.....	24.00	
Oats.....	2,501.19	
Straw.....	248.03	

Total as per item No. 34 of expenses..... \$6,824.18

Balance November 30, 1917..... \$90.27

Fire Department (Hose, Fittings and Apparatus Repairs)

Appropriation.....	\$1,000.00	
Appropriation from unappropriated balances.....	1,310.54	

\$2,310.54

RECEIVED

For Hose and couplings.....	\$78.07	
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\$78.07

Service Transfers—Sundry Departments:		
Hose and couplings.....	\$21.40	\$21.40
Total as per item No. 33 of receipts.....		\$99.47
		<u>\$2,410.01</u>
EXPENDED		
For Express, freight and trucking.....		\$ 25
Hardware, tools and repairs.....		1.29
Hose and couplings.....		1,278.70
Iron and steel.....		.80
Packing and belting.....		3.06
Paints and oils.....		17.70
Repairs—apparatus.....		179.97
Total as per item No. 35 of expenses.....		\$1,481.77
Balance November 30, 1917.....		<u>\$928.24</u>

FIRE DEPARTMENT (New Apparatus Account)

Balance November 30, 1916.....	\$622.67	
Appropriation.....	10,400.00	
		\$11,022.67
RECEIVED		
For Fire engine.....	\$1,000.00	
Locomobile.....	75.00	
Total as per item No. 34 of receipts.....		\$1,075.00
		<u>\$12,097.67</u>
EXPENDED		
For Express.....	\$1.17	
La France combination pumping engine.....	9,000.00	
Netco Chassis.....	2,400.00	
Remodeling apparatus.....	538.87	
Smoke filter.....	40.43	
Total as per item No. 36 of expenses.....		\$11,980.47
Balance November 30, 1917.....		<u>\$117.20</u>

FIRE DEPARTMENT (Miscellaneous)

Balance November 30, 1916.....	\$874.75	
Appropriation.....	9,000.00	
		\$9,874.75
RECEIVED		
For Chemical charges.....	\$12.30	
Fines for ringing in false alarms.....	5.00	
Permits for ammunition and explosives licenses.....	.50	
Permits for fireworks licenses.....	37.50	
Permits for gasoline and garage licenses.....	368.50	
Permits for petroleum licenses.....	17.50	

Refuse materials and junk.....	24.63	
Uniform buttons.....	12.28	
		<u>\$478.21</u>
Service Transfers—Sundry Departments:		
Webbing.....	\$6.38	\$6.38
Total as per item No. 35 of receipts.....		<u>\$484.59</u>
		<u>\$10,859.84</u>

EXPENDED

For automobile hire.....		\$12.00
Badges, buttons and repairs.....		42.65
Blacksmithing and clipping horses.....	1,419.93	
Blankets, harness and repairs.....		62.40
Books, subscriptions, etc.....		24.00
Cordage, waste, packing, belting, etc.....		33.15
Damage to automobiles.....		45.00
Dry goods, bedding, etc.....		404.49
Electric light.....		694.12
Electric power.....		14.20
Electrical supplies and repairs electric machinery.....		37.63
Express, freight and trucking.....		5.20
Flag.....		11.00
Furniture, fixtures and repairs.....		73.98
Gas.....		229.91
Hardware, tools and repairs.....		143.99
Ice.....		214.92
Janitorial supplies.....		221.59
Laundry work.....	1,231.00	
Machine work, castings, iron, etc.....		1.06
Medical attendance on horses.....		85.75
Miscellaneous supplies and expenses.....		6.14
Oil—illuminating.....		211.40
Oil—lubricating and grease.....		11.85
Paints, oils and supplies.....		5.19
Printing, stationery, stamps and supplies.....		157.35
Refreshments for committee and guests.....		92.00
Salt.....		13.00
Sprinkling streets.....		117.99
Stable supplies.....		226.25
Supplies for extinguishers.....		374.63
Traveling expenses.....		2.08
Water rates.....		563.99
Worcester Protective Department, for services.....		3,500.00
		<u>\$10,289.84</u>
Service Transfers—Sundry Departments:		
Exterminating moths and beetles.....	\$.80	
Stationery, stamps and supplies.....	27.24	\$28.04
Total as per item No. 37 of expenses.....		<u>\$10,317.88</u>
Balance November 30, 1917.....		<u>\$41.46</u>

GENERAL EXPENSE

Appropriation	\$30,922.77
Amount transferred from liquor licenses.....	3,300.00

\$34,222.77

RECEIVED

For Amount of 1914 taxes paid after final abatement	\$2.00
Badges for itinerant musicians, hawkers and rag gatherers from City Clerk.....	5.75
Fees for advertising from License Commissioners.....	708.00
Fees for food licenses from License Commissioners.....	1,605.00
Fees for recording from License Commissioners.....	225.00
Fees for dog licenses from City Clerk.....	2,919.60
Fees for other licenses from City Clerk.....	15,069.50
Peddlers' licenses.....	325.00
Repairs voting booth.....	3.24
	<u>\$20,868.09</u>
Service Transfers—Sundry Departments:	
Labor, election expenses.....	\$3.22
	<u>\$3.22</u>

Total as per item No. 36 of receipts .

\$20,866.31\$55,089.08

EXPENDED

For Celebrations and Entertainments:	
Band concerts.....	\$630.00
Expenses of evening band concerts.....	4.20
Expenses of Fourth of July.....	980.21
Expenses of Memorial Day, Army and Navy Union.....	63.70
Expenses of Memorial Day, G. A. R.....	705.55
Expenses of Memorial Day, Spanish War Veterans.....	250.00
Wreath for Hoar statue, Memorial Day.....	5.00
	<u>\$2,638.66</u>
Service Transfers—Sundry Departments:	
Expenses of Fourth of July.....	\$18.00
	<u>\$18.00</u>

For City Council:

Salary of Clerk of Common Council, S. Hamilton Coe.....	\$800.00
Services of page to Board of Aldermen.....	102.00
Services of page to Common Council.....	98.00
Advertising.....	208.60
Appraisers (Houghton Estate)...	100.00
Automobile hire.....	280.25
Directors and subscriptions.....	176.00

Engrossing resolutions, Arthur H. Burton.....	10.00	
Flags for council chambers.....	198.00	
Flowers, Arthur H. Burton.....	10.00	
Injury to person, Mary Gauren..	150.00	
Printing City Documents—Commonwealth Press.....	3,231.38	
Printing manuals.....	260.00	
Printing stationery and supplies.	656.55	
Refreshments.....	332.00	
Refund bowling alley license fee—Samuel Wolfson.....	12.50	
Refund, ice cream license fee—Frank W. Clark.....	5.00	
Refund junk license fee—Charles Grace.....	7.50	
Refund junk license fee—Hyman Grace.....	7.50	
Refund pawnbroker's license fee—Mrs. John T. Delaney.....	50.00	
Refund pawnbroker's license fee—Edith K. Doten, Adm'x.....	37.50	
Refund pawnbroker's license fee—Charles F. Monahan.....	20.83	
Refund taxes—Mrs. George Bourassa	2.00	
Refund taxes—Edwin E. Brown.	64.64	
Refund taxes 1914-1916 Jenny Carlson.....	38.28	
Refund taxes 1916—Annie M. Conroy.....	26.00	
Refund taxes 1916—Elgin E. Cross	4.00	
Refund taxes 1915-1916 Anastasia Daniels.....	13.10	
Refund taxes 1914—Peter Durkim	2.00	
Refund taxes 1911-1916—Caltha E. Emerson.....	67.08	
Refund taxes 1910-1915—Patrick Finneran.....	43.28	
Refund taxes—Harry Goodman..	13.00	
Refund taxes—Jerome H. Guthro.	6.00	
Refund taxes, 1916—Mrs. S. D. Hammond, Extrx.....	25.00	
Refund taxes, 1916—Albert H. Howard, Est.....	100.00	
Refund taxes, Georgiana L. Ives..	3.00	
Refund taxes, 1915-1916—Joseph E. and Philomene Jodoin.....	8.00	
Refund taxes, Jessie C. Livermore	30.00	
Refund taxes, Maynard Land Co..	4.00	
Refund taxes, 1916—Robert Northridge.....	43.56	
Refund taxes, St. Joseph's Schools.	143.00	
Refund taxes, 1916—George B. Smith Co.....	4.00	
Rent of hall for inaugural.....	50.00	
Services, expert on ordinances—A. W. French.....	74.00	
Services, stenographer.....	25.25	
Traveling expenses.....	3.00	\$7,545.80

Service Transfers—Sundry Departments:

Automobile hire.....	\$15.00	
Engineers' services and materials..	110.82	
Office fees.....	85.60	
Stationery, stamps and supplies..	85.98	\$297.40

For Civil Service Commission:

Salary of Registrar—Mary L. Connor.....	\$500.00	
Books.....	4.00	
Express.....	1.51	
New England Telephone and Telegraph Co., rental and service...	39.08	
Printing, stationery and supplies..	32.78	
Signs and posting notices.....	47.10	
Typewriter—Underwood.....	91.13	\$715.60

Service Transfers—Sundry Departments:

Stationery, stamps and supplies..	\$26.53	\$26.53
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For Draft Enrollment:

Other expenses.....	\$123.49	
Preparing ward rooms.....	142.27	
Refreshments for ward officers and clerks.....	731.80	\$997.56

Service Transfers—Sundry Departments:

Other expenses.....	\$1.99	\$1.99
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For Election and Registration:

Salary, Registrar of Voters—Edwin R. Shumway.....	\$600.00	
Salary, Registrar of Voters—Nicholas J. Skerrett.....	600.00	
Salary, Registrar of Voters—W. Henry Towne.....	600.00	
Salary, Registrar of Voters—Emil Zaeder.....	600.00	
Pay rolls, ward officers.....	8,932.00	
Clerical service.....	612.81	
Advertising.....	640.47	
Automobile hire.....	193.50	
Ballot boxes, counting boards and repairs.....	36.80	
Books.....	4.00	
Constitutional amendments—printing, mailing, etc.....	451.47	
Express, freight and trucking....	695.69	
Furniture, fixtures and repairs....	7.27	
Lunches for ward officers.....	1,246.00	
Miscellaneous supplies and expenses.....	3.75	
Posting notices and voting lists...	17.70	
Printing, stationery and supplies..	1,965.92	

Refreshments.....	24.80	
Rent, heating, lighting and care of ward rooms.....	3,070.08	
Rent of land for voting booths....	64.99	
Repairs, ward rooms and voting booths.....	1,681.64	
Type and insurance on same.....	2.70	
Voting list boxes and repairs.....	16.08	\$22,067.62
<hr/>		
Service Transfers—Sundry Depart- ments:		
Car fares.....	\$8.00	
Labor and materials for repairs... .	3.81	
Miscellaneous supplies.....	8.99	
Stationery, stamps and supplies..	65.64	\$81.44
<hr/>		
For Fence Viewers:		
Printing and stationery.....	\$8.10	\$8.10
<hr/>		
Service Transfers—Sundry Depart- ments:		
Stationery, stamps and supplies..	\$.80	\$.80
<hr/>		
For Food Conservation:		
Charts and signs.....	\$51.60	
Cooking apparatus and repairs... .	30.50	
Crockery and tinware.....	66.90	
Dry goods.....	14.05	
Dye stuff.....	1.24	
Electrical supplies.....	20.00	
Extra labor.....	15.85	
Flooring tent.....	43.58	
Furniture and fixtures.....	39.93	
Groceries and provisions.....	29.80	
Miscellaneous supplies.....	8.19	
Oil—illuminating.....	3.10	
Printing and stationery.....	507.00	
Services, demonstrators.....	377.89	
Trucking.....	23.50	\$1,233.13
<hr/>		
Service Transfers—Sundry Depart- ments:		
Repairs, furniture.....	\$4.50	\$4.50
<hr/>		
For Inspection of Animals:		
Salary, Inspector of Animals— Charles H. Perry, M. D. V.....	\$400.00	\$400.00
<hr/>		
For License Board:		
Advertising.....	\$10.50	
Automobile hire.....	7.00	
Badges and wagon, slates.....	526.15	
Express, freight and trucking.....	7.18	

Posting notices.....	7.20	
Printing, stationery and supplies..	441.43	\$999.46
<hr/>		
Service Transfers—Sundry Departments:		
Automobile hire.....	\$12.00	
Hardware.....	3.99	
Printing, stationery, stamps and supplies.....	\$129.70	
<hr/>		
For License Commission:		
Salary of License Commissioner— Elmer C. Potter, Chairman . . .	\$900.00	
Salary of License Commissioner— H. Oscar Rocheleau.....	550.00	
Salary of License Commissioner— E. Walter Smith.....	550.00	
Clerical service.....	150.00	
Advertising.....	618.00	
Automobile hire.....	21.00	
Books and subscriptions.....	4.00	
Printing, stationery and supplies..	90.75	
Refund—fees for food licenses not granted.....	35.00	\$2,918.75
<hr/>		
Service Transfers—Sundry Departments:		
Car fares.....	\$2.00	
Stationery, stamps and supplies..	14.42	\$16.42
<hr/>		
For Mayor's Office:		
Salary of Mayor George M. Wright	\$333.34	
Salary of Mayor Pehr G. Holmes..	3,666.66	
Salary, Clerk for Mayor and State Aid—Charles H. Benchley.....	1,700.00	
Salary of Clerk for Mayor—John W. Odlin.....	175.00	
Salary of Clerk for Mayor—Clinton P. Rowe.....	1,576.76	
Services, stenographers.....	948.00	
Advertising.....	20.88	
Automobile hire.....	296.75	
Books and subscriptions.....	48.15	
Express, freight and trucking.....	9.62	
Justice of peace commission for clerk.....	7.00	
Membership dues.....	29.00	
Miscellaneous supplies and ex- penses.....	5.50	
New England Telephone and Tele- graph Co., rental and service..	96.13	
Printing, stationery and supplies..	600.63	
Refreshments.....	47.00	
Report on Worcester Electric Light Co.....	9.00	
Report on Worcester Gas Light Co.....	137.80	

Reviewing stand	70.80	
Traveling expenses	492.02	\$10,269.54
<hr/>		
Service Transfers—Sundry Depart- ments:		
Engineers' services and materials .	\$3.18	
Horse hire and car fares	8.00	
Reviewing stand	127.06	
Stationery, stamps and supplies . .	193.71	\$331.95
<hr/>		
For Planning Board:		
Books	\$6.80	
Printing and stationery	24.90	
Services, stenographer	5.05	\$36.25
<hr/>		
Service Transfers—Sundry Depart- ments:		
Engineers' services and materials .	\$.34	
Stationery, stamps and supplies . .	8.52	\$8.86
<hr/>		
For Spanish War Statue:		
Removing and resetting cannon —Armory Square	\$300.00	
Statue—Andrew O'Connor, Jr., sculptor (total cost \$7,000.00) . .	4,000.00	\$4,300.00
<hr/>		
For Wire Commission:		
Advertising	\$33.25	\$33.25
<hr/>		
Service Transfers—Sundry Depart- ments:		
Engineers' services and materials .	\$7.04	7.04
<hr/>		
Total as per item No. 38 of expenses		\$55,088.35
Balance November 30, 1917		\$.73

HEALTH DEPARTMENT

Balance November 30, 1916	\$84.67
Appropriation	32,400.00
Appropriation from corporation tax	5,500.00
	<hr/>
	\$37,934.67

RECEIVED

For Aid to tubercular patient at home	\$89.91
Licenses, manicure	76.00
Licenses, swill	90.00
Licenses, tallow	21.00
Smallpox patients—board of Commonwealth.	929.44

Tuberculosis patients, groceries and provisions, Commonwealth.....	44.84	
Total as per item No. 37 of receipts.....		\$1,251.19
		\$39,185.86

EXPENDED

For Salary of Executive Officer—James C. Coffey.	\$2,400.00	
Salary of Medical Member—Edward H. Trowbridge, M. D.....	700.00	
Salary of Member of Board—George C. Hunt.....	200.00	
Clerical service.....	3,002.46	
Inspectors of animals and provisions.....	1,899.60	
Inspectors of plumbing.....	4,064.92	
General inspector.....	967.00	
Disinfector.....	990.00	
Nurse—baby hygiene.....	840.00	
Advertising.....	16.66	
Automobile—Haynes.....	650.00	
Automobile hire.....	6.00	
Automobile insurance.....	27.95	
Automobile license and registration.....	24.00	
Automobile repairs.....	409.06	
Automobile supplies.....	430.29	
Books, subscriptions, etc.....	24.00	
Clothing.....	4.80	
Disinfectants.....	261.55	
Express, freight and trucking.....	20.23	
Furniture, fixtures and repairs.....	66.80	
Hack and horse hire.....	759.25	
Hardware, tools, utensils and supplies.....	18.99	
Insurance on bond.....	6.00	
Laborers.....	1,092.50	
Legal expenses.....	4.00	
Miscellaneous supplies and expenses.....	6.54	
New England Telephone and Telegraph Co., rental and service.....	41.28	
Printing, stationery and supplies.....	345.21	
Refreshments.....	12.00	
Services—consulting physicians.....	12.00	
Signs and sign boards.....	38.40	
Traveling expenses.....	53.37	
Vaccination expenses.....	214.73	
		\$19,609.59
Service Transfers—Sundry Departments:		
Car fares.....	\$496.00	
Engineers' services.....	7.68	
Labor on dump.....	4.50	
Removing store house at dump.....	30.59	
Services nurses—vaccination expenses.....	15.90	
Services, patrolman.....	1,045.43	
Stationery, stamps and supplies..	220.10	
Wasserman blood tests.....	150.00	
		\$1,970.20

For Bacteriological Department:

Salary of Bacteriologist, Frederick H. Baker, M. D.....	\$600.00
Salary of Asst. Bacteriologist, Edward B. Bigelow, M. D.....	266.64
Salary of Asst. Bacteriologist, Ernest L. Hunt, M. D.....	140.85
Apparatus and supplies.....	183.80
Ice.....	15.11

\$1,206.40

For Bathhouses:

Services of keepers.....	\$527.00
Services of matrons.....	385.90
Disinfectants.....	2.50
Fertilizer.....	4.00
Floats and repairs.....	12.12
Furniture, fixtures and repairs...	.75
Hardware, tools and repairs.....	2.95
Insurance.....	212.00
Janitorial supplies.....	37.73
Life line.....	6.08
New England Telephone and Telegraph Co., rental.....	54.82
Repairs, buildings.....	49.57
Trucking.....	4.50
Water rates.....	18.94

\$1,318.86

Service Transfers—Sundry Departments:

Labor and materials.....	\$170.25
Water connections and repairs...	19.92

\$190.17

For Board of Patients:

City of Boston.....	\$181.57
City of Cambridge.....	16.50
City of Chelsea.....	47.29
City of Lowell.....	6.00
City of Northampton.....	89.50
Town of Brookline.....	18.00

\$358.86

For Tuberculosis:

Board of patients—City of Cambridge.....	\$136.50
Board of patients—City of Fitchburg.....	209.15
Board of patients—City of Holyoke.....	14.80
Board of patients—Consumptives Hospital Dept., Mattapan.....	85.50
Board of patients—Lakeville State Sanitarium.....	325.15
Board of patients—North Reading State Sanitarium.....	384.56
Board of patients—Rutland State Sanitarium.....	2,458.02

Board of Patients—State Board of charity	58.69
Board of patients—Westfield State Sanitarium	963.42
Groceries and provisions	856.51
Services, nurse	840.00
Traveling expenses	2.92

\$6,335.22

For Incinerator:

Electric light	\$2.04
Electrical repairs	3.64
Furniture	4.75
Oil—illuminating	1.35
Removing ashes and rubbish	52.66
Repairs, building	32.42
Repairs, heater	232.44
Water rates	5.13

\$334.43

Service Transfers—Sundry Departments:

Labor and materials	\$10.34
Services, caretaker	973.16
Water connections	2.04

\$985.54

For Smallpox Hospital:

Services, housekeepers	\$654.00
Services, janitor	482.50
Services, nurses	1,425.00
Advertising .....	.75
Bedding	187.80
Cleaning cesspool	85.00
Crockery and tinware	41.86
Freight	1.42
Fuel	130.37
Furniture, fixtures and repairs	214.98
Groceries and provisions	780.10
Hardware and tools	4.67
Janitorial supplies	53.22
Medical supplies	167.97
Miscellaneous supplies	9.80
New England Telephone and Telegraph Co., rental	58.42
Repairs building	13.89
Services physicians	1,358.00
Transportation of patients	20.00

\$5,689.75

Service Transfers—Sundry Departments:

Building fence	\$62.22
Groceries and provisions	174.71
Ice	18.94
Paper towels	1.62

Stationery and supplies	20	
Water connections	25.10	\$282.79
Total as per item No. 39 of expenses..		\$3,281.81
Balance November 30, 1917		\$904.05

HEALTH DEPARTMENT (Belmont Hospital)

Balance November 30, 1916	\$122.50	
Appropriation	48,000.00	
Appropriation from corporation tax	6,000.00	
Amount transferred from real estate sales	534.00	
		\$54,656.50

RECEIVED

For Board of patients	\$7,719.87	
Board of tuberculosis patients	2,167.76	
Board of tuberculosis patients, subsidy Commonwealth	12,877.64	
Bones, tallow, scraps, etc.	313.08	
Wages uncalled for	3.20	
		\$23,081.55
Service Transfers—Sundry Departments:		
Standing grass	\$40.00	\$40.00
Total as per item No. 38 of receipts		\$23,121.55
		\$77,778.05

EXPENDED

For Salary of Superintendent—M. Salona Holmes, M. D.	\$1,800.00
Salary of Resident Physician—Edna Easter, M. D.	753.30
Salary of Consulting Physician—Albert C. Getchell, M. D.	965.01
Salary of Pathologist—Frederick H. Baker, M. D.	100.00
Services, nurses and domestics	21,232.42
Services, engineers	3,358.56
Services, laborers	3,533.25
Ambulance service and repairs	1,360.25
Automobile hire	6.00
Books, subscriptions, etc.	14.00
Coal	10,149.40
Cordage, waste and packing	44.59
Crockery, tinware, etc.	353.83
Disinfectants	33.28
Dry goods, bedding and clothing	832.66
Electric light and power	572.86
Electrical repairs	280.74
Express, freight and trucking	6.89
Fire extinguishers	18.00
Flags, flagstaffs and repairs	12.50
Furniture, fixtures and repairs	190.07
Gas	557.59
Groceries and provisions	18,389.04

Hardware, tools and repairs	52.12	
Ice	1,055.21	
Insurance	896.86	
Janitorial supplies	867.74	
Laundry supplies	542.01	
Machinery, pump, belting and repairs	228.90	
Medical and surgical supplies	1,196.51	
Miscellaneous supplies and expenses	129.51	
New England Telephone and Telegraph Co., rental and service	215.72	
Oil—illuminating and gasolene	27.37	
Oil—lubricating and grease	2.30	
Paints and oils	170.28	
Printing, stationery and supplies	164.00	
Removing ashes and rubbish	312.00	
Repairs building and heating apparatus—Old Ward	1,148.24	
Repairs, buildings	859.62	
Repairs, heating apparatus	449.46	
Rubber goods	1.34	
Sprinkling streets	29.56	
Water rates	553.64	
		\$72,971.63
Service Transfers—Sundry Depart- ments:		
Car fares	\$29.00	
Engineers' services	2.82	
Exterminating moths and beetles	16.00	
Groceries and provisions	4,032.99	
Printing, stationery, stamps and supplies	94.61	
Repairs, scales	33	
Services nurses from City Hospital	614.51	
Setting monuments	8.25	
Water connections	5.61	
		\$4,804.12
Total as per item No. 40 of expenses..		\$77,775.75
Balance November 30, 1917		\$2.30

HEALTH DEPARTMENT (Medical Inspection of Public Schools)

Balance November 30, 1916	\$176.07	
Appropriation	4,500.00	
		\$4,676.07
EXPENDED		
For Pay rolls, physicians	\$3,708.34	
Services of nurse	807.50	
Medical and surgical supplies	47.50	
Printing and stationery	53.00	
		\$4,616.34

Service Transfers—Sundry Departments:		
Car fares	\$40.00	\$40.00
Total as per item No. 41 of expenses.		\$4,656.34
Balance November 30, 1917.		\$19.73

HEALTH DEPARTMENT (Milk Inspection)

Balance November 30, 1916	\$41.69	
Appropriation	2,000.00	
Amount transferred from liquor licenses	100.00	
		\$2,141.69

RECEIVED

For Analysis of milk	\$35.91	
Analysis of vinegar	1.00	
Licenses, milk	459.00	
Licenses, oleo	22.50	
Total as per item No. 39 of receipts.		\$518.41
		\$2,660.10

EXPENDED

For Salary Inspector of Milk—Gustaf L. Berg . . .	\$1,500.00	
Clerical service	69.00	
Advertising	18.00	
Automobile maintenance	500.00	
Books	6.56	
Express, freight and trucking	1.74	
Ice	47.21	
Laboratory apparatus and supplies	108.28	
Printing, stationery and supplies	86.23	
Samples for analysis	14.45	
Services chemist	144.00	
Telephone tolls	2.85	
Traveling expenses	85.21	
	\$2,583.03	
Service Transfers—Sundry Departments:		
Car checks	\$10.00	
Stationery, stamps and supplies	39.00	\$49.00
Total as per item No. 42 of expenses.		\$2,632.03
Balance November 30, 1917.		\$28.07

HOME DEFENSE

Amount transferred from liquor licenses	\$10,000.00	
		\$10,000.00

EXPENDED		
For Advertising		\$49.40
Ammunition		104.10
Buttons—Home Defense League		179.10
Carbic flare lights		840.00
Freight and trucking		23.90
Miscellaneous supplies		25
Posters, street banners and lantern slides		184.25
Printing, stationery, stamps and supplies		497.02
Refreshments for watchmen		108.00
Revolvers, billies, etc.		197.72
Services chauffeurs		191.50
Special police badges		739.39
Stretchers		20.50
		\$3,085.13
Service Transfers—Sundry Depart- ments:		
Carbic flare lights	\$965.74	
Furniture	132.34	
Labor and trucking	485.00	
Miscellaneous supplies	50.87	
Oil—illuminating	28.66	
Refreshments for watchmen	98.49	
Telephone tolls .....	.85	
		\$1,756.95
Total as per item No. 43 of expenses..		\$4,842.08
Balance November 30, 1917		\$5,157.92

HOPE CEMETERY

Balance November 30, 1916		\$12,742.13
		\$12,742.13
RECEIVED		
For Care of lots		\$2,558.25
Digging graves, grading, etc.		7,117.35
Dividends on general account		100.00
Dividends on perpetual care account		4,152.88
Hay		140.28
Interest on bonds—perpetual care account ..		3,952.50
Labor and team work		636.38
Memorial gateway (Mary H. Nixon legacy)		4,500.00
Miscellaneous		96.09
Pork		202.97
Refund express bill .....		.75
Rent of tenement and barn		300.00
Sale of lots		12,852.00
Telephone tolls		3.50
Wood		39.10
		\$36,152.05
Service Transfers—Sundry Depart- ments:		
Care of graves (Chap. 122 Acts of 1914)	\$215.00	

Fertilizer.....	1.50	<u>\$216.50</u>	
Total as per item No. 40 of receipts .			<u>\$36,368.55</u>
			<u>\$49,110.68</u>

EXPENDED

For Salary of Superintendent—Frederick A. Barnes	\$1,800.00
Pay rolls, laborers.....	19,147.66
Clerical service.....	746.00
Automobile hire	22.50
Blacksmithing and clipping horses.....	154.58
Blankets, harness and repairs.....	112.85
Books and subscriptions	6.00
Carts, wagons and repairs.....	97.97
Cement numbers.....	28.20
Coal.....	259.19
Curbing, posts and steps.....	25.00
Electric light and power.....	19.68
Electrical repairs.....	44.64
Express, freight and trucking.....	4.13
Extra labor	26.53
Furniture, fixtures and repairs	16.01
Hardware, tools and repairs.....	453.65
Hay, grain and straw.....	735.53
Horse hire and car fares .....	.80
Horses.....	375.00
Hose and couplings.....	42.00
Ice.....	8.19
Insecticide, etc.....	30.75
Insurance.....	7.50
Interest on investments.....	78.24
Lots.....	533.00
Lumber.....	57.23
Manure, fertilizer and loam.....	490.48
Medical attendance on horses and swine	19.55
Miscellaneous supplies and expenses.....	15.11
New England Telephone and Telegraph Co., rental and service.....	12.71
Oil—lubricating and grease.....	5.70
Paints and oils.....	113.80
Printing, stationery, stamps and supplies.....	111.81
Rent of barn, Worcester Rendering Co.....	57.00
Rent of safe deposit box.....	4.00
Repairs, buildings.....	638.65
Sand and cobblestone.....	29.50
Services, physician	13.00
Sewer pipe, cement, lime and brick.....	527.37
Sprinkling streets.....	119.65
Swine	30.00
Traveling expenses	1.50
Trees, plants, seeds, etc.....	869.55
Vault covers, etc., and freight on same.....	26.40
Water rates.....	98.00
	<u>\$28,016.61</u>
Service Transfers—Sundry Depart- ments:	
Engineers' services.....	\$54.86

Exterminating moths.....	5.60	
Stationery and supplies.....	2.73	\$63.19
		<hr/>
Total as per item No. 44 of expenses.....		\$28,079.80
		<hr/>
Balance November 30, 1917.....		\$21,030.88

INCIDENTAL EXPENSES (New Rifle Range Account)

Balance November 30, 1916.....	\$1.07	
Appropriation.....	100.00	
		<hr/>
		\$101.07
EXPENDED		
For Services, draftsman.....	\$50.00	
		<hr/>
		\$50.00
Service Transfers—Sundry Departments:		
Engineers' services and materials	\$3.70	\$3.70
		<hr/>
Total as per item No. 45 of expenses.....		\$53.70
		<hr/>
Balance November 30, 1917.....		\$47.37

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT

Balance November 30, 1916.....	\$916.98	
Appropriation.....	23,500.00	
Amount transferred from liquor licenses.....	2,741.75	
		<hr/>
		\$27,158.73
RECEIVED		
For Automobile hire.....	\$1.50	
Automobile repairs.....	4.35	
Blank contracts with bond.....	.75	
Car fares.....	1.15	
Coal.....	3.75	
Elevator operators' licenses.....	219.50	
Engineers' services.....	24.12	
Refund automobile registration.....	2.50	
Rent of Central District Court rooms from County.....	1,500.00	
Towels used at Convenience Station.....	77.40	
		<hr/>
		\$1,835.02
Service Transfers—Sundry Departments:		
Elevator operators' licenses.....	\$6.00	
Furniture and repairs.....	23.03	
Janitorial supplies.....	25.30	
Labor.....	5.82	

Plumbing supplies.....	1.49	
Stationery and supplies.....	7.50	\$68.64
Total as per item No. 41 of receipts		\$1,908.66
		\$29,062.39

EXPENDED

For Salary of Superintendent—George C. Halcott		\$2,600.00
Salary of Asst. Superintendent—George W. Sherman.....		1,800.00
Salary of Asst. Inspector of Elevators—John A. Dean.....		1,400.00
Salary of General Inspector—George B. Chadsey.....		1,191.63
Salary of General Inspector—Frederick E. Dudley.....		1,300.00
Salary of General Inspector—Edward T. McCann.....		1,300.00
Clerical service.....		2,000.00
Architects' services.....		188.05
Automobile—Velie.....		850.00
Automobile hire.....		784.91
Automobile insurance.....		29.76
Automobile license and registration.....		18.00
Automobile repairs.....		126.20
Automobile supplies.....		213.79
Books and subscriptions.....		32.00
Care of church and tower clocks.....		170.88
Electrical supplies and repairs.....		16.84
Flags, flagstuffs and repairs.....		2.80
Hardware, tools and repairs.....		42.27
Justice of Peace Commission.....		14.00
Membership dues.....		5.00
Miscellaneous supplies and expenses.....		19.90
New England Telephone and Telegraph Co. rental and service.....		42.90
Photographs and frames.....		41.37
Printing, stationery and supplies.....		734.47
Refreshments.....		80.00
Services, expert engineers.....		195.00
Services, stenographer.....		30.00
Traveling expenses.....		80.21
		\$15,309.93
Service Transfers—Sundry Departments:		
Automobile supplies.....	\$4.95	
Car fares.....	295.00	
Engineers' services and materials.....	130.32	
Printing, stationery, stamps and supplies.....	184.77	
Rent of garage.....	110.00	
		\$725.04
For Central District Court:		
Gas.....	\$4.45	
Repairs—building, furniture and fixtures.....	\$78.82	\$83.27

Service Transfers—Sundry Departments:		
Heating Police Dept.	\$500.00	
Repairs—buildings, furniture and fixtures . . . . .	.27	\$500.27

For City Hall Maintenance:

Architects' services	\$136.00	
Electrical repairs	137.46	
Express, freight and trucking	13.82	
Hardware, tools and repairs	72.51	
Repairs, building	3,241.18	
Repairs, elevators	100.70	
Repairs, heating apparatus	398.69	
Services, physicians	9.00	\$4,108.86

Service Transfers—Sundry Departments:		
Engineers' services and materials	\$1.78	
Labor and materials for repairs	93.40	
Water connections	21.41	\$116.59

For City Scales:

Blank books	\$15.00	
Express, freight and trucking	16.33	
Rent of land corner Franklin and Harding Sts., Callahan Bros.	125.00	
Repairs	820.49	
Water rates	4.00	\$980.82

Service Transfers—Sundry Departments:		
Labor and materials for repairs	\$27.66	\$27.66

For Convenience Station Maintenance:

Pay rolls—caretakers	\$2,900.30	
Pay rolls—labor on repairs	225.86	
Coal	144.78	
Electric light	100.60	
Electrical repairs	9.95	
Express, freight and trucking	5.50	
Hardware, tools and repairs	5.15	
Janitorial supplies	504.34	
Plumbing and plumbing supplies	6.48	
Removing ashes	10.50	
Repairs, building	233.88	
Repairs, heating apparatus	416.49	
Water rates	367.07	\$4,930.40

Service Transfers—Sundry Departments:		
Furniture	\$2.50	
Janitorial supplies	17.80	
Labor and materials for repairs . . . . .	.54	
Plumbing supplies	1.65	\$22.49

For Rifle Range Maintenance:

Pay rolls—caretaker	\$772.12	
Pay rolls—labor on repairs	104.31	
Coal	144.15	
Electric light	6.00	
Electrical repairs	116.62	

Express, freight and trucking	8.70	
Exterminating moths	1.85	
Flags, flagstuffs and repairs	80.25	
Hardware, tools and repairs	41.73	
Janitorial supplies	2.35	
Labor on grounds	43.00	
Lumber	35.01	
Miscellaneous supplies	14.65	
New England Telephone and Tele- graph Co.—rental	52.02	
Paints and oils	26.11	
Printing and stationery	14.50	
Repairs, buildings	89.51	
Repairs, engine and pumps	14.65	
Repairs, heating apparatus	42.99	
Target supplies	71.89	\$1,682.41
Service Transfers—Sundry Depart- ments:		
Exterminating moths	\$1.25	
Flag	4.60	
Janitorial supplies	13.74	
Labor and materials for repairs . .	2.48	\$22.07
For Workshop Maintenance:		
Pay rolls—carpenters	\$3.94	
Express and trucking	11.50	
Insurance	20.00	
Repairs, boilers	25.14	
Repairs, buildings	7.84	\$68.42
Total as per item No. 46 of expenses..		\$28,578.23
Balance November 30, 1917		\$484.16

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT
(Hospitals for Communicable Diseases)

Balance November 30, 1916	\$206.85	
Appropriation from loan	47,000.00	
Amount transferred from liquor licenses	107.00	
		\$47,313.85
EXPENDED		
For Draftsman's services—proposed Putnam Ward addition	\$52.80	
		\$52.80
For New Ward for Infectious Diseases:		
Draftsman's services	\$37.88	
Plans and specifications for heat- ing system	222.00	\$259.88
Total as per item No. 47 of expenses		\$312.68
Balance November 30, 1917		\$47,000.67

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT

(Repairs and Improvements of Engine Houses)

Balance November 30, 1916.....	\$1,404.87	
Appropriation.....	4,000.00	
Appropriation from public institution tax.....	500.00	
		<u>\$5,904.87</u>
RECEIVED		
For Lumber.....	\$7.66	
Total as per item No. 42 of receipts.....		<u>\$7.66</u>
		<u>\$5,912.53</u>
EXPENDED		
For Pay rolls—labor on repairs.....	\$590.75	
Architects' services.....	175.50	
Car fares for carpenters and plumbers.....	12.00	
Cordage and packing.....	10.25	
Electrical repairs.....	1,988.56	
Express, freight and trucking.....	22.35	
Fixtures and repairs.....	36.80	
Hardware and tools.....	10.18	
Lumber.....	205.17	
Paints and oils.....	17.56	
Pipe fence.....	216.00	
Plumbing and plumbing supplies.....	94.35	
Repairs, buildings.....	940.42	
Repairs, elevators.....	437.00	
Repairs, heating apparatus.....	496.53	
		<u>\$5,253.42</u>
Service Transfers—Sundry Departments:		
Engineers' services and materials .	\$8.35	
Granolithic walks.....	114.25	
Labor and materials for repairs..	64.46	
Making and hanging doors.....	354.00	
Plumbing supplies.....	20.59	
Trucking.....	1.00	
Water connections and repairs...	8.74	
		<u>\$571.39</u>
Total as per item No. 43 of expenses.....		<u>\$5,824.81</u>
Balance November 30, 1917.....		<u>\$87.72</u>

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT

(Repairs and Improvements of Police Buildings)

Balance November 30, 1916.....	\$396.45	
Appropriation.....	800.00	
Amount transferred from liquor licenses.....	200.00	
		<u>\$1,396.45</u>

RECEIVED

Service Transfers—Sundry Departments:

Labor..... \$.85 \$.85

Total as per item No. 43 of receipts ..

\$.85

\$1,897.80

EXPENDED

For Pay rolls—labor on repairs..... \$500.81
 Architects' services..... 40.00
 Car fares for carpenters and plumbers..... 12.00
 Cordage and packing..... 1.92
 Drinking fountains..... 45.08
 Electrical repairs..... 149.95
 Express, freight and trucking..... 14.00
 Fixtures and repairs..... 6.60
 Grading and seeds..... 6.60
 Hardware and tools..... 14.51
 Lumber..... 49.06
 Plumbing and plumbing supplies..... 122.30
 Repairs, buildings..... 163.75
 Repairs, heating apparatus..... 87.32
 Services, physician..... 21.00

\$1,228.90

Service Transfers—Sundry Departments:

Engineers' services..... \$.23
 Labor and materials for repairs .. 44.92
 Plumbing supplies..... 6.01 \$51.16

Total as per item No. 49 of expenses.....

\$1,280.06

Balance November 30, 1917.....

\$117.24

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT

(Care of Schoolhouses)

Balance November 30, 1916..... \$1.92
 Appropriation..... 65,000.00
 Appropriation from public institution tax..... 1,524.84

\$66,526.76

RECEIVED

For Heat and light in buildings rented to outside parties..... \$332.95
 Janitorial supplies..... 219.09

\$552.04

Service Transfers—Sundry Departments:

Electrical supplies..... \$15.59
 Fixtures..... 3.70

Flags.....	9.80	
Janitorial supplies.....	65.04	\$94.18
Total as per item No. 44 of receipts.....		<u>\$646.17</u>

\$67,172.93

EXPENDED

For Pay rolls—caretaker, workshop.....		\$1,087.15
Analysis of coal.....		318.58
Care of clocks.....		683.33
Cleaning vaults, cesspools and catch basins..		274.10
Coal.....	44,757.09	
Cordage, waste, packing and belting.....		22.85
Disinfectants, etc.....		71.05
Electric light and power.....		2,101.20
Electrical supplies.....		527.03
Express, freight and trucking.....		245.01
Extra labor.....		480.03
Flags and repairs.....		324.50
Furniture, fixtures and repairs.....		442.25
Gas.....		1,864.61
Hardware, tools and repairs.....		414.77
Hose and couplings.....		52.96
Insurance on boilers.....		23.30
Janitorial supplies.....		3,055.33
Lawn dressing, seeds, plants, etc.....		54.05
Miscellaneous supplies and expenses.....		20.01
Oil—illuminating.....		33.76
Oil—lubricating and grease.....		35.08
Removing ashes and rubbish.....		2,285.31
Removing snow.....		132.40
Sprinkling streets.....		820.14
Stationery and supplies.....		4.20
Water rates.....		3,149.40
Wood.....		756.06
		<u>\$64,035.55</u>

Service Transfers—Sundry Departments:

Cleaning yards and cellars.....	\$11.85	
Exterminating moths and beetles.....	46.25	
Furniture, fixtures and repairs.....	230.91	
Hardware, tools and repairs.....	43.40	
Janitorial supplies.....	27.78	
Labor on grounds.....	4.72	
Lawn dressing.....	1.50	
Miscellaneous supplies.....	.50	
Removing brush and rubbish.....	1.72	
Removing snow.....	1,871.03	
Sand.....	27.00	\$2,266.66

For Evening Schools:

Electric light and power.....	\$686.22	
Gas.....	180.97	\$867.19

Total as per item No. 50 of expenses..... \$67,169.40Balance November 30, 1917..... \$3.53

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT
(Ordinary Repairs of Schoolhouses)

Balance November 30, 1916	\$15.96	
Appropriation	24,000.00	
		<u>\$24,015.96</u>

RECEIVED

For Automobile repairs	\$10.00
Erecting and removing booth on Common...	25.00
Furniture, fixtures and repairs	5.29
Refuse materials and junk	202.41
Repairs, buildings	35.15
Repairs, concrete	8.10
	<u>\$285.95</u>

Service Transfers—Sundry Depart-
ments:

Cordage, waste and packing	\$6.13	
Express and trucking	1.00	
Furniture, fixtures and repairs	1,160.79	
Hardware, tools and repairs	300.50	
Labor	644.53	
Lumber	259.11	
Machine labor	98.10	
Paints and oils	166.07	
Plumbing supplies	332.32	
Repairs, buildings	3.37	
		<u>\$2,971.92</u>

Total as per item No. 45 of receipts		<u>\$3,257.87</u>
		<u>\$27,273.83</u>

EXPENDED

For Pay rolls—labor on repairs	\$9,315.08
Pay rolls—vacations, Acts of 1914	657.31
Automobile hire	290.00
Automobile insurance	15.00
Automobile license and registration	7.00
Automobile repairs	491.14
Automobile supplies	371.88
Car fares for carpenters and plumbers	211.25
Catch basins, sewers and repairs	9.55
Coal	451.42
Concrete and granolithic repairs	432.59
Cordage, waste and packing	72.83
Drinking fountains	14.45
Electric light and power	97.24
Electrical repairs	254.39
Express, freight and trucking	145.27
Flagstaffs and repairs	190.00
Furniture, fixtures and repairs	939.19
Gas	6.83
Hardware, tools and repairs	634.15
Lumber	815.42
Machinery, belting and repairs	30.26
Miscellaneous supplies and expenses	62.30
New England Telephone and Telegraph Co., rental and service	8.50

Oil—lubricating		8.66	
Paints and oils		223.56	
Plumbing and plumbing supplies	1,680.51		
Removing ashes		18.72	
Repairs, blackboards		357.75	
Repairs, buildings	2,675.13		
Repairs, fences and walls		9.00	
Repairs, heating apparatus	5,231.75		
Sprinkling streets		25.62	
Stationery and supplies		44.10	
Water rates		9.03	
			<u>\$25,851.88</u>
Service Transfers—Sundry Depart- ments:			
Automobile supplies	\$1.22		
Grading	79.73		
Labor and materials for repairs ..	129.71		
Miscellaneous supplies	29.29		
Plumbing supplies	2.74		
Water connections and repairs ..	12.49		
			<u>\$255.18</u>
Total as per item No. 51 of expenses			<u>\$26,107.06</u>
Balance November 30, 1917			<u>\$1,166.77</u>

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT
(Permanent Improvements of Schoolhouses)

Balance November 30, 1916	\$2,692.38	
Appropriation	22,500.00	
		<u>\$25,192.38</u>
RECEIVED		
For furniture, fixtures and repairs	\$38.75	
		<u>\$38.75</u>
Service Transfers—Sundry Depart- ments:		
Furniture and repairs	\$813.58	
Hardware and tools	27.26	
		<u>\$840.84</u>
Total as per item No. 46 of receipts		<u>\$879.59</u>
		<u>\$26,071.97</u>

EXPENDED		
For Pay rolls, labor on repairs	\$3,086.38	
Architects' services	338.00	
Blackboards and repairs	2,476.30	
Car fares for carpenters and plumbers	43.50	
Clocks and program bells—North High	323.00	
Concrete and granolithic work and repairs ..	20.70	
On contract heating and ventilating appara- tus, Ledge St., M. D. Holmes and Sons Co.	2,159.80	
Cordage and packing	30.03	

Electrical work	2,850.56	
Express, freight and trucking	158.96	
Fire escapes	235.00	
Flagstaffs	112.75	
Furniture, fixtures and repairs	2,187.83	
Hardware, tools and repairs	137.37	
Installing ventilating apparatus	95.00	
Lumber	616.10	
Miscellaneous supplies	7.00	
Paints and oils	5.50	
Plans and specifications, heating and ventilating apparatus	90.14	
Plans and specifications, heating and ventilating apparatus—Ledge St., S. A. Norcross ..	237.59	
Plumbing and plumbing supplies	2,371.24	
Removing rubbish	25.00	
Repairs, buildings	1,824.31	
Repairs, heating apparatus	1,534.60	
Sewers and repairs	130.00	
		<u>\$21,101.66</u>
Service Transfers—Sundry Departments:		
Engineers' services and materials	\$14.23	
Furniture, fixtures and repairs	1,049.03	
Granolithic and brick walks	38.45	
Labor and materials for repairs	525.21	
Plumbing supplies	255.52	
		<u>\$1,882.44</u>
Total as per item No. 52 of expenses		<u>\$22,984.10</u>
Balance November 30, 1917		<u>\$3,087.87</u>
INTEREST		
Balance November 30, 1916	\$11,373.76	
Appropriation	234,000.00	
Appropriation from corporation tax	22,000.00	
		<u>\$267,373.76</u>
RECEIVED		
For Accrued interest on bonded city loans	\$425.00	
Interest on deposits	6,857.86	
Interest on license account	159.87	
Interest on real estate lien account	4.50	
Interest on real estate sale	17.23	
Interest on sewer assessments	3,259.79	
Interest on sidewalk assessments	598.21	
Interest on street betterment assessments ..	1,336.59	
Interest on street sprinkling assessments, 1916 and 1917	623.13	
Interest on taxes 1914 to 1917 inclusive	25,444.33	
		<u>\$38,726.51</u>
Total as per item No. 47 of receipts		<u>\$306,100.27</u>
EXPENDED		
For Interest on bonded city loans	\$232,311.00	
Interest on bonded park loans	10,297.50	

Interest on bonded public play ground loans	2,950.00
Interest on temporary loans	53,705.70
Refund interest on liquor license deposit	79.27
Refund interest on street betterment assessments	8.22

Total as per item No. 53 of expenses	<u>\$299,851.69</u>
Balance November 30, 1917	\$6,248.58

INTEREST ON BONDED SEWER LOAN

Balance November 30, 1916	\$2,231.38
Appropriation	<u>75,500.00</u>

RECEIVED

For Accrued interest on bonded sewer loans as per item No. 48 of receipts	<u>\$350.00</u>
	\$77,731.38
	<u>\$78,081.38</u>

EXPENDED

For Interest on bonded sewer loans	<u>\$76,645.00</u>
Total as per item No. 54 of expenses	<u>\$76,645.00</u>
Balance November 30, 1917	\$1,436.38

INTEREST ON BONDED WATER LOAN

Balance November 30, 1916	\$1,550.00
Appropriation from water rates	<u>201,900.00</u>
	\$203,450.00

RECEIVED

For Accrued interest on bonded water loans as per item No. 49 of receipts	<u>\$1,764.58</u>
	\$205,214.58
	<u>\$205,214.58</u>

EXPENDED

For Interest on bonded water loans	<u>\$202,121.25</u>
Total as per item No. 55 of expenses	<u>\$202,121.25</u>
Balance November 30, 1917	\$3,093.33

LAKE QUINSIGAMOND BRIDGE ACCOUNT

Balance November 30, 1916	<u>\$167,615.12</u>
	\$167,615.12

RECEIVED

For Increment and accrued interest on bonds	\$6,226.06
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Interest on deposits.....	57.60	
Steel.....	114.36	
		<hr/>
Total as per item No. 50 of receipts.....		\$6,398.02
		<hr/>
		\$174,018.14

EXPENDED

For Castings and patterns.....	\$29.97	
Concrete light poles.....	698.14	
On contract bridge—C. W. Blakeslee and Sons.....	\$92,911.16	
Extras on contract bridge—C. W. Blakeslee and Sons.....	4,772.74	
Engineers' services—Samuel H. Pitcher Co..	2,852.59	
Expansion joints.....	88.20	
Express, freight and trucking.....	26.26	
Interest.....	8,750.00	
Land and easement—Francis H. and Irving E. Bigelow, Mary E. Irwin and Addie J. Coburn.....	6,760.00	
Land and right for retaining wall—Louisa and Geo. H. Fenner.....	3,249.00	
Land and right for retaining wall—Adelina D. Haas, Guardian of Frederick M. and Ruth D. Haas.....	4,625.00	
Land and right for retaining wall—Adelina D. Haas, individually and as Guardian of Frederick M. and Ruth D. Haas.....	1,398.00	
Recording deed.....	7.02	
Services, adjusters (Early and Herrick).....	500.00	
Services, appraisers.....	85.00	
Steel hinges.....	5,000.00	
Traveling expenses.....	2.04	
		<hr/>
	\$131,750.12	
For Service Transfers—Sundry Departments:		
Automobile hire.....	\$1.00	
Engineers' services.....	12.96	
Manhole frame and cover.....	17.93	
Testing cement.....	24.00	\$55.89
		<hr/>
Total as per item No. 56 of expenses.....		\$131,806.01
		<hr/>
Balance November 30, 1917.....		\$42,207.18

LAW DEPARTMENT

Balance November 30, 1916.....	\$225.55	
Appropriation.....	7,900.00	
Appropriation from public institution tax.....	300.00	
		<hr/>
		\$8,425.55
		<hr/>
		RECEIVED
For Legal expenses.....	\$63.50	
		<hr/>
	\$63.50	

For Service Transfers—Sundry Departments:

Services inspector	\$12.90	\$12.90	
Total as per item No. 51 of receipts			\$76.40

\$8,501.95

EXPENDED

For Salary of City Solicitor—Ernest H. Vaughn ..		\$3,800.00	
Salary of Asst. City Solicitor—John W. Mawbey		2,000.00	
Books and subscriptions		73.50	
Express .....		.15	
New England Telephone and Telegraph Co., rental and service		9.80	
Printing, stationery and supplies		55.97	
Services, legislative bills		53.31	
Services, stenographers		1,045.44	
Telegrams and telephone tolls		2.90	
Traveling expenses		104.26	
Witness fees		1.60	
		<u>\$7,146.93</u>	
Service Transfers—Sundry Departments:			
Car fares	\$61.00		
Services, inspector	1,233.81		
Stationery, stamps and supplies ..	51.48	\$1,346.29	
Total as per item No. 57 of expenses			\$8,493.22
Balance November 30, 1917			<u>\$8.78</u>

LIQUOR LICENSES

RECEIVED

For Licenses for the sale of liquor as per item No. 52 of receipts			\$268,303.40
Appropriated in annual budget	\$126,000.00		
Transferred to sundry accounts, viz.:			
Assessors Dep't (Salaries)		600.00	
Clerk of Committees Dep't		125.00	
City Hospital		15,000.00	
City Messenger Dep't		1,500.00	
Fire Dep't (Pay Rolls)		10,350.00	
General Expense		3,300.00	
Health Dep't (Milk Inspection)		100.00	
Home Defense		10,000.00	
Insp. and Con. of Buildings Dep't		2,741.75	
Insp. and Con. of Buildings Dep't (Hospitals for Communicable Diseases)		107.00	
Insp. and Con. of Buildings Dep't (Repairs and Impts. of Police Bldgs.)		200.00	
Overseers of Poor Dep't (Home Farm)		8,000.00	
Park Commissioners		2,000.00	
Police Dep't (Pay Rolls)		7,500.00	

Police Dep't (Miscellaneous).....	4,000.00	
Schools (Truant School).....	125.00	
Sealer of Weights and Measures Dep't.....	600.00	
Sewers (Pur'f'n Filtration Beds).....	2,000.00	
Supervision of Wires Dep't.....	230.00	\$194,478.75
		<hr/>
		\$73,824.65

EXPENDED		
Amount paid Commonwealth.....	\$64,826.50	
Amount refunded under Chapter 83 Acts of 1911	8,997.40	
	<hr/>	
Total as per item No. 58 of expenses.....		\$73,823.90
		<hr/>
Balance November 30, 1917.....		\$.75

LOANS, FUNDED CITY

Amount November 30, 1916.....	\$4,587,200.00
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EXPENDED

For Certificates of indebtedness, viz.:

Account of loan No. 142, due April 1, 1917, Health Department (Isolation Hospital) ..	\$45,000.00
Account of loan No. 148, due April 1, 1917, Home Farm (New barn and laundry plant).	10,000.00
Account of loan No. 63, due April 1, 1917, Schoolhouses ..	40,000.00
Account of loan No. 144, due April 1, 1917, Schoolhouses (Classical High and Perm. Improvements).....	17,500.00
Account of loan No. 147, due April 1, 1917, Schoolhouses (Dix Street).....	12,000.00
Account of loan No. 145, due April 1, 1917, Schoolhouses (Edgeworth Street).....	47,000.00
Account of loan No. 140, due April 1, 1917, Schoolhouses (Malvern Road).....	22,000.00
Account of loan No. 146, due April 1, 1917, Street Dept. (Permanent Paving).....	50,000.00
Account of loan No. 150, due October 1, 1917, Sewer (Con. Beaver Brook).....	7,000.00

Total as per item No. 59 of expenses.....	\$250,500.00
	<hr/>
Amount November 30, 1917.....	\$4,336,700.00

LOANS, FUNDED PARK

Amount November 30, 1916.....	\$314,800.00
	<hr/>
Amount November 30, 1917.....	\$314,800.00

LOANS, FUNDED PLAYGROUNDS

Amount November 30, 1916.....	\$80,000.00
	<hr/>
Amount November 30, 1917.....	\$80,000.00

LOANS, FUNDED SEWER

Amount November 30, 1916..... \$1,867,000.00

EXPENDED

For Certificate of indebtedness, viz.:

Account of loan No. 143, due April 1, 1917,
(Sewers, Purification, Filtration Beds)..... \$50,000.00

Total as per item No. 60 of expenses..... \$50,000.00

Amount November 30, 1917..... \$1,817,000.00

LOANS, FUNDED WATER

Amount November 30, 1916..... \$3,990,000.00

EXPENDED

For Certificate of indebtedness, viz.:

Account of loan No. 141, due April 1, 1917,
Water Works (Con. Pipe Exten. and Impt.) \$25,000.00

Total as per item No. 61 of expenses..... \$25,000.00

Amount November 30, 1917..... \$3,965,000.00

LOANS, SERIAL CITY

Amount November 30, 1916..... \$1,438,900.00

RECEIVED

For Certificates of indebtedness, viz.:

Account of City Loans:

No. 62 Land Damage, 4% due April 1, each year, \$7,500.....	\$75,000.00
No. 63 Schools (Industrial Schools), Girls, 4% due April 1, each year, \$6,500.....	65,000.00
No. 64 Police Dept. (New Stations), 4% due April 1, each year, \$8,500.....	85,000.00
No. 65 Permanent Paving, 4% due April 1, each year, \$3,000.....	30,000.00

Total as per item No. 53 of receipts..... \$255,000.00

\$1,693,900.00

EXPENDED

For Certificates of indebtedness, viz.:

Account of City Loans:

No. 3 Schoolhouses.....	\$6,200.00
No. 4 Macadam Paving.....	5,000.00
No. 5 Playgrounds.....	1,000.00
No. 6 City Hospital (Children's Ward).....	9,000.00
No. 7 Street Construction.....	2,500.00
No. 8 Hospital for Communicable Diseases..	500.00
No. 9 Schoolhouses.....	4,500.00
No. 13 Land Damages.....	10,000.00
No. 17 Abolition of Grade Crossings.....	1,000.00

No. 18 Macadam Paving.....	2,000.00
No. 19 Children's Ward.....	500.00
No. 21 Street Construction.....	2,500.00
No. 22 Street Construction.....	2,500.00
No. 23 Permanent Paving.....	2,500.00
No. 24 Land Damages.....	5,000.00
No. 25 Schoolhouses.....	22,000.00
No. 33 Street Construction.....	2,500.00
No. 34 Permanent Paving.....	5,000.00
No. 35 Land Damages.....	5,000.00
No. 36 High Schools.....	21,000.00
No. 37 Schoolhouses.....	10,000.00
No. 43 Police Dept. Addition Station 2.....	500.00
No. 44 Police Dept. (New Station).....	4,000.00
No. 45 House Offal.....	15,000.00
No. 46 Schoolhouses.....	4,000.00
No. 47 Land Damages.....	3,000.00
No. 50 Police Dept. (New Stations).....	15,000.00
No. 51 Police Dept. (New Stations).....	2,000.00
No. 52 Schoolhouses.....	9,500.00
No. 53 Permanent Paving.....	4,500.00
No. 54 Land Damages.....	7,000.00
No. 59 High Schools.....	8,000.00

Total as per item No. 62 of expenses..... \$187,700.00

Amount November 30, 1917..... \$1,506,200.00

LOANS, SERIAL SEWER

Amount November 30, 1916..... \$192,500.00

RECEIVED

For Certificates of indebtedness, viz.:

Account of loan No. 66, Sewers (Con. Green-
dale Trunk), 4½%, due April 1, each year,
\$5,000.....

\$50,000.00

Total as per item No. 54 of receipts..... \$50,000.00

\$242,500.00

EXPENDED

For Certificates of indebtedness, viz.:

Account of sewer loans:

No. 11 Purification Outfall.....	\$2,500.00
No. 16 Purification Outfall.....	4,000.00
No. 20 Construction, Sundry.....	4,500.00
No. 30 Purification Outfall.....	1,000.00
No. 31 Purification Outfall.....	3,500.00
No. 32 Construction, Sundry.....	4,500.00
No. 48 Construction, Sanitary and Surface..	1,000.00
No. 55 Purification Outfall.....	4,000.00

Total as per item No. 63 of expenses..... \$25,000.00

Amount November 30, 1917..... \$217,500.00

LOANS, SERIAL WATER

Amount November 30, 1916..... \$1,315,500.00

RECEIVED

For Certificates of indebtedness, viz.:

Account of loans:

No. 61 Asnebumskit Supply, 3½% due Jan. 1, each year, \$15,000	\$150,000.00
No. 67 Asnebumskit Supply 4½% due Oct. 1, each year, \$20,000	\$200,000.00

Total as per item No. 55 of receipts..... \$350,000.00

\$1,665,500.00

EXPENDED

For Certificates of indebtedness, viz.:

Account of water loans:

No. 1 Asnebumskit Supply	\$5,000.00
No. 2 Con. Pipe Exten. and Impt.....	5,000.00
No. 10 Con. Pipe Exten. and Impt.....	1,000.00
No. 12 Asnebumskit Supply	1,000.00
No. 15 Asnebumskit Supply	5,000.00
No. 14 Con. Pipe Exten. and Impt.....	9,000.00
No. 26 Construction	15,000.00
No. 27 Con. Pipe Exten. and Impt.....	10,500.00
No. 28 Asnebumskit Supply	6,500.00
No. 29 Asnebumskit Supply	3,000.00
No. 38 Con. Pipe Exten. and Impt.....	5,000.00
No. 39 Asnebumskit Supply	9,000.00
No. 40 Construction	7,000.00
No. 41 Asnebumskit Supply	2,500.00
No. 42 Asnebumskit Supply	5,000.00
No. 49 Asnebumskit Supply	3,000.00
No. 56 Construction	5,000.00
No. 57 Con. Pipe Exten. and Impt.....	7,500.00
No. 58 Asnebumskit Supply	10,000.00
No. 60 Tatnuck Supply	5,000.00

Total as per item No. 64 of expenses..... \$125,000.00

Amount November 30, 1917..... \$1,540,500.00

**LOANS, TEMPORARY
RECEIVED**

For Loans authorized in anticipation of revenue as per item No. 56 of receipts, viz.:

Date	Amount	Time Days	Rate of int. %	Prem.	Interest paid
Dec. 21, 1916	\$150,000.00	103	3.39	\$1.50	\$1,453.37
Dec. 26, 1916	50,000.00	7	3.35	.....	32.56
Dec. 29, 1916	400,000.00	95	3.20	1.25	3,376.53
Jan. 19, 1917	200,000.00	74	1.	1.25	409.86
Feb. 19, 1917	200,000.00	57	2.70	.....	855.00
Mar. 8, 1917	200,000.00	232	3.84	1.00	4,948.33
Mar. 8, 1917	150,000.00	120	2.47	.....	1,235.00
Mar. 29, 1917	500,000.00	99	1.46	.....	2,007.50
Mar. 29, 1917	400,000.00	211	3.44	.....	8,064.89
May 21, 1917	150,000.00	170	4.35	.....	3,081.24
May 29, 1917	200,000.00	162	4.27	.....	3,843.00
June 15, 1917	250,000.00	145	4.74	.....	4,772.92
June 21, 1917	100,000.00	139	4.50	.....	1,737.50
June 29, 1917	100,000.00	28	4.50	.....	350.00
July 6, 1917	650,000.00	28	4.50	.....	2,275.00
July 20, 1917	100,000.00	110	4.	.....	1,222.22
July 27, 1917	200,000.00	103	4.08	.....	2,334.67
Aug. 3, 1917	650,000.00	96	4.03	.....	6,985.33
Aug. 16, 1917	250,000.00	83	4.04	1.75	2,326.86
Aug. 30, 1917	150,000.00	85	3.98	1.25	1,408.33
Sept. 23, 1917	125,000.00	10	4.625	.....	160.59
Nov. 6, 1917	300,000.00	22	4.50	.....	825.00
	\$5,475,000.00				\$53,705.70

EXPENDED

For City notes cancelled as per item No. 65 of expenses..... **\$5,475,000.00**

MOTH EXTERMINATION ASSESSMENTS

Balance uncollected November 30, 1916.....	\$1,624.92	
Amount assessed in 1916 account.....	15.41	
Amount assessed in 1917 account.....	4,682.30	\$6,322.63
Abated since November 30, 1916:		
On 1916 account.....	\$6.93	
On 1917 account.....	41.05	\$47.98
		\$6,274.65

RECEIVED

From Sundry persons for assessments, viz.:		
On 1916 account.....	\$1,633.40	
On 1917 account.....	3,419.00	
Total as per item No. 57 of receipts and transferred to the account of Moth and Beetle Extermination.....		\$5,052.40
Amount uncollected November 30, 1917.....		\$1,222.25

OVERLAYINGS, TAXES 1914

Balance November 30, 1916.....	\$1,880.71	
Appropriation.....	<u>7,400.00</u>	
		\$8,780.71
EXPENDED		
For Abatements allowed by Assessors.....	<u>\$8,167.58</u>	
Total as per item No. 66 of expenses.....		<u>\$8,167.58</u>
Balance November 30, 1917.....		\$618.18

OVERLAYINGS, TAXES 1915

Balance November 30, 1916.....	<u>\$29,152.44</u>	
		\$29,152.44
EXPENDED		
For Abatements allowed by Assessors.....	<u>\$2,246.80</u>	
Total as per item No. 67 of expenses.....		<u>\$2,246.80</u>
Balance November 30, 1917.....		\$26,905.64

OVERLAYINGS, TAXES 1916

Balance November 30, 1916.....	\$24,247.73	
Appropriations overlayings as per Assessors' certificates.....	<u>14,751.00</u>	
		\$38,998.73
RECEIVED		
For Taxes abated account false statement and afterwards paid.....	<u>\$15.00</u>	
Total as per item No. 58 of receipts.....		<u>\$15.00</u>
		\$39,013.73
EXPENDED		
For Abatements allowed by Assessors.....	<u>\$11,008.25</u>	
Total as per item No. 68 of expenses.....		<u>\$11,008.25</u>
Balance November 30, 1917.....		\$28,005.48

OVERLAYINGS, TAXES 1917

Appropriations overlayings as per Assessors' certificates.....	<u>\$34,082.00</u>	
		\$34,082.00

EXPENDED

For Abatements allowed by Assessors.....	\$23,242.50	
Total as per item No. 69 of expenses.....		<u>\$23,242.50</u>
Balance November 30, 1917.....		<u>\$10,839.50</u>

OVERSEERS OF POOR DEPARTMENT (City Relief)

Balance November 30, 1916.....	\$3,546.18	
Appropriation.....	50,000.00	
Appropriation from corporation tax.....	8,000.00	
		<u>\$61,546.18</u>

RECEIVED

From Cities and towns for aid to their poor.....	\$1,525.71	
Individuals for aid to their poor.....	242.94	
State Board of Charity for support of State paupers.....	9,162.82	
State Board of Charity for burial of State paupers.....	368.15	
State Board of Charity for transportation of State paupers.....	55.80	
Cities and towns—reimbursement mothers' aid.....	1,455.09	
State Board of Charity—reimbursement mothers' aid.....	14,814.96	
For Mothers' aid uncalled for.....	46.00	
	<u>\$27,671.47</u>	
Service Transfers—Sundry Departments:		
Adding machine—Wales.....	\$100.00	\$100.00
Total as per item No. 59 of receipts.....		<u>\$27,771.47</u>
		<u>\$89,317.65</u>

EXPENDED

For Salary of Clerk—Gerhard Becker.....	\$1,783.33
Salary of City Physician—Hugo O. Peterson, M. D.....	700.00
Clerical service.....	5,180.19
Adding machine—Wales.....	244.44
Aid to mothers with dependent children, artificial limb.....	35.00
Aid to mothers with dependent children—burial.....	10.00
Aid to mothers with dependent children—cash allowances.....	38,840.00
Aid to mothers with dependent children—clothing, bedding, furniture, etc.....	184.65
Aid to mothers with dependent children—fuel, groceries, provisions, etc.....	791.47
Automobile insurance.....	29.76
Automobile, license and registration.....	22.00
Automobile repairs.....	345.09

Automobile supplies	260.43
Books and subscriptions	25.60
Boots, shoes and clothing	1,129.73
Burials	1,016.00
Cash allowances	5,990.03
Coal	2,501.73
Electrical supplies .....	.30
Express, freight and trucking	62.49
Furniture and repairs and storage	145.02
Groceries and provisions	21,203.33
Justice of Peace commission	7.00
Lodgings and lunches	1.65
Medical treatment and supplies	110.66
Printing, stationery, stamps and supplies	328.16
Refreshments	4.00
Rent of garage	120.00
Telegrams and telephone tolls	5.20
Transportation	315.14
Traveling expenses	112.42
Wood	230.50
Aid to mothers with dependent children, by cities and towns	590.06
Aid to paupers by cities and towns	3,008.86
Care of children—Baldwinville Hospital Cot- tage	45.00
Care of paupers by Commonwealth	136.90
Care of paupers by individuals	59.82
Care of paupers by Mass. Hospital School	1,544.55
Care of paupers by State Board of Charity	247.20
	<hr/>
	\$87,367.76

Service Transfers—Sundry Depart-
ments:

Car checks	\$30.00
Coal	9.00
Engineers' services and materials .....	.54
Groceries and provisions	289.51
Stationery, stamps and supplies	113.02
Wood	18.00
	<hr/>
	\$460.07

Total as per item No. 70 of expenses	<hr/>	\$87,827.83
Balance November 30, 1917		\$1,489.82

OVERSEERS OF POOR DEPARTMENT (Home Farm)

Balance November 30, 1916	\$8.10
Appropriation	40,000.00
Appropriation from corporation tax	7,000.00
Amount transferred from liquor licenses	8,000.00
	<hr/>

\$55,008.10

RECEIVED

For board of inmates from cities, towns and individuals	\$1,026.72
Barrels and bags	7.35
Boots, shoes and clothing	66.23

Cash from inmates.....	91.06
Farm produce.....	3,860.86
Fertilizer, loam and seed.....	457.75
Fuel.....	824.07
Groceries and provisions.....	2,134.31
Hay, grain and straw.....	181.16
Hides, tallow, etc.....	103.80
Ice.....	89.40
Labor.....	28.74
Live stock.....	4,379.03
Milk.....	1,119.80
Miscellaneous supplies and expenses.....	49.21
Pork.....	5,949.66
Refund over payment express.....	34
Refuse materials and junk.....	240.04
Team work.....	256.25
Telegrams and telephone tolls.....	5.22

\$20,821.00

Service Transfers—Sundry Departments:

Board of men and horses.....	\$27,129.19
Blacksmithing.....	1,056.00
Fuel.....	27.00
Groceries and provisions.....	4,648.97
Horse hire.....	35.00
Ice.....	18.94
Labor.....	62.22
Milk.....	3,467.44
Repairs, wagons.....	504.00
Swine.....	12,760.00
Team work.....	1,422.50

\$51,181.26

Total as per item No. 60 of receipts..

\$71,952.26

\$126,960.36

EXPENDED

For Salary of Superintendent—Thomas Horne (in part).....	\$1,883.33
Salary of Matron, Georgia D. Horne.....	600.00
Services of Chaplains.....	150.00
Services of leaders of music.....	63.00
Pay rolls—laborers and domestics.....	32,444.98
Pay rolls, boy scouts.....	1,192.42
Advertising.....	6.42
Automobile truck—Vim.....	400.00
Automobile, insurance.....	86.07
Automobile, license and registration.....	12.00
Automobile, repairs.....	549.01
Automobile, supplies.....	717.81
Bees, hives, etc.....	19.48
Blacksmithing and blacksmith's supplies.....	7.22
Blankets, harness and repairs.....	8.80
Books and subscriptions.....	4.00
Boots, shoes and clothing.....	756.81
Boxes.....	20.50
Carts, wagons and repairs.....	229.15

Cash inmates	112.90
Chicken incubators and brooders	218.14
Coal	3,488.47
Cordage, waste and packing	133.24
Crockery and tinware	687.08
Disinfectants	162.66
Dog licenses	21.00
Dry goods, bedding, etc.	714.74
Electric light and power	499.08
Electrical supplies and repairs, electric machinery	302.93
Express, freight and trucking	97.98
Extra labor	109.87
Fertilizer, loam, seeds and trees	1,084.68
Furniture, fixtures and repairs	136.46
Groceries and provisions	27,135.72
Hardware, tools and repairs	3,055.76
Hay, grain and straw and freight on same	19,060.46
Hens and eggs for hatching	780.51
Horse hire and car fares	6.80
Hose and couplings	36.83
Injury to person—Vincezo Lorito	79.55
Insecticide	178.08
Insurance	520.00
Insurance on bond	9.00
Iron and steel	7.13
Janitorial supplies	628.83
Laundry	1,019.74
Leather, etc.	52.11
Live stock	8,820.00
Lumber	1,481.49
Machinery, belting and repairs	44.13
Medical attendance on horses, cattle, swine and hens	1,091.47
Medical and surgical supplies	427.81
Milk	1,153.51
Miscellaneous supplies and expenses	94.89
New England Telephone and Telegraph Co., rental and service	51.15
Oil—illuminating and gasoline	77.23
Oil—lubricating and grease	19.88
Paints and oils	312.57
Pasteurizer and clarifier	1,224.80
Powder, fuse and ammunition	9.99
Printing, stationery, stamps and supplies	49.97
Refreshments	80.00
Rent of P. O. box	12.00
Repairs, buildings	841.10
Repairs, engines and pumps	2.15
Repairs, heating apparatus	455.35
Rubber goods	5.90
Sawdust and shavings	249.77
Services, dentist	21.00
Sewer pipe, brick, cement, lime, etc., and freight on same	122.98
Stable supplies	16.70
Swine	385.00
Tobacco, snuff, etc.	443.14

Tractor and freight on same.....	3,822.90	
Water rates.....	660.72	
Wire netting and fencing.....	282.05	
Wood.....	14.00	
		<u>\$121,713.90</u>
Service Transfers—Sundry Departments:		
Adding machine—Wales.....	\$100.00	
Car fares.....	70.00	
Cement and sewer pipe.....	177.26	
Exterminating moths and beetles.....	59.00	
Hydrants.....	70.00	
Road oil.....	246.50	
Standing grass.....	40.00	
Stationery, stamps and supplies.....	58.95	
Trucking, automobile—House Offal.....	1,838.00	
Wood.....	164.95	
		<u>\$2,824.66</u>
Total as per item No. 71 of expenses.....		<u>\$124,538.56</u>
Balance November 30, 1917.....		<u>\$2,421.80</u>

OVERSEERS OF POOR DEPARTMENT (House Offal)

Balance November 30, 1916.....	\$16,178.08	
Appropriation.....	25,000.00	
		<u>\$41,178.08</u>

RECEIVED

For Bones, tallow, scraps, etc.....	\$17.76	
Horses.....	100.00	
Insurance on buildings and pigs on account of fire, Sept. 23, 1917.....	5,114.36	
Pigs.....	7,020.05	
Pork.....	30,271.68	
Repairs, wagon.....	29.30	
Swill.....	127.00	
Trucking.....	77.00	
		<u>\$42,757.15</u>
Service Transfers—Sundry Departments:		
Automobile hire.....	\$1,838.00	
Pigs.....	14.00	
		<u>\$1,852.00</u>
Total as per item No. 61 of receipts.....		<u>\$44,609.15</u>
		<u>\$85,787.23</u>

EXPENDED

For Salary of Superintendent—Thomas Horne (in part).....	\$300.00	
Pay rolls—collecting house offal.....	24,751.21	
Automobile truck—Tonford.....	872.50	
Automobile insurance.....	51.20	
Automobile license and registration.....	4.00	

Automobile repairs	328.04	
Automobile supplies	421.80	
Blacksmithing and blacksmith's supplies	707.03	
Blankets, harness and repairs	140.25	
Disinfectants	59.50	
Electric light	12.40	
Express, freight and trucking	3.78	
Garbage	210.00	
Hardware, tools and repairs	563.75	
Hay, grain and straw	1,310.59	
Horses	812.50	
Insurance	121.04	
Iron and steel	57.80	
Leary investigation—legal expenses	6.55	
Leather, etc.	72.79	
Lumber	1,303.50	
Medical attendance on horses and swine	1,383.67	
Miscellaneous supplies and expenses	53.88	
Oil—illuminating	5.00	
Oil—lubricating and grease	78.49	
Paints and oils	70.78	
Printing and stationery	22.00	
Rent of Lismore farm	1,062.50	
Repairs, houses	494.65	
Rifle and repairs and ammunition	42.58	
Sawdust and shavings	336.81	
Swine	2,989.10	
Wagons, sleighs and repairs	1,464.65	
		\$41,114.34
Service Transfers—Sundry Departments:		
Blacksmithing	\$1,056.00	
Board of men and horses	27,129.19	
Repairs, wagons	504.00	
Road oil	246.50	
Swine	12,760.00	
Water connections	431.16	
		\$42,126.85
Total as per item No. 72 of expenses		\$83,241.19
Balance November 30, 1917		\$2,546.04

PARK COMMISSIONERS

Balance November 30, 1916	\$483.38	
Appropriation	40,000.00	
Amount transferred from liquor licenses	2,000.00	
		\$42,483.38

RECEIVED

For Catalogues—Worcester County birds—Green Hill Museum	\$5.10
Check room fees—Elm Park and Green Hill	57.20
Ducks	2.00
Electrical supplies	45.42
Fuel	45.00
Miscellaneous supplies	4.41

Plants, shrubs and trees and planting same . . .	31.88
Posts	1.00
Refreshment stand privilege	30.00
Refreshments—golf links	1,083.19
Refreshments—refectories	3,846.89
Rent of boats—Elm Park and Green Hill	151.60
Rent of camp site—Green Hill . . . . .	.33
Rent of lockers and rent and sale of clubs, etc., golf links	807.79
Rent of rooms—Green Hill	78.00
Standing grass	111.00
Wages uncalled for . . . . .	.73

\$6,301.54

Service Transfers—Sundry Depart-
ments:

Automobile hire	\$458.32	
Cobblestone	204.00	\$662.32

Total as per item No. 62 of receipts

\$6,963.86

\$49,447.24

EXPENDED

For Pay rolls—laborers	\$22,995.65
Pay rolls, vacations—Acts of 1914	912.38
Salary of Superintendent—Arthur V. Parker..	600.00
Salary of Superintendent and Forester— Harold J. Neale	780.68
Salary of Forester—Harold J. Neale	261.46
Clerical service	1,579.21
Advertising	15.63
Automobile hire	114.00
Automobile insurance	49.84
Automobile repairs	267.51
Automobile supplies	468.01
Bird houses	23.13
Blacksmithing and clipping horses	78.88
Blankets, harness and repairs	41.05
Board of horses	169.00
Boat supplies and repairs	85.00
Boats	472.02
Books and subscriptions	28.15
Carts, wagons and repairs	81.20
Coal	727.39
Cordage, waste and packing	10.51
Crockery and tinware	9.74
Disinfectants	30.33
Drinking fountains and repairs	18.58
Electric light	949.96
Electrical repairs	1,137.16
Engineers' services and materials	142.01
Express, freight and trucking	12.90
Extra labor	92.59
Fertilizer and loam	432.65
Fire extinguishers and supplies	6.40
Flags, flagstuffs and repairs	115.85
Food for animals and water fowl	775.04
Furniture, fixtures and repairs	65.23

Gas	64.30
Golf equipment	639.27
Greenhouse supplies	20.44
Hardware, tools and repairs	869.61
Hay, grain and straw	234.60
Hose and couplings	77.94
Injury to person—Andrew J. Campbell	15.14
Injury to person—Thomas F. Hennessey	18.38
Insurance	20.50
Insurance on bond	5.40
Janitorial supplies	100.50
Legal expenses	20.00
Lumber and fence posts and freight on same	587.51
Medical attendance on animals	2.75
Miscellaneous supplies and expenses	132.54
New England Telephone and Telegraph Co., rental and service	145.65
Oil—illuminating and gasolene	42.80
Oil—lubricating and grease	1.00
Paints and oils	268.86
Photographers and supplies	102.62
Playground equipment and repairs	105.03
Plumbing and plumbing supplies	206.22
Printing, stationery, stamps and supplies	305.26
Refectories, beverages, confectionery, etc.	4,919.97
Refectories, furniture, crockery, etc.	333.44
Refreshments	10.80
Removing snow	7.80
Rent of garage	10.50
Rent of golf grounds	500.00
Repairs, Bigelow Monument	11.25
Repairs, heating apparatus	28.37
Repairs, houses	114.78
Seeds, plants, trees, etc., and freight on same	179.30
Services, physician	15.00
Sewer pipe, cement and lime	4.50
Sewers and repairs	15.00
Sign boards and signs	65.45
Sprinkling streets	2,739.33
Taxes on golf grounds	143.26
Team work	427.31
Traveling expenses	123.55
Water rates	6.00
Wire fencing, netting and trellises	19.24

\$47,204.81

Service Transfers—Sundry Depart-
ments:

Automobile hire	\$637.12
Car fares	14.50
Engineers' services and materials	7.72
Extra labor	10.88
Hardware and tools . . . . .	.79
Horse hire	25.75
Hose and couplings	18.25
Miscellaneous supplies	2.00
Rent of machinery	61.50
Repairs, sidewalks and streets	463.73

Sewer pipe	45.02	
Stationery, stamps and supplies...	115.82	
Swine	14.00	
Team work	224.25	
Water connections	49.50	\$1,690.83

Total as per item No. 73 of expenses \$48,895.64

Balance November 30, 1917..... \$551.60

PARK COMMISSIONERS (Forestry)

Balance November 30, 1916..... \$418.06
 Appropriation..... 6,500.00

\$6,918.06

RECEIVED

For Labor on gardens
 \$9.60 | || Trimming and removing trees..... | 419.49 | |
| Wages uncalled for | .58 | |
| Wood | 12.50 | |

\$442.17

Service Transfers—Sundry Departments:

Automobile hire	\$405.04	
Labor on grounds	69.38	
Shrubs, trees and planting and care of same.....	193.29	
Trimming and removing trees....	402.74	\$1,070.45

Total as per item No. 63 of receipts..... \$1,512.62

\$8,430.68

EXPENDED

For Pay rolls—laborers.....	\$5,994.76
Pay rolls—vacations, Acts of 1914	152.96
Automobile, Saxon	775.00
Automobile hire	54.00
Automobile insurance.....	23.50
Automobile repairs	88.13
Automobile supplies	110.57
Clerical service.....	130.60
Hardware, tools and repairs.....	82.51
New England Telephone and Telegraph Co., rental	2.27
Paints and oils.....	5.31
Printing, stationery and supplies.....	8.25
Rent of garage.....	18.50
Shrubs and trees and freight on same.....	21.00
Team work.....	20.00
Traveling expenses.....	6.75

\$7,494.11

Service Transfers—Sundry Departments:

Automobile hire	\$550.26
Automobile supplies.....	17.50

Extra labor	9.52	
Horse hire	9.25	
Hose and couplings.....	1.08	
Stationery, stamps and supplies..	5.68	
Team work.....	29.25	\$622.49
Total as per item No. 74 of expenses.....		\$8,116.60
Balance November 30, 1917.....		\$814.08

EDWARD LIVINGSTON DAVIS TOWER AND PARK FUND**RECEIVED**

For Net income from trustees of Edward Living- ston Davis Tower and Park Fund.....	\$1,086.05	
Total as per item No. 64 of receipts.....		\$1,086.05

EXPENDED

For Pay rolls—laborers.....	\$433.84	
Wire fencing	75.00	
	\$508.84	
Service Transfers—Sundry Depart- ments:		
Cement.....	\$5.45	\$5.45
Total as per item No. 75 of expenses.....		\$514.29
Balance November 30, 1917.....		\$571.76

WM. A. RICHARDSON PARK FUND

Balance November 30, 1916.....	\$372.45	
		\$372.45

RECEIVED

For Net income from trustees of Wm. A. Richard- son Park Fund	\$8,837.83	
Cement.....	23.97	
Wages uncalled for .....	.25	
Total as per item No. 65 of receipts.....		\$8,862.05

EXPENDED

For Pay rolls—laborers.....	\$4,147.24	
Salary of Superintendent and Forester, Harold J. Neale (in part)	84.70	
Clerical service.....	114.65	
Architects' services—Olmsted Bros.....	606.57	
Automobile repairs	80.68	
Automobile supplies.....	3.06	
Blacksmithing	12.50	
Blankets, harness and repairs.....	2.00	
Cordage and packing.....	.75	

Electric light	83.96
Electrical supplies	5.50
Engineers' services and materials	145.20
Express, freight and trucking	11.48
Fertilizer and loam	85.00
Food for animals and waterfowl	35.20
Hardware, tools and repairs	75.92
Injury to person—Stanley Wilson	32.68
Iron fence—Chandler Hill	1,400.00
Lumber	21.60
Miscellaneous supplies and expenses	8.38
New England Telephone and Telegraph Co., rental and service	14.38
Open air theater—Newton Hill	237.77
Paints and oils	23.25
Plumbing and plumbing supplies	51.73
Printing, stationery and supplies	19.63
Repairs, houses	2.10
Seeds, plants, trees, etc., and freight on same	464.09
Team work	138.00
Wire fencing, netting and trellises	15.51

\$7,873.53

Service Transfers—Sundry Depart-
ments:

Automobile hire	\$333.09
Care of lights, Street Lighting Dept.	524.80
Cement	23.97
Rent of tools	1.00
Water connections and repairs	4.25

\$387.11

Total as per item No. 76 of expenses

\$8,760.64

Balance November 30, 1917

\$473.86

BOYNTON PARK

Balance November 30, 1916

\$77.53

EXPENDED

For Pay rolls—laborers	\$67.84
Stationery .....	.09

\$67.93

Service Transfers—Sundry Depart-
ments:

Automobile hire	\$2.10
Car fares	7.50

\$9.60

Total as per item No. 77 of expenses

\$77.53

MOTH AND BEETLE EXTERMINATION

Balance November 30, 1916	\$6,508.29
Appropriation	4,500.00

Amount transferred from moth extermination assessments.....	5,052.40	
		\$16,055.69

RECEIVED

For Brown tail and gypsy moths—exterminating.....	\$402.91	
Brown tail and gypsy moths—wood.....	100.38	
Elm leaf beetles—exterminating.....	119.00	
	<u>\$622.29</u>	
Service Transfers—Sundry Departments:		
Brown tail and gypsy moths—automobile hire.....	\$1,095.74	
Brown tail and gypsy moths—exterminating.....	168.50	
Brown tail and gypsy moths—water connections.....	13.66	
Brown tail and gypsy moths—wood.....	164.95	
Elm leaf beetles—exterminating..	18.75	
	<u>\$1,461.60</u>	
Total as per item No. 66 of receipts.....		\$2,083.89
		\$18,139.58

EXPENDED

For Brown Tail and Gypsy Moths:		
Pay rolls—laborers.....	\$8,459.63	
Pay rolls, vacations, Acts of 1914.....	157.69	
Salary of Superintendent—Harold J. Neale (in part).....	1,233.33	
Clerical service.....	834.73	
Advertising.....	23.69	
Automobile truck—Netco.....	2,100.00	
Automobile hire.....	264.80	
Automobile insurance.....	51.20	
Automobile registration.....	4.00	
Automobile repairs.....	86.55	
Automobile supplies.....	378.58	
Burlap, cordage and packing.....	47.27	
Electrical supplies.....	9.53	
Express and freight.....	38.86	
Extra labor.....	12.00	
Gasolene.....	125.00	
Hardware, tools and repairs.....	203.99	
Hose and couplings.....	521.75	
Injury to person—Edward J. Donahue.....	35.71	
Insecticide.....	1,162.97	
Installing telephone.....	26.33	
Lumber.....	13.46	
Miscellaneous supplies and expenses.....	13.17	
Motorcycle hire.....	6.00	
New England Telephone and Telegraph Co., rental and service.....	7.22	
Oil—lubricating and grease.....	39.95	
Paints and oils.....	23.11	

Printing and stationery.....	49.60
Refund assessment—Mrs. Arthur Granger...	.35
Rent of garage.....	13.50
Services, physician.....	2.00
Sprayer.....	750.00
Team work.....	20.00
Traveling expenses.....	10.28
Water rates.....	10.94

\$16,837.19

Service Transfers—Sundry Departments:

Automobile hire.....	\$409.54	
Automobile supplies.....	17.50	
Board of patients—City Hospital.	19.00	
Car fares.....	2.50	
Cement.....	13.44	
Extra labor.....	5.18	
Hardware, tools and repairs.....	25.45	
Inspecting hydrants.....	13.94	
Rubber goods.....	19.92	
Stationery, stamps and supplies...	8.56	
Team work.....	245.87	
Water connections and repairs....	21.23	\$807.13

For Elm Leaf Beetles:

Pay rolls—laborers.....	\$145.25	
Salary of Superintendent—Harold J. Neale (in part).....	18.91	
Clerical service.....	21.50	
Automobile hire.....	3.20	
Automobile repairs.....	.83	
Automobile supplies.....	.60	
Express and freight.....	.42	
Gasolene.....	22.50	
Hardware, tools and repairs.....	24.65	
Installing telephone.....	13.17	
Lumber.....	6.73	
Miscellaneous supplies.....	.57	
New England Telephone & Telegraph Co., rental and service...	.11	
Printing and stationery.....	5.05	\$263.49

Service Transfers—Sundry Departments:

Hardware, tools and repairs.....	\$.64	
Stationery, stamps and supplies...	1.51	
Team work.....	40.13	\$42.28

Total as per item No. 78 of expenses..... \$17,950.09

Balance November 30, 1917..... \$189.49

PUBLIC PLAYGROUNDS

Balance November 30, 1916..... \$89.00
 Appropriation..... 24,000.00

\$24,089.00

RECEIVED

For Labor and materials		\$139.89	
Loam and filling		12.75	
Old boat		5.00	
Rent of tenements		207.50	
Wages returned		2.42	
			<hr/>
			\$367.56
Service Transfers—Sundry Depart- ments:			
Cement bags	\$11.84		\$11.84
			<hr/>
Total as per item No. 67 of receipts			\$379.40
			<hr/>
			\$24,468.40

EXPENDED

For Salary of Supervisor—Thomas E. Holland . . .	\$2,180.15
Pay rolls—assistants, directors and instructors	4,626.47
Pay rolls—caretakers	4,042.96
Pay rolls—janitors	280.00
Pay rolls—laborers	1,488.52
Pay rolls—umpires	61.00
Clerical service	759.05
Architects' services	10.00
Automobile—Ford	151.60
Automobile hire	22.50
Automobile insurance	85.09
Automobile registration	10.00
Automobile repairs	95.65
Automobile supplies	180.56
Badges, belts, caps, vests, etc.	20.08
Balls, bases, bats, mitts, etc.	237.88
Basketry materials	151.35
Books and subscriptions	9.55
Carpentering and lumber	194.40
Cleaning cess pool	60.00
On contract concrete walls—Crompton and University swimming pools	834.00
Electric light and power	20.46
Electrical repairs	37.66
Engineers' services and materials	32.55
Equipment and repairs	255.33
Express, freight and trucking	13.12
Flags, flagstuffs and repairs	23.55
Fuel	63.89
Furniture, fixtures and repairs	44.95
Grading, fertilizer, loam, shrubs, etc.	116.30
Hardware, tools and repairs	127.35
Horse hire and car fares	156.00
Injury to person—Michael Kerrigan	270.00
Insurance	50.65
Iron fence	995.62
Land—Forsberg St.—Frank Houston	807.75
Legal expenses	52.87
Medical and surgical supplies	17.96
Miscellaneous supplies and expenses	46.60
Music instruction and supplies	16.55

Oil—lubricating and grease	2.90
Paints and oils	188.98
Photographs and frames	42.00
Plumbing and plumbing supplies	280.75
Printing, stationery, stamps and supplies	289.88
Refreshments	27.00
Rent of garage	60.00
Rent of storehouse	25.00
Repairs, buildings	2,086.29
Sewer pipe, cement, lime, sand, etc.	585.64
Sewing materials, and rent of sewing machines	284.12
Shelter, Beaver Brook—on contract heating apparatus—James P. Quinn and Co.	504.48
Signs	17.35
Sprinkling streets	118.28
Team work	290.01
Telephone tolls	1.90
Traveling expenses	3.08
Water rates	8.00
Wire fencing and netting	56.71

\$23,356.84

Service Transfers—Sundry Departments:

Automobile hire	\$26.99
Automobile supplies	1.25
Car fares	103.50
Engineers' services and materials	35.46
Exterminating moths and beetles	25.60
Labor and materials	39.50
Rent of machinery and tools	6.00
Stationery, stamps and supplies	74.34
Water connections	10.34

\$322.98

Total as per item No. 79 of expenses **\$23,679.82**

Balance November 30, 1917 **\$788.58**

PENSIONS

Balance November 30, 1916	\$79.78
Appropriation	24,500.00
Appropriation from public institution tax	400.00

\$24,979.78

EXPENDED

For City Messenger Department:

Peter M. Bock	\$259.99
Asel B. Griggs	859.95
Ferdinand C. Spokesfield	375.60

\$995.54

For Fire Department:

William A. Adams	\$638.75
Richard W. Baker	593.16
Frank C. Hoyle	320.08
Charles F. Kennen	547.50

James W. Moore	520.00	
James D. Shaw	638.75	\$3,258.24
For Insp. and Con. of Buildings Department:		
Henry S. Baker	\$234.75	
William K. Follett	122.74	
Elliott A. Rich	312.58	\$670.07
For Police Department:		
Amos Atkinson	\$900.00	
Daniel E. Burbank	469.06	
Michael F. Cody	531.83	
Genery T. Darling	532.90	
James Donahue	547.50	
Michael G. Donahue	531.83	
John Dunn	266.14	
Edson Fairbanks	456.25	
M. J. Foley	501.91	
William Hickey	48.39	
John Keyes	501.91	
John B. Legasey	501.91	
Eneas Lombard	238.50	
Joseph McCarthy	244.78	
Addison March	96.26	
David A. Matthews	1,250.00	
Joseph Midgley	237.34	
Frank W. Millett	501.91	
James O'Connor	267.78	
John O'Connor	547.50	
Patrick Ryan	501.91	
Alfred A. Sanderson	451.97	
Henry B. Streeter	501.91	
James J. Tierney	547.50	
John Walker	536.19	
Matthew Walsh	650.00	\$12,363.13
For School Department:		
Henry Bauer	\$120.21	
George A. Brown	11.09	
Prescott G. Brown	409.43	
Henry E. Fayerweather	600.00	
Edward E. Houghton	510.19	\$1,650.92
For Sewer Department:		
James Carney	\$377.26	
John Kane	357.69	
Patrick McQueeney	164.36	\$899.31
For Street Department:		
Augustus A. Beaney	\$600.00	
Fordis O. Bushnell	549.29	
Martin Dowd	214.09	
James Hannigan	78.41	
Charles H. Hildreth	625.58	
James Hines	318.98	
Patrick Hogan	249.20	
Julius F. Knight	347.12	
Owen McCarthy	111.21	

Thomas Powers.....	158.95	
John Quinan.....	271.88	
William Rockett.....	234.60	
Adam Sweeney.....	167.95	\$3,927.26
For Water Department:		
Redmond Barrett.....	\$98.82	
Jeremiah Courtney.....	827.72	
Frederick L. Fuller.....	469.50	
Louis B. Hopkins.....	118.24	\$1,008.78
Total as per item No. 80 of expenses.....		\$24,773.30
Balance November 30, 1917.....		\$206.48

POLICE DEPARTMENT (Pay Rolls)

Balance November 30, 1916.....	\$1,047.88	
Appropriation.....	280,000.00	
Amount transferred from liquor licenses.....	7,500.00	
		\$288,547.88

RECEIVED

For Ambulance service.....	\$4.00	
Fines, costs, etc., from Central District Court.....	12,362.69	
Special services of officers.....	5,530.54	
		\$17,897.23
Service Transfers—Sundry Departments:		
Services of officers.....	\$2,322.03	\$2,322.03
Total as per item No. 68 of receipts.....		\$20,219.26
		\$308,767.14

EXPENDED

For Salary of Chief—George H. Hill.....	\$3,000.00
Salary of Deputy Chief—Thomas F. McMurray.....	2,300.00
Salary of Captain—William A. Condy.....	1,800.00
Salary of Captain—Walter N. Drohan.....	1,800.00
Salary of Captain—James T. Johnson.....	1,800.00
Salary of Captain of Detectives—Patrick F. O'Day.....	1,800.00
Salary of inspectors.....	12,804.44
Salary of lieutenants.....	9,600.00
Salary of sergeants.....	18,200.00
Salary of surgeons.....	4,200.00
Salary of substitute surgeons.....	365.66
Salary of electrician.....	250.00
Salary of matrons.....	1,400.00
Salary of substitute matrons.....	26.34
Pay rolls—patrolmen.....	244,191.87
Pay rolls—police women.....	1,016.00
Pay rolls—attendants.....	987.00
Pay rolls—clerical services.....	1,780.00
Pay rolls—fireman.....	55.00

Pay rolls—janitress	192.00	
Refund—services patrolman	5.00	
		<hr/>
Total as per item No. 81 of expenses		\$307,572.81
Balance November 30, 1917		<hr/>
		\$1,194.88

POLICE DEPARTMENT (Cloth, Caps and Helmets)

Balance November 30, 1916	\$2.57	
		<hr/>
		\$2.57

RECEIVED

For Badges for special police	\$209.00	
Cloth	790.09	
		<hr/>
		\$999.09
Service Transfers—Sundry Departments:		
Badges for special police	\$7.50	\$7.50
		<hr/>
Total as per item No. 69 of receipts		\$1,006.59
		<hr/>
		\$1,009.16

EXPENDED

For Badges	\$55.50	
Cloth	917.10	
Express	3.16	
		<hr/>
Total as per item No. 82 of expenses		\$975.76
Balance November 30, 1917		<hr/>
		\$33.40

POLICE DEPARTMENT (Miscellaneous)

Balance November 30, 1916	\$44.46	
Appropriation	24,000.00	
Amount transferred from liquor licenses	4,000.00	
		<hr/>
		\$28,044.46

RECEIVED

For Ambulance service	\$762.50
Ammunition and revolvers	3.16
Damage to traffic signs	79.50
Expenses of officers—Southbridge strike	56.80
Horse hire and car fares	315.50
Hot water heater	25.00
Keeping prisoners	7.00
Miscellaneous supplies and expenses	12.16
Motor boat numbers	19.63
Motorcycle hire	50.00
Printing, stationery and stamps	19.25
Reels	20.00
Refuse materials and junk	50.44
Reimbursement for picture	4.00
Reimbursement on various cases—Worcester County	73.85

Telegrams and telephone tolls.....	16.98
Traveling expenses.....	104.15
Uniform buttons.....	1.30
	<hr/>
	\$1,621.22

Service Transfers—Sundry Department- ments:	
Ammunition and revolvers.....	\$25.78
Heating Central District Court..	500.00
Telephone tolls.....	.85
	<hr/>
	\$526.63

Total as per item No. 70 of receipts.....	
	<hr/>
	\$2,147.85
	<hr/>
	\$30,192.31

EXPENDED

For Advertising and posting notices.....	\$3.50
Automobile—Cadillac.....	1,700.00
Automobile hire.....	21.25
Automobile insurance.....	80.58
Automobile repairs.....	6,099.11
Automobile supplies.....	3,142.32
Boat supplies and repairs.....	264.11
Books and subscriptions.....	98.00
Buttons, badges, belts and repairs.....	463.95
Cleaning.....	321.50
Clothing and repairs.....	329.80
Coal.....	1,674.76
Cordage, waste and packing.....	8.68
Damage to clothing—Howard Aubertin.....	5.25
Damage to clothing—John S. Bianchi.....	20.00
Damage to clothing—J. Leo Mulcahy.....	8.00
Damage to clothing—James Ryder.....	10.00
Disinfectants, etc.....	27.23
Dry goods and bedding.....	36.98
Electric light and power.....	1,228.71
Electrical repairs.....	195.02
Expense of officers—Southbridge strike.....	56.80
Express, freight and trucking.....	66.27
Furniture, fixtures and repairs.....	367.03
Gas.....	127.67
Handcuffs and repairs.....	135.00
Hardware, tools and repairs.....	115.28
Horse hire and car fares.....	397.55
Ice.....	90.78
Insurance on bonds.....	8.00
Janitorial supplies.....	719.30
Laundry work.....	290.55
Legal expenses.....	216.03
Lumber.....	4.37
Medical and surgical supplies.....	913.41
Membership dues.....	55.00
Miscellaneous supplies and expenses.....	78.34
Motorcycle licenses.....	17.00
Motorcycle repairs.....	515.83
Motorcycle supplies.....	219.20
Motorcycles.....	1,060.00
New England Telephone and Telegraph Co., rental and service.....	718.69

Oil—lubricating and grease	1.50
Paints and oils	4.65
Photographs and records of prisoners	122.25
Printing, stationery, stamps and supplies	938.83
Provisions for prisoners	802.53
Refreshments	33.00
Remodeling station 4	196.63
Removing ashes, rubbish and snow	92.85
Rent of garage	44.00
Rent of P. O. box	6.00
Rent of stores—Station 3, Grand St.	480.00
Rent of store—Station 4, Grove St.	260.00
Repairs and rent of sleigh	28.90
Revolvers, holsters and repairs and ammunition	369.62
Rubber goods	6.93
Services, detective	51.81
Signal boxes, supplies and repairs	948.33
Signs, sign boards and repairs	442.56
Sprinkling streets	37.49
Steel lockers	486.00
Target equipment and pistol range	41.25
Telegrams and telephone tolls	64.57
Traffic signals, supplies and repairs	1,035.23
Traveling expenses	196.68
Typewriters—Royal	118.20
Water rates	197.53
Wood	5.63
	<hr/>
	\$28,918.82

Service Transfers—Sundry Departments:

Automobile hire	\$1.00
Car fares	895.00
Engineers' services and materials	17.26
Extra labor	19.81
Paints and oils for safety zones	6.55
Removing snow	62.89
Repairs, fixtures	42.56
Signals, care of	121.20
Stationery, stamps and supplies	75.78
Traffic signal, repairs	25.09
Water connections	1.94
	<hr/>
	\$1,269.08

Total as per item No. 83 of expenses

\$30,182.90

Balance November 30, 1917

\$9.41

POLICE DEPARTMENT (New Police Stations)

Balance November 30, 1916

\$104,775.98

Appropriation from loan

85,000.00

\$189,775.98

RECEIVED

For Cement

\$128.26

Team work

9.00

Temporary water meter

7.91

\$140.17

Service Transfers—Sundry Departments:

Cement	\$31.50	
Old meters	28.00	\$59.50

Total as per item No. 71 of receipts		\$199.67
		<u>\$189,975.65</u>

EXPENDED

For Architect's services—George H. Clemence	\$4,705.31	
On contract building—John J. Power	79,807.35	
Extras on contract building—John J. Power ..	1,658.13	
On contract garage—L. Rocheford and Son ...	17,956.25	
Electrical work	38.00	
Hardware	824.45	
Making test borings	96.00	
Model seals for large court room	150.00	
Plans and specifications—heating and ventila-		
ting apparatus	69.42	
Services, expert engineer	60.00	
Stucco work	115.20	
Traveling expenses	20.58	

\$105,500.69

Service Transfers—Sundry Departments:

Engineers' services and materials .	\$51.65	
Horse hire and team work	15.75	
Labor and materials	541.98	
Water connections	245.50	\$854.88

Total as per item No. 84 of expenses		\$106,855.57
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Balance November 30, 1917		<u>\$83,620.08</u>
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PREMIUM ON CITY BONDS

RECEIVED

For Sale of bonds above par account of loans as		
per item No. 72 of receipts		\$1,990.95
Appropriated to serial fund	\$1,705.95	
Appropriated to serial water fund	285.00	
		<u>\$1,990.95</u>

PUBLIC LIBRARY DEPARTMENT (Salaries and Pay Rolls)

Balance November 30, 1916	\$2,441.68	
Appropriation	36,500.00	
		<u>\$38,941.68</u>

RECEIVED

For Amount of dog fund from County	\$5,101.97	
Wages uncalled for	1.35	
Total as per item No. 78 of receipts		<u>\$5,103.32</u>
		<u>\$44,045.00</u>

EXPENDED

For Salary of Librarian—Robert K. Shaw	\$3,591.66	
Salary of assistants	24,335.93	
Library service	6,012.29	
Library service, cataloguing department	2,169.95	
Janitorial service	6,914.45	
Messenger service	136.25	
Services, cataloguing, Herbert Putnam— Librarian, Congress	88.92	
Services, sub-stations	504.26	
	<u>\$48,753.71</u>	
Service, Transfers—Sundry Depart- ments:		
Removing snow	\$1.24	\$1.24
Total as per item No. 85 of expenses		<u>\$48,754.95</u>
Balance November 30, 1917		<u>\$290.05</u>

PUBLIC LIBRARY DEPARTMENT (Books and Periodicals)

Balance November 30, 1916	\$12.86	
Appropriation	15,000.00	
		<u>\$15,012.86</u>
		RECEIVED
For Books and periodicals	\$229.12	
Fines, catalogues, etc.	1,798.23	
Rebate on express . . . . .	.29	
Refuse materials and junk	99.51	
	<u>\$2,127.15</u>	
Total as per item No. 74 of receipts		<u>\$2,127.15</u>
		EXPENDED
For Binding books	\$4,483.66	
Books	10,702.04	
Periodicals	1,701.26	
Pictures	227.25	
	<u>\$17,114.21</u>	
Total as per item No. 86 of expenses		<u>\$17,114.21</u>
Balance November 30, 1917		<u>\$25.80</u>

PUBLIC LIBRARY DEPARTMENT (Heat, Light and Repairs)

Balance November 30, 1916	\$7.78	
Appropriation	6,500.00	
		<u>\$6,507.78</u>

RECEIVED

For Rent of land for swimming tank	\$10.00	
Refuse materials	5.50	
	<hr/>	
Total as per item No. 75 of receipts		\$15.50
		<hr/>
		\$6,523.28

EXPENDED

For Coal	\$2,211.77	
Electric light and power	1,769.68	
Electrical repairs	328.81	
Furniture, fixtures and repairs	428.81	
Gas	148.22	
Insurance	839.18	
Miscellaneous supplies .....	.25	
Oil—illuminating .....	.65	
Repairs, buildings	704.30	
Repairs, heating apparatus	70.06	
Wood	6.73	
	<hr/>	
	\$6,508.46	
Service Transfers—Sundry Departments:		
Furniture and repairs	\$14.26	
	<hr/>	
Total as per item No. 87 of expenses		\$6,522.72
		<hr/>
Balance November 30, 1917		\$.56

PUBLIC LIBRARY DEPARTMENT (Miscellaneous)

Balance November 30, 1916	\$266.43	
Appropriation	4,500.00	
	<hr/>	
		\$4,766.43
		<hr/>
		\$4,778.43

RECEIVED

For Telephone service	\$12.00	
	<hr/>	
Total as per item No. 76 of receipts		\$12.00
		<hr/>
		\$4,778.43

EXPENDED

For Adding machine—Wales	\$161.50
Car fares	111.85
Disinfectants	3.65
Express, freight and trucking	126.26
Flags, flagstuffs and repairs	66.20
Ice	48.63
Janitorial supplies	266.78
Labor on grounds, loam, etc.	11.80
Laundry work	59.21
Miscellaneous supplies and expenses	71.82
New England Telephone and Telegraph Co., rental and service	69.62
Oil—lubricating and grease .....	.50
Postage, sub-stations	14.08

Printing, stationery, stamps and supplies....	2,536.05
Removing ashes and rubbish.....	120.46
Rent of P. O. box.....	8.00
Rent of room, Lake View.....	156.00
Sprinkling streets.....	21.21
Trucking, sub-stations.....	588.05
Water rates.....	284.31

\$4,725.98

Service Transfers—Sundry Departments:

Sand.....	\$4.18	
Stationery, stamps and supplies....	40.31	\$44.49

Total as per item No. 88 of expenses.....		\$4,770.47
Balance November 30, 1917.....		\$7.96

PUBLIC LIBRARY DEPARTMENT (Green Library Book Account)

Balance November 30, 1916.....	\$1,155.14	
		\$1,155.14

RECEIVED

For Net income from trustees of Public Library	\$2,405.27	
Total as per item No. 77 of receipts.....		\$2,405.27
		\$3,560.41

EXPENDED

For Binding books.....	\$142.50	
Books.....	1,330.93	
Periodicals.....	206.88	
Pictures.....	660.57	
Rent of safe deposit box.....	4.00	
Total as per item No. 89 of expenses.....		\$2,344.88
Balance November 30, 1917.....		\$1,215.53

PUBLIC LIBRARY DEPARTMENT (Reading Room Fund)

Balance November 30, 1916.....	\$25.42	
		\$25.42

RECEIVED

For Net income from trustees of Public Library.	\$444.45	
Total as per item No. 78 of receipts.....		\$444.45
		\$469.87

EXPENDED

For Periodicals.....	\$126.12	
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Total as per item No. 90 of expenses.....	<u>\$126.12</u>
Balance November 30, 1917.....	<u>\$348.75</u>

REAL ESTATE LIEN ACCOUNT

Balance November 30, 1916.....	\$2,571.97	
EXPENDED		
For real estate sold for taxes and purchased by the collector as per item No. 91 of expenses	<u>\$236.31</u>	
		\$2,808.28
RECEIVED		
For Amount of taxes and charged in redemption as per item No. 79 of receipts.....		<u>\$240.16</u>
Balance November 30, 1917.....		<u>\$2,568.12</u>

REAL ESTATE SALES

For Sale—hen house to J. F. Reidy	\$18.00	
For Sale—Sherman house on Warden Street to A. R. Bianchi	371.00	
For Sale—Dickinson house on Plantation Street to L. Mansolillo	350.00	
For Sale—land on Standish Street to W. A. Beaudette.....	350.00	
For Sale—Sundin house on Upsala Street to Samuel Perman.....	<u>2,000.00</u>	
Total as per item No. 80 of receipts		\$3,084.00
Appropriated by order of the City Council:		
City Hospital.....	\$2,000.00	
City Messenger Dept.....	200.00	
Health Dept. (Belmont Hospital).....	584.00	
Sewer Dept. (Construction).....	<u>350.00</u>	
		\$3,084.00

SCHOOLS (Salaries)

Balance November 30, 1916.....	\$931.43	
Appropriation.....	835,000.00	
Appropriation from corporation tax.....	<u>13,500.00</u>	
		\$849,431.43
RECEIVED		
For Return of money received on account of sabbatical leave.....	\$240.00	
Teachers' salaries returned to treasury.....	77.50	
Tuition.....	<u>6,021.25</u>	
Total as per item No. 81 of receipts.....		<u>\$6,338.75</u>
		<u>\$855,770.18</u>

EXPENDED

For Salary of Superintendent—Homer P. Lewis..	\$4,400.00	
Salary of Superintendent—pension to Commonwealth.....		100.00
Salary of Asst. Superintendent—John F. Gannon.....	3,000.00	
Salary of Asst. Superintendent—Alice L. Harris.....	3,000.00	
Salary of Asst. Superintendent—Walter S. Young.....	3,000.00	
Salary Clerk of School Committee—Joseph Beals.....	2,991.66	
Salary of Inspector—Edward J. Goodwin...	1,483.32	
Supervisor of Attendance—Edith M. Dixon.	1,062.48	
Truant officers.....	4,949.85	
Pay rolls—teachers.....	793,377.09	
Pay rolls—teachers pensions to Commonwealth	25,621.63	
Pay rolls—teachers vacation school.....	3,721.50	
Clerical service.....	4,794.11	
Canvassers—taking school census.....	1,026.88	
Services of page to school committee.....	39.00	
Truckman.....	1,317.00	
Total as per item No. 92 of expenses.....		<u>\$853,884.52</u>
Balance November 30, 1917.....		<u>\$1,885.66</u>

SCHOOLS (Salaries, Janitors)

Balance November 30, 1916.....	\$478.33	
Appropriation.....	78,000.00	
		<u>\$78,478.33</u>

RECEIVED

For Services janitors.....	\$77.70	
		<u>\$77.70</u>
Service Transfers—Sundry Departments:		
Services, janitors.....	\$72.50	\$72.50
Total as per item No. 82 of receipts.....		<u>\$150.20</u>
		<u>\$78,628.53</u>

EXPENDED

For Pay rolls—janitors.....	\$75,053.59	
Pay rolls—evening schools.....	3,010.40	
Pay rolls—vacation school.....	150.00	
Total as per item No. 93 of expenses.....		<u>\$78,213.99</u>
Balance November 30, 1917.....		<u>\$414.54</u>

SCHOOLS (Text-books, Stationery and Supplies)

Balance November 30, 1916.....	\$40.38	
Appropriation.....	45,000.00	
		<u>\$45,040.38</u>

RECEIVED

For Blank books, stationery and supplies	\$201.97	
Books	267.71	
Platinum	58.50	
Typewriter	40.00	
		<hr/>
Service Transfers—Sundry Departments:	\$568.18	
Blank books, stationery and supplies \$65.37		
Books	1.05	
Drawing materials	21.90	
Typewriter	50.00	
		<hr/>
Total as per item No. 83 of receipts		\$706.50
		<hr/>
		\$45,746.88

EXPENDED

For Adding machine—Wales	\$218.25	
Apparatus and material for illustration	1,387.17	
Binding books	465.10	
Blackboard erasers and cloth	75.00	
Books	21,720.23	
Busy work	194.79	
Comptometers	500.00	
Dictaphones and supplies	306.30	
Drawing materials and models	3,845.38	
Ice . . . . .	.32	
Kindergarten supplies	283.14	
Laboratory apparatus and supplies	2,452.05	
Miscellaneous supplies	36.96	
Pencils, pens and holders	1,513.88	
Pianos	785.00	
Scissors and repairs	279.60	
Special school supplies	314.44	
Stationery and supplies	9,342.19	
Stenotypes	245.00	
Subscriptions	122.40	
Typewriters	1,575.00	
Victrola and records	49.25	
		<hr/>
	\$45,711.45	
Service Transfers—Sundry Departments:		
Laboratory apparatus	\$4.96	
Repairs, piano	2.66	
		<hr/>
	\$7.62	
Total as per item No. 94 of expenses		\$45,719.07
		<hr/>
Balance November 30, 1917		\$27.81

SCHOOLS (Printing and Miscellaneous)

Balance November 30, 1916	\$249.29	
Appropriation	9,500.00	
		<hr/>
		\$9,749.29

RECEIVED

For Car tickets	\$48.38	
Paper towels	5.00	
Refund freight bills.....	6.72	
Telephone tolls.....	3.24	
		<hr/>
Total as per item No. 84 of receipts.....		\$63.34
		<hr/>
		\$9,812.63

EXPENDED

For Automobile hire.....	\$36.00	
Baskets and whisk brooms.....	11.50	
Books and subscriptions.....	92.63	
Care of pianos.....	250.00	
Electric power.....	10.20	
Express, freight and trucking.....	497.42	
Flower gardens.....	20.25	
Furniture, fixtures and repairs.....	242.11	
Gas.....	243.40	
Graduation expenses.....	407.81	
Gymnasium apparatus, supplies and expenses.....	1,151.14	
Home industries exhibition.....	274.87	
Laundry work.....	114.20	
Miscellaneous supplies and expenses.....	57.61	
New England Telephone and Telegraph Co., rental and service.....	1,291.21	
Open air school supplies.....	3.14	
Printing, stationery and supplies.....	2,697.60	
Soap, towels, piano and desk covers and dusters.....	549.40	
Transportation of pupils.....	890.50	
Traveling expenses.....	229.86	
Typewriters.....	50.00	
		<hr/>
		\$9,120.85
Service Transfers—Sundry Departments:		
Car fares.....	\$210.00	
Furniture.....	20.00	
Gymnasium equipment.....	16.00	
Postals.....	11.50	
Stamps and stamped envelopes.....	385.90	
Stationery and supplies.....	20.00	
		<hr/>
		\$663.40
Total as per item No. 95 of expenses.....		\$9,784.25
		<hr/>
Balance November 30, 1917.....		\$28.38

SCHOOLS (Truant School)

Balance November 30, 1916.....	\$361.82	
Appropriation.....	2,400.00	
Amount transferred from liquor licenses.....	125.00	
		<hr/>
		\$2,886.82

EXPENDED

For Care of truants.....	\$2,867.89	
Total as per item No. 96 of expenses.....		\$2,867.89
Balance November 30, 1917.....		\$18.98

SCHOOLS (Manual Training)

Balance November 30, 1916.....	\$1,210.57	
Appropriation.....	4,000.00	
		\$5,210.57

RECEIVED

For Lumber.....	\$48.79	
Refreshments—School Committee.....	13.14	
Total as per item No. 85 of receipts.....		\$61.98
		\$5,272.50

EXPENDED

For Basketry materials.....	\$32.64	
Books.....	1.50	
Carpentering and lumber.....	1,090.20	
Coal for cooking schools.....	18.70	
Cobblers' supplies.....	.85	
Cooking apparatus and supplies.....	1,310.77	
Drawing materials.....	98.10	
Electric power.....	78.13	
Electrical repairs.....	153.33	
Furniture, fixtures and repairs.....	2.18	
Gas.....	385.20	
Hardware, tools and repairs.....	470.18	
Ice for cooking schools.....	95.80	
Laundry work for cooking schools.....	79.11	
Machinery, belting and repairs.....	80.80	
Medical and surgical supplies.....	9.40	
Miscellaneous supplies.....	14.44	
Oil—lubricating.....	2.55	
Paints and oils.....	101.28	
Printing, stationery and supplies.....	81.76	
Printing supplies.....	34.46	
Sewing supplies.....	510.52	
Whittling supplies.....	717.43	
	\$5,259.33	
Service Transfers—Sundry Departments:		
Postals.....	\$1.50	
Sewing supplies.....	10.84	\$12.34
Total as per item No. 97 of expenses.....		\$5,271.67
Balance November 30, 1917.....		\$.83

SCHOOLS (Evening Schools)

Balance November 30, 1916.....	\$1,273.20	
Appropriation.....	29,000.00	
	<hr/>	\$30,273.20
EXPENDED		
For Pay rolls—teachers.....	\$23,698.44	
Advertising.....	59.40	
Books.....	1,022.68	
Carpentering and lumber.....	250.86	
Cooking apparatus and supplies.....	293.10	
Drawing materials.....	16.67	
Electrical supplies.....	8.08	
Graduation expenses.....	163.00	
Paints and oils.....	1.85	
Posting notices.....	12.00	
Printing, stationery and supplies.....	500.02	
Typewriters.....	340.00	
	<hr/>	\$26,361.10
Service Transfers—Sundry Departments:		
Postals.....	\$2.00	
Stamps.....	10.80	
	<hr/>	\$12.80
Total as per item No. 98 of expenses.....		<hr/>
		\$26,373.90
Balance November 30, 1917.....		<hr/>
		\$3,899.30

SCHOOLS (Industrial Schools)

Balance November 30, 1916.....	\$298.28	
Appropriation.....	13,000.00	
Appropriation from loan.....	65,000.00	
	<hr/>	\$78,298.28
RECEIVED		
For Special allowance on generator—equipment..	\$249.00	
	<hr/>	
Total as per item No. 86 of receipts.....		\$249.00
		<hr/>
		\$78,547.28
EXPENDED		
For Construction:		
Ventilator.....	\$7.35	
	<hr/>	\$7.35
For Girls' School—Construction:		
Electrical supplies.....	\$3.90	
Land, High St.—Roger C. Aldrich.....	8,333.33	
Land, High St.—Ellen F. Kennedy.....	45,000.00	
Land, High St.—Grace E. Radway and Roger C. Aldrich.....	8,333.34	
Land, High St.—William S. Rad- way.....	8,333.33	
Recording deeds.....	8.01	

Remodeling tenement.....	63.34	
Rent of property—Hester N. Wetherell Estate.....	\$1,050.00	
Taxes—part (Kennedy property).....	420.52	
Taxes (Wetherell property).....	630.51	\$72,176.28

Service Transfers—Sundry Departments:		
Engineers' services.....	\$17.87	\$17.87

For Equipment:

Belting.....	\$7.38	
Electrical supplies and electric machinery.....	1,531.44	
Express, freight and trucking.....	18.55	
Flag.....	10.80	
Furniture and fixtures.....	174.04	
Gymnasium apparatus and supplies.....	1.28	
Hardware and tools.....	921.38	
Laboratory apparatus and supplies.....	34.08	
Machinery and pumps.....	1,810.97	
Materials for automobile instruction.....	125.00	
Printing press.....	289.10	
Printing supplies.....	509.65	
Stationery and supplies.....	75.00	\$5,508.67

For Girls' School Equipment:

Adding machine—Wales.....	\$181.87	
Cooking apparatus and supplies..	7.00	
Electrical work.....	50.00	
Furniture and fixtures.....	16.23	
Insurance.....	13.50	
Sewing supplies.....	7.00	\$275.60

Total as per item No. 99 of expenses..... \$77,985.77

Balance November 30, 1917..... \$561.51

SCHOOLS (Industrial Schools Maintenance, Boys)

Balance November 30, 1916..... \$2,492.22
 Appropriation..... 83,000.00

\$35,492.22

RECEIVED

For Amount allowed from Commonwealth..... \$24,429.88
 Handicraft work..... 197.89
 Labor and materials..... 1,972.85
 Refuse materials and junk..... 8.00
 Rent of hall and gymnasium..... 575.86
 Stationery and supplies..... 24.10
 Tuition..... 18,952.06

\$46,159.14

Service Transfers—Sundry Departments:
 Furniture, fixtures and repairs... \$2.00
 Gymnasium equipment..... 16.00

Making and hanging doors	354.00	
Printing, stationery and supplies	185.70	\$557.70
Total as per item No. 87 of receipts		\$46,716.84
		<hr/>
		\$82,209.06

EXPENDED

For Salary, Director—Albert J. Jameson	\$3,100.00
Salary, Director, pension to Commonwealth	100.00
Salary, janitors	2,080.39
Pay rolls—instructors	36,222.13
Pay rolls—instructors, pensions to Commonwealth	559.12
Pay rolls—engineer	1,279.80
Advertising	56.63
Automobile hire	10.00
Books and subscriptions	319.03
Car fares	17.40
Castings and patterns	1,391.75
Cleaning	101.25
Coal	2,303.00
Cordage, waste and packing	243.87
Disinfectants	56.60
Drawing materials	492.97
Electric light	152.17
Electric power	592.09
Electrical supplies and repairs, electric machinery	2,481.96
Engines, machinery, belting and repairs	509.25
Express, freight and trucking	296.90
Extra labor	138.01
Flag decorations—Spanish War Statue Dedication	75.00
Flags, flagstuffs and repairs	9.40
Furniture, fixtures and repairs	197.58
Gas	118.49
Graduation expenses	33.35
Gymnasium apparatus and supplies	868.27
Hardware, tools and repairs	2,388.51
Insurance	7.50
Iron and steel	1,484.29
Janitorial supplies	286.33
Laundry work	9.64
Lecture and moving picture expenses	29.38
Lumber and carpentering	2,281.28
Materials for automobile instruction	75.84
Medical and surgical supplies	30.48
Miscellaneous supplies and expenses	10.50
New England Telephone and Telegraph Co., rental and service	61.22
Oil—illuminating and gasolene	120.72
Oil—lubricating and grease	274.34
Paints and oils	297.91
Photographs and photographic supplies	179.85
Physical examinations	248.00
Pipe and fittings	296.68
Printing, stationery, stamps and supplies	566.41

Printing supplies.....	1,085.75
Refreshments.....	1.00
Removing snow, ashes and rubbish.....	24.00
Rent of piano.....	101.00
Repairs, buildings.....	975.61
Repairs, heating apparatus.....	458.22
Services, stenographer.....	4.25
Shop supplies.....	189.48
Sprinkling streets.....	51.88
Telegrams and telephone tolls.....	7.60
Traveling expenses.....	230.88
Water rates.....	223.32

\$65,308.18

Service Transfers—Sundry Departments:

Overleaves.....	\$16.15	
Removing snow.....	38.53	
Stationery, stamps and supplies..	76.35	\$131.03

Evening Schools:

Salary—supervisor.....	\$390.00	
Pay rolls—instructors.....	7,308.75	
Pay roll—janitor.....	156.00	
Advertising.....	20.65	
Coal.....	179.67	
Electric light.....	161.23	
Electric power.....	155.30	
Electrical supplies.....	10.73	
Hardware, tools and repairs.....	72.12	
Iron and steel.....	143.92	
Materials for automobile instruction.....	309.00	
Moving picture expenses.....	1.65	
Printing, stationery, stamps and supplies.....	2.40	
Water rates.....	24.27	\$8,985.69

Total as per item No. 100 of expenses..... \$74,374.90

Balance November 30, 1917..... \$7,884.16

SCHOOLS (Industrial Schools, Maintenance, Girls)

Balance November 30, 1916.....	\$2,155.54
Appropriation.....	14,000.00

\$16,155.54

RECEIVED

For Amount allowed from Commonwealth.....	\$18,566.12
Cooking supplies.....	2,692.02
Express and trucking.....	1.35
Gas.....	4.65
Janitorial supplies.....	5.20
Millinery supplies.....	237.23
Miscellaneous supplies.....	.22
Printing, stationery, stamps and supplies....	2.62
Sewing supplies.....	4,644.44

Telegrams and telephone tolls.....	4.10	
Tuition.....	3,027.86	
		<u>\$24,185.81</u>
Service Transfers—Sundry Departments:		
Repairs furniture.....	\$4.50	
Sewing supplies.....	26.99	\$31.49
		<u> </u>
Total as per item No. 88 of receipts.....		\$24,217.30
		<u>\$40,372.84</u>

EXPENDED

For Salary, Director—Helen R. Hildreth.....	\$2,699.99
Pay rolls—instructors.....	20,590.43
Pay rolls—instructors' pensions to Commonwealth.....	248.25
Pay rolls—janitors.....	1,836.60
Books and subscriptions.....	79.27
Car fares.....	23.18
Cleaning.....	165.80
Coal.....	1,041.64
Cooking supplies.....	2,416.86
Drawing materials.....	35.80
Electric light.....	86.05
Electric power.....	32.99
Electrical repairs.....	16.16
Express, freight and trucking.....	73.51
Furniture, fixtures and repairs.....	52.85
Gas.....	124.78
Graduation expenses.....	7.20
Gymnasium supplies.....	1.40
Hardware, tools and repairs.....	28.65
Ice.....	30.83
Insurance.....	5.40
Janitorial supplies.....	214.65
Labor on grounds, etc.....	7.10
Laundry work.....	71.02
Medical and surgical supplies.....	3.11
Millinery supplies.....	178.05
Miscellaneous supplies and expenses.....	90.97
New England Telephone and Telegraph Co., rental and service.....	18.15
Paints and oils.....	5.37
Photographs.....	32.45
Printing, stationery, stamps and supplies.....	193.50
Refreshments.....	43.00
Removing ashes, rubbish and snow.....	28.27
Repairs, building.....	121.44
Repairs, heating apparatus.....	39.00
Services, stenographer.....	4.25
Sewing machines, belting and repairs.....	48.26
Sewing supplies.....	2,010.34
Traveling expenses.....	83.03
Victrola supplies.....	1.00
Water rates.....	67.58
	<u>\$32,858.18</u>

Service Transfers—Sundry Departments:		
Drawing materials	\$21.90	
Exterminating moths and beetles .	8.40	
Furniture, fixtures and repairs....	2.00	
Printing, stationery, stamps and supplies	159.40	
Removing snow	24.64	\$211.34
<hr/>		
For Evening Schools:		
Salary, supervisor	\$409.53	
Pay rolls—instructors	3,421.00	
Pay rolls—janitors	283.00	
Books	1.10	
Car fares	1.40	
Coal	218.09	
Cooking supplies	72.11	
Electric light	74.19	
Electric power	1.70	
Electrical repairs	1.80	
Gas	2.95	
Janitorial supplies	5.25	
Millinery supplies	7.31	
Miscellaneous supplies and expen- ses	9.15	
Printing, stationery and supplies..	18.34	
Sewing supplies	103.60	\$4,630.52
<hr/>		
Service Transfers—Sundry Departments:		
Printing, stationery, stamps and supplies	\$33.32	\$33.32
<hr/>		
Total as per item No. 101 of expenses		\$37,733.86
<hr/>		
Balance November 30, 1917		\$2,639.48

SCHOOLHOUSES

Balance November 30, 1916	\$90,015.57	
Appropriation	22,000.00	
<hr/>		
		\$112,015.57
RECEIVED		
For Bloomingdale—concrete footings in boiler pit omitted	\$10.53	
Bloomingdale—hardware allowance	175.00	
Midland Street—umbrella holders	4.95	
<hr/>		
		\$190.48
Service Transfers—Sundry Departments:		
Burncoat—hardware	\$85.00	
Burncoat—old meter	6.00	\$91.00
<hr/>		
Total as per item No. 89 of receipts		\$281.48
<hr/>		
		\$112,297.05

EXPENDED

For Adams Square:

Service Transfers—Sundry Departments:		
Granolithic walk.....	\$129.48	\$129.48

For Adams Street:

Pay rolls—laborers.....	\$5.42	
Trucking.....	1.00	\$6.42

Service Transfers—Sundry Departments:		
Hardware.....	\$16.86	\$16.86

For Bloomingdale:

Pay rolls—laborers.....	\$121.57	
Architects' services.....	550.08	
On contract additions—James Miles and Son Co.....	6,658.75	
Extras on contract additions—James Miles and Son Co.....	784.60	
On contract, heating and ventilating apparatus—M. J. Maher and Co.....	2,876.30	
On contract, plumbing—M. J. Maher and Co.....	2,025.20	
Furniture and fixtures.....	780.00	
Hardware.....	277.70	
Land, Tampa St.—Emile Sevestre	600.00	
Plans and specifications—heating and ventilating apparatus.....	98.80	
Plumbing supplies.....	1.56	
Recording deed.....	.67	
Trucking.....	10.80	\$14,230.98

Service Transfers—Sundry Departments:		
Engineers' services and materials.....	\$11.54	
Furniture.....	148.16	
Labor and materials.....	39.60	
Services, janitors—School Department.....	72.50	
Sewer pipe.....	.81	\$272.61

For Burncoat:

Pay rolls, laborers.....	\$50.44	
Architects' services.....	110.00	
On contract building—L. Rocheford and Son.....	25,865.50	
Extras on contract building—L. Rocheford and Son.....	142.95	
On contract grading—Michael J. Kane.....	5,142.00	
Extras on contract grading—Michael J. Kane.....	218.06	
On contract heating and ventilating apparatus—M. D. Holmes and Sons Co.....	4,654.00	
Extras on contract heating and ventilating apparatus—M. D. Holmes and Sons Co.....	33.00	

Electrical work.....	104.00	
Furniture.....	1,234.50	
Hardware.....	948.16	
Insurance.....	150.00	
Land—J. B. Shattuck.....	1,440.00	
Lumber.....	10.16	
Plans and specifications, heating and ventilating apparatus.....	93.08	
Plumbing supplies.....	1.13	
Recording deed.....	\$2.07	
Trucking.....	50.85	\$40,249.90
<hr/>		
Service Transfers—Sundry Departments:		
Engineers services and materials.....	\$164.72	
Furniture.....	392.50	
Labor and materials.....	18.80	
Water connections.....	23.81	\$599.83
<hr/>		
For Chatham Street:		
Rent of gymnasium Y. W. C. A..	\$57.00	\$57.00
<hr/>		
For Classical High:		
Recording deed.....	\$2.00	\$2.00
<hr/>		
Service Transfers—Sundry Departments:		
Engineers' services.....	\$4.77	\$4.77
<hr/>		
For Front Street:		
Rent of room for mechanical drawing—E. A. Brewer.....	\$541.67	\$541.67
<hr/>		
For Gates Lane:		
Pay rolls—laborers.....	\$21.24	
Moving portable schoolhouse.....	255.00	
Trucking.....	2.50	\$278.74
<hr/>		
Service Transfers—Sundry Departments:		
Engineers' services.....	\$14.51	
Labor.....	1.92	
Team work.....	3.00	\$19.43
<hr/>		
For Grafton Street:		
Pay rolls—laborers.....	\$25.17	
Moving portable schoolhouse.....	245.00	
Trucking.....	6.00	\$276.17
<hr/>		
For Greendale:		
Pay rolls—laborers.....	\$7.34	
Moving portable schoolhouse.....	190.00	
Trucking.....	1.25	\$198.59
<hr/>		
For Harlow Street:		
Pay rolls—laborers.....	\$62.37	
Electrical work.....	175.00	
Hardware.....	2.34	
Trucking.....	1.00	\$240.71
<hr/>		

Service Transfers—Sundry Departments:		
Labor and materials	\$19.98	\$19.98
For Ionic Avenue:		
Rent of gymnasium—Worcester		
Boys' Club	\$30.50	\$30.50
For Malvern Road:		
Service Transfers—Sundry Departments:		
Engineers' services	\$1.41	\$1.41
For May Street:		
Recording deeds	\$1.50	\$1.50
Service Transfers—Sundry Departments:		
Engineers' services	\$40.63	\$40.63
For Midland Street:		
Pay rolls—laborers	\$5.18	
Furniture and fixtures	64.00	
Hardware and tools	3.88	
Trucking	8.00	\$76.01
Service Transfers—Sundry Departments:		
Fixtures	\$159.43	
Granolithic walk	348.73	\$508.16
For Sunderland Road:		
Architects' services	\$500.00	
Recording deeds	1.50	\$501.50
Service Transfers—Sundry Departments:		
Engineers' services	\$22.49	\$22.49
For Tatnuck:		
Moving portable schoolhouse	\$195.00	\$195.00
Service Transfers—Sundry Departments:		
Granolithic walk	\$375.22	\$375.22
For Upsala Street:		
Pay rolls—laborers	\$29.22	
Moving portable schoolhouse	240.00	
Trucking	8.75	\$277.97
Service Transfers—Sundry Departments:		
Furniture	\$114.00	\$114.00
For West Boylston Street:		
Fixtures	\$125.00	\$125.00
Estimating cost of six room school-		
houses	\$9.00	\$9.00
Total as per item No. 102 of expenses		\$59,422.98
Balance November 30, 1917		\$52,874.07

SCHOOLHOUSES (High Schools)

Balance November 30, 1916.....	\$55,426.88	
Appropriation from public institution tax.....	264.88	
		<u>\$55,691.71</u>
EXPENDED		
For North High:		
Pay rolls—laborers.....	\$609.10	
Architects' services—John T. Simpson.....	1,042.11	
On contract building—Israel Goldman.....	24,584.62	
Extras on contract building—Israel Goldman.....	5,729.15	
On contract lockers—Durand Steel Locker Co., Inc.....	4,849.00	
Electric lighting fixtures.....	487.56	
Electrical work.....	2,058.47	
Express, freight and trucking.....	76.54	
Furniture and fixtures.....	14,526.70	
Hardware.....	109.84	
Laboratory apparatus.....	93.67	
Lumber.....	285.89	
Masonry.....	33.70	
Paints, oils and painting.....	495.01	
Plumbing supplies.....	170.58	
Ventilating apparatus.....	49.00	
		<u>\$55,150.94</u>
Service Transfers—Sundry Departments:		
Engineers' services and materials.....	\$.50	
Furniture.....	3.75	
Granolithic walk.....	386.09	
Labor and materials.....	72.43	
		<u>\$462.77</u>
Total as per item No. 108 of expenses.....		<u>\$55,613.71</u>
Balance November 30, 1917.....		<u>\$78.00</u>

SEALER OF WEIGHTS AND MEASURES DEPARTMENT

Balance November 30, 1916.....	\$28.26	
Appropriation.....	4,800.00	
Amount transferred from liquor licenses.....	600.00	
		<u>\$5,428.26</u>
RECEIVED		
For Fees for sealing weights and measures.....	\$1,642.60	
Refund overpayment automobile registration.....	3.00	
		<u>\$1,645.60</u>
Service Transfers—Sundry Departments:		
Clerical service.....	\$22.39	
Fees for sealing weights and measures.....	14.93	
		<u>\$37.32</u>
Total as per item No. 90 of receipts.....		<u>\$1,682.92</u>
		<u>\$7,111.18</u>

EXPENDED

For Salary of Sealer of Weights and Measures—		
James A. Healey	\$1,400.00	
Salary of deputy sealers	3,865.90	
Clerical service	806.00	
Advertising	11.44	
Automobile—Buick	625.00	
Automobile hire	5.00	
Automobile insurance	47.04	
Automobile license and registration	18.00	
Automobile repairs	221.65	
Automobile supplies	189.97	
Books and subscriptions	4.00	
Express, freight and trucking .....	.15	
Hardware, tools and repairs	106.24	
Insurance on bond	2.40	
Miscellaneous supplies and expenses	6.85	
New England Telephone and Telegraph Co., rental and service	7.60	
Printing, stationery and supplies	81.23	
Rent of garage	138.00	
Scales, measures and repairs	64.87	
Traveling expenses	6.24	
	<hr/>	\$7,052.08
Service Transfers—Sundry Departments:		
Car fares	\$11.00	
Stationery, stamps and supplies ..	20.40	\$31.40
	<hr/>	
Total as per item No. 104 of expenses		\$7,083.48
		<hr/>
Balance November 30, 1917		\$27.70

SEWER ASSESSMENTS

Balance uncollected November 30, 1916	\$61,940.20	
Amount assessed since November 30, 1916	22,596.89	
	<hr/>	\$84,536.59
Abatements since November 30, 1916		1,220.88
		<hr/>
		\$83,315.76

RECEIVED

From sundry persons for assessments and transferred to Sewer Dept. (Construction) as per item No. 92 of receipts		\$37,950.77
		<hr/>
Amount uncollected November 30, 1917		\$45,864.99

SEWER DEPARTMENT (Construction)

Balance November 30, 1916	\$8,736.61	
Appropriation	20,000.00	
Amount transferred from real estate sales	350.00	
Amount transferred from sewer assessments	87,950.77	
	<hr/>	\$67,087.38

RECEIVED

For Labor, materials, rent of tools, etc.....	\$8,726.62
Automobiles.....	300.00
Automobile repairs.....	40.14
Refund automobile registration.....	5.00
Refund overpayment freight bill.....	.68
Wages uncalled for.....	1.47

\$9,078.91

Service Transfers—Sundry Departments:

Automobile hire.....	\$4.41
Brick, cement and lime.....	2,461.42
Building and repairs, sewers and catch-basins.....	2,677.27
Furniture.....	4.00
Labor and materials.....	437.60
Rent of tools and machinery.....	33.50
Rubber goods.....	19.92
Sewer pipe and fittings.....	71.50
Trucking.....	1.50
Water connections and repairs.....	40.75

\$5,751.87

Service Transfers—Sewer Department:

Salary Superintendent.....	\$2,435.24
Clerical service.....	1,845.69
General department expenses.....	1,082.00
Office supplies and expenses.....	196.51
Automobile hire.....	5,323.44
Engineers' services.....	584.79
Labor.....	195.25
Machine labor.....	36.12
Maintenance of shop and use of tools.....	2,121.14
Materials.....	9,246.37
Oatmeal.....	39.92
Rent of machinery.....	607.50
Rubber goods.....	613.43
Team work.....	2,736.17

\$27,063.57

Total as per item No. 93 of receipts.....

\$41,889.35

\$108,926.73

EXPENDED

For Salary of Superintendent—Matthew Gault..	\$3,000.00
Pay rolls—foremen and laborers.....	38,663.51
Pay rolls, vacations—Acts of 1914.....	879.34
Clerical service.....	2,806.82
Advertising.....	55.65
Automobile—Buick.....	1,450.00
Automobile hire.....	69.50
Automobile insurance.....	136.56
Automobile license and registration.....	41.00
Automobile repairs.....	1,223.98
Automobile supplies.....	813.30
Blacksmithing and clipping horses.....	47.65
Blankets, harness and repairs.....	44.80
Books and subscriptions.....	20.31

Brick and freight on same	5,269.46
Carts, wagons, trucks and repairs and freight on same	121.87
Castings, patterns and machine labor	11.25
Catch-basin and manhole covers and freight on same	4,410.95
Cement and switching same	8,605.66
Coal	1,644.37
Electric light	35.88
Electric power	187.72
Electrical supplies and repairs on electric machinery	285.90
Engineers' materials	4.43
Engines, pumps and machinery and freight on same	210.86
Express, freight and trucking	119.53
Extra labor	82.33
Furniture, fixtures and repairs	25.08
Gas	32.24
Hardware, tools and repairs	1,327.09
Hay, grain and straw	977.64
Hose and couplings and freight on same	507.63
Injury to person—Edward Clark	8.27
Injury to person—Thomas McGrath	35.20
Injury to person—Benedetto Rinaldo	18.00
Injury to person—Israel Tuomi	23.57
Insurance	196.38
Iron and steel	504.96
Legal expenses, including recording deeds, etc.	59.60
Lumber and freight on same and carpentering	1,392.03
Massage treatments	8.00
Medical attendance on horses	25.55
Mill supplies, including cordage, waste, packing, belting, lace, etc.	248.35
Miscellaneous supplies	170.76
New England Telephone and Telegraph Co., rental and service	16.34
Oatmeal	61.00
Oil—illuminating, gasolene and candles	290.06
Oil—lubricating and grease	43.81
Paints, oils and supplies	295.32
Photographic supplies	20.65
Pipe and fittings, iron and freight on same	323.37
Pipe and fittings, sewer, and freight on same	7,327.26
Powder and fuse	377.30
Printing, stationery and supplies	245.61
Refreshments for committee and guests	180.00
Refreshments for laborers	5.30
Rent of garage	60.00
Repairs, buildings	48.81
Repairs, engines, pumps and machinery	896.95
Rubber goods	950.21
Sand, gravel and cobblestone and switching same	627.93
Services physicians	28.50
Sprinkling streets	14.41
Stone—catch-basin	424.25
Stone, crushed	8.76

Team work.....		640.88	
Traveling expenses.....		5.58	
Water metered.....		41.40	
			<u>\$83,736.08</u>
Service Transfers—Sundry Departments:			
Board of patients—City Hospital	\$47.36		
Car fares.....	95.00		
Cement bags.....	11.84		
Engineers' services and materials	3,794.09		
Extra labor.....	19.63		
Inspecting and tending hydrants and meters.....	4.47		
Rent of steam rollers.....	39.00		
Repairs, streets.....	1,573.14		
Stationery, stamps and supplies..	116.63		
Stone—hand.....	1.05		
Water connections and repairs...	41.16	\$5,743.37	
Service Transfers—Sewer Department:			
Materials.....	\$21.56	\$21.56	
Total as per item No. 106 of expenses.....			<u>\$89,501.01</u>
Balance November 30, 1917.....			<u>\$19,425.72</u>

SEWER DEPARTMENT (Maintenance)

Balance November 30, 1916.....	\$793.28	
Appropriation.....	45,000.00	
		<u>\$45,793.28</u>
RECEIVED		
For Air compressor and fittings.....	\$50.00	
Air tank.....	48.00	
Motors.....	425.00	
Repairs, sewers and catch-basins.....	743.01	
		<u>\$1,266.01</u>
Service Transfers—Sundry Departments:		
Building meter pits, etc.....	\$48.62	
Gasolene engine.....	125.00	
Labor and materials.....	.70	
Repairs, sewers and catch-basins.	1,770.36	\$1,944.68
Total as per item No. 94 of receipts.....		<u>\$3,210.69</u>
		<u>\$49,003.97</u>
EXPENDED		
For Pay rolls—foremen and laborers.....	\$20,929.46	
Pay rolls, vacations—Acts of 1914.....	231.72	
Clerical service.....	816.60	
Carts, wagons and repairs and freight on same	11.30	
Castings, patterns and machine labor.....	18.38	
Coal.....	77.17	
Damage to clothing—William H. Thorton...	40.00	

Damage to property and injury to person— John F. Kiley.....	80.00
Damage to property—Irene Wharton.....	4.50
Electric light.....	90.04
Electric power.....	1,583.15
Electrical supplies and repairs, electric ma- chinery.....	452.85
Engine, pumps, machinery and repairs.....	1,279.19
Express, freight and trucking.....	28.09
Hardware, tools and repairs.....	281.78
Hose and couplings and freight on same....	17.74
Injury to person—James Doolan.....	416.00
Injury to person—Antonio Girgoylione.....	67.20
Injury to person—James McGourty Estate..	462.17
Iron and steel.....	82.98
Legal expenses—including recording deeds, etc.	10.00
Lumber and carpentering.....	33.28
Mill supplies, including cordage, waste, pack- ing, belting, lace, etc.....	12.91
Miscellaneous supplies and expenses.....	128.32
New England Telephone and Telegraph Co., rental and service.....	5.20
Oil—lubricating and grease.....	1.55
Paints, oils and supplies.....	.57
Pipe and fittings—iron and freight on same..	337.13
Printing, stationery and supplies.....	3.50
Refreshments for laborers.....	15.63
Rent of land—Canterbury St.—Harry Rosenburg.....	216.30
Rent of land—Garfield St., and Cambridge Pl.—D. J. O'Connell.....	71.10
Rent of land—Shrewsbury St.—Samuel D. Waite.....	24.00
Repairs, buildings.....	31.92
Repairs, drains.....	16.00
Rubber goods.....	446.44
Sand, gravel and cobblestone.....	150.01
Sprinkling streets.....	18.60
Stone—catch-basin.....	57.25
Team work.....	6,177.59
Traveling expenses.....	6.26
Water metered.....	128.89

\$34,812.77

Service Transfers—Sundry Departments:

Board of patients—City Hospital.....	\$93.86
Car fares.....	155.00
Engineers' services and materials.....	206.70
Exterminating moths.....	.40
Extra labor.....	.86
Inspecting and tending hydrants and meters.....	9.23
Repairs streets.....	266.13
Tools and rent of same.....	25.05
Water connections and repairs....	432.71

\$1,189.99

Service Transfers—Sewer Department:

Salary—superintendent..... \$897.95

Clerical service.....	678.16	
General department expenses....	330.96	
Office supplies and expenses....	51.54	
Automobile hire.....	3,180.19	
Labor.....	195.25	
Machine labor.....	12.63	
Maintenance of shop and use of tools.....	1,022.91	
Materials.....	4,557.05	
Oatmeal.....	1.68	
Rent of machinery.....	21.50	
Rubber goods.....	212.96	
Team work.....	1,783.96	\$12,996.74

Total as per item No. 107 of expenses \$48,999.50

Balance November 30, 1917..... \$4.47

SEWER DEPARTMENT (Purification)

Balance November 30, 1916.....	\$67.74
Appropriation.....	62,000.00
Appropriation from corporation tax.....	2,200.00

\$64,267.74

RECEIVED

For Analysis of water samples.....	\$5.00
Hay and standing grass.....	177.00
Labor and materials.....	199.77
Lime.....	5.51
Refuse materials and junk.....	88.88
Rent of diaphragm pump.....	.50
Rent of tenements and barn.....	208.00
Wages uncalled for.....	8.26
Wood.....	3.25
	<u>\$696.17</u>

Service Transfers—Sundry Departments:

Analysis of water samples.....	\$3.00
Materials.....	.92
Sewer pipe.....	16.00
Testing cement.....	24.00
	<u>\$48.92</u>

Total as per item No. 95 of receipts..... \$745.09

\$65,012.83

EXPENDED

For Pay rolls—foremen and laborers.....	\$33,151.26
Pay rolls—vacations—Acts of 1914.....	874.81
Clerical service.....	162.00
Automobile hire.....	18.00
Blacksmithing.....	3.40
Board of horse.....	90.00
Castings, patterns and machine labor.....	19.15
Cloths—filter, grommets and thread.....	1,498.67
Coal and freight on same.....	2,254.02
Electric light.....	4.84

Electrical supplies and repairs on electric machinery.....	22.80
Express, freight and trucking.....	21.38
Fertilizer, loam and seed.....	1.22
Filter presses and repairs.....	26.25
Furniture, fixtures and repairs.....	1.00
Gas.....	243.82
Hack, horse hire and car fares.....	5.00
Hardware, tools and repairs.....	77.74
Hose and couplings and freight on same.....	8.00
Injury to person—Joseph Bartulis.....	48.57
Insurance.....	48.91
Laboratory supplies and freight on same.....	157.69
Lime and freight on same.....	17,261.51
Lumber and carpentering.....	475.10
Mill supplies—including cordage, waste, packing, belting, lace, etc.....	53.96
Miscellaneous supplies.....	13.48
New England Telephone and Telegraph Co., rental and service.....	10.85
Oil—illuminating, gasolene and candles.....	44.39
Oil—lubricating and grease.....	36.13
Paints, oils and supplies.....	15.35
Pipe and fittings—iron.....	34.86
Printing, stationery and supplies.....	10.75
Railroad supplies and repairs.....	178.75
Refreshments for committee and guests.....	20.90
Rent of land—Millbury St.—Frank D. Perry.....	120.00
Repairs, buildings.....	56.22
Repairs, engines, pumps and machinery.....	90.31
Services appraiser.....	10.00
Team work.....	3,063.88
Traveling expenses.....	20.55
Water metered.....	250.24

\$60,504.21

Service Transfers—Sundry Departments:

Board of patient—City Hospital..	\$47.57	
Car fares.....	45.00	
Engineers' services and materials.....	144.57	
Exterminating moths and beetles.....	17.20	
Stationery, stamps and supplies..	19.24	
Water connections and repairs...	1.52	\$275.10

Service Transfers—Sewer Department:

Salary—superintendent.....	\$979.06	
Clerical service.....	722.70	
General department expenses.....	456.65	
Office supplies and expenses.....	69.00	
Automobile hire.....	901.00	
Machine labor.....	13.34	
Maintenance of shop and use of tools.....	164.43	
Materials.....	499.51	
Oatmeal.....	23.54	
Rubber goods.....	224.27	
Team work.....	174.18	\$4,227.63

Total as per item No. 108 of expenses.....	\$65,006.94
Balance November 30, 1917.....	<u>\$5.89</u>

SEWERS (Construction, Beaver Brook, Land Damage Account)

Balance November 30, 1916.....	\$367.30
Balance November 30, 1917.....	<u>\$367.30</u>

SEWERS (Construction, Greendale Trunk)

Appropriation from loan.....	\$50,000.00
	<u>\$50,000.00</u>

RECEIVED

For Service Transfers—Sewer Department:		
Materials.....	\$21.56	<u>\$21.56</u>
Total as per item No. 96 of receipts.....		<u>\$21.56</u>
		<u>\$50,021.56</u>

EXPENDED

For Pay roll—laborers.....	\$13,431.80
Clerical service.....	135.50
Hardware and tools.....	8.00
Cement.....	860.20
Coal.....	148.44
Express, freight and trucking.....	15.50
Iron and steel.....	14.70
Legal expenses—including record- ing deeds, etc.....	9.80
Lumber.....	132.46
Miscellaneous supplies.....	4.56
Pipe and fittings—sewer and freight on same	3,482.38
Sand, gravel and cobblestone.....	339.80
Team work.....	115.54
	<u>\$19,248.68</u>
Service Transfers—Sundry Departments:	
Board of patients—City Hospital.....	\$3.88
Car fares.....	25.00
Engineers' services and materials.....	451.25
Repairs, streets.....	133.88
Water connections.....	27.13
	<u>\$641.14</u>
Service Transfers—Sewer Department:	
Salary, superintendent.....	\$476.76
Clerical service.....	386.31
General department expenses.....	202.59
Office supplies and expenses.....	66.14
Automobile hire.....	309.00
Engineers' services.....	534.79
Machine labor.....	<u>117.83</u>

Maintenance of shop and use of tools.....	727.88	
Materials.....	3,325.92	
Oatmeal.....	14.70	
Rent of machinery.....	548.00	
Rubber goods.....	118.95	
Team work.....	609.62	\$7,869.39
<hr/>		
Total as per item No. 109 of expenses.....		\$27,759.21
Balance November 30, 1917.....		\$22,262.35

SEWERS (Purification, Filtration Beds)

Balance November 30, 1916.....	\$25.38	
Appropriation.....	8,000.00	
Amount transferred from liquor licenses.....	2,000.00	
<hr/>		
		\$10,025.38

RECEIVED

For Hay.....	\$25.00	
Materials.....	21.39	
Rent of farm.....	132.00	
<hr/>		
Total as per item No. 97 of receipts.....		\$178.39

\$10,203.77

EXPENDED

For Pay rolls—laborers.....	\$4,785.62	
Pay rolls—vacations, Acts of 1914.....	37.75	
Clerical service.....	78.00	
Advertising.....	3.50	
Castings.....	3.90	
Coal.....	4.63	
Electric light.....	8.08	
Electric power.....	343.08	
Electrical supplies and repairs, electric machinery.....	198.00	
Experimental apparatus and freight on same.....	1,510.69	
Express.....	14.79	
Extra labor.....	11.05	
Furniture, fixtures and repairs.....	2.59	
Hardware, tools and repairs.....	7.68	
Hose and couplings.....	5.44	
Lumber.....	559.13	
Mill supplies, including cordage, waste, packing, belting, lace, etc.....	33.01	
Miscellaneous supplies.....	48.01	
Pipe and fittings—iron.....	18.62	
Printing, stationery and supplies.....	1.35	
Refreshments for committee and guests.....	8.00	
Taxes in Millbury.....	9.00	
Team work.....	78.33	
Telephone tolls.....	7.80	
Traveling expenses.....	400.89	
Water metered.....	75.19	
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		\$8,248.58

Service Transfers—Sundry Departments:

Car checks.....	\$5.00	
Engineers' services and materials.	29.21	
Water connections and repairs.....	6.56	\$40.77

Service Transfers—Sewer Department:

Salary, superintendent.....	\$81.47	
Clerical service.....	58.52	
General department expenses.....	41.80	
Office supplies and expenses.....	9.83	
Automobile hire.....	386.50	
Machine labor.....	9.32	
Maintenance of shop and use of tools.....	200.19	
Materials.....	854.83	
Rent of machinery.....	40.00	
Rubber boots.....	44.25	
Team work.....	154.12	\$1,880.83

Total as per item No. 110 of expenses..... \$10,165.18

Balance November 30, 1917..... \$38.59

SEWERS (Purification, Outfall Sewer)

Balance November 30, 1916..... \$8,798.98

\$8,798.98

EXPENDED

For Pay rolls—foremen and laborers.....	\$1.10	
Injury to person—Michael Lannon.....	225.00	
Legal expenses, including recording deeds, etc.....	60.50	
Massage treatments.....	99.00	
New England Telephone and Telegraph Co., rental and service.....	.70	
Services, physicians.....	3.00	
	<u>\$389.30</u>	

Service Transfers—Sundry Departments:

Engineers' services and materials.	\$.04	\$.04
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Total as per item No. 111 of expenses..... \$389.34

Balance November 30, 1917..... \$8,409.64

BROOKS AND RIVERS (Maintenance)

Balance November 30, 1916..... \$545.77

\$545.77

EXPENDED

For Pay rolls—laborers.....	\$180.51	
Hardware and tools.....	2.20	
Oil—illuminating.....	4.00	
	<u>\$186.71</u>	

Service Transfers—Sewer Department:

Automobile hire.....	\$46.75	
Maintenance of shop and use of tools.....	5.78	
Materials.....	9.06	
Rubber goods.....	13.00	
Team work.....	14.44	\$88.98

Total as per item No. 112 of expenses.....		\$275.69
Balance November 30, 1917.....		\$270.08

SIDEWALK ASSESSMENTS

Balance uncollected November 30, 1916.....	\$8,854.79	
Amount assessed since November 30, 1916.....	21,254.11	
		\$29,608.90

RECEIVED

From sundry persons for assessments as per item No. 98 of receipts and transferred to the account of Street Dept. (Sidewalks and Crosswalks).....		\$18,732.50
Amount uncollected November 30, 1917.....		\$10,876.40

SERIAL FUND

Received from Serial Funds' account and used to meet serial loan payments by Harry C. Smith, Treasurer, as per item No. 91 of receipts.....		\$337,700.00
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SERIAL FUNDS

Balance November 30, 1916.....	\$1,745.42	
Appropriated from taxes.....	211,748.58	
Appropriated from water rates.....	124,206.00	
		\$337,700.00

Appropriated from premium on city bonds:

Account of loans:		
No. 62 Land damage.....	\$501.75	
No. 63 Industrial School Girls.....	434.85	
No. 64 Police Dept. (new stations).....	568.65	
No. 65 Permanent Paving.....	200.70	
No. 61 Asnebumskit Supply.....	285.00	
		\$1,990.95

\$339,690.95

EXPENDED

Account of city loans.....	\$187,700.00
Account of sewer loans.....	25,000.00

Account of water loans.....	125,000.00	
Total as per item No. 105 of expenses.....		\$337,700.00
Balance November 30, 1917.....		\$1,990.95

SINKING FUNDS

Balances November 30, 1916, viz.:

No. 22	Park Loan	1888	\$93,338.07
24	Water Loan	1888	144,014.33
25	Park Loan	1889	22,369.02
26	Water Loan	1889	189,557.83
28	Water Loan	1890	26,377.66
30	Water Loan	1891	57,852.42
31	Water Loan	1892	118,697.51
35	Water Loan	1893	38,269.66
37	Water Loan	1894	36,073.07
42	Water Loan	1895	34,193.93
43	Water Loan	1895	35,558.97
48	Water Loan	1895	68,177.31
49	Water Loan	1896	17,143.78
50	City Hall Loan	1895	31,338.96
51	Water Loan	1896	32,947.33
53	City Hall Loan	1896	60,767.72
55	City Hall Loan	1896	94,358.42
58	Water Loan	1897	126,583.70
59	City Hall Loan	1897	109,228.72
62	Water Loan	1897	63,605.50
63	Schoolhouses Loan	1897	54,382.94
64	City Hall Loan	1897	81,885.63
66	Sewer Loan	1897	108,955.64
67	Water Loan	1898	117,778.17
69	Water Loan	1898	87,015.07
71	Sewer Loan	1898	151,055.39
75	Water Loan	1899	14,186.93
76	Water Loan	1899	364,205.97
78	New H. S. Bldg. Loan	1899	43,273.84
79	Water Loan	1899	26,952.75
80	Schoolhouses Loan	1899	14,923.02
81	New H. S. Bldg. Loan	1899	98,002.55
82	Sewer Loan	1899	78,150.67
83	New H. S. Bldg. Loan	1900	24,264.64
84	Sewer Loan	1900	15,842.47
85	Water Loan	1900	124,301.57
86	Sewer Loan	1900	84,862.98
88	Sewer Loan	1901	39,317.93
89	Water Loan	1901	70,832.78
90	Sewer Loan	1901	38,893.06
91	New H. S. Bldg. Loan	1901	14,584.01
94	Schoolhouse Loan	1901	68,767.66
95	Water Loan	1901	15,378.17
98	Sewer Loan	1902	22,171.54
99	Water Loan	1902	32,847.94
103	Schoolhouse Loan	1902	49,993.78
104	Sewer Loan	1902	12,368.66
107	Water Loan	1902	21,295.67

109	Water Loan.....	1902	20,807.51
111	Sewer Loan.....	1908	9,609.41
112	Water Loan.....	1908	41,649.04
113	Sewer Loan.....	1908	3,484.32
114	Water Loan.....	1908	11,703.12
115	Park Loan.....	1902	3,164.53
116	Water Loan.....	1904	47,840.37
119	Sewer Loan.....	1904	9,597.57
120	Water Loan.....	1904	23,257.77
121	Water Loan.....	1904	7,994.36
124	Sewer Loan.....	1905	8,555.06
126	Water Loan.....	1905	4,506.14
129	Water Loan.....	1904	17,509.39
134	Water Loan.....	1906	6,417.93
135	Sewer Loan.....	1906	4,996.63
140	Schoolhouses Loan.....	1907	22,049.62
141	Water Loan.....	1907	84,769.55
142	Isol. Hosp. Loan.....	1907	46,129.99
143	Sewer Loan.....	1907	50,047.32
144	H. School Rep. Loan.....	1907	17,435.02
145	Schoolhouse Loan.....	1907	48,149.43
146	Street Paving Loan.....	1907	50,068.40
147	School Repairs Loan.....	1907	11,963.11
148	Home Farm Loan.....	1907	10,089.37
149	School Land Loan.....	1907	4,014.19
150	Beaver Brook Loan.....	1907	6,904.65
151	Street Paving Loan.....	1908	44,814.74
152	Sewer Loan.....	1908	22,350.74
153	Schoolhouse Loan.....	1908	13,002.66
154	Rifle Range.....	1908	10,566.18
155	Water Loan.....	1908	30,164.92
156	Sidewalks and Crosswalks Loan.....	1908	22,108.27
157	Street Construction Loan...	1908	12,998.40
158	Beaver Brook Loan.....	1908	24,666.35
159	Home Farm Bridge Loan.....	1908	4,298.73
160	Sewer Loan.....	1908	21,999.79
161	Street Construction L. D. Loan.....	1908	13,265.92
162	Isol. Hosp. Loan.....	1908	3,462.28
163	Rifle Range Loan.....	1908	12,288.07
164	Sidewalks and Crosswalks Loan.....	1908	8,772.36
165	Sewer Loan.....	1908	10,538.45
166	Street Paving Loan.....	1908	43,519.59
167	Abol. of Grade Crossings Loan	1908	44,520.15
168	Schoolhouse Loan.....	1908	36,658.26
169	Street Main Loan.....	1908	17,441.38
170	St. Dept. Bridges and Repair Loan.....	1908	8,750.44
171	Fire Apparatus Loan.....	1908	14,944.39
172	Catch Basins Loan.....	1908	8,667.53
173	P. Playgrounds Loan.....	1908	31,864.40
174	Macadam Pav. Loan.....	1909	38,108.64
175	Schoolhouse Loan.....	1909	38,222.83
176	Street Paving Loan.....	1909	38,637.66
177	Sidewalks and Crosswalks Loan.....	1909	19,032.40

178	Sewer Loan.....	1909	18,984.49
179	Abol. of Grade Crossings Loan	1909	78,341.99
180	Schoolhouses Loan.....	1909	11,299.02
181	Sewer Loan.....	1909	7,645.30
182	Beaver Brook Loan.....	1909	11,467.21
183	Middle River Road Loan....	1909	15,271.80
184	Sewer Loan.....	1909	15,169.80
185	Catch Basins Loan.....	1909	7,620.56
186	Beaver Brook Land Damage Loan.....	1909	23,402.68
187	Street Paving Loan.....	1909	15,381.99
188	Water Loan.....	1909	19,089.71
189	Indus. School Loan.....	1909	40,711.57
190	St. Construction Loan.....	1909	18,754.86
191	St. Construction Loan.....	1909	37,766.16
192	P. Playgrounds Loan.....	1909	16,553.49
193	Sewer Loan.....	1909	14,847.86
194	St. Construction Land Dam- age Loan.....	1909	11,028.65
195	Street Paving Loan.....	1909	15,645.23
196	Street Paving Loan.....	1910	33,040.61
197	Sidewalks and Crosswalks Loan.....	1910	16,433.25
198	Street Dept. Bridges Loan...	1910	6,618.58
199	Street Construction Loan...	1910	9,859.08
200	Sewer Loan.....	1910	16,654.36
201	Sewer Loan.....	1910	16,360.18
202	Beaver Brook Loan.....	1910	33,273.51
203	Schoolhouse Loan.....	1910	33,220.49
204	Schoolhouse Loan.....	1910	9,773.37
205	Fire Apparatus Loan.....	1910	9,829.30
206	Water Loan.....	1909	19,537.37
207	Abol. of Grade Crossings Loan	1910	27,766.14
208	Shrewsbury St. Loan.....	1910	75,146.37
209	Canal St. Loan.....	1910	68,431.95
210	Street Paving Loan.....	1910	32,082.48
211	Street Paving Loan.....	1910	16,112.50
212	Bathhouse Loan.....	1910	6,621.70
213	Water Loan.....	1910	6,462.38
214	Abol. of Grade Crossings Loan	1910	27,454.20
215	Water Loan.....	1910	47,801.65
216	Schoolhouse Loan.....	1911	54,802.92
217	Schoolhouse Loan.....	1911	11,235.36
218	Sewer Loan.....	1911	14,000.57
219	Sidewalks and Crosswalks Loan.....	1911	8,685.15
220	Street Construction Loan...	1911	13,982.94
221	Street Construction Loan...	1911	27,921.21
222	Shrewsbury St. Loan.....	1911	41,710.73
223	Street Paving Loan.....	1911	36,202.43
224	Police Station Loan.....	1911	11,712.64
225	Sewer Loan.....	1911	28,198.85
226	Sewer Loan.....	1911	14,372.79
227	Street Construction Loan...	1911	27,452.71
228	Street Construction Land Damage Loan.....	1911	5,638.92
229	Street Construction Loan...	1911	11,429.56
230	Street Paving Loan.....	1911	25,465.46

231	Sidewalks and Crosswalks Loan	1911	5,546.05
232	Water Loan	1911	40,379.36
233	Water Loan	1911	19,496.20
235	Water Loan	1911	54,978.87
236	Bridges Loan	1912	4,257.87
237	Schoolhouse Loan	1912	8,858.93
238	Sewer Loan	1912	11,104.38
239	Sidewalks and Crosswalks Loan	1912	11,136.70
240	Street Construction Land Damage Loan	1912	21,788.60
241	Street Construction Loan ..	1912	20,018.05
242	Street Paving Loan	1912	11,038.78
244	Street Paving Loan	1912	23,738.53
245	Abol. of Grade Crossings Loan	1912	22,938.26
246	Water Loan	1912	36,596.94
247	Water Loan	1912	46,521.77
248	Steam Roller House Loan ..	1912	3,870.46
249	Sewer Loan	1912	47,393.52
250	P. Playground Loan	1912	13,757.12
251	Schoolhouse Loan	1912	6,727.50
252	Ind. School Bldg. Loan	1912	13,382.87
253	Street Construction Loan ..	1912	5,358.85
254	Incinerator Pl. Loan	1912	4,625.46
255	Schoolhouse Loan	1912	5,267.80
256	Schoolhouse Loan	1913	87,274.36
257	Sewer Loan	1912	5,141.00
258	Water Loan	1912	10,739.63
259	Hosp. Con. Loan	1912	62,970.91
260	Schoolhouse Improvement Loan	1913	8,811.15
261	Abol. of Grade Crossings Loan	1913	10,482.01
262	Sewer Loan	1913	16,071.70
263	Sewer Loan	1913	17,891.56
264	Street Construction Loan ..	1913	8,686.50
265	Street Paving Loan	1913	17,732.91
266	Sidewalks and Crosswalks Loan	1913	7,023.90
267	Street Construction Loan ..	1913	3,426.50
268	City Hospital Loan	1913	5,196.46
269	Women's Bathhouse Loan ..	1913	4,020.46
			\$6,373,401.12

RECEIVED

Amount on account contributions to Sinking Fund,
viz.:

From Interest on Investments		\$362,492.99
Real Estate Sales	\$288.00	
Tax Levy	349,765.00	
Water rates	65,200.00	

As per item No. 113 of Expenses

\$415,253.00

\$7,151,147.11

EXPENDED

Interest on investments purchased as per report of Commissioners.....		\$118,912.23
On Account of Fund:		
No. 142	Health Dept. (Isolation Hospital).....	\$45,000.00
" 148	Home Farm.....	10,000.00
" 63	Schoolhouses.....	40,000.00
" 140	Schoolhouses.....	22,000.00
" 144	Schoolhouses.....	17,500.00
" 145	Schoolhouses.....	47,000.00
" 147	Schoolhouses.....	12,000.00
" 150	Sewer Con. (Beaver Brook).....	7,000.00
" 146	Street Dept. (Paving).....	50,000.00
" 143	Sewer (Filtration Beds).....	50,000.00
" 141	Water.....	25,000.00

As per item No. 99 of receipts..... \$325,500.00

\$444,412.23

\$6,706,734.88

Balances November 30, 1917:—

No. 22	Sinking Fund	1888.....	\$98,959.97
" 24	"	" 1888.....	149,841.60
" 25	"	" 1889.....	23,648.13
" 26	"	" 1889.....	197,166.47
" 28	"	" 1890.....	27,379.34
" 30	"	" 1891.....	60,123.37
" 31	"	" 1892.....	123,288.28
" 35	"	" 1893.....	39,819.66
" 37	"	" 1894.....	37,503.86
" 42	"	" 1895.....	35,525.11
" 43	"	" 1895.....	36,962.27
" 48	"	" 1895.....	71,472.49
" 49	"	" 1896.....	18,031.28
" 50	"	" 1895.....	33,529.32
" 51	"	" 1896.....	34,444.83
" 53	"	" 1896.....	64,439.30
" 55	"	" 1896.....	99,547.25
" 58	"	" 1897.....	132,900.90
" 59	"	" 1897.....	117,086.93
" 62	"	" 1897.....	66,723.21
" 64	"	" 1897.....	87,987.47
" 66	"	" 1897.....	117,483.72
" 67	"	" 1898.....	123,859.88
" 69	"	" 1898.....	91,682.32
" 71	"	" 1898.....	162,651.96
" 75	"	" 1899.....	14,895.68
" 76	"	" 1899.....	382,223.50
" 78	"	" 1899.....	46,817.09
" 79	"	" 1899.....	28,538.55
" 80	"	" 1899.....	16,282.32
" 81	"	" 1899.....	105,594.24
" 82	"	" 1899.....	85,029.89
" 83	"	" 1900.....	26,324.55
" 84	"	" 1900.....	17,196.88
" 85	"	" 1900.....	131,880.49
" 86	"	" 1900.....	91,808.18

No. 88	Sinking Fund	1901	42,717.22
" 89	"	" 1901	74,923.13
" 90	"	" 1901	42,222.13
" 91	"	" 1901	15,923.58
" 94	"	" 1901	74,862.00
" 95	"	" 1901	16,327.85
" 98	"	" 1902	24,383.12
" 99	"	" 1902	34,819.01
" 103	"	" 1902	54,633.74
" 104	"	" 1902	13,274.70
" 107	"	" 1902	22,660.08
" 109	"	" 1902	22,213.77
" 111	"	" 1903	10,391.32
" 112	"	" 1903	44,215.98
" 113	"	" 1903	3,728.40
" 114	"	" 1903	12,318.12
" 115	"	" 1902	3,431.57
" 116	"	" 1904	50,587.10
" 119	"	" 1904	10,548.69
" 120	"	" 1904	24,955.76
" 121	"	" 1904	8,511.40
" 124	"	" 1905	9,637.08
" 126	"	" 1905	4,939.76
" 129	"	" 1904	13,932.44
" 134	"	" 1906	7,040.43
" 135	"	" 1906	5,672.75
" 149	"	" 1907	4,464.19
" 151	"	" 1908	50,023.24
" 152	"	" 1908	34,399.51
" 153	"	" 1908	30,871.82
" 154	"	" 1908	13,579.74
" 155	"	" 1908	95,709.12
" 156	"	" 1908	24,867.02
" 157	"	" 1908	14,798.27
" 158	"	" 1908	27,855.02
" 159	"	" 1908	4,830.77
" 160	"	" 1908	24,946.33
" 161	"	" 1908	15,210.17
" 162	"	" 1908	3,909.20
" 163	"	" 1908	13,831.07
" 164	"	" 1908	9,780.74
" 165	"	" 1908	11,855.14
" 166	"	" 1908	43,968.21
" 167	"	" 1908	51,290.37
" 168	"	" 1908	41,994.94
" 169	"	" 1908	19,726.33
" 170	"	" 1908	9,877.35
" 171	"	" 1908	16,815.18
" 172	"	" 1908	9,845.03
" 173	"	" 1908	36,280.65
" 174	"	" 1909	43,399.05
" 175	"	" 1909	43,660.33
" 176	"	" 1909	44,172.10
" 177	"	" 1909	21,791.09
" 178	"	" 1909	21,650.25
" 179	"	" 1909	89,758.45
" 180	"	" 1909	12,960.28
" 181	"	" 1909	8,744.85

No. 182	Sinking Fund 1909	13,096.12
" 183	" " 1909	17,396.01
" 184	" " 1909	17,366.82
" 185	" " 1909	8,721.16
" 186	" " 1909	26,667.04
" 187	" " 1909	17,551.70
" 188	" " 1909	21,926.21
" 189	" " 1909	47,102.27
" 190	" " 1909	21,587.14
" 191	" " 1909	42,941.06
" 192	" " 1909	19,250.51
" 193	" " 1909	17,019.26
" 194	" " 1909	12,691.78
" 195	" " 1909	17,839.77
" 196	" " 1910	38,308.17
" 197	" " 1910	19,068.49
" 198	" " 1910	7,659.49
" 199	" " 1910	11,452.35
" 200	" " 1910	19,286.96
" 201	" " 1910	18,981.73
" 202	" " 1910	38,647.95
" 203	" " 1910	38,494.99
" 204	" " 1910	11,293.00
" 205	" " 1910	11,389.36
" 206	" " 1909	22,203.80
" 207	" " 1910	32,705.09
" 208	" " 1910	87,317.89
" 209	" " 1910	79,779.62
" 210	" " 1910	37,401.47
" 211	" " 1910	18,736.77
" 212	" " 1910	7,672.81
" 213	" " 1910	7,615.43
" 214	" " 1910	31,978.61
" 215	" " 1910	53,546.65
" 216	" " 1911	64,867.34
" 217	" " 1911	13,198.40
" 218	" " 1911	16,527.53
" 219	" " 1911	10,292.52
" 220	" " 1911	16,301.48
" 221	" " 1911	32,856.71
" 222	" " 1911	49,175.71
" 223	" " 1911	42,701.71
" 224	" " 1911	13,699.14
" 225	" " 1911	33,228.43
" 226	" " 1911	16,785.30
" 227	" " 1911	32,442.10
" 228	" " 1911	6,566.74
" 229	" " 1911	13,448.27
" 230	" " 1911	30,071.73
" 231	" " 1911	6,538.65
" 232	" " 1911	45,873.89
" 233	" " 1911	23,132.36
" 235	" " 1911	65,196.18
" 236	" " 1912	5,210.57
" 237	" " 1912	10,785.99
" 238	" " 1912	13,490.88
" 239	" " 1912	13,553.14
" 240	" " 1912	26,627.27

No. 241	Sinking Fund 1912	24,899.75
" 242	" " 1912	13,533.90
" 244	" " 1912	28,685.59
" 245	" " 1912	27,821.31
" 246	" " 1912	43,538.15
" 247	" " 1912	56,239.67
" 248	" " 1912	4,684.63
" 249	" " 1912	57,506.40
" 250	" " 1912	16,717.31
" 251	" " 1912	8,211.64
" 252	" " 1912	16,619.06
" 253	" " 1912	6,895.16
" 254	" " 1912	5,932.20
" 255	" " 1912	6,660.90
" 256	" " 1913	111,066.66
" 257	" " 1912	6,542.00
" 258	" " 1912	13,484.06
" 259	" " 1912	79,679.33
" 260	" " 1913	11,267.12
" 261	" " 1913	13,377.92
" 262	" " 1913	20,508.62
" 263	" " 1913	22,911.95
" 264	" " 1913	11,146.60
" 265	" " 1913	22,641.58
" 266	" " 1913	8,896.95
" 267	" " 1913	4,329.09
" 268	" " 1913	6,578.26
" 269	" " 1913	5,096.77
		<hr/>
		\$6,706,734.88

SOLDIERS' BENEFITS

Balance November 30, 1916	\$25,335.83
Appropriation	13,000.00
Appropriation from corporation tax	2,500.00
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\$40,835.83

RECEIVED

For Amount allowed from Commonwealth for relief of indigent soldiers and sailors	\$1,061.00
Amount allowed from Commonwealth for state aid	22,677.50
Amount uncollected for soldiers' relief	53.50
Burial of soldiers	1,014.00
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Total as per item No. 100 of receipts	\$24,806.00

\$65,641.83

EXPENDED

For Military aid	\$1,305.00
Military aid, Spanish War	161.00
State aid	19,955.00
State aid, German War	9,853.51
State aid, Mexican Border	106.50
State aid, Spanish War	644.00

Soldiers' burial fees—burial agent	26.00
Soldiers' burials	613.98
Soldiers' relief	11,425.54
Care of graves—Chapter 122—Acts of 1914	24.00
Proportional cost of taxes—soldiers and sailors' exemptions (Chapter 299 Acts of 1916)...	1,994.24
Traveling expenses—soldiers' relief	1.68
Automobile hire—state aid	22.50
Printing and stationery—state aid	6.75
Traveling expenses—state aid	8.49

\$46,148.19

Service Transfers—Sundry Departments:

Care of graves—Chapter 122—Acts of 1914	\$215.00
Services, inspector—soldiers' relief	55.69
Car fares—state aid	10.00
Printing, stationery, stamps and supplies—state aid	4.00

\$284.69

Total as per item No. 114 of expenses..... \$46,432.88

Balance November 30, 1917..... \$19,208.95

STREET BETTERMENT ASSESSMENTS

Balance uncollected, November 30, 1916	\$36,521.25
Amount assessed since November 30, 1916	39,117.36

\$75,638.61

Abated since November 30, 1916..... 406.58

\$75,232.03

RECEIVED

From sundry persons for assessments as per item No. 101 of receipts and transferred to the account of Street Dep't (Construction).... \$35,874.02

Amount uncollected November 30, 1917..... \$39,358.01

STREET CONSTRUCTION (Land Damage Account)

Balance November 30, 1916	\$16,816.41
Appropriation from loan	75,000.00

\$91,816.41

RECEIVED

For Insurance on house—Brunswick Street	\$5.40
Rent of house—Walnut Street	240.00
Rent of tenements	730.50

Total as per item No. 102 of receipts..... \$975.90

\$92,792.31

EXPENDED**For Belmont Street:**

Advertising	\$.43	
Electrical supplies	1.40	
Insurance	2.52	
Land—Brigida Borgatte	200.00	
Land—Prudence L. Elliott	815.20	
Land—John N. and Mary J. McMahon	131.00	
Land—Edmund J. Migneault	2,450.00	
Recording deeds	2.80	
Repairs building	68.13	
Services, adjusters (Early and Herrick)	150.00	
Water rates	17.83	

\$3,839.31**Service Transfers—Sundry Departments:**

Electrical repairs	\$1.37	
Engineer's services	44.92	
Exterminating moths	1.40	
Removing ashes	15.48	\$63.17

For Brunswick Street:

Advertising	\$22.73	
Insurance	6.60	
Land—Eric G. Sundin	5,090.00	
Recording deed .....	.67	
Repairs, building	8.92	
Services, adjusters (Early and Herrick)	50.00	
Taxes (Sundin property)	105.65	
Water rates	1.52	\$5,286.09

Service Transfers—Sundry Departments:

Engineer's services	\$8.64	
Repairs, building	14.18	\$22.82

For Cambridge Street:

Land—Mary H. Nixon Est.	\$1,041.25	
Recording deed .....	.75	
Services, adjusters (Early and Herrick)	80.00	\$1,122.00

Service Transfers—Sundry Departments:

Engineer's services and materials	\$61.77	\$61.77
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For Channing Street:

Land—Herbert H. and Elnora M. Harrington	\$380.90	
Land—J. Frank and Della J. Leland	422.45	
Recording deeds	1.54	
Services, adjusters (Early and Herrick)	150.00	\$954.89

Service Transfers—Sundry Departments:

Engineer's services and materials	\$3.48	\$3.48
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For Commercial Street:

Services, adjusters (Early and Herrick).....	\$300.00	\$300.00
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Service Transfers—Sundry Departments: Engineer's services.....	\$10.56	\$10.56
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For Commercial Street Extension (Thomas to School)

Land—George B. Farnsworth ...	\$12,000.00	
Recording deeds.....	.71	\$12,000.71

Service Transfers—Sundry Departments: Engineer's services and materials	\$57.42	\$57.42
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For Grafton Street:

Land—George J. and Michael G. Debs.....	\$183.00	
Recording deeds.....	1.84	\$184.84

For Harding Street:

Land—Charles M. and Frank J. Callahan.....	\$2,091.25	
Land—St. John's schools of Worcester.....	5,530.50	
Land—Wells Chemical Bronze Works.....	3,979.85	
Recording deeds.....	2.81	
Services, adjusters (Early and Herrick).....	240.00	\$11,843.91

Service Transfers—Sundry Departments: Engineer's services.....	\$18.05	\$18.05
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For Leeds Street:

Land—Hulda M. Anderson	\$717.50	
Recording deeds.....	.67	
Services, adjusters (Early and Herrick).....	50.00	\$768.17

Service Transfers—Sundry Departments: Engineer's services.....	\$4.56	\$4.56
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For Madison Street:

Land—James Fox.....	\$2,380.18	
Land—Thomas J. Lynch.....	3,682.29	
Land—L. W. Pond Machine and Foundry Co.....	324.60	
Land—Wyman and Gordon Co....	2,400.00	
Recording deed.....	2.68	
Services, adjusters (Early and Herrick).....	460.00	\$9,249.70

Service Transfers—Sundry Departments: Engineer's services.....	\$8.64	\$8.64
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For Murray Avenue:

Service Transfers—Sundry Departments:		
Engineer's services.....	\$25.92	\$25.92

For Norfolk Street:

Land—Carmino Fabricatore.....	\$42.90	
Recording deed and certificate of title.....	4.67	\$47.57

Service Transfers—Sundry Departments:		
Engineer's services.....	\$.34	\$.34

For Oberlin Street:

Service Transfers—Sundry Departments:		
Engineer's services.....	\$4.54	\$4.54

For Plantation Street:

Land—Thomas H. O'Malley.....	\$265.00	
Recording deeds.....	.72	\$265.72

Service Transfers—Sundry Departments:		
Engineer's services.....	\$52.56	\$52.56

For Vernon Terrace:

Land—John E. Doyle.....	\$400.00	\$400.00
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Service Transfers—Sundry Departments:		
Engineer's services.....	\$37.44	\$37.44

For Walnut Street:

Water rates.....	\$6.05	\$6.05
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Service Transfers—Sundry Departments:		
Water connections and repairs.....	\$.16	\$.16

For Washington Street:

Service Transfers—Sundry Departments:		
Engineer's services.....	\$4.58	\$4.58

Total as per item No. 115 of expenses		<u>\$46,644.47</u>
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Balance November 30, 1917.....		<u>\$46,147.84</u>
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STREET CONSTRUCTION (Land Damage Account, Shrewsbury Street)

Balance November 30, 1916.....	<u>\$759.14</u>	
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Balance November 30, 1917.....		\$759.14
(To be paid to Sinking Funds)		

STREET DEPARTMENT (Salaries and Clerical Service)

Balance November 30, 1916.....	\$180.80	
Appropriation.....	12,000.00	

		<u>\$12,180.80</u>
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EXPENDED

For Salary of Commissioner—Albert T. Rhodes..	\$3,000.00	
Salary of Asst. Commissioner—James C. Blake.....	2,000.00	
Clerical service.....	6,997.46	
	<hr/>	
Total as per item No. 116 of expenses.....		\$11,997.46
		<hr/>
Balance November 30, 1917.....		\$183.34

STREET DEPARTMENT (Bridges and Repairs)

Balance November 30, 1916.....	\$827.24	
Appropriation.....	1,600.00	
	<hr/>	
		\$2,427.24

EXPENDED

For Pay rolls—laborers.....	\$559.29	
Team work—sundry persons.....	27.63	
Hardware, tools and repairs.....	14.74	
Lumber.....	146.42	
Repairs, bridges.....	115.85	
Traveling expenses.....	3.18	
	<hr/>	
	\$867.11	
Service Transfers—Sundry Departments:		
Engineers' services and materials.....	\$45.50	\$45.50
	<hr/>	
Service Transfers—Street Department:		
Automobile hire.....	\$62.50	
Car fares.....	9.50	
Lumber and fence posts.....	152.09	
Macadam.....	39.80	
Materials.....	49.04	
Sand and gravel.....	2.94	
Tarvia.....	80.00	
Team work.....	102.25	
Wood paving blocks.....	75.00	
	<hr/>	
	\$578.12	
Total as per item No. 117 of expenses.....		\$1,485.73
		<hr/>
Balance November 30, 1917.....		\$941.51

STREET DEPARTMENT (Construction)

Balance November 30, 1916.....	\$14,352.51	
Appropriation.....	10,000.00	
Amount transferred from street betterment assessments.....	35,874.02	
	<hr/>	
		\$60,226.53

RECEIVED

For Service Transfers—Street Department:		
Labor and materials.....	\$7.02	
Rent of machinery.....	10.42	

Repairs, catch-basins	2.69	
Team work	4.50	\$24.63
<hr/>		
Total as per item No. 103 of receipts		\$24.63

\$60,251.16

EXPENDED

For Pay rolls—laborers	\$18,902.86
Team work—sundry persons	7,455.48
Advertising	7.88
Appraisals	815.00
Curbstone and switching same	427.79
Demurrage	18.00
Legal expenses—including recording deeds, etc.	68.45
Loam and seeds	6.00
Macadam and switching same	1,396.05
Pipe and fittings	23.39
Powder and fuse	24.00
Refund, street betterment assessments	120.86
Sand, gravel and cobblestone	279.87
Services auctioneer	7.00
Use of track	6.00
Water rates	2.00
<hr/>	
	\$24,060.18

Service Transfers—Sundry Departments:

Building and repairs, sewers and catch-basins	\$1,729.21
Cobblestone	204.00
Engineers' services and materials	3,611.76
Inspecting hydrants	9.84
<hr/>	
	\$5,554.81

Service Transfers—Street Department:

Automobile hire	\$2,646.00
Car fares	82.25
Cement	605.00
Cobblestone	182.50
Curbstone	397.80
Labor	21.03
Loam and seeds	5.00
Lumber and fence posts	63.78
Macadam	7,611.17
Materials	55.70
Paving	80.67
Paving blocks	633.06
Rent of machinery	1,909.25
Sand and gravel	114.42
Stone posts	48.75
Tarvia	5,792.00
Team work	2,367.81
<hr/>	
	\$22,615.69

Total as per item No. 118 of expenses

\$52,280.63

Balance November 30, 1917

\$8,020.58

STREET DEPARTMENT (Maintenance)

Balance November 30, 1916	\$24,922.90
Appropriation	149,222.91
Appropriation from street railway tax	14,777.09
Appropriation from street railway excise tax	16,000.00
Amount transferred from street railway excise tax	9,297.09

\$214,219.99

RECEIVED

For Labor and materials	\$30,754.71
Automobiles	200.00
Automobile insurance	133.70
Automobile supplies	20.74
Board of horse	3.00
Carts, etc.	1,900.00
Cement bags and freight on same	2,649.53
Erecting tower	200.00
Fees for weighing	13.90
Freight	30
Horses	1,615.00
Manure	180.00
Refund, over payment of compensation for injury—Charles E. Williams	8.78
Refund, over payment automobile registrations	20.00
Refund, over payment of bills	24.00
Refund, team work paid erroneously	10.00
Refuse materials and junk	117.04
Reimbursement account, accident claim paid Mary Meehan	1,361.72
Rent of road machines, steam rollers, wagons, etc.	313.08
Rent of tenements	222.00
Reparation for damage to property	50.00
Telephone toll .....	.10
Wages uncalled for	31.60

\$39,829.20

Service Transfers—Sundry Departments:

Automobile hire	\$29.00
Automobile supplies	41.20
Building and repairs, driveways, sidewalks and streets	7,922.23
Caretaker—incinerator	973.16
Granolithic and brick driveways and walks	1,414.25
Labor and materials	320.04
Relaying brick floor	20.46
Removing ashes, rubbish and snow	2,664.54
Rent of engines, steam rollers, wagons, etc.	114.00
Rent of garage	110.00
Road oil	493.00
Sand and gravel	31.18
Stone—hand	1.05
Team work	39.75

\$14,173.86

Service Transfers—Street Department:		
Automobile hire	\$11,286.25	
Bitulithic top dressing	3,573.90	
Brick	11.87	
Car fares	522.60	
Cement	8,681.10	
Cobblestone	273.33	
Curbstone	1,425.21	
Fertilizer, loam and seed	39.60	
Labor	225.68	
Lumber and fence posts	494.93	
Macadam	13,386.72	
Materials	332.04	
Paving blocks	9,026.69	
Rent of machinery	3,115.51	
Road oil	129.50	
Sand and grayel	1,595.50	
Stone posts	51.25	
Tarvia	19,330.50	
Team work	23,605.54	
Wood paving blocks	75.00	\$97,132.72

Total as per item No. 104 of receipts \$151,135.78

\$365,355.77

EXPENDED

For Salary of Yard Foreman—Benjamin B. Wykes	\$1,606.63
Pay rolls—laborers	154,934.29
Pay rolls—vacations, Acts of 1914	8,404.92
Team work—sundry persons	16,523.19
Advertising	73.48
Automobiles—Buick	850.00
Automobiles—Ford	1,380.05
Automobile tractor, mixer, tools, etc.	1,655.00
Automobile truck—Peerless	600.00
Automobile hire	71.00
Automobile insurance	889.08
Automobile license and registration	211.00
Automobile repairs	8,807.92
Automobile supplies	2,366.23
Blacksmithing and blacksmith's supplies	386.51
Blankets, harness and repairs	457.15
Books and subscriptions	27.40
Calculating machine	250.00
Carts, wagons and repairs and freight on same	880.39
Cement and freight on same	19,218.14
Clothing	269.86
Coal and freight on same	4,966.31
Cobblestone	23.00
Coke	36.00
Cordage, waste and packing	352.88
Curbstone and switching same	1,873.77
Demurrage	67.00
Disinfectants	4.95
Electric light and power	506.01
Electrical repairs	237.79
Engines, pumps and repairs	230.14

Express, freight and trucking.....	415.12
Extra labor.....	519.73
Fittings for oil plant.....	4,494.47
Furniture, fixtures and repairs.....	116.60
Gas.....	8.19
Gasolene tank and freight on same.....	253.05
Hardware, tools and repairs and freight on same.....	4,902.21
Hay, grain and straw.....	10,942.58
Horses.....	1,750.00
Hose and couplings.....	469.96
Ice.....	50.00
Insurance.....	472.31
Insurance on bond.....	3.00
Iron and steel.....	699.94
Lamp black.....	85.45
Laundry work.....	24.50
Legal expenses, including recording deeds, etc.....	262.70
Lime.....	18.42
Limestone and freight on same.....	646.68
Loam and seeds.....	118.60
Lumber and fence posts.....	3,784.42
Macadam and freight on same.....	7,277.53
Machinery, belting and repairs.....	931.14
Massage treatments.....	42.00
Medical attendance on horses.....	125.95
Miscellaneous supplies and repairs.....	81.51
New England Telephone and Telegraph Co., rental and service.....	93.26
Oil—illuminating and gasolene.....	3,252.48
Oil—lubricating and grease.....	523.44
Paints and oils.....	769.07
Paving blocks and freight on same.....	16,546.78
Powder and fuse.....	11.35
Printing, stationery and supplies.....	916.38
Refreshments for committee and guests.....	89.00
Refund on bills.....	55.66
Rent of land, corner Franklin and Harding Streets—Boston and Albany R. R.....	5.00
Rent of land, Harlow Street—Boston and Maine R. R.....	140.00
Rent of land, Salem Street trestle—N. Y., N. H. and H. R. R. Co.....	346.00
Repairs, bitulithic and concrete mixers.....	486.28
Repairs, buildings.....	452.93
Repairs, fences.....	94.24
Repairs, heating apparatus.....	129.05
Repairs, road machines and horse rollers.....	515.56
Repairs, steam rollers.....	1,104.27
Repairs, stone crushers.....	746.25
Road oils and freight on same.....	2,806.09
Rubber goods.....	99.29
Sand and gravel and freight on same.....	3,800.16
Services, physicians.....	215.00
Sprinkling streets.....	41.05
Stable supplies.....	144.63
Steam shovel.....	3,091.36

Street signs, sign posts and repairs and freight on same.....	129.92
Tar and tarred paper.....	149.55
Tarvia and freight on same.....	26,852.80
Telegram.....	30
Traveling expenses.....	246.92
Water rates.....	801.74
Wood.....	85.13
Wood paving blocks and freight on same....	360.00

\$381,207.09

Service Transfers—Sundry Departments:

Automobile hire.....	\$4.41
Board of patients—City Hospital.....	320.94
Brick.....	2,093.00
Building and repairs, catch-basins and sewers.....	660.03
Car fares.....	1,138.00
Cement.....	31.50
Engineer's services and materials.....	5,037.02
Exterminating moths.....	2.75
Hardware, tools and repairs.....	1.68
Hose and couplings.....	3.15
Inspecting hydrants.....	122.37
Planting trees and shrubs.....	190.33
Printing, stationery, stamps and supplies.....	275.37
Rent of tools.....	2.00
Repairs, scales.....	4.77
Repairs, streets.....	.44
Sewer pipe and fittings.....	28.34
Team work.....	873.00
Water connections and repairs....	67.99

\$10,857.09

Service Transfers—Street Department:

Automobile hire.....	\$6.50
Can covers.....	300.00
Curbstone.....	16.00
Granolithic walks.....	2,104.54
Labor.....	558.74
Paving.....	1,546.48
Paving blocks.....	39.00
Rent of machinery.....	197.68
Road oils.....	843.70
Team work.....	214.40

\$5,827.04

For Damage to Property:

John Borg.....	\$41.00
Bernard Donaher.....	50.00
Thomas D. Dowd.....	46.08
Harris Glick.....	32.70
Mrs. Edwin Harvey.....	17.00
Alfred A. Salters.....	5.00

\$191.78

For Damage for Personal Injury:

Augustus Anderson.....	\$31.43
Rosario Barca.....	57.86
Anna Bonnie.....	33.00

Alexander A. Burke.....	180.00	
Elsie Cannon.....	993.10	
Mary E. Carrigan.....	360.00	
Josephine Casey.....	190.00	
Amanda J. Cobleigh.....	50.00	
Maurice J. Connor.....	290.57	
Michael Crotty.....	42.24	
Salem W. Davis.....	70.00	
Thomas A. Degnan.....	8.50	
Bridget Early.....	400.00	
Frank H. Flagg.....	141.43	
Mary Flaherty.....	275.00	
L. J. Hackett.....	306.28	
James J. Hannigan.....	200.00	
Annie Harris.....	85.00	
Hannah Hodgkins.....	50.00	
George Hope.....	80.81	
Charles B. Hutt.....	181.43	
Florence M. Jackson.....	50.00	
Michael Kearney.....	71.68	
Leofilo Lemanski.....	226.00	
Patrick Lyons.....	20.48	
Mary E. Mackin.....	25.00	
Mary Meehan.....	1,263.93	
Ingeborg Nordstrom.....	175.00	
Mary O'Brien.....	2,568.20	
Margaret Rainville.....	25.00	
Bessie Riley.....	1,369.69	
Thomas F. Ryan.....	81.43	
Frederick Ulrichson.....	3.86	
William Walsh.....	266.24	
M. Albert Whiting.....	35.00	
Charles E. Williams.....	70.22	
M. I. Williams.....	145.71	
George F. Wrightson, Guardian..	456.96	\$10,831.05

Total as per item No. 119 of expenses.....	\$358,914.05
Balance November 30, 1917.....	\$6,441.72

STREET DEPARTMENT (Paving Account)

Balance November 30, 1916.....	\$3,532.00	
Appropriation.....	25,000.00	
Appropriation from loan.....	30,000.00	
		\$63,532.00

RECEIVED

For Service Transfers—Street Department:		
Automobile hire.....	\$8.00	
Labor.....	1,946.13	
Paving blocks.....	39.00	
Rent of steam roller.....	6.50	
Team work.....	110.10	\$2,109.73
Total as per item No. 105 of receipts..		\$2,109.73
		\$65,641.73

EXPENDED

For Pay rolls—laborers		\$21,315.58	
Team work—sundry persons.....		3,483.19	
Cobblestone.....		1,401.40	
Coke.....		11.25	
Curbstone.....		43.76	
Extra labor.....		101.87	
Macadam and switching same.....		612.32	
Miscellaneous supplies.....		12.30	
Moving electric light poles.....		187.05	
Paving blocks and freight on same.....		2,160.00	
Sand and gravel.....		2,202.34	
Water rates.....		9.81	
			<u>\$31,540.87</u>
Service Transfers—Sundry Departments:			
Catch-basins and repairs.....	\$920.73		
Engineers' services and materials.....	688.40		
Inspecting and tending hydrants.....	16.28		
Removing trees.....	7.00		
Water connections and repairs...	98.51		\$1,730.92
			<u>\$1,730.92</u>
Service Transfers—Street Department:			
Automobile hire.....	\$889.00		
Bitulithic top dressing.....	3,573.90		
Brick.....	11.87		
Car fares.....	49.50		
Cement.....	5,889.30		
Curbstone.....	321.37		
Labor.....	4.54		
Lumber and fence posts.....	89.61		
Macadam.....	219.22		
Materials.....	44.38		
Paving blocks.....	7,415.95		
Rent of machinery.....	629.14		
Road oil.....	129.50		
Sand and gravel.....	62.59		
Team work.....	1,293.50		\$20,623.37
			<u>\$20,623.37</u>
Total as per item No. 102 of expenses.....			<u>\$53,895.16</u>
Balance November 30, 1917.....			<u>\$11,746.57</u>

STREET DEPARTMENT (Macadam Paving Account)

Balance November 30, 1916.....	\$2,357.19	
Appropriation.....	8,000.00	
		<u>\$10,357.19</u>

RECEIVED

For Service Transfers—Street Department:	
Automobile hire.....	\$6.50
Labor.....	354.13

Rent of machinery.....	185.76	
Team work.....	177.50	\$723.89
		<hr/>
Total as per item No. 106 of receipts.....		\$723.89
		<hr/>
		\$11,081.08

EXPENDED

For Pay rolls—laborers.....		\$2,086.82
Team work—sundry persons.....		1,890.83
Macadam and switching same.....		1,042.55
Sand and gravel.....		201.38
Water rates.....		2.00
		<hr/>
		\$5,223.58
Service Transfers—Sundry Departments:		
Buildings and repairs, catch-basins.....	\$402.88	
Engineers' services and materials.....	62.68	
Inspecting hydrants.....	5.57	
Turning on water.....	1.17	\$472.30
		<hr/>
Service Transfers—Street Department:		
Automobile hire.....	\$694.25	
Car fares.....	8.85	
Curbstone.....	6.75	
Macadam.....	964.66	
Materials.....	1.99	
Rent of machinery.....	474.75	
Tarvia.....	1,827.00	
Team work.....	388.00	\$4,316.25
		<hr/>
Total as per item No. 121 of expenses.....		\$10,012.13
		<hr/>
Balance November 30, 1917.....		\$1,068.95

STREET DEPARTMENT (Sidewalks and Crosswalks)

Balance November 30, 1916.....	\$8,236.27
Appropriation.....	5,000.00
Amount transferred from sidewalk assessments.....	18,732.50
	<hr/>
	\$31,968.77

RECEIVED

For Service Transfers—Street Department:		
Curbstone.....	\$16.00	
Granolithic walks.....	2,104.54	
Labor and materials.....	5.80	
Team work.....	2.80	\$2,129.14
		<hr/>
Total as per item No. 107 of receipts.....		\$2,129.14
		<hr/>
		\$34,097.91

EXPENDED

For Pay rolls—laborers.....	\$14,860.19
Team work—sundry persons.....	3,580.30
Cobblestone.....	483.90

Curbstone and switching same.....	4,881.16	
Demurrage.....	8.00	
Erecting railings.....	42.00	
Macadam and freight on same.....	36.48	
Relocating electric lights.....	45.90	
Sand and gravel.....	627.32	
Use of track—Agricultural Society.....	7.00	
		<u>\$24,072.25</u>
Service Transfers—Sundry Departments:		
Catch-basins and repairs.....	\$578.80	
Engineers' services and materials.....	1,334.25	
Inspecting hydrants.....	1.05	\$1,913.60
Service Transfers—Street Department:		
Automobile hire.....	\$608.00	
Car fares.....	72.75	
Cement.....	2,186.10	
Cobblestone.....	90.83	
Curbstone.....	699.79	
Fertilizer, loam and seed.....	34.60	
Labor.....	263.05	
Lumber and fence posts.....	164.94	
Macadam.....	280.86	
Materials.....	172.62	
Paving blocks.....	897.01	
Rent of machinery.....	37.37	
Sand and gravel.....	96.25	
Stone posts.....	2.50	
Tarvia.....	17.50	
Team work.....	2,324.30	\$7,948.47
Total as per item No. 122 of expenses.....		<u>\$33,934.32</u>
Balance November 30, 1917.....		<u>\$163.59</u>
STREET DEPARTMENT (Street Cleaning)		
Balance November 30, 1916.....	\$1,713.62	
Appropriation.....	90,000.00	
Appropriation from public institution tax.....	4,000.00	
		<u>\$95,718.62</u>
RECEIVED		
For Refund, overpayment freight on snow plows.....	\$47.52	
		<u>\$47.52</u>
Service Transfers—Street Department:		
Can covers.....	\$300.00	
Labor and materials.....	2.24	\$302.24
Total as per item No. 108 of receipts.....		<u>\$349.76</u>
		<u>\$96,063.38</u>
EXPENDED		
For Pay rolls—laborers.....	\$65,461.34	
Team work—sundry persons.....	9,914.12	

Brooms, hoes, shovels, etc.	508.50
Cans, can carriers and repairs and freight on same	470.49
Express and freight	3.38
Materials for wind shields	83.03
Repairs, street sweepers	81.25
Sand	95.00
Sewer pipe	99.00
Snow plows and freight on same	267.12
Water rates	3.60

\$76,986.83

Service Transfers—Sundry Departments:		
Engineers' services and materials	\$14.41	
Inspecting and tending hydrants	7.39	
Team work	10.00	\$31.80

Service Transfers—Street Department:		
Automobile hire	\$1,526.75	
Car fares	250.25	
Cement . . . . .	.70	
Labor	2.28	
Lumber	24.51	
Materials . . . . .	.15	
Sand and gravel	1,309.22	
Team work	15,436.00	\$18,549.86

Total as per item No. 123 of expenses \$95,568.49

Balance November 30, 1917 \$494.89

STREET DEPARTMENT (Street Sprinkling)

Balance November 30, 1916	\$1,874.06
Appropriation from street sprinkling assessments	60,000.00
Amount transferred from street sprinkling assessments	17,000.00

\$78,874.06

RECEIVED

For Street sprinkling \$1,222.33

\$1,222.33

Service Transfers—Street Department:

Labor	\$32.88	
Road oil	843.70	\$876.58

Total as per item No. 109 of receipts \$2,098.91

\$80,972.97

EXPENDED

For Pay rolls—laborers	\$6,774.84
Team work—sundry persons	2,508.46
Clerical service	605.25
Advertising	43.88

Calcium chloride	147.00	
On contract flushing—American Car Sprinkler Co.....	16,852.41	
Demurrage	154.00	
Flushing streets	65.00	
Macadam	22.88	
Printing, stationery and supplies	14.00	
Refund assessment—Mary Connor.....	3.26	
Refund assessment—Mary Dighton and Emma Howes	8.16	
Refund assessment—Mrs. Arthur Granger	3.30	
Refund assessment—Katherine Hickel	4.38	
Refund assessment—C. A. Howe.....	19.80	
Refund assessment—Joseph Lamarche	2.73	
Refund assessment—Nils F. Larson	4.43	
Refund assessment—J. J. Lavene.....	4.11	
Refund assessment—Little Franciscan Sisters of Mary	40.00	
Refund assessment—Frances C. Reynolds....	11.70	
Refund assessment—Minna M. Rich.....	27.18	
Refund assessment—Per G. and Selma K. Skoog	6.23	
Refund assessment—Mary and Frederick Smith.....	2.75	
Refund assessment—Johanna Walsh.....	3.11	
Road oil	29,499.82	
Sand and gravel.....	313.50	
	<hr/>	\$57,142.18
Service Transfers—Sundry Departments:		
Car fares	\$3.00	
Engineers' services and materials	137.73	
Hydrants and repairs	163.68	
Inspecting and tending hydrants..	2.02	
Shutting off and turning on water	58.04	
Stand pipes and repairs.....	86.70	\$451.17
	<hr/>	
Service Transfers—Street Department:		
Automobile hire.....	\$4,867.75	
Car fares	49.50	
Labor	177.76	
Macadam	4,221.01	
Materials	8.55	
Rent of machinery and tools.....	70.00	
Sand and gravel.....	9.69	
Tarvia	11,614.00	
Team work	1,824.18	\$22,842.44
	<hr/>	
Total as per item No. 124 of expenses		\$80,435.74
		<hr/>
Balance November 30, 1917.....		\$537.23

STREET LIGHTING DEPARTMENT

Balance November 30, 1916.....	\$7,705.52
Appropriation	184,000.00
	<hr/>
	\$191,705.52

RECEIVED

For Care of arc lights.....	\$420.00	
Care of tungsten lights.....	44.52	
Care of welsbach lights.....	24.00	
		<u>\$488.52</u>
Service Transfers—Sundry Departments:		
Care of arc lights.....	\$210.00	
Care of signals.....	147.79	
Care of tungsten lights.....	290.80	
Care of welsbach lights.....	24.00	
		<u>\$672.59</u>
Total as per item No. 110 of receipts.....		<u>\$1,161.11</u>
		<u>\$192,866.63</u>

EXPENDED

For Salary of Superintendent—Henry A. Knight.....	\$1,600.00	
Clerical service.....	373.75	
Automobile hire.....	54.75	
Books and subscriptions.....	3.00	
Care of arc lights—Worcester Electric Light Co.....	82,707.97	
Care of luminous lights—Worcester Electric Light Co.....	48,104.20	
Care of tungsten lights—Worcester Electric Light Co.....	42,839.46	
Care of tungsten lights, subways—Worcester Electric Light Co.....	368.90	
Care of fire alarm signals—Frank H. Knight.....	147.79	
Care of welsbach lights—Welsbach Street Lighting Co. of America.....	14,577.31	
Electrical supplies.....	6.28	
Express, freight and trucking.....	27.78	
Locating arc and welsbach lights and street repairs.....	225.90	
Moving arc and tungsten lights.....	278.95	
Posts, welsbach lights.....	387.50	
Printing, stationery and supplies.....	11.90	
Refreshments for committee and guests.....	40.00	
Telegrams and telephone tolls.....	.70	
		<u>\$191,756.14</u>
Service Transfers—Sundry Departments:		
Repairs, streets.....	\$22.17	
Stationery, stamps and supplies.....	39.51	
Trimming trees.....	395.74	
		<u>\$457.42</u>
Total as per item No. 125 of expenses.....		<u>\$192,213.56</u>
Balance November 30, 1917.....		<u>\$653.07</u>

STREET SPRINKLING ASSESSMENTS

Balance uncollected November 30, 1916.....	\$16,476.94	
Amount assessed in 1916 supplementary list.....	7,730.71	
Amount assessed in 1917 account.....	78,052.91	
		<u>\$102,260.56</u>

Abated since November 30, 1916:		
On 1916 account.....	\$5,086.04	
On 1917 account.....	4,415.58	\$9,501.62
		<hr/>
		\$92,758.94
RECEIVED		
From sundry persons for assessments, viz.:		
On 1916 account.....	\$19,121.61	
On 1917 account.....	55,249.42	
		<hr/>
Total as per item No. 111 of receipts.....	\$74,371.03	\$74,371.03
Appropriated in annual budget.....	\$60,000.00	
By order City Council to Street Dept. (Street Sprinkling).....	17,000.00	\$77,000.00
		<hr/>
Deficit.....	\$2,628.97	
Amount uncollected November 30, 1917, on 1917 account		\$18,387.91

SUPERVISION OF WIRES DEPARTMENT

Balance November 30, 1916.....	\$.02	
Appropriation.....	4,500.00	
Amount transferred from liquor licenses.....	230.00	
		<hr/>
		\$4,730.02
EXPENDED		
For Salary of Supervisor—Henry A. Knight.....	\$800.00	
Services of inspectors.....	2,118.00	
Clerical service.....	484.25	
Automobile hire.....	19.88	
Automobile insurance.....	62.58	
Automobile license and registration.....	22.00	
Automobile repairs.....	321.22	
Automobile supplies.....	365.17	
Books and subscriptions.....	9.20	
Electrical supplies and repairs of instruments	.40	
Express, freight and trucking.....	.53	
New England Telephone and Telegraph Co., rental and service.....	7.45	
Printing, stationery and supplies.....	168.35	
Removing dead wires.....	3.60	
Rent of garage.....	185.00	
Traveling expenses.....	54.62	
		<hr/>
	\$4,622.25	
Service Transfers—Sundry Departments:		
Car fares.....	\$42.00	
Stationery, stamps and supplies..	64.03	\$106.03
		<hr/>
Total as per item No. 126 of expenses.....		\$4,728.28
		<hr/>
Balance November 30, 1917.....		\$1.74

TAXES 1914 TO 1917 (City)

Balance uncollected November 30, 1916:		
Taxes of 1914	\$11,293.72	
Taxes of 1915	11,497.06	
Taxes of 1916	<u>735,453.18</u>	
		\$758,243.96
Supplementary list of taxes, 1916:		
Rendered after November 30, 1916		\$14,751.00
Amount assessed for 1917, viz.:		
State tax.....	\$420,656.06	
County tax.....	186,869.00	
City tax.....	<u>3,243,388.94</u>	
		\$3,850,914.00
Supplementary list of taxes, 1917:		
Rendered October 1, 1917	\$1,000.00	
Rendered November 1, 1917.....	<u>1,060.00</u>	
		\$2,060.00
		<u>\$4,625,968.96</u>
	RECEIVED	
From sundry persons as per item No. 112 of receipts, taxes 1914-1916.....	\$747,704.60	
From sundry persons as per item No. 115 of receipts, taxes 1917.....	<u>3,039,483.02</u>	
		\$3,787,187.62
		<u>\$838,781.34</u>
Amount uncollected November 30, 1917:		
Taxes of 1914	\$2,226.56	
Taxes of 1915	8,269.80	
Taxes of 1916	14,794.00	
Taxes of 1917	<u>813,490.98</u>	
		\$838,781.34

TAXES 1916-1917 (Corporation)

Balance November 30, 1916.....		\$357,761.94
	RECEIVED	
From the Commonwealth as per item No. 113, taxes 1916	\$18,508.81	
From the Commonwealth as per item No. 116, taxes 1917	<u>404,618.01</u>	
		423,126.82
Less deduction by Commonwealth as per item No. 127 of expenses, taxes 1916.....	<u>2,394.86</u>	
		420,731.96
		<u>\$778,493.90</u>

By appropriation in 1916 budget	\$365,450.48
By appropriation in 1917 budget	857,761.94
Appropriated by order of the City Council for	
City Hospital	17,000.00
Health Dept.	5,500.00
Health Dept. (Belmont Hospital)	6,000.00
Interest	22,000.00
Overseers of Poor Dept. (City Relief)	8,000.00
Overseers of Poor Dept. (Home Farm)	7,000.00
Schools (Salaries)	13,500.00
Sewer Dept. (Purification)	2,200.00
Soldiers' Benefits	2,500.00
	<hr/>
	\$806,912.42

Deficit.....

 \$28,418.52

TAXES 1917 (County)

Amount assessed for 1917	\$186,869.00
Amount paid County Treasurer as per item No. 128 of expenses	<hr/> \$186,869.00

TAXES 1917 (Highway, State Account)

Amount assessed for highway tax	\$1,446.06
EXPENDED	
Amount paid State Treasurer as per item No. 131 of expenses	<hr/> \$1,446.06

TAXES 1917 (Income)

Amount received from Tax Commissioner and used by the Assessors for 1917 taxes	\$286,379.52
RECEIVED	
From Commonwealth as per item No. 117 of re- ceipts	<hr/> \$280,220.30
Deficit	<hr/> \$6,159.22

TAXES 1916-1917 (National Bank, State Account)

Amount received from State Treasurer as per item No. 118 of receipts, taxes 1917	\$5,789.52
EXPENDED	
Amount paid State Treasurer in 1917 as per item No. 129 of expenses	<hr/> \$18,712.48

TAXES 1917 (Public Institution)

RECEIVED	
From Commonwealth as per item No. 121 of receipts	<hr/> \$7,689.67

Appropriated by order of the City Council:

Insp. and Con. of Bldgs. Dept. (Repairs and Impts. of Engine House).....	\$500.00	
Insp. and Con. of Bldgs. Dept. (Care of Schoolhouses)	1,524.84	
Law Dept.....	300.00	
Pensions.....	400.00	
Schoolhouses (High Schools).....	264.83	
Street Dept. (Street Cleaning).....	4,000.00	
Treasury Dept.....	700.00	
		<u>\$7,689.67</u>

TAXES 1917 (State)

Amount assessed for state tax	\$419,210.00
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EXPENDED

Amount paid State Treasurer as per item No. 130 of expenses.....	<u>\$419,210.00</u>
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TAXES 1916-1917 (Street Railway)

Due from Commonwealth for 1916.....	\$14,777.09	
Due from Commonwealth for 1917.....	19,288.61	
		<u>\$34,065.70</u>

RECEIVED

As per item No. 114 of receipts, taxes 1916, and appropriated in annual appropriations.....	\$14,777.09	
As per item No. 119 of receipts, taxes 1917, and available for appropriation.....	19,288.61	
		<u>\$34,065.70</u>

TAXES 1917 (Street Railway Excise)

Amount assessed for 1917, viz.: Worcester Consolidated Street Railway Co.....	\$25,297.09
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RECEIVED

From Worcester Consolidated Street Railway Co.: Appropriated in annual appropriation.....	\$16,000.00	
Transferred by order of the City Council to Street Dept. (Maintenance).....	9,297.09	
Total as per item No. 120 of receipts.....		<u>\$25,297.09</u>

TREASURY DEPARTMENT

Balance November 30, 1916.....	\$1,370.93	
Appropriation.....	15,900.00	
Appropriation from public institution tax.....	700.00	
		<u>\$17,970.93</u>

RECEIVED

Costs on real estate lien account.....	\$4. 95
Costs on sewer assessments.....	99. 35
Costs on sidewalk assessments.....	51. 40
Costs on street betterment assessments.....	52. 20
Costs on street sprinkling assessments, 1916.....	2. 20
Costs on street sprinkling assessments, 1917.....	63. 35
Costs on taxes, 1914.....	212. 67
Costs on taxes, 1915.....	278. 30
Costs on taxes, 1916.....	6,208. 45
Costs on taxes, 1917.....	1,329. 50
Forfeit of tax sale deposit.....	10. 00
Hope Cemetery transfer deeds.....	5. 75
Information—property and taxes.....	.50
Redemption of tax titles.....	2. 00
Sewer deeds.....	4. 00
Statements.....	53. 00
Tax deeds.....	82. 00
	<hr/>
	\$8,454. 62
Service Transfers—Sundry Departments:	
Postals.....	\$4. 00
Services deputy collector.....	108. 00
	<hr/>
	\$112. 00

Total as per item No. 122 of receipts.....

\$8,566. 62

\$26,537. 55

EXPENDED

For Salary of Treasurer and collector—Harry C. Smith.....	\$3,700. 00
Salary of Deputy and Collector—Harry B. Otis.....	1,600. 00
Salary of Deputy and Collector—William F. Welch.....	108. 00
Salary of Teller—A. C. Robinson, Jr.....	1,380. 00
Salary of Teller—Harold J. Tunison.....	300. 00
Services of assistant teller.....	855. 50
Assistants, collecting taxes and expense of collecting.....	2,284. 40
Clerical service.....	7,217. 43
Clerical service on tax bills, summonses and demands.....	1,015. 52
Clerical service on water bills.....	123. 23
Advertising.....	1,588. 82
Automobile hire for clerks.....	6. 50
Board of delinquent tax payers.....	5. 25
Books and subscriptions.....	41. 50
Express, freight and trucking.....	.43
Horse hire and car fares.....	21. 70
Insurance on bonds.....	663. 08
Legal expenses.....	9. 06
Lunches for clerks.....	238. 56
Membership dues.....	4. 00
Miscellaneous supplies and expenses.....	1. 20
New England Telephone and Telegraph Co., rental and service.....	59. 98
Printing, stationery and supplies.....	1,768. 08
Registration and certification of notes.....	400. 86

Rent of P. O. box	8.00
Repairs, safe	55.00
Robbery insurance	244.33
Traveling expenses	195.22

\$23,895.70

Service Transfers—Sundry Departments:

Postals	\$866.00
Printing, stationery and supplies ..	150.07
Stamps and stamped envelopes ..	1,887.35

\$2,903.42

Total as per item No. 132 of expenses..... **\$26,299.12**

Balance November 30, 1917..... **\$238.43**

WATER RATES

There was received from the sale of water, viz.:

Assessments, 1916	\$1,653.05
Assessments, 1917	574,712.91

Total as per item No. 126 of receipts..... **\$576,365.96**

Appropriated in annual budget for

Water Dept. (Construction)	\$25,000.00
Water Dept. (Maintenance)	90,000.00
Interest on Water Loans	201,900.00
Water Loan Serial Funds	124,206.00
Water Loan Sinking Funds	65,200.00

\$506,306.00

Appropriated by order of City Council for

Water Dept. (Construction)	\$35,059.96
Water Dept. (Maintenance)	35,000.00

\$576,365.96

WATER DEPARTMENT (Construction)

Balance November 30, 1916	\$32,811.20
Appropriation from water rates	25,000.00
Amount transferred from water rates	35,059.96

\$92,871.16

RECEIVED

For Labor, meters, pipe and fittings	\$44,455.31
Plumbing supplies	1.12
Refund old meter	5.00
Refuse, materials and junk	73.06
Wages uncalled for	23.82

\$44,558.31

Service Transfers—Sundry Departments:

Hydrants and repairs	\$233.68
Inspecting hydrants	196.22
Iron pipe and fittings	168.49
Labor and materials	599.61
Meters	17.50
Rent of tools	7.05

Repairs, standpipes	86.70	
Tending hydrants, gates, meters and boilers	29.88	
Water connections and repairs ..	1,200.83	\$2,539.91

Service Transfers—Water Department:

Automobile hire	\$3.00	
Automobile repairs .....	.89	
Automobile supplies	2,660.18	
Drinking fountains and repairs ..	128.30	
Hydrants, water gates and valves .	2,117.39	
Iron pipe and fittings	14,414.05	
Labor	16.68	
Lead	957.32	
Maintenance of shop and use of tools	74.99	
Materials	505.48	
Oatmeal	18.88	
Pipe and fittings	2,385.59	\$23,282.75

Total as per item No. 123 of receipts

\$70,380.97

\$163,252.13

EXPENDED

For Pay rolls—laborers	\$42,362.60
Pay rolls—vacations, Acts of 1914	1,463.74
Car fares	2.40
Castings, patterns and fire clay	3,920.61
Cement and switching same	356.23
Coal	128.00
Coke and charcoal	214.71
Cordage, waste, packing and belting and freight on same	69.89
Damage to property—Charles F. Hagstrom ..	6.00
Damage to property—Antonio Petrone	15.00
Drinking fountains and freight on same	103.50
Electrical supplies	13.88
Express, freight and trucking	118.69
Hardware, tools and repairs and freight on same	636.45
Hose and couplings	101.46
Hydrants, water gates, valves and repairs and freight on same	4,234.61
Injury to person—Michael De Salvo	14.67
Injury to person—John Lannon	121.43
Injury to person—Thomas F. Sheehan	100.00
Inspection of pipe, hydrants and valves— William R. Conard	305.82
Iron pipe and freight on same	43,034.16
Iron and steel	411.99
Lead, lead pipe, leadite and freight on same ...	2,884.66
Lumber	297.89
Meters and hydrants taken out	633.00
Meters and repairs—Union Water Meter Co..	9,224.84
Meters and repairs and freight on same	3,461.62
Miscellaneous supplies and expenses	25.55
Oatmeal	35.40

Oil—illuminating and gasoline.....	2,805.90	
Oil—lubricating and grease.....	220.15	
Pipe and fittings, etc., and freight on same....	8,829.33	
Powder and fuse.....	134.89	
Rubber goods.....	63.54	
Services, physicians.....	12.00	
Sewer pipe, sand, cobblestone and brick.....	142.50	
Special castings for iron pipe and freight on same.....	1,426.88	
Team work.....	91.76	
Traveling expenses.....	85.21	
Wood.....	63.15	
		<u>\$128,174.11</u>

Service Transfers—Sundry Departments:		
Board of patients—City Hospital.....	\$9.00	
Brick.....	143.36	
Building pits.....	48.62	
Engineers' services and materials.....	63.26	
Extra labor.....	7.67	
Hardware, tools and repairs.....	58.43	
Lead.....	9.44	
Meters taken out.....	44.00	
Miscellaneous supplies.....	1.00	
Packing.....	6.24	
Pipe and fittings.....	10.10	
Rent of steam roller.....	12.00	
Repairs, sewers and catch-basins.....	25.32	
Repairs, sidewalks and streets.....	818.43	
Sewer pipe and fittings.....	8.67	
Steel rails.....	13.16	
		<u>\$1,278.70</u>

Service Transfers—Water Department:		
Salary—Water Commissioner.....	\$1,212.21	
Automobile hire.....	4,258.29	
Horse hire.....	430.34	
Iron pipe.....	662.03	
Labor.....	57.56	
Maintenance of shop and use of tools.....	16,473.20	
Materials.....	7.76	
Pipe and fittings.....	253.90	
Team work.....	410.43	
		<u>\$23,765.72</u>

Total as per item No. 133 of expenses.....	<u>\$153,218.53</u>
Balance November 30, 1917.....	<u>\$10,033.60</u>

WATER DEPARTMENT (Maintenance)

Balance November 30, 1916.....	\$7,703.98	
Appropriation from water rates.....	90,000.00	
Amount transferred from water rates.....	35,000.00	
		<u>\$132,703.98</u>
RECEIVED		
For Labor, meter parts and materials.....	\$2,046.01	
Automobile hire.....	.70	

Automobile repairs	51.38
Fruit and vegetables	751.41
Gears	64.80
Hay and standing grass	328.00
Horse and collar	125.00
Ice	26.45
Manure	4.00
Premium on insurance	9.45
Refund express bill .....	.25
Refund over payment automobile instruction and registration	32.00
Refund over payment of compensation for jury—Michael McGourty	18.64
Refuse, materials and junk	826.26
Rent of property	94.00
Rent of pumps, machinery, etc.	57.00
Wages uncalled for	16.13
Wagons	115.00
Wood	41.51

\$4,607.99

Service Transfers—Sundry Departments:

Labor, meter parts and materials	\$575.81
Carbic flare lights	965.74
Farm produce	15.61
Furniture	132.34
Refreshments for watchmen	98.49
Shutting off and turning on water ..	66.21
Tools	18.00
Water connections and repairs	1.52

\$1,868.72

Service Transfers—Water Department:

Salary, Commissioner	\$1,818.32
Automobile hire	4,967.75
Automobile, repairs	40.00
Automobile supplies .....	.60
Horse hire	413.09
Labor	57.56
Maintenance of shop and use of tools	17,832.14
Materials	31.41
Pipe and fittings	339.48
Posts	210.00
Printing, stationery and supplies ..	26.88
Team work	450.93

\$26,238.16

Total as per item No. 124 of receipts. . .

\$32,714.87

\$165,418.86

EXPENDED

For Salary of Commissioner—George W. Batchelder	\$915.00
Salary of Commissioner and Registrar— George W. Batchelder	2,115.54
Salary of Registrar—George C. Hunt	521.51
Pay rolls—laborers	79,341.77
Pay rolls—vacations—Acts of 1914	2,532.16
Pay rolls—laborers—Holden	843.52

Pay rolls—laborers—Kendall Reservoir	8,500.29
Pay rolls—team work	17.75
Pay rolls—team work—Kendall Reservoir	984.01
Clerical service	5,908.25
Service of census takers	957.50
Service of inspectors	2,804.00
Service of meter readers	6,692.25
Care of reservoirs	2,434.50
Ammunition, belts, holsters, etc., for watchmen	49.25
Automobile—Ford	362.20
Automobile—Hudson Coupé	550.00
Automobile, car truck	750.00
Automobile, trucks—Maxfer	1,050.00
Automobile trucks—Selden	2,110.00
Automobile hire	190.00
Automobile insurance	549.66
Automobile license and registration	142.00
Automobile repairs	4,757.84
Automobile supplies	990.02
Blacksmithing and clipping horses	196.00
Blankets, harness and repairs	80.20
Boilers, engines, pumps and repairs	110.92
Books and subscriptions	59.05
Car fares	29.50
Carbic flare lights and supplies	965.74
Carts, wagons and repairs	185.89
Castings, patterns and fire clay	65
Cement	225.34
Coal	1,569.43
Cordage, waste, packing and belting	261.52
Damage to property—Louis Cramer	120.00
Damage to property—Peter Doyle Co.	40.50
Damage to property—Peter Doyle Heirs	60.90
Damage to property—Joseph Gordon	20.50
Damage to property—Kardas Publishing Co.	85.00
Damage to property—Pano Bros.	110.00
Damage to property—George Piehl	20.00
Damage to property—Joseph Tighe	25.00
Damage to property—Samuel Tupper	300.00
Electric light and power	169.06
Electrical repairs	332.71
Express, freight and trucking	41.62
Extra labor	32.07
Flags, flagstuffs and repairs	64.23
Furniture, fixtures and repairs	215.95
Garden seeds, tools, etc.	227.25
Gas	10.38
Hardware, tools and repairs	1,345.00
Hay, grain and straw	920.42
Horse	75.00
Horse hire	508.50
Hose and couplings	118.84
Hydrants, water gates, valves and repairs and freight on same	362.57
Ice	35.00
Ice for drinking fountains	1,140.97
Injury to person—James Burke	22.85
Injury to person—Catherine Husson	166.76

Injury to person—John J. Owens	33.00
Injury to person—Louis J. Riedl	554.29
Insurance	53.70
Iron and steel	329.45
Laundry work	20.50
Lead	5.92
Loam, fertilizer, seeds and trees	884.40
Lumber	1,228.46
Massage treatments	75.00
Medical attendance on horses	17.50
Meters and repairs—Union Water Meter Co.	2,737.33
Meters and repairs and freight on same	710.05
Miscellaneous supplies, expenses and repairs.	164.99
New England Telephone and Telegraph Co., rental and service	166.50
Oil—illuminating and gasolene	460.74
Oil—lubricating and grease	24.46
Paints and oils	501.95
Pipe, fittings etc.	327.78
Powder and fuse	49.50
Printing, stationery and supplies	1,110.34
Refreshments for committee and guests	340.50
Refreshments for laborers	23.90
Refreshments for watchmen	92.90
Refund, water rates	7.00
Repairs, buildings	935.57
Repairs, drinking fountains	16.12
Repairs, machinery	8.55
Repairs, streets and sewers	27.50
Rubber goods	152.48
Sand and gravel	12.25
Services, expert engineer—Joseph O. Phelon.	47.00
Services, physicians	13.00
Share of cost of Clinton Sewerage Disposal Works	667.65
Signs	43.95
Sprinkling streets	6.88
Stable supplies	130.32
Taxes in Holden	125.55
Taxes in Holden, Asnebumskit Brook (Al- lowance)	219.81
Taxes in Holden, Pine Hill (Allowance)	121.62
Taxes in Holden, Tatnuck Brook (Allowance)	300.92
Taxes in Leicester	122.85
Taxes in Leicester, Kettle Brook (Allowance)	161.43
Taxes in Leicester, Lynde Brook (Allowance)	146.61
Taxes in Paxton, Asnebumskit Brook (Al- lowance)	34.43
Taxes in Paxton, Kettle Brook (Allowance)	176.87
Team work	4.50
Telegrams and telephone tolls	3.15
Traveling expenses	91.83
Wire fencing	76.64

\$149,891.98

Service Transfers—Sundry Departments:

Analysis of water	\$8.00
Board of patients—City Hospital:	23.00

Brick.....	4.94	
Building and repairs sewers and catch-basins.....	65.63	
Car fares.....	912.50	
Coal.....	2.00	
Engineers' services and materials.....	403.36	
Exterminating moths.....	5.20	
Extra labor.....	16.40	
Furniture.....	4.00	
Plumbing supplies.....	.70	
Printing, stationery, stamps and supplies.....	411.61	
Rent of machinery and tools.....	1.50	
Repairs, sidewalks and streets...	3,896.88	
Revolvers, ammunition and badges.....	32.78	
Sewer pipe.....	33.68	
Team work.....	1.00	\$5,823.18

Service Transfers—Water Department:		
Automobile hire.....	\$3.00	
Automobile supplies.....	2,378.72	
Drinking fountains and repairs ..	128.30	
Hydrants, water gates and valves.....	1,247.43	
Iron pipe.....	248.07	
Labor.....	16.18	
Lead.....	196.97	
Maintenance of shop and use of tools.....	2.62	
Materials.....	320.26	
Oatmeal.....	11.88	
Pipe and fittings.....	1,415.17	
Team work.....	.50	\$5,969.10

Total as per item No. 134 of expenses..... \$161,684.26

Balance November 30, 1917..... \$3,734.59

WATER DEPARTMENT (1911 Emergency Supply)

Balance November 30, 1916..... \$4,468.88

\$4,468.88

RECEIVED

For One pumping unit complete..... \$7,000.00

Total as per item No. 125 of receipts..... \$7,000.00

\$11,468.88

EXPENDED

For Lease of land for telephone poles—A. Avery White.....	\$15.00
Rent of land for pipe line—Boston and Maine R. R.....	18.00
Rent of land for pipe line—Alexander Hagopian.....	100.00
Rent of land for pipe line—Edward Mills..	50.00

Total as per item No. 185 of expenses.....	\$188.00
Balance November 30, 1917.....	<u>\$11,285.88</u>

WATER WORKS

(Construction, Pipe Extension and Improvement)

Balance November 30, 1916.....	<u>\$23,801.99</u>	\$28,301.99
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RECEIVED

For Rent of and additional charges in connection with back filler.....	\$916.82	
Rent of and additional charges in connection with trenching machine.....	4,171.02	
	<u>\$5,087.84</u>	
Service Transfers—Water Department:		
Iron pipe.....	\$1,114.41	<u>\$1,114.41</u>
Total as per item No. 127 of receipts.....		<u>\$6,202.25</u>

\$29,504.24

EXPENDED

For Pay rolls—laborers.....	\$6,598.77
Cement.....	11.08
Coal.....	16.50
Crushed stone.....	5.23
Express, freight and trucking.....	94.83
Extra labor.....	26.68
Hardware, tools and repairs.....	48.81
Hose and couplings.....	25.00
Hydrants, water gates, valves and repairs and freight on same.....	14.32
Iron pipe and freight on same.....	5,679.20
Iron and steel.....	16.56
Labor and expenses—trenching machine....	338.87
Lumber.....	66.27
Miscellaneous supplies.....	.15
Oil—lubricating and grease.....	2.50
Repairs, boilers.....	6.00
Repairs, machinery and belting.....	273.73
Team work.....	94.52
Traveling expenses.....	752.43

\$14,070.90

Service Transfers—Sundry Departments:

Engineers' services and materials.....	\$70.73	
Rent of machinery and tools.....	.75	
Repairs, sewers and catch-basins.....	92.69	
Repairs, streets.....	497.85	<u>\$662.02</u>

Service Transfers—Water Department:

Salary of water commissioner.....	\$606.11
Automobile hire.....	417.10
Horse hire.....	19.75
Hydrants, water gates and valves.....	869.96

Iron pipe	9,176.66	
Lead	722.55	
Maintenance of shop and use of tools	1,431.31	
Materials	140.34	
Oatmeal	7.00	
Pipe and fittings	1,144.55	
Team work	33.50	\$14,568.88
Total as per item No. 186 of expenses.....		\$29,801.75
Balance November 30, 1917.....		\$202.49

WATER WORKS (Asnebumskit Supply)

Balance November 30, 1916.....	\$7,017.69	
Appropriation from loan.....	350,000.00	
		\$357,017.69

RECEIVED

For Pine Hill Reservoir:		
Automobile repairs	\$.60	
Belting	28.74	
Cement bags	621.10	
Freight on cement	660.66	
Labor and materials	30.15	
Refuse materials and junk	179.42	
Wages uncalled for	13.98	
		\$1,534.60
Service Transfers—Water Department:		
Materials	\$59.82	\$59.82
Total as per item No. 128 of receipts.....		\$1,594.42
		\$358,612.11

EXPENDED

For Kendall Reservoir:		
Pay rolls—laborers		\$138.51
		\$138.51
For Pine Hill Reservoir:		
Pay rolls—laborers	\$92,974.16	
Pay rolls—vacations—Acts of 1914	1,961.16	
Pay rolls—team work	847.55	
Clerical service	73.64	
Air compressor	2,028.40	
Automobile hire	74.00	
Automobile insurance	7.44	
Automobile license and registration	10.00	
Automobile repairs	666.70	
Automobile supplies	19.85	
Blacksmithing and blacksmithing supplies	1.20	
Boiler and engine	900.00	
Car fares .....	.30	
Cement and freight on same	12,968.58	

Coal and freight on same	4,029.84
Cordage, waste, packing and belt- ing.....	974.94
Damage to clothing—Peter F. Burgess.....	15.00
Damage to clothing—J. J. Danahy	3.25
Damage to clothing—Louis Dau- delin.....	15.50
Damage to clothing—Thomas F. Dean.....	15.00
Damage to clothing—Daniel V. Delaney.....	7.50
Damage to clothing—Daniel W. Doyle.....	10.75
Damage to clothing—J. H. Killelea	6.50
Damage to clothing—Albert Lind- quist.....	2.50
Damage to clothing—J. M. Ma- guire.....	26.50
Damage to clothing—George F. Mongeon.....	12.00
Damage to clothing—George Na- deau.....	5.50
Damage to clothing—B. R. Parker	3.50
Damage to clothing and tools— Andrew Holmstrom.....	24.25
Damage to clothing and tools—W. E. Hubbard.....	72.00
Damage to clothing and tools— Wm. E. L. Lyon.....	14.90
Damage to clothing and tools—W. H. Pike.....	46.75
Electrical repairs.....	33.29
Express, freight and trucking....	1,443.72
Extra labor.....	6.75
Fire extinguishers.....	67.70
Furniture, fixtures and repairs....	54.55
Hardware, tools and repairs and freight on same.....	2,594.68
Hose and couplings and freight on same.....	817.86
Injury to person—Nicola Capalbo	160.00
Injury to person—Tomi Jakola...	11.00
Injury to person—Andrew Mc- Manus.....	373.08
Injury to person—George W. Millett	42.52
Injury to person—Emil Parila....	146.15
Iron and steel and freight on same.	702.33
Lead and lead pipe.....	8.33
Legal expenses, including recording deeds, etc.....	6.00
Lumber and freight on same.....	3,026.57
Miscellaneous supplies and ex- penses.....	29.11
New England Telephone and Tele- graph Co., rental and service....	110.03
Oatmeal.....	14.76
Oil—illuminating and gasolene...	700.87

Oil—lubricating and grease	299.71	
Paints and oils	126.68	
Pipe and fittings	466.77	
Powder and fuse	964.00	
Printing, stationery and supplies . .	94	
Railroad supplies and repairs and freight on same	1,395.20	
Repairs, boilers, engines and pumps	1,039.12	
Repairs, buildings	347.66	
Repairs, concrete mixer	90.01	
Repairs, machinery	256.42	
Stone crusher and repairs	2,677.82	
Rubber goods	580.20	
Services, appraiser and referee	20.00	
Services, physicians and medical supplies	43.99	
Services, stenographer	175.10	
Steel for reinforcing and freight on same	734.37	
Taxes in Holden	45.00	
Telegrams and telephone tolls	30	
Traveling expenses	11.87	
Water gates, valves and repairs and freight on same	2,764.68	
Water rights—Mary Noack	5,081.22	\$145,289.42

Service Transfers—Sundry Departments:		
Board of patients—City Hospital . . .	\$71.95	
Car fares	4,900.00	
Engineers' services and materials . .	5,299.63	
Express	1.70	
Gasolene engine	125.00	
Paper towels	1.26	
Stationery, stamps and supplies . . .	29.56	
Tools and repairs	229.77	\$10,658.87

Service Transfers—Water Department:		
Automobile hire	\$292.36	
Automobile repairs	3.39	
Automobile supplies	282.06	
Fence posts	210.00	
Horse hire	50	
Iron pipe	452.38	
Lead	37.80	
Materials	78.14	
Pipe and fittings	9.02	
Printing and stationery	29.52	
Team work	7.00	\$1,402.17

Total as per item No. 137 of expenses \$157,488.97

Balance November 30, 1917 \$201,123.14

WATER WORKS (Tatnuck Supply)

Balance November 30, 1916 \$49,910.22

\$49,910.22

EXPENDED

For Iron pipe and freight on same.....	\$588.91	
Traveling expenses.....	85.22	
		<u>\$674.13</u>
Service Transfers—Sundry Departments:		
Engineers' services and materials .	\$79.23	\$79.23
		<u> </u>
Service Transfers—Water Department:		
Iron pipe.....	\$4,989.82	\$4,989.82
		<u> </u>
Total as per item No. 1238 of expenses.....		<u>\$5,742.68</u>
Balance November 30, 1917		<u>\$44,167.54</u>

**STATEMENT SHOWING APPROPRIATIONS, LOANS, TRANSFERS, RE
AND TOTAL NET EX**

**REVENUE AND EXPENDITURES FOR DEPARTMENT SERVICE TRANSFERS
EXPENDITURES FOR 1917**

CITY DEBT NOVEMBER 30, 1917

CITY LOANS—FUNDED

No.			
174	Due Jan., 1919	Macadam Paving, 3½%..	\$50,000.00
175	Due Jan., 1919	Schoolhouse, 3½%.....	50,000.00
176	Due Jan., 1919	Street Paving, 3½%.....	50,000.00
177	Due Jan., 1919	Street (Sidewalks and Cross-	
		walks), 3½%	25,000.00
179	Due Jan., 1919	Abol. of Grade Crossings,	
		3½%.....	100,000.00
180	Due Jan., 1919	Schoolhouses (Perm. Impts.)	
		3½%.....	15,000.00
182	Due April, 1919	Sewers (Con. Beaver	
		Brook), 3½%.....	15,000.00
183	Due April, 1919	Street (Con. Middle River	
		Road), 3½%.....	20,000.00
185	Due April, 1919	Sewers (Catch-basins), 3½%	10,000.00
186	Due April, 1919	Sewer (Con. Beaver Brook),	
		3½%.....	30,000.00
187	Due April, 1919	Street Paving, 3½%.....	20,000.00
78	Due July, 1919	Schoolhouses, 3½%.....	50,000.00
80	Due July, 1919	Schoolhouses, 3½%.....	17,000.00
81	Due July, 1919	Schoolhouses, 3½%	110,000.00
190	Due July, 1919	Street Construction, 3½%	25,000.00
191	Due July, 1919	Street Con. H. H. and	
		Madison Sts., 3½%.....	50,000.00
195	Due Oct., 1919	Street Paving, 3½%.....	20,000.00
83	Due Jan., 1920	Schoolhouses, 3½%.....	30,000.00
91	Due April, 1921	Schoolhouses, 3½%.....	20,000.00
94	Due July, 1921	Schoolhouses, 3½%.....	95,000.00
236	Due Jan., 1922	Street (Bridges), 3½%..	10,000.00
237	Due Jan., 1922	Schoolhouses (Permanent	
		Improvements), 3½%..	20,000.00
239	Due Jan., 1922	Street (Sidewalks and	
		Crosswalks), 3½%.....	25,000.00
240	Due Jan., 1922	Street, Land Damage, 3½%	50,000.00
241	Due Jan., 1922	Street Construction, 3½%	45,000.00
242	Due Jan., 1922	Street Paving, 3½%.....	25,000.00
243	Due April, 1922	Street (Steam Roller	
		House), 3½%.....	9,000.00
103	Due July, 1922	Schoolhouses, 3½%.....	75,000.00
163	Due July, 1923	Schoolhouses, 3½%.....	100,000.00
189	Due April, 1929	Industrial School (Boys),	
		3½%.....	125,000.00
207	Due Jan., 1930	Abol. of Grade Crossings,	
		3½%.....	100,000.00
			\$1,886,000.00
151	Due Jan., 1918	Street Paving, 4%	50,000.00
153	Due Jan., 1918	Schoolhouses (Permanent	
		Improvements), 4%....	15,000.00
154	Due Jan., 1918	Rifle Range, 4%.....	12,000.00
156	Due April, 1918	Street (Sidewalks and	
		Crosswalks), 4%.....	25,000.00

157	Due April, 1918	Street Construction, 4%	15,000.00
158	Due June, 1918	Sewer (Con. Beaver Brook), 4%.....	28,000.00
159	Due June, 1918	Home Farm Bridge, 4% .	5,000.00
161	Due June, 1918	Street Land Damage, 4%	15,000.00
162	Due July, 1918	Isolation Hospital, 4% . . .	4,000.00
163	Due July, 1918	Rifle Range, 4%.....	14,000.00
164	Due May, 1918	Streets (Sidewalks and Crosswalks), 4%.....	10,000.00
166	Due July, 1918	Macadam Paving, 4%....	50,000.00
167	Due July, 1918	Abol. of Grade Crossings, 4%.....	50,000.00
169	Due July, 1918	Street (Maintenance), 4%	20,000.00
170	Due July, 1918	Streets (Bridges and Repairs), 4%.....	10,000.00
171	Due July, 1918	Fire Apparatus, 4%.....	17,000.00
172	Due Oct., 1918	Sewers (Catch-basins), 4%	10,000.00
173	Due Oct., 1918	Parks and Playgrounds, 4%	36,000.00
194	Due Oct., 1919	Street Land Damage, 4%	15,000.00
196	Due Jan., 1920	Street Paving, 4%.....	50,000.00
197	Due Jan., 1920	Streets (Sidewalks and Crosswalks), 4%.....	25,000.00
198	Due Jan., 1920	Streets (Bridges and Repairs), 4%.....	10,000.00
199	Due Jan., 1920	Street Construction, 4% . . .	15,000.00
202	Due Jan., 1920	Sewers (Beaver Brook), 4%	50,000.00
203	Due Jan., 1920	Schoolhouses, 4%.....	50,000.00
204	Due Jan., 1920	Schoolhouse (Permanent Improvements), 4%....	15,000.00
205	Due Jan., 1920	Fire Dept. (New Apparatus), 4%.....	15,000.00
208	Due Jan., 1920	Street (Con. Shrewsbury Street), 4%.....	115,000.00
209	Due Jan., 1920	Street (Con. Canal Street), 4%.....	105,000.00
210	Due July, 1920	Street Paving, 4%.....	50,000.00
211	Due July, 1920	Street Paving, 4%.....	25,000.00
212	Due July, 1920	Health Dept., New Bath House, 4%.....	10,000.00
216	Due Jan., 1921	Schoolhouses (Permanent Improvements), 4%....	100,000.00
217	Due Jan., 1921	Schoolhouse, 4%.....	20,000.00
219	Due Jan., 1921	Streets (Sidewalks and Crosswalks), 4%.....	15,000.00
220	Due Jan., 1921	Street Construction, 4% . . .	25,000.00
221	Due Jan., 1921	Street Con., H. H. and Madison Streets, 4% . . .	50,000.00
222	Due Jan., 1921	Street Con., Shrewsbury St., 4%.....	75,000.00
223	Due Jan., 1921	Street Paving, 4%.....	65,000.00
224	Due Jan., 1921	Police Dept. (New Stations), 4%.....	20,000.00
227	Due July, 1921	Street Construction, 4% . . .	50,000.00
228	Due July, 1921	Street Con. Land Damage, 4%.....	10,000.00
229	Due July, 1921	Street Construction, 4% . . .	20,000.00
230	Due July, 1921	Street Paving, 4%.....	45,000.00
231	Due July, 1921	Streets (Sidewalks and Crosswalks), 4%.....	10,000.00

244	Due April, 1922	Street Paving, 4%.....	50,000.00
245	Due April, 1922	Abol. of Grade Crossings, 4%.....	50,000.00
251	Due April, 1922	Schoolhouses, 4%.....	15,000.00
252	Due July, 1922	Industrial School Bldg., 4%	35,000.00
253	Due July, 1922	Street Construction, 4%..	15,000.00
254	Due July, 1922	Health Dept., Incinerator, 4%.....	12,000.00
255	Due Oct., 1922	Schoolhouses, 4%.....	15,000.00
259	Due Oct., 1922	Hospital for Communicable Diseases, 4%.....	177,000.00
256	Due Jan., 1923	Schoolhouses, 4%.....	250,000.00
260	Due Jan., 1923	Schoolhouses (Permanent Improvements), 4%....	25,000.00
261	Due Jan., 1923	Abol. of Grade Crossings, 4%.....	30,000.00
264	Due Jan., 1923	Street Construction, 4%..	25,000.00
265	Due Jan., 1923	Street Paving, 4%.....	50,000.00
266	Due Jan., 1923	Streets (Sidewalks and Crosswalks), 4%.....	20,000.00
267	Due Jan., 1923	Street Con., H. H. and Mad- ison St., 4%.....	10,000.00
268	Due Jan., 1923	City Hospital, 4%.....	15,000.00
269	Due April, 1923	Health Dept. (New Bath House), 4%.....	12,000.00
50	Due April, 1925	City Hall, 4%.....	50,000.00
53	Due April, 1926	City Hall, 4%.....	100,000.00
55	Due April, 1926	City Hall, 4%.....	150,000.00
59	Due April, 1927	City Hall, 4%.....	200,000.00
64	Due April, 1927	City Hall, 4%.....	150,000.00
149	Due April, 1927	School Land, 4%.....	10,000.00
214	Due Oct., 1930	Abol. of Grade Crossings, 4%.....	100,000.00
			\$3,007,000.00

CITY LOANS—SERIAL

3	Due Annually \$6,200.00	Schoolhouses, 4%	\$37,200.00
4	Due Annually 5,000.00	Macadam Paving, 4%	5,000.00
5	Due Annually 1,000.00	Playgrounds, 4%	6,000.00
6	Due Annually 9,000.00	City Hospital, Chil- dren's Ward, 4%..	54,000.00
7	Due Annually 2,500.00	Street Construction, 4%.....	15,000.00
8	Due Annually 500.00	Hospital for Com. Diseases, 4%.....	3,000.00
9	Due Annually 4,500.00	Schoolhouses, 4%	27,000.00
13	Due Annually 10,000.00	Street Land Dam- ages, 4%.....	60,000.00
17	Due Annually 1,000.00	Abol. of Grade Crossings, 4%.....	7,000.00
18	Due Annually 2,000.00	Macadam Paving, 4%	4,000.00
19	Due Annually 500.00	City Hospital, Chil- dren's Ward, 4%..	3,500.00
21	Due Annually 2,500.00	Street Construction, 4%.....	17,500.00
22	Due Annually 2,500.00	Street Construction, 4%.....	17,500.00

23	Due Annually	2,500.00	Permanent Paving, 4%.....	17,500.00
24	Due Annually	5,000.00	Street Land Dam- age, 4%.....	35,000.00
25	Due Annually	22,000.00	Schoolhouses, 4%.	154,000.00
33	Due Annually	2,500.00	Street Construction 4%.....	20,000.00
34	Due Annually	5,000.00	Permanent Paving, 4%.....	40,000.00
35	Due Annually	5,000.00	Street, Land Dam- age, 4%.....	40,000.00
36	Due Annually	21,000.00	High Schools, 4%.	168,000.00
37	Due Annually	10,000.00	Schoolhouses, 4%.	80,000.00
43	Due Annually	500.00	Police, Addition Sta- tion No. 2, 4%....	4,000.00
44	Due Annually	4,000.00	Police, New Sta- tions, 4%.....	32,000.00
46	Due Annually	4,000.00	Schoolhouses, 4%..	32,000.00
47	Due Annually	3,000.00	Street, Land Dam- age, 4%.....	24,000.00
50	Due Annually	15,000.00	Police, New Sta- tions, 3½%.....	120,000.00
51	Due Annually	2,000.00	Police, New Sta- tions, 3½%.....	12,000.00
52	Due Annually	9,500.00	Schoolhouses, 3½%	85,500.00
53	Due Annually	4,500.00	Permanent Paving, 3½%.....	40,500.00
54	Due Annually	7,000.00	Street, Land Dam- age, 3½%.....	63,000.00
59	Due Annually	3,000.00	High Schools, 3½%	27,000.00
62	Due Annually	7,500.00	Street, Land Dam- age, 4%.....	75,000.00
63	Due Annually	6,500.00	Industrial School (Girls), 4%.....	65,000.00
64	Due Annually	8,500.00	Police, New Sta- tions, 4%.....	85,000.00
65	Due Annually	3,000.00	Permanent Paving, 4%.....	30,000.00
				\$1,506,200.00\$5,899,200.00

PARK LOAN—FUNDED

115	Due July, 1932	North Park, 3½%.....	\$8,500.00
22	Due April, 1938	Sundry Parks, 4%.....	200,000.00
25	Due April, 1938	Chandler Hill, 4%.....	50,000.00
			\$258,500.00

PUBLIC PLAYGROUNDS LOAN—FUNDED

192	Due July, 1929	Public Playgrounds, 3½%	\$50,000.00
250	Due April, 1922	Public Playgrounds, 4%.	30,000.00
			\$80,000.00

SEWER LOAN—FUNDED

178	Due Jan., 1919	Filter Beds, 3½%	\$25,000.00
181	Due Jan., 1919	Construction, 3½%	10,000.00
184	Due April, 1919	Construction, 3½%	20,000.00
84	Due April, 1920	Land, E. Worcester Street, 3½%	20,000.00
238	Due Jan., 1922	Construction, 3½%	25,000.00
82	Due July, 1929	Acts of 1897, Chapter 484, 3½%	170,000.00
86	Due April, 1930	Acts of 1900, Chapter 181, 3½%	200,000.00
88	Due April, 1931	Acts of 1900, Chapter 181, 3½%	100,000.00
90	Due April, 1931	Acts of 1900, Chapter 181, 3½%	100,000.00
98	Due July, 1932	Acts of 1900, Chapter 181, 3½%	60,000.00
104	Due April, 1932	Con. (Shrewsbury St.), 3½%	30,000.00
111	Due April, 1933	Acts of 1900, Chapter 181, 3½%	25,000.00
113	Due April, 1933	Acts of 1900, Chapter 181, 3½%	10,000.00
119	Due April, 1934	Acts of 1900, Chapter 181, 3½%	30,000.00
124	Due April, 1935	Acts of 1900, Chapter 181, 3½%	30,000.00
135	Due April, 1936	Acts of 1900, Chapter 181, 3½%	20,000.00
			<hr/>
			\$875,000.00
152	Due Jan., 1918	Construction, 4%	\$25,000.00
160	Due June, 1918	Filter Beds, 4%	25,000.00
165	Due July, 1918	Construction, 4%	12,000.00
193	Due Oct., 1919	Construction, 4%	20,000.00
200	Due Jan., 1920	Construction, 4%	25,000.00
201	Due Jan., 1920	Filter Beds, 4%	25,000.00
218	Due Jan., 1921	Construction, 4%	25,000.00
225	Due April, 1921	Outfall Sewer, 4%	50,000.00
226	Due July, 1921	Construction, 4%	25,000.00
249	Due April, 1922	Construction and Outfall, 4%	100,000.00
257	Due Oct., 1922	Outfall, 4%	15,000.00
262	Due Jan., 1923	Construction, 4%	45,000.00
263	Due Jan., 1923	Outfall, 4%	50,000.00
66	Due Jan., 1927	Acts of 1897, Chapter 484, 4%	200,000.00
71	Due July, 1928	Acts of 1897, Chapter 484, 4%	300,000.00
			<hr/>
			\$942,000.00

SEWER LOAN—SERIAL

11	Due on \$2,500.00	Outfall, 4%	\$15,000.00
16	Due on 4,000.00	Outfall, 4%	24,000.00
20	Due on 4,500.00	Construction, 4%	31,500.00

30	Due on 1,000.00	Outfall, 4%.....	7,000.00
31	Due on 3,500.00	Outfall, 4%.....	28,000.00
32	Due on 4,500.00	Construction, 4%.....	36,000.00
48	Due on 1,000.00	Construction, 4%.....	8,000.00
55	Due on 2,000.00	Outfall, 3½%.....	18,000.00
66	Due on 5,000.00	Greendale Trunk, 4½%.	50,000.00
			\$217,500.00

\$2,034,500.00

WATER LOAN—FUNDED

188	Due April, 1919	Asnebumskit Supply, 3½%	\$25,000.00
246	Due April, 1922	Asnebumskit Supply, 3½%	75,000.00
247	Due April, 1922	Pipe Exten. and Impt., 3½%.....	100,000.00
76	Due June, 1929	Kettle Brook Supply, 3½%	650,000.00
79	Due June, 1929	Kettle Brook Supply, 3½%	50,000.00
85	Due June, 1930	Kettle Brook and Tatnuck Supply, 3½%.....	250,000.00
89	Due April, 1931	Kettle Brook and Tatnuck Supply, 3½%.....	150,000.00
95	Due April, 1931	Kettle Brook and Tatnuck Supply, 3½%.....	35,000.00
99	Due July, 1932	Kettle Brook Supply, 3½%	75,000.00
107	Due April, 1932	Kettle Brook and Tatnuck Supply, 3½%.....	50,000.00
109	Due Oct., 1932	Kettle Brook and Tatnuck Supply, 3½%.....	50,000.00
112	Due Jan., 1933	Kettle Brook and Tatnuck Supply, 3½%.....	100,000.00
114	Due Oct., 1933	Kettle Brook Supply, 3½%	25,000.00
116	Due Jan., 1934	Kettle Brook and Tatnuck Supply, 3½%.....	125,000.00
120	Due July, 1934	Kettle Brook and Tatnuck Supply, 3½%.....	60,000.00
121	Due July, 1934	Kettle Brook and Tatnuck Supply, 3½%.....	20,000.00
129	Due Dec., 1934	Asnebumskit Supply, 3½%	50,000.00
126	Due April, 1935	Kettle Brook and Tatnuck Supply, 3½%.....	15,000.00
134	Due April, 1936	Kettle Brook and Tatnuck Supply, 3½%.....	25,000.00
			\$1,930,000.00

WATER LOAN—FUNDED

24	Due April, 1918	Holden and Tatnuck Sup- ply, 4%.....	\$150,000.00
155	Due April, 1918	Asnebumskit Supply, 4%.	35,000.00
26	Due April, 1919	Tatnuck Supply, 4%.....	200,000.00
206	Due Oct., 1919	Asnebumskit Supply, 4%..	25,000.00
28	Due April, 1920	Tatnuck Supply, 4%.....	30,000.00
213	Due July, 1920	Asnebumskit Supply, 4%..	10,000.00
215	Due Oct., 1920	Asnebumskit Supply, 4%..	75,000.00

30	Due April, 1921	Tatnuck Supply, 4%	70,000.00
282	Due July, 1921	Asnebumskit Supply, 4% . .	75,000.00
233	Due July, 1921	Pipe Exten. and Impt., 4% .	35,000.00
235	Due Oct., 1921	Asnebumskit Supply, 4% . .	100,000.00
31	Due April, 1922	Holden and Tatnuck Sup- ply, 4%	150,000.00
258	Due Oct., 1922	Asnebumskit Supply, 4% . .	30,000.00
35	Due April, 1923	Holden and Tatnuck Sup- ply, 4%	50,000.00
37	Due April, 1924	Holden and Tatnuck Sup- ply, 4%	50,000.00
42	Due April, 1925	Holden and Tatnuck Sup- ply, 4%	50,000.00
43	Due April, 1925	Tatnuck Supply and Pipe Impt., 4%	50,000.00
48	Due April, 1925	Kettle Brook Supply, 4% .	100,000.00
49	Due April, 1926	Tatnuck Supply and Pipe Impt., 4%	25,000.00
51	Due April, 1926	Tatnuck Supply and Pipe Impt., 4%	50,000.00
58	Due April, 1927	Tatnuck Supply and Pipe Impt., 4%	200,000.00
62	Due April, 1927	Kettle Brook Supply, 4% .	100,000.00
69	Due April, 1928	Tatnuck Supply and Pipe Impt., 4%	150,000.00
67	Due April, 1928	Kettle Brook Supply, 4%	200,000.00
75	Due Jan., 1929	Tatnuck Supply and Pipe Impt., 4%	25,000.00
			\$2,035,000.00

WATER LOAN—SERIAL

1	Due annually \$5,000.00	Asnebumskit Sup- ply, 4%	\$80,000.00
2	Due annually 5,000.00	Con. Pipe Exten. and Impt., 4%	80,000.00
10	Due annually 1,000.00	Con. Pipe Exten. and Impt., 4%	6,000.00
12	Due annually 1,000.00	Asnebumskit Sup- ply, 4%	16,000.00
15	Due annually 5,000.00	Asnebumskit Sup- ply, 4%	30,000.00
14	Due annually 9,000.00	Con. Pipe Exten. and Impt., 4%	54,000.00
26	Due annually 15,000.00	Construction, 4%	30,000.00
27	Due annually 10,500.00	Con. Pipe Exten. and Impt., 4%	178,500.00
28	Due annually 6,500.00	Asnebumskit Sup- ply, 4%	110,500.00
29	Due annually 3,000.00	Asnebumskit Sup- ply, 4%	51,000.00
38	Due annually 5,000.00	Con. Pipe Exten. and Impt., 4%	40,000.00
39	Due annually 9,000.00	Asnebumskit Sup- ply, 4%	72,000.00
40	Due annually 7,000.00	Construction, 4%	21,000.00

41	Due annually	2,500.00	Asnebumskit Supply, 4%.....	45,000.00
42	Due annually	5,000.00	Asnebumskit Supply, 4%.....	90,000.00
49	Due annually	8,000.00	Asnebumskit Supply, 4%.....	64,000.00
56	Due annually	5,000.00	Construction, 3¼%.....	20,000.00
57	Due annually	7,500.00	Con. Pipe Exten. and Impt., 3½%.....	67,500.00
58	Due annually	10,000.00	Asnebumskit Supply, 3½%.....	90,000.00
60	Due annually	5,000.00	Tatnuck Supply, 3½%.....	45,000.00
61	Due annually	15,000.00	Asnebumskit Supply, 3½%.....	150,000.00
67	Due annually	20,000.00	Asnebumskit Supply, 4¼%.....	200,000.00
				<u>\$1,540,500.00</u>
				\$5,505,500.00
				<u>\$13,777,700.00</u>

RECAPITULATION

Loan, Funded City.....	\$4,393,000.00
Loan, Funded Park.....	268,500.00
Loans, Funded Public Playgrounds.....	80,000.00
Loans, Funded Sewer.....	1,817,000.00
Loans, Funded Water.....	3,965,000.00
Loans, Serial City.....	1,506,200.00
Loans, Serial Sewer.....	217,500.00
Loans, Serial Water.....	1,540,500.00
	<u>\$13,777,700.00</u>

LIABILITIES

Loans, Funded City.....	\$4,393,000.00
Loans, Funded Park.....	268,500.00
Loans, Funded Public Playgrounds.....	80,000.00
Loans, Funded Sewer.....	1,817,000.00
Loans, Funded Water.....	3,965,000.00
Loans, Serial City.....	1,506,200.00
Loans, Serial Sewer.....	217,500.00
Loans, Serial Water.....	1,540,500.00
	<u>\$3,777,700.00</u>
Collectors sales surplus account.....	\$259.02
Land damage on sundry streets awarded by City Council, unpaid (estimated).....	112,000.00
Interest on coupons not presented for payment, viz.:	
Funded City Loan (2nd series).....	30.00
Funded City Loan (3rd series).....	30.00
	<u>\$112,319.02</u>

CASH ASSETS

Due from Commonwealth for State Aid.....	\$19,900.50
Due from Commonwealth for State Aid, German War.....	9,853.51
Due from Taxes uncollected 1914 to 1917 inclusive	838,781.34
Assessments for moth extermination, 1917.....	1,222.25
Assessments for sewers and drains.....	45,364.99
Assessments for sidewalks.....	10,876.40
Assessments for street betterments.....	39,358.01
Assessments for Street sprinkling, 1917.....	18,387.91
Due on City Hospital account.....	76,041.38
Due on Engineering Dept. account.....	52.21
Due on Health Dept. (Belmont Hospital) account	52,547.71
Due on Hope Cemetery account.....	1,068.00
Due on Insp. and Con. of Bldgs. Dept. (Ordinary repairs of schoolhouses), account.....	129.20
Due on Moth and Beetle Extermination account.	22.30
Due on Overseers of Poor Dept. (City Relief) account.....	15,223.46
Due on Overseers of Poor Dept. (Home Farm) account.....	255.64
Due on Park Commissioners (Forestry) account..	12.36
Due on Real Estate Lien account.....	2,568.12
Due on Schools (Salaries) account.....	2,209.00
Due on Schools (Industrial Schools, Main, Boys) account.....	1,556.67
Due on Schools (Industrial Schools, Main, Girls) account.....	225.00
Due on Sewer Dept. (Con.) account.....	1,055.90
Due on Sewer Dept. (Main.) account.....	74.31
Due on Sewer Dept. (Purification) account.....	56.24
Due on Soldiers' Burials account.....	439.98
Due on Military Aid account.....	689.50
Due on Street Dept. (Main.) account.....	17,487.26
Due on Street Dept. (Street Sprinkling) account	5,392.45
Due on Street Lighting Dept. account.....	24.00
Due on Water Dept. (Con.) account.....	5,358.33
Due on Water Dept. (Main.) account.....	442.53
Due on Water Works (Con. Pipe Exten. and Impt.) account.....	3,772.50
Due on Water Works (Asnebumskit Supply) account.....	929.00
Due on Water Rates, 1917 account.....	25,582.18
Amount in hands of Commissioners of Sinking Funds.....	6,706,734.88
Serial Funds.....	1,990.95
	<hr/>
	\$7,905,685.97

LEDGER BALANCES, NOVEMBER 30, 1917

	Dr.	Cr.
City Treasury.....		\$107,562.15
City of Worcester.....	\$6,569,519.48	
Collector's sales, surplus account.....		259.02
Liquor licenses.....		.75
Loans, Funded City.....		4,393,000.00
Loans, Funded Park.....		258,500.00

Loans, Funded Public Playgrounds	80,000.00
Loans, Funded Sewer	1,817,000.00
Loans, Funded Water	3,965,000.00
Loans, Serial City	1,506,200.00
Loans, Serial Sewer	217,500.00
Loans, Serial Water	1,540,500.00
Loans, Lake Quinsigamond Bridge	250,000.00
Real Estate Lien account	2,568.12
Sinking Fund:	
No. 22, 1888, Park Loan	98,959.97
No. 24, 1888, Water Loan	149,841.60
No. 25, 1889, Park Loan	23,648.13
No. 26, 1889, Water Loan	197,166.47
No. 28, 1890, Water Loan	27,379.34
No. 30, 1891, Water Loan	60,128.37
No. 31, 1892, Water Loan	123,238.28
No. 35, 1893, Water Loan	39,819.66
No. 37, 1894, Water Loan	37,503.86
No. 42, 1895, Water Loan	35,525.11
No. 43, 1895, Water Loan	36,962.27
No. 48, 1895, Water Loan	71,472.49
No. 49, 1896, Water Loan	18,031.28
No. 60, 1895, New City Hall Loan	33,529.32
No. 51, 1896, Water Loan	34,444.83
No. 53, 1896, City Hall Loan	64,439.30
No. 55, 1896, City Hall Loan	99,547.25
No. 58, 1897, Water Loan	132,900.90
No. 59, 1897, City Hall Loan	117,086.93
No. 62, 1897, Water Loan	66,723.21
No. 64, 1897, City Hall Loan	87,987.47
No. 66, 1897, Sewer Loan	117,483.72
No. 67, 1898, Water Loan	123,859.88
No. 69, 1898, Water Loan	91,632.32
No. 71, 1898, Sewer Loan	162,651.96
No. 75, 1899, Water Loan	14,895.68
No. 76, 1899, Water Loan	382,223.60
No. 78, 1899, New High School Loan	46,817.09
No. 79, 1899, Water Loan	28,538.55
No. 80, 1899, Schoolhouse Loan	16,282.32
No. 81, 1899, New High School Loan	105,594.24
No. 82, 1899, Sewer Loan	85,029.89
No. 83, 1900, New High School Loan	26,324.55
No. 84, 1900, Sewer Main. Loan	17,196.88
No. 85, 1900, Water Loan	131,880.49
No. 86, 1900, Sewer Loan	91,808.18
No. 88, 1901, Sewer Loan	42,717.22
No. 89, 1901, Water Loan	74,923.13
No. 90, 1901, Sewer Loan	42,222.13
No. 91, 1901, New High School Building Loan	15,923.58
No. 94, 1901, Schoolhouses Loan	74,862.00
No. 95, 1901, Water Loan	16,327.85
No. 98, 1902, Sewer Loan	24,383.12
No. 99, 1902, Water Loan	34,819.01
No. 103, 1902, Schoolhouse Loan	54,633.74
No. 104, 1902, Sewer Loan	13,274.70
No. 107, 1902, Water Loan	22,660.08
No. 109, 1902, Water Loan	22,213.77
No. 111, 1903, Sewer Loan	10,391.82

No. 112, 1903, Water Loan.....	44,215.98
No. 113, 1903, Sewer Loan.....	3,728.40
No. 114, 1903, Water Loan.....	12,318.12
No. 115, 1902, Park Loan.....	3,431.57
No. 116, 1904, Water Loan.....	50,587.10
No. 119, 1904, Sewer Loan.....	10,548.69
No. 120, 1904, Water Loan.....	24,955.76
No. 121, 1904, Water Loan.....	8,511.40
No. 124, 1906, Sewer Loan.....	9,687.08
No. 126, 1906, Water Loan.....	4,939.76
No. 129, 1904, Water Loan.....	18,932.44
No. 134, 1906, Water Loan.....	7,040.43
No. 135, 1906, Sewer Loan.....	5,672.75
No. 149, 1907, School Land Loan.....	4,464.19
No. 151, 1908, Street Paving Loan.....	50,023.24
No. 152, 1908, Sewer Loan.....	34,399.51
No. 153, 1908, Schoolhouse Loan.....	30,871.82
No. 154, 1908, Rifle Range Loan.....	13,579.74
No. 155, 1908, Water Loan.....	95,709.12
No. 156, 1908, Sidewalks and Crosswalks Loan.....	24,867.02
No. 157, 1908, Street Con. Loan.....	14,798.27
No. 158, 1908, Beaver Brook Loan.....	27,855.02
No. 159, 1908, Home Farm Bridge, etc., Loan	4,830.77
No. 160, 1908, Sewer Loan.....	24,946.83
No. 161, 1908, Street Con. (Land Damage Account) Loan.....	15,210.17
No. 162, 1908, Isolation Hospital Loan.....	3,909.20
No. 163, 1908, Rifle Range Loan.....	13,881.07
No. 164, 1908, Sidewalks and Crosswalks Loan.....	9,780.74
No. 165, 1908, Sewer Loan.....	11,855.14
No. 166, 1908, Macadam Paving Loan.....	48,968.21
No. 167, 1908, Abolition of Grade Crossings, Loan.....	51,290.37
No. 168, 1908, Schoolhouses Loan.....	41,994.94
No. 169, 1908, Street Main, Loan.....	19,726.38
No. 170, 1908, Street Dep't (Bridges and Repairs) Loan.....	9,877.35
No. 171, 1908, Fire Apparatus Loan.....	16,815.18
No. 172, 1908, Catch-basins Loan.....	9,845.03
No. 173, 1908, Public Playgrounds Loan.....	36,280.65
No. 174, 1909, Macadam Paving Loan.....	43,399.05
No. 175, 1909, Schoolhouse Loan.....	43,660.33
No. 176, 1909, Street Paving Loan.....	44,172.10
No. 177, 1909, Sidewalks and Crosswalks Loan	21,791.09
No. 178, 1909, Sewer Loan.....	21,650.25
No. 179, 1909, Abolition of Grade Crossings Loan.....	89,758.45
No. 180, 1909, Schoolhouse Loan.....	12,960.28
No. 181, 1909, Sewer Loan.....	8,744.85
No. 182, 1909, Beaver Brook Loan.....	13,096.12
No. 183, 1909, Middle River Road Loan.....	17,396.01
No. 184, 1909, Sewer Loan.....	17,366.82
No. 185, 1909, Catch-basins Loan.....	8,721.16
No. 186, 1909, Beaver Brook, Land Damage Account Loan.....	26,667.04

No. 187, 1909, Street Paving Loan	17,551.70
No. 188, 1909, Water Loan	21,926.21
No. 189, 1909, Industrial School Loan	47,102.27
No. 190, 1909, Street Con. Loan	21,587.14
No. 191, 1909, Street Con. Loan	42,941.06
No. 192, 1909, Public Playground Loan	19,250.51
No. 193, 1909, Sewer Loan	17,019.26
No. 194, 1909, Street Con. (Land Damage Account) Loan	12,691.78
No. 195, 1909, Street Paving Loan	17,839.77
No. 196, 1910, Street Paving Loan	38,308.17
No. 197, 1910, Sidewalks and Crosswalks Loan	19,068.49
No. 198, 1910, Street Dep't Bridges Loan	7,659.49
No. 199, 1910, Street Con. Loan	11,452.35
No. 200, 1910, Sewer Loan	19,286.96
No. 201, 1910, Sewer Loan	18,981.73
No. 202, 1910, Beaver Brook Loan	38,647.95
No. 203, 1910, Schoolhouse Loan	38,494.99
No. 204, 1910, Schoolhouse Loan	11,293.00
No. 205, 1910, Fire Apparatus Loan	11,389.36
No. 206, 1909, Water Loan	22,203.80
No. 207, 1910, Abolition of Grade Crossings Loan	32,705.09
No. 208, 1910, Shrewsbury Street Loan	87,317.89
No. 209, 1910, Canal Street Loan	79,779.62
No. 210, 1910, Street Paving Loan	37,401.47
No. 211, 1910, Street Paving Loan	18,736.77
No. 212, 1910, Bath Houses Loan	7,672.81
No. 213, 1910, Water Loan	7,615.43
No. 214, 1910, Abolition of Grade Crossings Loan	31,978.61
No. 215, 1910, Water Loan	53,546.65
No. 216, 1911, Schoolhouse Loan	64,867.34
No. 217, 1911, Schoolhouse Loan	13,198.40
No. 218, 1911, Sewer Loan	16,527.53
No. 219, 1911, Sidewalks and Crosswalks Loan	10,292.52
No. 220, 1911, Street Con. Loan	16,301.48
No. 221, 1911, Street Con. Loan	32,856.71
No. 222, 1911, Shrewsbury Street Loan	49,175.71
No. 223, 1911, Street Paving Loan	42,701.71
No. 224, 1911, New Police Stations Loan	13,699.14
No. 225, 1911, Sewer Loan	33,228.43
No. 226, 1911, Sewer Loan	16,785.30
No. 227, 1911, Street Con. Loan	32,442.10
No. 228, 1911, Street Con. (Land Damage Account) Loan	6,566.74
No. 229, 1911, Street Con. Loan	13,448.27
No. 230, 1911, Street Paving Loan	30,071.73
No. 231, 1911, Sidewalks and Crosswalks Loan	6,538.65
No. 232, 1911, Water Loan	45,873.89
No. 233, 1911, Water Loan	23,132.36
No. 235, 1911, Water Loan	65,196.18
No. 236, 1912, Bridges Loan	5,210.57
No. 237, 1912, Schoolhouse Loan	10,785.99
No. 238, 1912, Sewer Loan	13,490.88

No. 239, 1912, Sidewalks and Crosswalks Loan.....	18,553.14	
No. 240, 1912, Street Con. (Land and Damage Account) Loan.....	26,627.27	
No. 241, 1912, Street Con. Loan.....	24,399.75	
No. 242, 1912, Street Paving Loan.....	13,533.90	
No. 244, 1912, Street Paving Loan.....	28,685.59	
No. 245, 1912, Abolition of Grade Crossings Loan.....	27,321.31	
No. 246, 1912, Water Loan.....	43,538.15	
No. 247, 1912, Water Loan.....	56,239.67	
No. 248, 1912, Steam Roller House Loan...	4,684.63	
No. 249, 1912, Sewer Loan.....	57,506.40	
No. 250, 1912, Public Playground Loan.....	16,717.31	
No. 251, 1912, Schoolhouse Loan.....	8,211.64	
No. 252, 1912, Industrial School B'ld'g Loan	16,619.06	
No. 253, 1912, Street Con. Loan.....	6,895.16	
No. 254, 1912, Incinerator Plant Loan.....	5,932.20	
No. 255, 1912, Schoolhouse Loan.....	6,660.90	
No. 256, 1913, Schoolhouse Loan.....	111,066.66	
No. 257, 1912, Sewer Loan.....	6,542.00	
No. 258, 1912, Water Loan.....	13,484.06	
No. 259, 1912, Hospital Con. Loan.....	79,679.33	
No. 260, 1913, Schoolhouse Impts. Loan...	11,267.12	
No. 261, 1913, Abolition of Grade Crossings Loan.....	13,377.92	
No. 262, 1913, Sewer Loan.....	20,508.62	
No. 263, 1913, Sewer Loan.....	22,911.95	
No. 264, 1913, Street Con. Loan.....	11,146.60	
No. 265, 1913, Street Paving Loan.....	22,641.58	
No. 266, 1913, Sidewalks and Crosswalks Loan.....	8,896.95	
No. 267, 1913, Street Con. Loan.....	4,329.09	
No. 268, 1913, City Hospital Loan.....	6,578.26	
No. 269, 1913, Bath House Loan.....	5,096.77	
Street Sprinkling Assessments.....	2,628.97	
Taxes, corporation.....	28,418.52	
Taxes, City 1914—1917 inclusive.....	838,781.34	
Taxes, Income.....	6,159.22	
Taxes, Street Railway.....		19,288.61
	<u>\$14,154,810.53</u>	
		<u>\$14,154,810.53</u>

TABLE
SHOWING THE VALUATION, TAXES, RATE OF TAXATION, FROM PROPERTY EXEMPT FROM TAXATION, AND DEBT OF THE
CITY OF WORCESTER FROM A. D. 1876 TO 1917

Year	Valuation	Municipal Taxes	State Tax	County Tax	Total Tax	Tax Rate Per \$1,000	Property Exempt from Taxation	Net Debt at Close of the Financial Year
1876	\$48,219,397 00	\$654,672 98	\$51,318 00	\$34,570 15	\$740,561 08	\$14 80	\$1,980,400 00	\$2,842,141 96
1877	45,676,655 00	622,825 91	47,765 00	55,312 25	720,908 16	15 20	2,181,100 00	2,288,861 02
1878	41,969,748 00	593,696 87	28,510 00	51,855 24	674,062 11	15 40	2,042,700 00	2,348,621 41
1879	39,555,358 00	585,068 34	14,255 00	46,496 85	645,815 19	15 60	1,973,500 00	2,855,163 64
1880	41,006,362 00	660,708 39	42,765 00	41,484 00	744,957 39	17 40	2,008,400 00	2,266,914 50
1881	42,606,539 00	670,601 36	42,765 00	34,570 00	747,936 36	16 80	2,046,600 00	2,180,551 12
1882	45,504,512 00	782,240 02	57,020 00	38,027 00	827,287 02	17 20	2,046,600 00	2,207,503 62
1883	48,507,735 00	793,233 14	41,940 00	37,504 00	872,677 14	17 40	2,185,300 00	2,369,877 25
1884	50,773,475 00	789,068 70	55,920 00	34,171 00	879,159 70	16 60	2,202,800 00	2,428,144 83
1885	52,714,391 00	934,276 10	41,940 00	38,338 00	1,014,554 10	18 00	2,347,200 00	2,394,914 64
1886	54,566,389 00	961,846 30	46,035 00	42,100 00	1,049,981 30	18 00	2,429,800 00	2,209,316 94
1887	59,465,575 00	969,635 21	69,052 50	41,030 00	1,079,617 71	17 00	2,955,100 00	1,967,362 70
1888	64,551,736 00	996,573 40	69,052 50	41,030 00	1,106,655 90	16 00	2,746,100 00	2,061,183 83
1889	69,429,871 00	1,068,729 88	*71,998 82	44,690 00	1,185,418 70	16 00	3,284,500 00	2,849,791 56
1890	73,531,060 00	1,109,338 16	*64,925 06	48,575 00	1,222,838 22	15 60	3,964,600 00	2,468,469 43
1891	77,635,908 00	1,096,002 53	*56,485 06	58,287 00	1,210,774 59	14 60	3,568,900 00	2,484,427 58
1892	81,099,602 00	1,134,939 03	*68,110 06	61,197 00	1,264,246 09	14 60	3,931,600 00	2,606,903 61
1893	84,100,005 00	1,189,315 19	*94,795 06	61,197 00	1,345,307 25	15 00	4,239,100 00	2,535,974 02
1894	86,503,826 00	1,237,613 30	*77,005 06	81,696 00	1,396,214 36	15 20	4,309,050 00	2,585,719 62
1895	86,917,700 00	1,296,846 05	*60,280 06	84,701 00	1,441,327 11	15 40	4,562,500 00	2,533,968 64
1896	91,835,972 00	1,345,233 86	*69,352 56	105,876 00	1,520,461 92	15 60	4,941,100 00	2,841,422 96
1897	98,520,591 00	1,416,057 00	*69,352 56	105,876 00	1,545,970 56	14 80	5,137,400 00	3,498,682 87
1898	102,125,965 00	1,535,061 57	*62,350 06	119,747 00	1,717,168 63	16 20	5,416,200 00	4,123,197 15
1899	112,435,899 00	1,686,118 32	*62,350 06	116,800 00	1,864,268 38	16 00	6,158,150 00	5,210,264 53
1900	114,233,023 00	1,719,615 52	*72,340 06	123,540 00	1,907,415 58	16 40	5,641,200 00	5,501,798 66
1901	114,337,485 00	1,869,833 69	*74,948 06	123,743 00	2,068,074 75	16 40	5,651,700 00	5,471,781 68
1902	116,365,015 00	1,861,623 93	*65,117 56	126,916 00	2,053,657 49	16 00	5,641,500 00	5,532,456 41
1903	117,962,681 00	1,945,743 92	*105,002 28	135,981 00	2,186,727 20	17 60	5,725,600 00	5,330,956 01
1904	119,425,402 00	1,912,041 50	*103,535 50	135,693 00	2,151,270 00	17 40	5,927,800 00	5,448,269 09
1905	121,289,502 00	1,838,974 19	*161,434 34	136,693 00	2,186,101 53	17 00	6,198,700 00	5,013,939 17
1906	124,186,638 00	1,847,258 36	*142,018 83	135,693 00	2,124,970 10	16 60	6,324,000 00	4,769,458 02
1907	128,226,638 00	1,785,760 24	*156,133 97	134,260 00	2,076,154 21	16 00	6,773,800 00	4,824,282 45
1908	128,977,000 00	1,960,794 39	*207,627 00	134,260 00	2,292,681 39	17 00	7,097,200 00	5,069,537 82
1909	132,991,800 00	1,981,242 19	169,107 00	134,260 00	2,284,609 19	16 40	7,182,400 00	5,403,004 59
1910	140,751,250 00	2,074,745 85	204,474 50	131,936 00	2,411,156 35	16 40	7,219,350 00	5,836,928 09
1911	146,804,000 00	2,251,477 08	204,474 50	131,936 00	2,597,887 88	17 00	7,492,050 00	6,261,501 89
1912	152,536,000 00	2,364,465 51	232,329 50	142,931 00	2,739,726 01	17 20	7,782,250 00	6,691,636 50
1913	161,740,150 00	2,547,128 54	296,763 50	134,823 00	2,978,715 04	17 60	8,081,750 00	7,126,542 47
1914	172,334,979 00	3,025,650 90	324,359 81	149,342 00	3,499,822 71	19 60	8,837,650 00	7,979,391 18
1915	179,198,586 00	3,242,798 58	362,573 81	163,861 00	3,769,233 39	20 40	9,178,900 00	7,574,298 72
1916	183,552,673 00	3,404,890 43	310,134 03	171,654 00	3,886,678 46	20 00	9,653,750 00	7,842,678 62
1917	186,244,956 00	3,229,418 06	420,656 06	186,869 00	3,836,943 12	20 00	10,183,750 00	7,176,536 32

*Including Armory Account.

A COMPARATIVE STATEMENT OF REVENUE

RECEIPTS					CITY OF WORCESTER
1913	1914	1915	1916	1917	
					Abatement.....
\$12,806.23	\$9,238.26	\$22,187.87		\$15.00	Overlays—Taxes.....
				518.61	Abolition of Grade Crossings.....
					Assessors' Department.....
					(Salaries)
					(Miscellaneous)
	1,000.00	4,168.07			Auditing Department.....
4,458.87	4,855.80	4,526.87	\$4,697.23	4,965.35	Chamberlain Drinking Fountain Fund.....
70,439.07	72,806.48	77,283.21	87,572.80	106,440.78	City Clerk Department.....
12,615.16	18,184.01	13,202.66	13,539.76	13,804.08	Clerk of Committees Department.....
	597.00				City Hospital.....
14,419.23	12,329.33	13,084.66	16,430.82	17,043.94	" " (Trust Funds).....
30,201.54	27,374.65	24,071.12	26,400.95	25,389.29	" " (Children's Ward).....
					City Messenger Department.....
					Engineering Department.....
					Fire Department.....
<u>557.80</u>	<u>549.05</u>	<u>592.45</u>	<u>532.00</u>	<u>502.95</u>	(New Halls)

AND EXPENDITURES

EXPENDITURES

1913	1914	1915	1916	1917
\$27,532.65	\$32,226.45	\$1,874.24	\$10,907.14	
	17,951.32	56,783.67	46,620.18	\$44,665.18
64,564.21	19,800.67	10,921.09	80.10	7,795.70
14,223.97	12,766.06	14,155.06	15,232.06	15,642.58
8,549.60	7,512.42	7,314.37	7,063.92	6,237.71
8,899.26	9,183.25	9,471.60	10,163.79	10,537.86
	600.00	4,668.07		
12,273.11	12,890.48	12,456.71	12,410.63	10,474.00
				4,057.10
166,308.07	164,159.39	180,544.78	226,071.39	226,807.11
12,757.23	18,063.51	13,033.73	13,042.83	13,442.10
2,271.15	88,152.91	5,061.21	27.00	
35,321.70	32,345.05	39,337.54	36,796.52	38,406.77
41,181.99	37,568.56	36,037.87	36,319.72	35,276.77

MENTS. AMOUNTS
DEC. 1, 1917.

idowment.

\$10,400.00

187.86

52

52 \$10,587.86

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\$1,500.00

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\$3,000.00

.09

\$193.65

chool.

\$2,764.21

.94

; Fountain.

\$270.88

1913	1914
\$12,806.23	\$9,258.26
4,458.87	1,000.00
70,489.07	4,855.80
12,615.16	72,806.48
14,419.23	13,184.01
30,201.54	597.00
	12,829.88
	27,874.65

TRUST FUNDS

INVESTMENTS. AMOUNT DEC. 1, 1916. RECEIPTS. PAYMENTS. AMOUNTS
DEC. 1, 1917.

FUND NO. 10—Aaron and Lucretia Bancroft Endowment.

Savings Bank Deposits	\$10,400.00			\$10,400.00
Interest.....		\$416.00		
Worcester Trust Co...	187.38			187.86
Advertising and Tuition			\$415.52	
	\$10,587.38	\$416.00	\$415.52	\$10,587.86

FUND No. 19—Lewis Barnard Hospital.

Savings Bank Deposits	\$1,500.00			\$1,500.00
Interest.....		\$60.00		
Payments.....			\$60.00	

FUND NO. 35—Harriet D. Brown Hospital.

Mortgages.....	\$8,000.00			\$8,000.00
Interest.....		\$381.09		
Payments.....			\$381.09	

Fund No. 21—Henry W. Brown.

Savings Bank Deposits	\$186.15			\$193.65
Interest.....		\$7.50		

FUND NO. 1—Alexander Bullock High School.

Savings Bank Deposits	\$2,841.48			\$2,764.21
Interest.....		\$113.72		
Payments.....			\$190.94	

FUND NO. 24—Harriet P. F. Burnside Drinking Fountain.

Savings Bank Deposits	\$259.90			\$270.38
Interest.....		\$10.48		

FUND No. 23—Harriet P. F. Burnside Hospital.

Investments.....	\$3,000.00			\$3,000.00
Interest.....		\$150.00		
Payments.....			\$150.00	

FUND NO. 14—Edwin Conant Hospital.

Savings Bank Deposits	\$1,500.00			\$1,500.00
Interest.....		\$60.00		
Payments.....			\$60.00	

FUND NO. 6—Albert Curtis Hospital.

Savings Bank Deposits	\$1,000.00			\$1,000.00
Interest.....		\$40.00		
Payments.....			\$40.00	

FUND NO. 34—Edward Livingston Davis Tower and Park Fund.

Bonds.....	\$4,985.00			\$4,985.00
National Bank Deposits.....	892.86		\$1,086.05	65.98
Interest.....		\$259.17		
	<hr/>	<hr/>	<hr/>	<hr/>
	\$5,877.86	\$259.17	\$1,086.05	\$5,050.98

FUND NO. 4—Isaac Davis Hospital.

Savings Bank Deposits	\$5,000.00			\$5,000.00
Interest.....		\$200.00		
Payments.....			\$200.00	

FUND NO. 12—Francis H. Dewey Charity.

Savings Bank Deposits	\$2,000.00			\$2,000.00
Interest.....		\$80.80		
Groceries and provisions			\$80.80	

FUND NO. 31—Alice Taft Farnum Hospital.

Savings Bank Deposits	\$480.85			\$480.85
Interest.....		\$17.20		
Payments.....			\$17.20	

FUND NO. 3—Green Library.

Bank Stock.....	\$5,000.00			\$5,000.00
Dividends.....		\$325.00		
Mortgages.....	29,000.00			29,000.00
Interest.....		1,450.00		
Savings Bank Deposits	4,819.96			5,715.78
Interest.....		185.94		
Interest.....		6.09		
Bonds.....	25,830.00	1,240.00		25,830.00
Trust Co. Rights.....		50.00		
National Bank Bal...		44.06		
Payments.....			\$2,405.27	
	\$64,149.96	\$3,301.09	\$2,405.27	\$65,045.78

FUND No. 36—Henry F. Harris Hospital.

Mortgage.....	\$5,000.00			\$5,000.00
Interest.....		\$250.00		
Payments.....			\$250.00	

FUND NO. 33—Alfred Heinsheimer Hospital.

Savings Bank Deposits	\$1,000.00			\$1,000.00
Interest.....		\$40.00		
Payments.....			\$40.00	

FUND NO. 29—George F. Hoar Memorial Statue.

Savings Bank Deposits	\$169.23			\$176.05
Interest.....		\$6.82		

FUND NO. 2—Hope Cemetery Perpetual Care Account.

Savings Bank Deposits	\$105,873.75			\$105,873.75
Securities.....	89,446.80	\$7,672.50		97,119.30
Interest.....		3,952.50		
Interest on Special Ac-				
counts.....		4,234.92		
Special Deposits.....		8,925.00	\$8,925.00	
Care of Lots.....		10,528.98		
Sale of Lots.....		12,352.00		
Memorial Gateway...		4,500.00		
Merchandise.....		784.19		
National Bank De-				
posits.....	1,169.45	8,925.00	7,872.50	2,421.95
Interest.....		17.96		
Interest.....			78.24	
Refunds.....			533.00	
Unexpended Balance,				
Nov. 30, 1916.....	13,452.05			
Sundry Bills (Treas-				
urer's Accounts)....			27,394.72	
Unexpended Balance,				
Nov. 30, 1917.....				21,814.64
	\$209,942.05	\$61,891.05	\$44,803.46	\$227,229.64

FUND NO. 5—George Jaques Hospital.

Mortgages on Real Estate.....	\$187,847.10			\$191,047.10
Payments on Principal New Mortgages.....		\$13,800.00	\$17,089.24	
Interest.....		9,382.59		
National Bank Deposits.....	4,986.21	17,089.24	13,800.00	1,786.21
Interest.....		109.29		
Payments.....			9,491.88	
	<u>\$192,833.31</u>	<u>\$40,381.12</u>	<u>\$40,381.12</u>	<u>\$192,833.31</u>

FUND NO. 13—Librarian.

Savings Bank Deposits	\$11,035.60			\$11,583.97
Interest.....		\$498.37		

FUND NO. 17—David M. McIntire Hospital.

Savings Bank Deposits	\$5,150.00			\$5,150.00
Interest.....		\$206.00		
Payments.....			\$206.00	

FUND NO. 16—Elbridge G. Partridge Hospital.

Savings Bank Deposits	\$1,500.00			\$1,500.00
Interest.....		\$60.00		
Payments.....			\$60.00	

FUND NO. 30—Elnathan Pratt Drinking Fountain.

Savings Bank Deposits	\$1,130.03			\$1,175.67
Interest.....		\$45.64		

FUND NO. 20—Reading Room.

Railroad Stocks.....	\$1,800.00			\$1,800.00
Dividends.....		\$149.25		
Savings Bank Deposits	7,380.94			7,380.94
Interest.....		295.20		
Payments.....			444.45	
	<u>\$9,180.94</u>	<u>\$444.45</u>	<u>\$444.45</u>	<u>\$9,180.94</u>

FUND NO. 37—Lucy W. Rice Hospital.

Mortgage.....	\$5,000.00			\$5,000.00
Interest.....		\$250.00		
Payment.....			\$250.00	

FUND NO. 28—Wm. A. Richardson Park.

Stocks and Bonds....	\$221,227.00			\$221,227.00
Dividends and Interest		\$8,838.00		
Box Rent in Bank....			\$6.00	
Coupon			25.00	
Premium.....		100.00	17.64	
Park Fund Account...			8,837.83	
National Bank De- posit.....	287.64			387.64
Interest.....		48.47		
	<u>\$221,514.64</u>	<u>\$8,986.47</u>	<u>\$8,886.47</u>	<u>\$221,614.64</u>

FUND NO. 9—Stephen Salisbury Hospital.

Savings Bank Deposits	\$5,500.00			\$5,500.00
Interest.....		\$220.00		
Payments.....			\$220.00	

FUND NO. 11—Joseph Sargent Hospital.

Savings Bank Deposits	\$500.00			\$500.00
Interest.....		\$20.00		
Payments.....			\$20.00	

FUND NO. 7—John B. Shaw Hospital.

Savings Bank Deposits	\$2,000.00			\$2,000.00
Interest.....		\$80.00		
Payments.....			\$80.00	

FUND NO. 32—Mary A. Sheedy Library.

Savings Bank Deposits	\$109.50			\$112.00
Interest.....		\$4.00		
Payments.....			\$1.50	

FUND NO. 15—Mary E. D. Stoddard Hospital.

Savings Bank Deposits	\$517.90			\$517.90
Interest.....		\$20.68		
Railroad Stock	4,600.00			4,600.00
Dividends.....		165.00		
Payments.....			\$185.68	
	<u>\$5,117.90</u>	<u>\$185.68</u>	<u>\$185.68</u>	<u>\$5,117.90</u>

FUND NO. 8—Joseph A. Tenney Hospital.

Savings Bank Deposits	\$5,000.00			\$5,000.00
Interest.....		\$200.00		
Payments.....			\$200.00	

FUND NO. 26—Edward C. Thayer Hospital.

Mortgages.....	\$18,700.00			\$19,600.00
Interest.....		\$945.00		
National Bank De- posits.....	994.50			94.50
Interest.....		12.90		
Payments.....			\$957.90	
	<u>\$19,694.50</u>	<u>\$957.90</u>	<u>\$957.90</u>	<u>\$19,694.50</u>

FUND NO. 27—Edward C. Thayer Nurses' Home Fund.

Mortgages.....	\$9,800.00			\$9,800.00
Interest.....		\$490.00		
National Bank De- posits.....	47.25			47.25
Payments.....			\$490.00	
	<u>\$9,847.25</u>	<u>\$490.00</u>	<u>\$490.00</u>	<u>\$9,847.25</u>

FUND NO. 18—Benjamin Walker Hospital.

Savings Bank Deposits	\$1,000.00			\$1,000.00
Interest.....		\$40.00		
Payments.....			\$40.00	

FUND NO. 25—Jerome Wheelock.

Savings Bank Deposits	\$167.51	\$6.94		\$184.45
Interest.....		10.00		
	<u>\$167.51</u>	<u>\$16.94</u>		<u>\$184.45</u>

FUND NO. 22—Maria Gill Wilson Hospital.

Savings Bank Deposits	\$6,500.00			\$6,500.00
Interest.....		\$260.00		
Payments.....			\$260.00	

FUND NO. 38—Wolfe Hospital.

Legacy.....		\$5,851.26		\$5,851.26
Interest.....		144.28	\$144.28	
		<u>\$5,995.54</u>	<u>\$144.28</u>	<u>\$5,851.26</u>

Less unexpended Balance Hope Cemetery Account				<u>\$849,044.79</u>
				<u>21,814.64</u>
				<u>\$827,230.15</u>

In accordance with the provisions of Chapter 322 of the Acts of 1904, I hereby certify that I have audited and investigated the foregoing Trust Funds, and report the same to be true and accurate, November 30, 1917.

FRANK E. WILLIAMSON,
Auditor.

SCHEDULE OF CITY PROPERTY

NOVEMBER 30, 1917

CITY ENGINEER:—		
Personal Property, Instruments, Tools, etc.,		\$3,803.50
CITY HALL:—		
City Offices, Main, Franklin and Front Sts.	\$650,000.00	
Furniture, fixtures (estimated).....	57,012.86	\$707,012.86
CITY HOSPITAL:—		
394,505 feet of land at 25 cents per foot...	\$98,626.25	
Buildings.....	562,874.94	
Furniture, surgical instruments, etc.....	60,217.11	
Nurses' Home, Thomas House and Chandler Street Home.....	71,730.27	
Nurses' Home furniture.....	9,518.26	
Heat, power and laundry plant.....	69,710.39	\$872,677.22
CITY MESSENGER DEPARTMENT:—		
Office supplies on hand.....		\$700.54
CITY SCALES:—		
Lincoln Square, \$400 New Worcester, \$500	\$900.00	
Mason Street, 300 Quinsigamond, 300	600.00	
Franklin Street (rented land).....	400.00	\$1,900.00
CONVENIENCE STATION:—		
Old Common, building concrete.....		\$14,000.00
FIRE DEPARTMENT:—		
Personal Property:		
Seven engines.....	\$15,000.00	
Seventeen hose wagons.....	800.00	
Seven ladder trucks.....	20,500.00	
Water tower.....	6,500.00	
One chemical engine.....	1,500.00	
Fire Chief's automobiles.....	7,800.00	
Three automobile hose wagons.....	13,500.00	
Nine combination motor wagons.....	45,000.00	
One combination motor ladder truck.....	6,000.00	
Five triple combination pumpers.....	40,000.00	
Other personal property, including fire alarm telegraph.....	125,000.00	\$281,600.00

REAL ESTATE:—

Beacon Street House	\$25,000.00	
7,845 ft. of land at 50 cents per ft.	3,922.50	\$28,922.50
Burncoat Street House	\$8,500.00	
7,500 ft. of land at 20 cents per ft.	1,500.00	\$10,000.00
Cambridge Street House	\$6,500.00	
6,132 ft. of land at 15 cents per ft.	927.30	\$7,427.30
Eastern Avenue House	\$20,000.00	
10,141 ft. of land at 15 cts. per ft.	1,521.15	\$21,521.15
Exchange Street House	\$1,000.00	
500 ft. of land at \$4.00 per ft. . . .	2,000.00	\$3,000.00
Franklin Street House	\$9,000.00	
Land donated by William Putnam	500.00	\$9,500.00
Grafton Street House	\$5,000.00	
On Schoolhouse Lot		\$5,000.00
Grove Street:		
Land		\$300.00
John Street House	\$4,000.00	
1,837 ft. of land at 50 cts. per ft..	918.50	\$4,918.50
Lake View (Lake View Improvement Soc'y): 6,145 ft. of land at 7 cts. per ft.		\$430.15
Lamartine Street House	\$4,000.00	
7,206 ft. of land at 20 cts. per ft..	1,441.20	\$5,441.20
Mercantile, Union and Foster Sts.: House	\$125,000.00	
25,607 ft. of land at \$2.25 per ft..	57,615.75	\$182,615.75
Millbury Street House	\$5,000.00	
Leased land (American Steel and Wire Co.)		\$5,000.00
Pleasant Street House	\$10,000.00	
6,366 ft. of land at 50 cts. per ft..	3,183.00	\$13,183.00
Portland Street House	\$15,000.00	
6,429 ft. of land at 55 cts. per ft..	3,535.95	\$18,535.95
Prescott Street House	\$7,500.00	
6,762 ft. of land at 50 cts. per ft..	3,381.00	\$10,881.00
Providence Street House	\$18,000.00	
9,993 ft. of land at 20 cts. per ft..	1,998.60	\$19,998.60
School Street House	\$30,000.00	
9,201 ft. of land at 65 cts. per ft..	5,980.65	\$35,980.65

Union Square House.....	\$5,000.00		
On Schoolhouse Lot.....		\$5,000.00	
Webster Street House.....	\$15,000.00		
10,046 ft. of land at 25 cts. per ft.	2,511.50	\$17,511.50	
West Boylston Street House.....	\$12,000.00		
10,038.95 ft. of land at 15 cts. per ft.....	1,505.75	\$13,505.75	
Woodland Street House.....	\$6,000.00		
5,382 ft. of land at 40 cts. per ft..	2,152.80	\$8,152.80	\$426,825.80
HEALTH DEPARTMENT:—			
Ambulances (two).....	\$300.00		
Automobile.....	1,000.00		
Laboratory and fixtures.....	500.00		
Laboratory (milk inspection)...	2,100.00	\$3,900.00	
Belmont Hospital.			
Hospital tract 4.75 acres of land.	\$4,500.00		
Putnam gift, 4.99 acres of land.	4,500.00		
80,000 ft. of land.....	5,675.00		
Administration building.....	32,000.00		
Old west ward.....	11,000.00		
Old east ward.....	11,000.00		
New east ward.....	15,000.00		
Laundry building.....	9,000.00		
Boiler house and stack.....	35,000.00		
Tenement house.....	3,000.00		
Putnam ward.....	95,000.00		
Service building.....	44,000.00		
Connecting corridors.....	11,600.00		
Furniture and equipment.....	25,000.00	\$306,275.00	
Pest House, Lincoln Street.			
Building (on Home Farm land)	\$5,000.00		
Furniture and Equipment.....	300.00	\$5,300.00	
Bathhouses, Lake Avenue.			
Men's building.....	\$9,500.00		
Women's building.....	12,000.00		
Boats and bathing cribs.....	656.70		
Furniture.....	94.48	\$22,251.18	
Incinerator, Albany Street.			
Building.....	\$16,000.00		
17,627 ft. of land.....	4,514.02	\$20,514.02	\$358,240.20
HOPE CEMETERY:—			
Curtis Chapel.....	\$15,000.00		
Superintendent's house.....	7,500.00		
House, 115 Webster Street.....	3,200.00		
Office and storehouse.....	1,800.00		
Barns, sheds, etc.....	3,800.00	\$31,300.00	
Personal Property.			
Horses.....	\$1,275.00		
Furniture, wagons, etc.....	3,804.70	\$5,079.70	\$36,379.70

INSPECTION AND CONSTRUCTION OF BUILDINGS DEPARTMENT

Personal Property.

Automobile (Bailey).....	\$900.00		
Automobile (Velie).....	1,000.00		
Caretakers' supplies, Convenience Station	163.82		
Carpentry supplies at shop....	275.81		
Janitors' supplies and school furniture at shop	5,355.32		
Painters' stock at shop	108.80		
Plumbers' supplies at shop....	1,162.41		
Plumbers' tools and machinery at shop	259.36		
Property at Department office..	400.00		
Shop office furnishings	113.40		
Ward room and booth furnishings	480.74		
Woodworking machinery at shop	1,051.59		
Woodworking tools at shop.....	52.98	\$11,823.73	
Flag pole on Common	\$400.00		
Flag pole, Stearns Square.....	400.00	\$800.00	
Voting Booth, Permanent.			
Booth and storage shed.....		\$540.00	
Voting Booths, Portable.			
Eleven booths at \$200.00.....		\$2,200.00	
Workshop and storehouse, Shrewsbury Street.			
Building	\$17,000.00		
8,887 ft. of land at \$1.00 per ft....	8,887.00	\$25,887.00	
Rifle Range.			
Land	\$4,277.14		
Range House	6,963.18		
Caretaker's House	3,475.82		
Supplies and furnishings	584.14		
General equipment and improvement	16,998.04	\$82,248.82	\$72,999.05

LAW DEPARTMENT:—

Books and supplies..... \$775.00

OVERSEERS OF POOR DEPARTMENT:—

Personal Property	\$93,154.80
Land—	
96 acres cleared land	
75 acres wood land	
25 acres Bond meadow	
138 acres, Heywood Farm	
42 acres, Cobb lot	
376 acres at \$200.00 per acre...	\$75,200.00
Buildings—	
Alms-house building and additions therewith, including boiler house and all permanent fixtures and apparatus therein..	\$89,856.00

Horse and cow barns with connecting sheds.....	\$21,500.00		
Piggeries.....	15,000.00		
Hen houses.....	10,000.00		
Lumber shed.....	100.00		
Hose house.....	400.00		
Frame wheel house.....	500.00		
Ice house.....	500.00		
Celery and cabbage house.....	200.00		
Cement house.....	200.00		
Cement coal pocket.....	400.00		
Cottage.....	1,500.00		
Barn.....	1,000.00	\$141,156.00	\$309,510.80

PUBLIC PARKS:—

Boynton Park.....	113.00 acres
Burncoat Park.....	41.51 acres
Brooks Street Land.....	.175 acres
Chandler Hill Park.....	80.84 acres
Common.....	4.8 acres
Crompton Park.....	15.25 acres
Dodge Park.....	13. acres
Elm Park.....	88. acres
Fairmount Square.....	.95 acres
Grant Square.....	1.55 acres
Green Hill Park.....	500. acres
Hadwen Park.....	50. acres
Institute Park.....	25.44 acres
Lake Park.....	110. acres
Middle River Park.....	8.1 acres
North Shore Reservation....	5.95 acres
Salisbury Park.....	19.99 acres
University Park.....	14. acres

1,092.055 acres not appraised

Buildings, towers, shelters, etc..... \$86,853.00

Animals:

Horses.....	\$1,000.00	
Deer and elk.....	475.00	
Water fowl.....	108.65	\$1,583.65

Automobiles:

Ford.....	\$200.00	
Saxon.....	600.00	\$800.00

Personal Property:

Greenhouse stock and tools.....	\$417.00	
Hardware and supplies.....	559.41	
Mansion house equipment.....	659.80	
Nursery.....	9,000.00	
Paints and oils.....	310.47	
Park furnishings.....	6,469.50	
Refectory furnishings.....	\$1,010.32	
Stable equipment and supplies.	1,410.20	
Surveying instruments.....	180.00	
Tools.....	3,007.76	\$22,974.46
		<u>\$112,211.11</u>

MOTH AND BEETLE ACCOUNT:—

Spraying machines, tools and supplies	\$4,067.47		
Truck	1,500.00	\$5,567.47	\$5,567.47
	<hr/>		

PUBLIC PLAYGROUNDS:—

Beaver Brook Playground, 15-49 acres	\$36,000.00		
Greenwood Park Playground, 15.20 acres	20,422.94		
Kendrick Field Playground, 14-87 acres	18,900.00		
South Worcester Playground, 4.54 acres	29,974.27		
Tatnuck Playground, 2.94 acres	4,500.00		
Vernon Hill Playground, 16-43 acres	31,600.00	\$136,397.21	
	<hr/>		
Swimming beaches.			
Bell Pond, 3.5 acres	\$5,000.00		
Indian Lake, 1.14 acres	2,497.00	\$7,497.00	
	<hr/>		
Buildings, tennis court fences and backstops		\$30,030.04	
Playground equipment, including apparatus		\$5,344.78	
Playground supplies, including hardware and tools		\$1,298.00	
Office supplies		\$25.00	
		<hr/>	
			\$180,592.03

POLICE DEPARTMENT:—

Station No. 1, Waldo Street:			
14,569 ft. of land at \$3.00 per ft.	\$43,707.00		
Building (new headquarters) cost to date	197,118.54		
Personal Property	20,183.81		
Automobiles	8,800.00		
Gamewell System	5,000.00		
Motorcycles and supplies	1,906.00		
Revolvers, holsters and handcuffs	5,322.50		
Cloth, clothing and insignia	1,639.49	\$283,677.34	
	<hr/>		
Sub-station, Lake View:			
Building	\$2,000.00		
Boats and boathouse	440.00		
Personal Property	155.00	\$2,595.00	
	<hr/>		
Station No. 2, Lamartine Street:			
11,030 ft. of land at 20 cts. per ft.	\$2,206.00		
Building	15,454.24		
Personal Property	406.25		

Automobile.....	1,500.00	
Garnewell System.....	890.00	\$20,456.49
<hr/>		
Station No. 3, Grand Street:		
Personal Property.....	\$621.30	\$621.30
<hr/>		
Station No. 4, Grove Street:		
Personal Property.....	\$916.75	\$916.75
<hr/>		
Central District Court House, Waldo		
Street:		
7,525 ft. of land at \$3.00 per ft...	\$22,575.00	
Building.....	20,000.00	\$42,575.00
<hr/>		

\$350,841.88

PUBLIC LIBRARY DEPARTMENT:—

Personal Property.....		\$185,000.00	
Library building.....	\$28,000.00		
Library building, addition.....	4,000.00		
17,574 ft. of land at \$2.50 per ft...	43,935.00		
New building.....	100,000.00		
Greendale branch library.....	27,000.00		
Quinsigamond branch library.....	26,000.00		
South Worcester branch library...	23,000.00	\$251,935.00	\$436,935.00
<hr/>			

SCHOOL DEPARTMENT:—

Books, supplies and apparatus.....	\$138,125.00	
Janitors' supplies and school furniture at schools	197,638.34	
Schoolhouses.		
High School of Commerce.....	\$377,050.00	
35,163 ft. of land at \$1.00 per ft....	35,163.00	
6,293 ft. of land.....	6,700.00	
10,300 ft. of land.....	26,236.53	
<hr/>		
		\$445,149.53
Classical High Schoolhouse.....	\$190,000.00	
30,000 ft. of land at \$1.00 per ft....	30,000.00	
<hr/>		
		\$220,000.00
North High Schoolhouse.....	\$335,747.39	
81,211 ft. of land.....	46,828.80	
<hr/>		
		\$382,576.19
South High Schoolhouse.....	\$180,000.00	
51,499 ft. of land at 50 cents per ft.	25,749.50	
<hr/>		
		\$205,749.50
Abbott Street Schoolhouse.....	\$55,000.00	
41,273 ft. of land at 10 cents per ft.	4,127.30	
<hr/>		
		\$59,127.30
Adams Square Schoolhouse.....	\$45,000.00	
24,709 ft. of land.....	3,218.06	
<hr/>		
		\$48,218.06

Adams Street Schoolhouse.....	\$45,898.89	
30,000 ft. of land.....	3,000.00	
		\$48,898.89
Andover Street Schoolhouse.....	\$51,808.54	
42,631 ft. of land at 11½ cents per ft.	4,902.57	
		\$56,706.11
Armandale Street Schoolhouse....	\$500.00	
5,061 ft. of land at 15 cents per ft...	759.15	
		\$1,259.15
Ash Street Schoolhouse.....	\$13,500.00	
13,422 ft. of land at 35 cents per ft.	4,697.70	
		\$18,197.70
Belmont Street Schoolhouse.....	\$50,000.00	
89,930 ft. of land at 40 cents per ft.	15,972.00	
		\$65,972.00
Blithewood Avenue Schoolhouse..	\$5,000.00	
45,743 ft. of land at ½ cent per ft.	228.72	
		\$5,228.72
Bloomington Schoolhouse.....	\$57,643.02	
6,373 ft. of land (value undetermined)		
5,889 ft. of land.....	600.00	
27,190 ft. of land at 6 cents per ft..	1,631.40	
		\$59,874.42
Burncoat Street Schoolhouse....	\$42,341.29	
72,720 ft. of land.....	9,727.60	
		\$52,068.89
Burncoat Plain Schoolhouse.....	\$1,500.00	
23,769 ft. of land at 2 cents per ft.	475.38	
		\$1,975.38
Cambridge Street Schoolhouse No. 1.....	\$65,137.40	
Cambridge Street Schoolhouse No. 2.....	27,000.00	
32,589 ft. of land at 15 cents per ft.	4,888.35	
		\$97,025.75
Canterbury Street Schoolhouse No. 1.....	\$45,000.00	
Canterbury Street Schoolhouse No. 2.....	35,000.00	
41,893 ft. of land at 15 cents per ft.	6,283.95	
		\$86,283.95
Chamberlain District Schoolhouse (sold in May, 1914).....		
21,780 ft. of land at 5 cents per ft..		\$1,089.00

Chandler Street Schoolhouse	\$35,000.00	
34,977 ft. of land at 35 cents per ft.	12,241.95	
	<hr/>	\$47,241.95
Columbus Park Schoolhouse	\$48,113.75	
46,455 ft. of land, including extra grading	11,151.43	
	<hr/>	\$59,265.18
Dartmouth Street Schoolhouse . .	\$68,000.00	
32,250 ft. of land at 10 cents per ft.	3,225.00	
8,250 ft. of land	2,168.29	
	<hr/>	\$73,393.29
Dix Street Schoolhouse No. 1	\$40,000.00	
Dix Street Schoolhouse No. 2	38,000.00	
35,189 ft. of land at 25 cts. per ft. . .	8,797.25	
	<hr/>	\$86,797.25
Downing Street Schoolhouse	\$45,000.00	
36,343 ft. of land at 15 cents per ft.	5,451.45	
	<hr/>	\$50,451.45
East Kendall Street Schoolhouse . .	\$70,000.00	
27,832 ft. of land at 15 cents per ft.	4,174.80	
	<hr/>	\$74,174.80
Edgeworth Street Schoolhouse . . .	\$65,000.00	
30,761 ft. of land at 8 cents per ft. . .	2,460.88	
	<hr/>	\$67,460.88
Elizabeth Street Schoolhouse	\$45,000.00	
30,486 ft. of land at 18 cents per ft.	5,487.48	
	<hr/>	\$50,487.48
Freeland Street Schoolhouse	\$45,000.00	
29,623 ft. of land at 30 cents per ft.	8,886.90	
	<hr/>	\$53,886.90
Gage Street Schoolhouse	\$60,000.00	
40,864 ft. of land at 15 cents per ft.	6,129.60	
	<hr/>	\$66,129.60
Gates Lane Schoolhouse	\$60,000.00	
46,288 ft. of land at 15 cents per ft.	6,943.20	
	<hr/>	\$66,943.20
Grafton Street (Pine Hill Road Schoolhouse site)		
111,820 ft. of land (value undeter- mined)		
Grafton Street Schoolhouse No. 1..	\$30,000.00	
Grafton Street Schoolhouse No. 2..	60,000.00	
51,250 ft. of land at 25 cents per ft.	12,812.50	
	<hr/>	\$102,812.50

Greendale Schoolhouse No. 1.....	\$2,000.00	
13,991 ft. of land at 10 cents per ft.	1,899.10	
	<hr/>	\$3,899.10
Greendale Schoolhouse No. 2.....	\$45,000.00	
25,816 ft. of land at 6 cents per ft. .	1,548.96	
	<hr/>	\$46,548.96
Harlow Street Schoolhouse.....	\$69,923.06	
29,698 ft. of land at 15 cents per ft.	4,454.70	
	<hr/>	\$74,377.76
Jamesville Schoolhouse.....	\$4,000.00	
23,230 ft. of land at 5 cents per ft.	1,161.50	
	<hr/>	\$5,161.50
Lake View Schoolhouse.....	\$12,000.00	
23,526 ft. of land at 5 cents per ft.	1,176.30	
	<hr/>	\$13,176.30
Lamartine Street Schoolhouses:		
House No. 1.....	\$22,000.00	
House No. 2.....	40,000.00	
House No. 3.....	86,847.46	
48,182 ft. of land at 20 cents per ft.	9,686.40	
27,551 ft. of land at 25 cents per ft.	6,887.75	
	<hr/>	\$164,871.61
Ledge Street Schoolhouses:		
House No. 1.....	\$40,452.90	
House No. 2.....	73,000.00	
10,320 ft. of land at 40 cents per ft.	4,128.00	
8,374 ft. of land at 60 cents per ft.	5,024.40	
40,890 ft. of land at 20 cents per ft.	8,178.00	
	<hr/>	\$130,783.30
Lee Street Schoolhouse.....	\$15,000.00	
29,191 ft. of land at 15 cents per ft.	4,378.65	
	<hr/>	\$19,378.65
Ludlow Street Schoolhouse (Valley Falls).....	\$20,000.00	
27,580 ft. of land at 6 cts. per foot	1,654.80	
	<hr/>	\$21,654.80
Malvern Road Schoolhouse.....	\$46,788.60	
36,975 ft. of land at 8 cts. per ft....	2,958.00	
	<hr/>	\$49,746.60
Mason Street Schoolhouse.....	\$6,000.00	
13,315 ft. of land at 25 cents per ft.	3,328.75	
	<hr/>	\$9,328.75
May Street schoolhouse site.....		
8,712 ft. of land (value undetermined)		
Midland Street Schoolhouse.....	\$64,135.45	
27,000 ft. of land.....	4,482.08	
	<hr/>	\$68,617.53

Millbury Street Schoolhouses:		
House No. 1	\$26,000.00	
House No. 2	14,000.00	
House No. 3	20,000.00	
House No. 4	40,000.00	
103,013 ft. of land at 15 cents per ft.	15,451.95	
		\$115,451.95
North Pond Schoolhouse	\$3,500.00	
22,046 ft. of land at 3 cents per ft.	661.38	
		\$4,161.38
North Worcester Schoolhouse ...	\$2,500.00	
43,660 ft. of land	500.00	
		\$3,000.00
Oxford Street Schoolhouse	\$25,000.00	
16,914 ft. of land at \$1.40 per ft.	23,679.60	
		\$48,679.60
Portable Schoolhouses:		
Belmont Street House	\$1,500.00	
Blithewood Avenue Houses (2)...	3,000.00	
Canterbury Street House	1,500.00	
Gates Lane House	1,500.00	
Grafton Street House	1,500.00	
Providence Street House	1,210.00	
Tatnuck House	1,500.00	
Union Hill House	1,500.00	
Upsala Street House	1,500.00	
		\$14,710.00
Providence Street Schoolhouses:		
House No. 1	\$25,000.00	
House No. 2	45,000.00	
49,995 ft. of land at 50 cents per ft.	24,997.50	
		\$94,997.50
Quinsigamond Schoolhouses:		
House No. 1	\$20,000.00	
House No. 2	35,000.00	
House No. 3	30,000.00	
49,990 ft. of land at 12½ cts. per ft.	6,248.75	
35,040 ft. of land	7,000.00	
		\$98,248.75
Rice Square Schoolhouse	\$76,439.22	
95,470 ft. of land	8,953.28	
		\$85,392.50
Salem Street Schoolhouse	\$15,000.00	
12,780 ft. of land at 50 cents per ft.	6,390.00	
		\$21,390.00

Sever Street Schoolhouse	\$38,000.00		
18,396 ft. of land at 40 cents per ft.	7,858.40		
			\$45,858.40
Sycamore Street Schoolhouse	\$18,000.00		
12,600 ft. of land at 60 cents per ft.	7,560.00		
			\$25,560.00
Tatnuck Schoolhouse No. 1	\$3,000.00		
19,965 ft. of land at 8 cents per ft.	1,597.20		
			\$4,597.20
Tatnuck Schoolhouse No. 2	\$40,814.27		
49,593 ft. of land, including extra grading	13,564.21		
			\$54,378.48
Thomas Street Schoolhouse	\$30,000.00		
23,433 ft. of land	12,888.15		
			\$42,888.15
Trowbridgeville Schoolhouse	\$13,100.84		
26,825 ft. of land at 6 cents per ft. .	1,609.50		
			\$14,710.34
Union Hill Schoolhouse	\$45,000.00		
23,660 ft. of land at 15 cents per ft.	3,549.00		
			\$48,549.00
Upsala Street Schoolhouse	\$60,000.00		
39,183 ft. of land at 10 cents per ft.	3,918.30		
10,000 ft. of land	1,650.00		
			\$65,568.30
Walnut Street Schoolhouse	\$14,000.00		
9,205 ft. of land at \$1.10 per ft. . . .	10,125.50		
			\$24,125.50
Ward Street Schoolhouse	\$55,000.00		
33,325 ft. of land at 20 cents per ft.	6,665.00		
			\$61,665.00
Washington Street Schoolhouse . .	\$3,000.00		
7,704 ft. of land at 60 cents per ft.	4,622.40		
			\$7,622.40
Webster Square Schoolhouse	\$10,000.00		
23,943 ft. of land at 20 cents per ft.	4,789.60		
			\$14,789.60
West Boylston Street Schoolhouse	\$52,364.48		
27,863 ft. of land at 20 cents per ft.	5,573.60		
			\$57,938.08

Winslow Street Schoolhouse	\$30,000.00	
24,325 ft. of land at 40 cents per ft.	9,730.00	
		\$39,730.00
Woodland Street Schoolhouses:		
House No. 1	\$30,000.00	
House No. 2	12,000.00	
40,424 ft. of land at 40 cents per ft.	16,169.60	
		\$53,169.60
New Woodland Street Schoolhouse	\$40,000.00	
46,380 ft. of land at 25 cents per ft.	11,595.00	
		\$51,595.00
		<u>\$4,700,529.95</u>

INDEPENDENT INDUSTRIAL SCHOOLS:—**Boys' School:**

65,643 ft. of land at Armory Sq.	\$32,831.83	
Building No. 1	56,848.04	
Building No. 2	89,809.58	
Railroad sidings	146.00	
Equipment, including furniture, machinery, fixtures, small tools, apparatus and power plant	80,096.42	
Class rooms, office, hall, etc.	5,573.81	
Gymnasium	1,781.32	
		\$267,087.00

Girls' School:

Land on High Street	\$70,000.00	
Furniture and Equipment	6,275.00	
Material and made-up stock	1,975.00	\$78,250.00

\$345,337.00

Land and Buildings on Grove Street are donated.
Land and Buildings on State Street are leased.

SEALER OF WEIGHTS AND MEASURES DEPARTMENT:—

Automobile (Buick)	\$500.00	
Automobile (Ford)	150.00	
		\$650.00
Scales, weights and measures		603.31
Tools		38.50
Typewriter, books, etc.		107.50

\$1,399.31

SEWER DEPARTMENT:—

Shop and stock yard:	
Personal property	\$50,202.42
Stock on hand	13,291.84
Buildings and machinery, E. Worcester Street	12,287.25
Land, 1,700 ft. on Hammond St.	425.00
Land, 15,855 ft. on E. Worcester Street	11,900.00

Land, 33,221 ft. on E. Worcester St.....	24,900.00	\$113,006.51
Purification Works:		
Personal property.....	\$12,545.95	
Stock on hand.....	1,560.19	
Land, including damages, court services and appraisal of property.....	109,080.31	
Precipitation plant.....	265,628.75	
Buildings and machinery.....	50,486.50	
Grit chamber and extension of Outfall Sewer.....	10,717.24	
New Outfall Sewer.....	257,590.36	
Filtration area.....	308,812.44	
Construction railroad equipment, including cars, steam shovel and locomotives.....	*6,458.44	
Experimental activated sludge plant	6,140.00	
		<u>\$1,028,970.18</u>
Pumping Stations:		
Gold Street, land, 360 ft.....	\$500.00	
Gold Street, building and machinery.....	3,894.82	
Lake Avenue, land, 5,851 ft.....	1,462.75	
Lake Avenue, building and machinery.....	18,425.52	
Lake View storage chambers.....	2,845.64	
Massasoit Road, land 12,854 ft....	642.70	
Massasoit Road, building and machinery.....	2,966.90	
		<u>\$30,738.33</u>
Sewer system, including cost of sewers, catch basins, etc.		
Separating system (Statutes of 1897 and 1900).....	\$993,502.07	
General construction.....	4,832,225.90	
		<u>\$5,825,727.97</u>
Beaver Brook.		
Improvement.....	\$191,066.52	
Middle River.		
Improvement.....	30,083.29	
		<u>\$7,219,592.80</u>
STREET DEPARTMENT:—		
Personal property.		
Automobiles, trucks, etc.....	\$12,575.00	
Furniture.....	700.00	
Harnesses, robes, blankets, etc....	2,677.20	

* Personal property, but not included in that item under Purification.

Hay, grain and straw.....	2,886.00
Live stock, 39 horses.....	10,279.00
Machinery and tools.....	15,189.10
Materials in stock.....	10,272.50
Rolling stock.....	11,863.00
Scales and buildings.....	481.00
Steam rollers, ten.....	15,600.00
Stone crusher, buildings, etc.....	7,800.00
Trestle.....	10,000.00

Real Estate.		\$99,722.80
24,640 ft. of land on Albany St.	\$7,892.00	
30,785 ft. of land on Harlow St...	5,557.00	
85,000 ft. of land on Millbury and Ballard Streets.....	850.00	
64,904.4 acres of land, cor.Pleasant and Mower Streets.....	6,490.44	
74,698 ft. of land on Salem St.	74,698.00	
Stables and sheds, Salem Street...	57,899.49	
9,504 ft. of land on Southbridge St. with buildings thereon.....	9,500.00	\$162,386.93

\$262,109.73

STREET LIGHTING DEPARTMENT:—

16,235 ft. of land including cost of grading and spur track to date		\$3,137.15
Buildings, tanks and fixtures.....		2,824.64

Lamp fixtures in streets.

619 gas posts for Welsbach lights at \$10.00.....	6,190.00
Lamp fixtures at shop.....	665.00
Tools at shop.....	255.75

\$12,572.54

SUPERVISION OF WIRES DEPARTMENT:—

Automobiles.....	\$800.00
Badges, gauges, etc.....	12.00
Ladders, climbing irons and small tools.....	10.00
Testing instruments.....	75.00
Typewriter.....	100.00

\$997.00

WATER DEPARTMENT:—

Real Estate.

59,410 ft. of land at 25 cents per ft..	\$14,852.50
Buildings—Albany Street yard....	500.00
20,176 ft. of land at 75 cents per ft.	15,132.00
Buildings—East Worcester Street yard.....	54,500.00
Asnebumskit Reservoir, Kendall— Buildings.....	4,700.00
Holden Reservoir—Buildings.....	4,300.00

Kettle Brook Reservoir, Leicester— Buildings.....	4,800.00	
Lynde Brook Reservoir, Leicester— Buildings.....	3,800.00	<u>\$101,584.50</u>

Reservoirs, gate houses and land at re- servoirs.....	\$2,550,000.00	
Asnebumskit development.....	1,471,590.10	
Pipe system.....	3,068,959.22	<u>\$7,090,549.12</u>

Personal property.....	\$274,107.58	
At Holden, stock and tools.....	899.30	
At Kettle Brook, stock and tools.....	195.75	
At Parson's Reservoir, stock and tools.....	160.50	
At Lynde Brook, stock and tools.....	65.00	
{ At Asnebumskit, stock and tools.....	53,859.16	
Kettle Brook, tools at Asnebumskit.....		
Metropolitan pipe line.....	177,021.00	
Metropolitan pumping plant and intakes....	12,000.00	
Eagle Lake, pumps and intakes.....	500.00	
Kendall Wells, pumps, engines, etc.....	1,000.00	
Coes Reservoir, pumping plant.....	1,500.00	<u>\$7,713,442.11</u>
		<u>\$24,428,552.60</u>

SPARE LAND.

Ballard Street,	1.95 acres
Mower Street,	1.49 acres
North Pond (Indian Lake)	$\frac{7}{8}$ ths

LEASE.

To Knights of Columbus—Alhambra Council, No. 88

A portion of the land on the Free Public Library location to be used for a swimming tank, at a rental of ten dollars annually, to terminate on giving three months' notice.

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS

WORCESTER, MASS., Dec. 29, 1917.

To the Honorable City Council of the City of Worcester:—

In compliance with the provisions of Chapter 35 of the Revised Ordinances of 1909, the undersigned submit the following report of their transactions on account of the several funds in their charge for the financial year ending November 30, 1917:

Balance November 29, 1916.....	\$6,373,401.12
Receipts during the year.....	777,745.99
	<hr/>
	\$7,151,147.11
Payments during the year.....	444,412.23
	<hr/>
Balance November 30, 1917.....	\$6,706,734.88

The several securities and cash balances belonging to each of the City Sinking Funds have been carefully examined by the undersigned and found to agree with the account thereof rendered by the Treasurer. Sundry statements, prepared by Harry C. Smith, City Treasurer and Collector of Taxes and Treasurer of the Board, showing the receipts and payments on account of the several funds, together with the investments and cash balances, as carried forward at the end of the financial year, are appended to this report and make a part thereof.

Respectfully submitted,

JAMES LOGAN, *Chairman*,
G. W. MACKINTIRE,
A. G. BULLOCK,

Commissioners of the Sinking Funds of Worcester.

CITY SINKING FUND

DECEMBER 1, 1916, TO NOVEMBER 30, 1917

No.	TITLE OF FUND	Amounts Dec. 1, 1916	Receipts During Year	Totals	Payments During Year	Amounts Nov. 30, 1917
22	Park Loan, 1888	\$98,338.07	\$5,650.70	\$98,988.77	\$28.80	\$98,959.97
24	Water Loan, 1888	144,014.38	5,874.95	149,889.28	47.68	149,841.60
25	Park Loan, 1889	22,369.02	1,287.10	23,656.12	7.99	23,648.13
26	Water Loan, 1889	189,557.83	7,683.18	197,221.01	54.54	197,166.47
28	Water Loan, 1890	26,377.66	1,026.00	27,403.66	24.32	27,379.34
30	Water Loan, 1891	57,852.42	2,293.90	60,146.32	17.95	60,128.37
31	Water Loan, 1892	118,697.51	4,617.90	123,315.41	27.13	123,288.28
35	Water Loan, 1893	88,269.66	1,550.00	89,819.66	.....	89,819.66
37	Water Loan, 1894	36,073.07	1,447.70	37,520.77	16.91	37,503.86
42	Water Loan, 1895	34,193.98	1,337.25	35,531.13	6.07	35,525.11
43	Water Loan, 1895	35,558.97	1,420.20	36,979.17	16.90	36,962.27
48	Water Loan, 1895	68,177.31	3,322.89	71,500.20	27.71	71,472.49
49	Water Loan, 1896	17,143.78	892.70	18,036.48	5.20	18,031.28
50	City Hall Loan, 1895	31,338.96	2,220.00	33,558.96	29.64	33,529.32
51	Water Loan, 1896	32,947.33	1,502.70	34,450.03	5.20	34,444.83
53	City Hall Loan, 1896	60,767.72	3,696.40	64,464.12	24.82	64,439.30
55	City Hall Loan, 1896	94,358.42	5,222.51	99,580.93	33.68	99,547.25
58	Water Loan, 1897	126,583.70	6,384.52	132,968.22	67.32	132,900.90
59	City Hall Loan, 1897	109,228.72	7,979.60	117,208.32	121.39	117,086.93
62	Water Loan, 1897	63,605.50	3,154.10	66,759.60	36.39	66,723.21
63	Schoolhouse Loan, 1897	54,382.94	1,068.94	55,451.88	55,461.88	.....
64	City Hall Loan, 1897	81,885.63	6,165.00	88,040.63	53.16	87,987.47
66	Sewer Loan, 1897	108,955.64	8,588.20	117,543.84	60.12	117,483.72
67	Water Loan, 1898	117,778.17	6,164.30	123,942.47	82.59	123,859.88
69	Water Loan, 1898	87,015.07	4,727.80	91,742.87	60.55	91,682.32
71	Water Loan, 1898	151,055.39	11,788.90	162,844.29	192.33	162,651.96
75	Water Loan, 1899	14,186.93	718.95	14,900.88	5.20	14,895.68
76	Water Loan, 1899	364,205.97	18,137.45	382,343.42	119.92	382,223.50
78	New H. S. Bldg. Loan, 1899	43,273.84	3,558.90	46,832.74	15.65	46,817.09
79	Water Loan, 1899	26,952.75	1,610.50	28,563.25	24.70	28,538.55
80	Schoolhouses Loan, 1899	14,923.02	1,376.90	16,299.92	17.60	16,282.32
81	New H. S. Bldg. Loan, 1899	98,002.55	7,718.00	105,715.55	121.31	105,594.24
82	Sewer Loan, 1899	78,150.67	6,961.27	85,111.94	82.05	85,029.89
83	New H. S. Bldg. Loan, 1900	24,264.64	2,091.40	26,356.04	31.49	26,324.55
84	Sewer Loan, 1900	15,842.47	1,374.10	17,216.57	19.69	17,196.88
85	Water Loan, 1900	124,301.57	7,641.27	131,942.84	62.35	131,880.49
86	Sewer Loan, 1900	84,362.93	7,055.30	91,418.23	110.05	91,308.18
88	Sewer Loan, 1901	39,317.93	3,443.50	42,761.43	44.21	42,717.22
89	Water Loan, 1901	70,832.78	4,147.50	74,980.28	57.15	74,923.13
90	Sewer Loan, 1901	38,893.06	3,371.00	42,264.06	41.93	42,222.13
91	New H. S. Bldg. Loan, 1901	14,584.01	1,367.50	15,941.51	17.98	15,923.53
94	Schoolhouse Loan, 1901	68,767.66	6,178.30	74,945.96	83.96	74,862.00
95	Water Loan, 1901	15,378.17	971.60	16,349.77	21.92	16,327.85
98	Sewer Loan, 1902	22,171.54	2,246.60	24,418.14	35.02	24,383.12
99	Water Loan, 1902	32,847.94	2,003.90	34,851.84	32.83	34,819.01
103	Schoolhouse Loan, 1902	49,993.78	4,678.30	54,672.08	38.34	54,633.74
104	Sewer Loan, 1902	12,368.66	914.90	13,283.56	8.86	13,274.70
107	Water Loan, 1902	21,295.67	1,384.10	22,679.77	19.69	22,660.08
109	Water Loan, 1902	20,307.51	1,425.15	21,732.66	18.89	21,713.77
111	Sewer Loan, 1903	9,609.41	796.40	10,405.81	14.49	10,391.32
112	Water Loan, 1903	41,649.04	2,594.40	44,243.44	27.46	44,215.98
113	Sewer Loan, 1903	3,484.32	255.00	3,739.32	10.92	3,728.40
114	Water Loan, 1903	11,703.12	620.20	12,323.32	5.20	12,318.12
115	Park Loan, 1902	3,164.53	272.50	3,437.03	5.46	3,431.57
116	Water Loan, 1904	47,340.37	3,298.00	50,638.37	46.27	50,592.10
119	Sewer Loan, 1904	9,597.57	953.90	10,551.47	2.78	10,548.69
120	Water Loan, 1904	23,257.77	1,728.60	24,986.37	25.61	24,960.76
121	Water Loan, 1904	7,994.36	522.50	8,516.86	5.46	8,511.40
124	Sewer Loan, 1905	8,555.06	1,155.38	9,710.44	23.36	9,687.08
126	Water Loan, 1905	4,506.14	436.40	4,942.54	2.78	4,939.76
129	Water Loan, 1904	17,509.39	1,452.70	18,962.09	29.65	18,932.44
134	Water Loan, 1906	6,417.93	627.70	7,045.63	5.20	7,040.43
135	Sewer Loan, 1906	4,996.63	684.10	5,680.73	7.98	5,672.75
140	Schoolhouse Loan, 1907	22,049.62	475.00	22,524.62	22,524.62	.....

CITY SINKING FUND—Continued

No.	TITLE OF FUND	Amounts Dec. 1, 1915	Receipts During Year	Totals	Payments During Year	Amounts Nov. 30, 1917
141	Water Loan, 1907	84,769.55	1,338.75	86,108.30	86,108.30	.....
142	Isol. Hosp. Loan, 1907	46,129.99	810.00	46,939.99	46,939.99	.....
143	Sewer Loan, 1907	50,047.32	1,192.50	51,239.82	51,239.82	.....
144	H. School Rep. Loan, 1907	17,436.02	516.25	17,951.27	17,951.27	.....
146	Schoolhouse Loan, 1907	48,149.43	1,115.00	49,264.43	49,264.43	.....
146	Street Paving Loan, 1907	50,068.40	1,175.00	51,243.40	51,243.40	.....
147	School Repairs Loan, 1907	11,963.11	301.25	12,264.36	12,264.36	.....
148	Home Farm Loan, 1907	10,089.37	285.00	10,374.37	10,374.37	.....
149	Street Paving Loan, 1907	4,014.19	460.00	4,474.19	4,464.19	.....
150	Beaver Brook Loan, 1907	6,904.65	25,957.06	32,861.71	32,861.71	.....
151	Street Paving Loan, 1908	44,814.74	5,250.00	50,064.74	41.50	50,023.24
152	Sewer Loan, 1908	22,350.74	12,100.00	34,450.74	51.23	34,399.51
153	Schoolhouse Loan, 1908	13,002.66	17,974.16	30,976.82	105.00	30,871.82
154	Rifle Range, 1908	10,566.18	3,021.80	13,587.98	8.24	13,579.74
155	Water Loan, 1908	30,164.92	65,894.35	96,059.27	350.15	95,709.12
156	Sidewalks and Cross- walks Loan, 1908	22,108.27	2,768.95	24,877.22	5.20	24,872.02
157	St. Construction Loan, 1908	12,998.40	1,816.25	14,814.65	16.38	14,798.27
158	Beaver Brook Loan, 1908	24,666.85	3,283.90	27,950.75	45.73	27,855.02
159	Home Farm Bridge Loan, 1908	4,298.73	537.50	4,836.23	5.46	4,830.77
160	Sewer Loan, 1908	21,999.79	2,952.50	24,952.29	5.46	24,946.83
161	Street Construction L. D. Loan, 1908	13,265.92	1,944.25	15,210.17	.....	15,210.17
162	Isol. Hosp. Loan, 1908	3,462.28	467.10	3,929.38	20.18	3,909.20
163	Rifle Range Loan, 1908	12,288.07	1,598.00	13,881.07	.....	13,881.07
164	Sidewalks and Cross- walks Loan, 1908	8,772.36	1,026.25	9,798.61	17.87	9,780.74
165	Sewer Loan, 1908	10,538.45	1,319.80	11,858.25	3.11	11,855.14
166	Street Paving Loan, 1908	43,519.59	5,500.00	49,019.59	51.38	48,968.21
167	Abol. of Grade Cross- ings Loan, 1908	44,520.15	6,901.35	51,421.50	131.13	51,290.37
168	Schoolhouse Loan, 1908	36,658.26	5,351.90	42,010.16	15.22	41,994.94
169	Street Main Loan, 1908	17,441.38	2,285.00	19,726.38	.....	19,726.38
170	St. Dept. Bridges and Repair Loan, 1908	8,750.44	1,135.15	9,885.59	8.24	9,877.35
171	Fire Apparatus Loan, 1908	14,944.39	1,376.25	16,320.64	5.46	16,315.18
172	Catch Basins Loan, 1908	8,667.53	1,177.50	9,845.03	.....	9,845.03
173	P. Playgrounds Loan, 1908	31,864.40	4,416.25	36,280.65	.....	36,280.65
174	Macadam Pav. Loan, 1909	38,108.64	5,338.55	43,447.19	48.14	43,399.05
175	Schoolhouse Loan, 1909	38,222.33	5,471.40	43,694.23	33.90	43,660.33
176	Street Paving Loan, 1909	38,687.66	5,529.35	44,217.01	44.91	44,172.10
177	Sidewalks and Cross- walks Loan, 1909	19,032.40	2,790.78	21,823.18	32.09	21,791.09
178	Sewer Loan, 1909	18,984.49	2,714.33	21,698.82	48.57	21,650.25
179	Abol. of Grade Cross- ings Loan, 1909	73,341.99	11,575.70	84,917.69	159.24	84,758.45
180	Schoolhouses Loan, 1909	11,299.02	1,687.75	12,986.77	26.49	12,960.28
181	Sewer Loan, 1909	7,645.30	1,131.50	8,776.80	31.95	8,744.85
182	Beaver Brook Loan, 1909	11,467.21	1,670.05	13,137.26	41.14	13,096.12
183	Middle River Road Loan, 1909	15,271.80	2,170.80	17,442.60	46.59	17,396.01
184	Sewer Loan, 1909	15,169.80	2,208.30	17,378.10	11.78	17,366.32
185	Catch Basins Loan, 1909	7,620.56	1,137.10	8,757.66	36.50	8,721.16
186	Beaver Brook Land Damage Loan, 1909	23,402.68	3,285.65	26,688.33	21.29	26,667.04
187	Street Paving Loan, 1909	15,331.99	2,196.40	17,528.39	26.69	17,501.70
188	Water Loan, 1909	19,089.71	2,868.60	21,958.31	32.10	21,926.21
189	Indus. School Loan, 1909	40,711.57	6,422.50	47,134.07	31.80	47,102.27
190	St. Construction Loan, 1909	15,754.36	2,854.25	18,608.61	21.97	18,586.64
191	St. Construction Loan, 1909	37,766.16	5,293.30	43,059.46	115.40	42,944.06
192	P. Playgrounds Loan, 1909	16,553.49	2,744.52	19,298.01	47.50	19,250.51
193	Sewer Loan, 1909	14,847.36	2,202.50	17,050.36	31.10	17,019.26
194	St. Construction Land Damage Loan, 1909	11,023.65	1,690.38	12,714.03	27.25	12,686.78

CITY SINKING FUND—Continued

No.	TITLE OF FUND	Amounts Dec. 1, 1916	Receipts During Year	Totals	Payments During Year	Amounts Nov. 30, 1917
195	Street Paving Loan, 1909	15,645.23	2,206.39	17,851.63	11.76	17,839.77
196	Street Paving Loan, 1910	33,040.61	5,304.20	38,344.81	36.64	38,308.17
197	Sidewalks and Cross- walks Loan, 1910	16,483.25	2,658.75	19,087.00	18.51	19,068.49
198	S t. Dept. Bridges Loan, 1910	6,618.58	1,060.00	7,678.58	19.09	7,659.49
199	St. Construction Loan, 1910	9,859.08	1,615.15	11,474.23	21.88	11,452.35
200	Sewer Loan, 1910	16,654.36	2,645.00	19,299.36	12.40	19,286.96
201	Sewer Loan, 1910	16,360.18	2,638.10	18,998.28	16.55	18,981.73
202	Beaver Brook Loan, 1910	33,273.51	5,409.78	38,683.29	35.34	38,647.95
203	Schoolhouse Loan, 1910	33,220.49	5,314.18	38,534.67	39.68	38,494.99
204	Schoolhouse Loan, 1910	9,773.87	1,637.60	11,410.87	17.87	11,233.00
205	Fire Apparatus Loan 1910	6,733.29	9,823.30	11,410.70	21.84	11,388.86
206	Water Loan, 1909	19,537.37	2,715.00	22,252.37	48.67	22,203.80
207	Abol. of Grade Cross- ings Loan, 1910	27,766.14	5,052.35	32,818.49	113.40	32,705.09
208	Shrewsbury St. Loan, 1910	75,146.37	12,241.50	87,387.87	69.98	87,317.89
209	Canal Street Loan, 1910	58,431.95	11,367.50	70,799.45	19.83	70,779.62
210	Street Paving Loan, 1910	32,052.43	5,860.00	37,442.43	41.01	37,401.47
211	Street Paving Loan, 1910	16,112.50	2,647.50	18,760.00	23.23	18,736.77
212	Bathhouse Loan, 1910	6,621.70	1,060.00	7,681.70	8.89	7,672.81
213	Water Loan, 1910	6,462.38	1,177.28	7,639.66	24.23	7,615.43
214	Abol. of Grade Cross- ings Loan, 1910	27,454.20	4,604.70	32,058.90	80.29	31,978.61
215	Water Loan, 1910	47,301.65	5,862.50	53,664.15	117.50	53,546.65
216	Schoolhouse Loan, 1911	54,802.92	10,173.75	64,981.67	114.33	64,867.34
217	Schoolhouse Loan, 1911	11,235.36	1,995.00	13,230.36	31.96	13,198.40
218	Sewer Loan, 1911	14,000.57	2,597.50	16,598.07	70.54	16,527.53
219	Sidewalks and Cross- walks Loan, 1911	8,685.15	1,616.25	10,301.40	8.88	10,292.52
220	St. Construction Loan, 1911	13,982.94	2,363.75	16,336.69	35.21	16,301.48
221	St. Construction Loan, 1911	27,921.21	5,008.75	32,929.96	73.25	32,856.71
222	Shrewsbury St. Loan 1911	41,710.73	7,606.50	49,317.23	141.52	49,175.71
223	Street Paving Loan, 1911	36,202.43	6,622.35	42,824.78	123.07	42,701.71
224	Police Station Loan, 1911	11,712.64	2,030.00	13,742.64	43.50	13,699.14
225	Sewer Loan, 1911	23,193.85	5,090.40	28,289.25	60.82	28,228.43
226	Sewer Loan, 1911	14,372.79	2,480.00	16,852.79	67.49	16,785.30
227	St. Construction Loan, 1911	27,452.71	5,060.00	32,512.71	70.61	32,442.10
228	St. Construction Land Damage Loan, 1911	5,633.92	970.00	6,603.92	42.18	6,566.74
229	St. Construction Loan, 1911	11,429.56	2,065.05	13,494.61	46.34	13,448.27
230	Street Paving Loan, 1911	25,465.46	4,696.10	30,161.56	39.83	30,121.73
231	Sidewalks and Cross- walks Loan, 1911	5,546.05	1,015.00	6,561.05	22.40	6,538.65
232	Water Loan, 1911	40,379.36	5,632.50	46,061.86	137.97	45,923.89
233	Water Loan, 1911	19,496.20	3,723.12	23,219.32	86.96	23,132.36
235	Water Loan, 1911	54,978.37	10,523.55	65,502.42	306.24	65,196.18
236	Bridges Loan, 1912	4,257.37	972.10	5,229.97	19.40	5,210.57
237	Schoolhouse Loan, 1912	8,853.93	1,978.50	10,837.43	51.44	10,785.99
238	Sewer Loan, 1912	11,104.38	2,430.00	13,534.38	43.50	13,490.88
239	Sidewalks and Cross- walks Loan, 1912	11,136.70	2,449.00	13,585.70	32.56	13,553.14
240	St. Construction Land Damage Loan, 1912	21,788.60	4,911.25	26,699.85	72.58	26,627.27
241	St. Construction Loan, 1912	20,018.05	4,449.40	24,467.45	67.70	24,399.75
242	Street Paving Loan, 1912	11,038.78	2,545.32	13,584.10	50.20	13,533.90
244	Street Paving Loan, 1912	23,738.53	5,009.82	28,748.35	62.76	28,685.59
245	Abol. of Grade Cross- ings Loan, 1912	22,938.26	4,900.00	27,838.26	16.95	27,821.31
246	Water Loan, 1912	36,596.94	7,075.40	43,672.34	134.19	43,538.15
247	Water Loan, 1912	46,521.77	9,895.00	56,416.77	177.10	56,239.67
248	Steam Roller House Loan, 1912	3,870.46	847.50	4,717.96	33.33	4,684.63

CITY SINKING FUND—Continued

No.	TITLE OF FUND	Amounts Dec. 1, 1916	Receipts During Year	Totals	Payments During Year	Amounts Nov. 30, 1917
249	Sewer Loan, 1912	47,898.52	10,210.78	57,604.80	97.90	57,506.40
250	P. Playground Loan, 1912	18,787.12	8,028.12	16,785.24	67.98	16,717.31
251	Schoolhouse Loan, 1912	6,727.50	1,558.12	8,285.62	78.98	8,211.64
252	Ind. School Bldg. Loan, 1912	13,882.87	3,292.50	16,675.37	56.81	16,619.06
253	St. Construction Loan, 1912	5,858.85	1,566.76	6,925.61	30.45	6,895.16
254	Inclinator Pl. Loan, 1912	4,625.46	1,847.50	5,972.96	40.76	5,932.20
255	Schoolhouse Loan, 1912	5,267.80	1,423.00	6,690.80	29.90	6,660.90
256	Schoolhouse Loan, 1913	87,274.38	23,814.80	111,089.66	22.00	111,066.66
257	Sewer Loan, 1912	5,141.00	1,446.65	6,587.65	45.65	6,542.00
258	Water Loan, 1912	10,789.63	2,798.75	13,538.38	54.32	13,484.06
259	Hosp. Con. Loan, 1912	62,970.91	16,934.26	79,905.17	225.84	79,679.33
260	Schoolhouse Improve- ment Loan, 1913	8,811.15	2,459.30	11,270.45	3.33	11,267.12
261	Abol. of Grade Cross- ings Loan, 1913	10,482.01	2,914.80	13,396.81	18.39	13,377.92
262	Sewer Loan, 1913	16,071.70	4,443.60	20,515.30	6.69	20,508.62
263	Sewer Loan, 1913	17,891.56	5,057.22	22,948.78	36.83	22,911.95
264	St. Construction Loan, 1913	8,686.50	2,475.23	11,161.73	15.13	11,146.60
265	Street Paving Loan, 1913	17,732.91	4,935.46	22,668.37	26.79	22,641.58
266	Sidewalks and Cross- walks Loan, 1913	7,023.90	1,890.00	8,913.90	16.95	8,896.95
267	St. Construction Loan, 1913	3,428.50	925.00	4,351.50	22.41	4,329.09
268	City Hospital Loan, 1913	5,196.46	1,398.75	6,595.21	16.95	6,578.26
269	Women's Bathhouse Loan, 1913	4,020.46	1,125.00	5,145.46	48.69	5,096.77
		\$6,378,401.12	\$777,745.99	\$7,151,147.11	\$444,412.23	\$6,706,734.88

RECEIPTS AND PAYMENTS

DECEMBER 1, 1916, to NOVEMBER 30, 1917

No.	RECEIPTS			PAYMENTS			
	City Contributions	Interest	Discount	Totals	City Debt Cancelled	Interest	Totals
22	\$2,000.00	\$3,482.50	\$168.20	\$5,650.70		\$28.80	\$28.80
24		5,865.00	9.95	5,874.95		47.68	47.68
25	400.00	881.75	5.35	1,287.10		7.99	7.99
26		7,543.00	120.18	7,663.18		54.54	54.54
28		1,026.00		1,026.00		24.32	24.32
30		2,292.50	1.40	2,293.90		17.95	17.95
31		4,613.50	4.40	4,617.90		27.13	27.13
35		1,550.00		1,550.00			
37		1,443.75	3.95	1,447.70		16.91	16.91
42		1,337.25		1,337.25		6.07	6.07
43		1,416.25	3.95	1,420.20		16.90	16.90
48	500.00	2,765.00	57.89	3,322.89		27.71	27.71
49	100.00	788.75	3.95	892.70		5.20	5.20
50	960.00	1,260.00		2,220.00		29.64	29.64
51	200.00	1,298.75	3.95	1,502.70		5.20	5.20
53	1,600.00	1,970.00	126.40	3,696.40		24.32	24.32
55	2,100.00	3,046.25	76.26	5,222.51		33.68	33.68
56	1,200.00	4,812.50	372.02	6,384.52		67.32	67.32
58	3,800.00	4,047.50	132.10	7,979.60		121.39	121.39
62	600.00	2,548.75	5.35	3,154.10		36.39	36.39
63		1,068.94		1,068.94	\$40,000.00	15,451.88	55,451.88
64	2,800.00	3,355.00		6,155.00		53.16	53.16
66	3,750.00	4,472.50	365.70	8,588.20		60.12	60.12
67	1,500.00	4,652.50	11.80	6,164.30		32.59	32.59
69	1,200.00	3,515.00	12.80	4,727.80		60.55	60.55
71	5,800.00	5,873.12	115.72	11,788.90		192.33	192.33
75	200.00	510.00	3.95	713.95		5.20	5.20
76	5,500.00	12,457.50	179.95	18,137.45		119.92	119.92
78	2,000.00	1,557.50	1.40	3,558.90		15.65	15.65
79	500.00	1,093.75	16.75	1,610.50		24.70	24.70
80	700.00	672.50	4.40	1,376.90		17.60	17.60
81	4,000.00	3,643.75	69.25	7,713.00		121.31	121.31
82	4,000.00	2,328.75	132.52	6,961.27		32.05	32.05
83	1,200.00	890.00	1.40	2,091.40		31.49	31.49
84	800.00	568.75	5.35	1,374.10		19.69	19.69
85	3,000.00	4,508.75	132.52	7,641.27		62.35	62.35
86	4,000.00	3,042.50	12.80	7,055.30		110.05	110.05
88	1,975.00	1,448.75	19.75	3,443.50		44.21	44.21
89	1,600.00	2,547.50		4,147.50		57.15	57.15
90	1,975.00	1,396.00		3,371.00		41.93	41.93
91	800.00	1,557.50		1,357.50		17.93	17.93
94	3,650.00	2,512.50	15.80	6,178.30		33.96	33.96
95	400.00	556.25	15.35	971.60		21.92	21.92
98	1,350.00	891.25	5.35	2,246.60		35.02	35.02
99	900.00	1,092.50	11.40	2,003.90		32.33	32.33
103	2,800.00	1,862.50	15.80	4,678.30		33.34	33.34
104	550.00	363.50	1.40	914.90		8.86	8.86
107	600.00	778.75	5.35	1,384.10		19.69	19.69
109	600.00	823.75	1.40	1,425.15		13.89	13.89
111	450.00	345.00	1.40	796.40		14.49	14.49
112	1,100.00	1,490.00	4.40	2,594.40		27.46	27.46
113	200.00	55.00		255.00		10.92	10.92
114	200.00	416.25	3.95	620.20		5.20	5.20
115	175.00	97.50		272.50		5.46	5.46
116	1,500.00	1,776.25	16.75	3,293.00		46.27	46.27
119	600.00	352.50	1.40	953.90		2.73	2.73
120	800.00	362.50	61.10	1,223.60		25.61	25.61
121	250.00	272.50		522.50		5.46	5.46

RECEIPTS AND PAYMENTS—Continued

No.	RECEIPTS				PAYMENTS		
	City Contributions	Interest	Discount	Totals	City Debt Cancelled	Interest	Totals
124	700.00	330.00	125.38	1,155.38		23.36	23.36
126	250.00	185.00	1.40	436.40		2.78	2.78
129	800.00	648.75	3.95	1,452.70		29.65	29.65
134	400.00	223.75	3.95	627.70		5.20	5.20
135	500.00	178.75	5.35	684.10		7.98	7.98
140		475.00		475.00	22,000.00	524.62	22,524.62
141		1,338.75		1,338.75	25,000.00	61,108.80	86,108.80
142		810.00		810.00	45,000.00	1,939.99	46,939.99
143		1,192.50		1,192.50	50,000.00	1,239.82	51,239.82
144		516.25		516.25	17,500.00	451.27	17,951.27
145		1,115.00		1,115.00	47,000.00	2,264.43	49,264.43
146		1,175.00		1,175.00	50,000.00	1,243.40	51,243.40
147		301.25		301.25	12,000.00	264.86	12,264.86
148		235.00		235.00	10,000.00	324.87	10,324.87
149	350.00	100.00		450.00			
*150		25,957.06		25,957.06	7,000.00	25,861.71	32,861.71
151	3,500.00	1,750.00		5,250.00		41.50	41.50
**152	1,500.00	10,600.00		12,100.00		51.23	51.23
†153	1,200.00	16,375.30	898.86	17,974.16		105.00	105.00
154	960.00	2,040.40	1.40	3,021.80		8.24	8.24
†155	1,800.00	63,534.55	559.80	65,894.35		350.15	350.15
156	1,800.00	960.00	3.95	2,763.95		5.20	5.20
157	1,200.00	616.25		1,816.25		16.38	16.38
158	2,240.00	987.50	6.40	3,233.90		45.73	45.73
159	400.00	137.50		537.50		5.46	5.46
160	2,000.00	962.50		2,962.50		5.46	5.46
161	288.00						
	1,200.00	456.25		1,944.25			
162	320.00	142.50	4.60	467.10		20.18	20.18
163	1,120.00	473.00		1,593.00			
164	800.00	226.25		1,026.25		17.87	17.87
165	960.00	357.50	2.30	1,319.80		3.11	3.11
166	4,000.00	1,500.00		5,500.00		51.38	51.38
167	3,800.00	1,968.75	1,187.60	6,901.35		131.13	131.13
168	3,800.00	1,267.50	284.40	5,351.90		15.22	15.22
169	1,600.00	685.00		2,285.00			
170	800.00	338.75	1.40	1,135.15		8.24	8.24
171	1,360.00	516.25		1,876.25		5.46	5.46
172	800.00	377.50		1,177.50			
173	2,880.00	1,536.25		4,416.25			
174	4,000.00	1,328.75	9.80	5,338.55		48.14	48.14
175	4,000.00	1,463.75	7.65	5,471.40		38.90	38.90
176	4,000.00	1,520.00	9.35	5,529.35		44.91	44.91
177	2,000.00	675.00	115.78	2,790.78		32.09	32.09
178	2,000.00	587.50	126.83	2,714.33		48.57	48.57
179	3,000.00	3,568.70	7.00	11,575.70		159.24	159.24
180	1,200.00	438.75	54.00	1,687.75		26.49	26.49
181	800.00	277.50	54.00	1,131.50		31.95	31.95
182	1,200.00	461.25	8.80	1,670.05		41.14	41.14
183	1,600.00	550.00	20.80	2,170.80		46.59	46.59
184	1,600.00	600.00	8.80	2,208.80		11.78	11.78
185	800.00	312.50	24.60	1,137.10		36.50	36.50
186	2,400.00	877.50	8.15	3,285.65		21.29	21.29
187	1,600.00	575.00	21.40	2,196.40		26.69	26.69
188	2,000.00	745.00	123.60	2,868.60		32.10	32.10
189	5,000.00	1,422.50		6,422.50		31.80	31.80
190	2,000.00	845.00	9.25	2,854.25		21.97	21.97
191	4,000.00	1,272.50	20.80	5,293.30		118.40	118.40
192	2,000.00	610.00	134.52	2,744.52		47.50	47.50
193	1,600.00	597.50	5.00	2,202.50		31.10	31.10

*Includes \$23,704.14 from Funds Nos. 63, 140, 142 through 148, the same being excess of said funds over amount required to extinguish the corresponding loan.

**Includes \$10,000 part excess from Fund No. 150.

†Includes \$15,786.55 balance excess from Fund No. 150.

‡Includes \$61,108.30 excess from Fund No. 141.

RECEIPTS AND PAYMENTS—Continued

No.	RECEIPTS				PAYMENTS		
	City Contributions	Interest	Discount	Totals	City Debt Cancelled	Interest	Totals
194	1,200.00	365.00	125.88	1,690.88		27.25	27.25
195	1,600.00	597.50	8.80	2,206.30		11.76	11.76
196	4,000.00	1,277.50	26.70	5,304.20		36.64	36.64
197	2,000.00	642.50	11.25	2,653.75		18.51	18.51
198	800.00	260.00		1,060.00		19.09	19.09
199	1,200.00	418.75	1.40	1,618.15		21.88	21.88
200	2,000.00	645.00		2,645.00		12.40	12.40
201	2,000.00	632.50	5.60	2,638.10		16.55	16.55
202	4,000.00	1,175.00	234.78	5,409.78		35.34	35.34
203	4,000.00	1,070.00	244.18	5,314.18		39.68	39.68
204	1,200.00	337.50		1,537.50		17.87	17.87
205	1,200.00	370.00	11.40	1,581.40		21.34	21.34
206	2,000.00	715.00		2,715.00		48.57	48.57
207	3,600.00	1,208.75	243.60	5,052.35		113.40	113.40
208	9,200.00	3,018.50	28.00	12,241.50		69.98	69.98
209	8,400.00	2,967.50		11,367.50		19.83	19.83
210	4,000.00	1,360.00		5,360.00		41.01	41.01
211	2,000.00	647.50		2,647.50		23.23	23.23
212	800.00	260.00		1,060.00		8.89	8.89
213	800.00	247.50	129.78	1,177.28		24.23	24.23
214	3,500.00	1,002.50		4,604.70		80.29	80.29
215	4,000.00	1,327.50	35.00	5,362.50		117.50	117.50
216	8,000.00	2,173.75		10,173.75		114.33	114.33
217	1,600.00	395.00		1,995.00		31.96	31.96
218	2,000.00	597.50		2,597.50		70.54	70.54
219	1,200.00	416.25		1,616.25		8.88	8.88
220	2,000.00	353.75		2,353.75		35.21	35.21
221	4,000.00	1,088.75		5,088.75		73.25	73.25
222	6,000.00	1,575.00	31.50	7,606.50		141.52	141.52
223	5,200.00	1,398.75	123.60	6,622.35		123.07	123.07
224	1,600.00	430.00		2,030.00		43.50	43.50
225	4,000.00	1,062.50	27.90	5,090.40		60.82	60.82
226	2,000.00	430.00		2,430.00		67.49	67.49
227	4,000.00	1,060.00		5,060.00		70.61	70.61
228	800.00	170.00		970.00		42.18	42.18
229	1,600.00	402.50	62.55	2,065.05		46.34	46.34
230	3,600.00	972.50	123.60	4,696.10		89.83	89.83
231	800.00	215.00		1,015.00		22.40	22.40
232	4,000.00	1,682.50		5,682.50		187.97	187.97
233	2,800.00	795.00	128.12	3,723.12		86.96	86.96
235	3,000.00	2,436.75	36.80	10,523.55		306.24	306.24
236	800.00	157.50	14.60	972.10		19.40	19.40
237	1,600.00	317.50	61.00	1,978.50		51.44	51.44
238	2,000.00	430.00		2,430.00		43.50	43.50
239	2,000.00	449.00		2,449.00		32.56	32.56
240	4,000.00	911.25		4,911.25		72.58	72.58
241	3,600.00	835.00	14.40	4,449.40		67.70	67.70
242	2,000.00	410.00	135.32	2,545.32		50.20	50.20
244	4,000.00	340.00	169.82	5,009.82		62.76	62.76
245	4,000.00	900.00		4,900.00		16.95	16.95
246	5,500.00	1,570.50	4.90	7,075.40		134.19	134.19
247	3,000.00	1,895.00		9,895.00		177.10	177.10
248	720.00	127.50		847.50		33.33	33.33
249	3,000.00	1,797.50	413.28	10,210.78		97.90	97.90
250	2,400.00	500.00	123.12	3,023.12		67.93	67.93
251	1,200.00	230.00	123.12	1,553.12		73.98	73.98
252	2,800.00	492.50		3,292.50		56.31	56.31
253	1,200.00	240.00	126.76	1,566.76		30.45	30.45
254	1,200.00	147.50		1,347.50		40.76	40.76
255	1,200.00	202.50	20.50	1,423.00		29.90	29.90

RECEIPTS AND PAYMENTS—Continued

No.	RECEIPTS				PAYMENTS		
	City Contributions	Interest	Discount	Totals	City Debt Cancelled	Interest	Totals
256	20,000.00	3,692.60	121.80	23,814.80	.....	22.00	22.00
257	1,200.00	236.25	10.40	1,446.65	.....	45.65	45.65
258	2,400.00	398.75	.....	2,798.75	.....	54.32	54.32
259	14,160.00	2,602.60	171.76	16,934.26	.....	225.84	225.84
260	2,000.00	337.60	121.80	2,459.30	.....	3.33	3.33
261	2,400.00	392.60	121.80	2,914.30	.....	18.39	18.39
262	3,600.00	600.00	243.60	4,443.60	.....	6.68	6.68
263	4,000.00	692.60	364.72	5,057.22	.....	36.83	36.83
264	2,000.00	356.25	118.98	2,475.23	.....	15.13	15.13
265	4,000.00	697.50	237.96	4,935.46	.....	26.79	26.79
266	1,600.00	290.00	.....	1,890.00	.....	16.95	16.95
267	800.00	125.00	.....	925.00	.....	22.41	22.41
268	1,200.00	198.75	.....	1,398.75	.....	16.95	16.95
269	960.00	165.00	.....	1,125.00	.....	48.69	48.69
	\$415,253.00	\$352,868.07	\$10,124.92	\$777,745.99	\$325,500.00	\$118,912.23	\$444,412.23

FUNDED DEBT AND SINKING FUNDS

NOVEMBER 30, 1917

No.	FUNDED DEBT				SINKING FUNDS		
	Created	Due Date	Rate	Amounts	Investments	Cash Deposits	Amounts
22	May 7, 1888	April 1, 1938	4	\$200,000.00	\$98,000.00	\$959.97	\$98,959.97
24	Dec. 10, 1888	April 1, 1918	4	150,000.00	149,500.00	341.60	149,841.60
25	June 1, 1889	April 1, 1938	4	50,000.00	23,200.00	448.13	23,648.13
26	May 27, 1889	April 1, 1919	4	200,000.00	196,200.00	966.47	197,166.47
28	Mar. 31, 1890	April 1, 1920	4	30,000.00	26,800.00	579.84	27,379.84
30	Mar. 2, 1891	April 1, 1921	4	70,000.00	60,000.00	128.37	60,128.37
31	Mar. 28, 1892	April 1, 1922	4	150,000.00	122,300.00	988.28	123,288.28
35	Feb. 27, 1893	April 1, 1923	4	50,000.00	39,000.00	819.66	39,819.66
37	Mar. 19, 1894	April 1, 1924	4	50,000.00	36,500.00	1,003.86	37,503.86
42	April 15, 1895	April 1, 1925	4	50,000.00	34,800.00	725.11	35,525.11
43	June 20, 1895	April 1, 1925	4	50,000.00	36,000.00	962.27	36,962.27
48	July 15, 1895	April 1, 1925	4	100,000.00	71,000.00	472.49	71,472.49
49	June 1, 1896	April 1, 1926	4	25,000.00	17,500.00	531.28	18,031.28
50	June 13, 1895	April 1, 1925	4	50,000.00	32,000.00	1,529.32	33,529.32
51	May 4, 1896	April 1, 1926	4	50,000.00	33,500.00	944.83	34,444.83
53	April 21, 1896	April 1, 1926	4	100,000.00	63,500.00	939.30	64,439.30
55	April 21, 1896	April 1, 1926	4	150,000.00	98,000.00	1,547.25	99,547.25
56	Jan. 25, 1897	April 1, 1927	4	200,000.00	131,500.00	1,400.50	132,900.50
58	June 7, 1897	April 1, 1927	4	200,000.00	116,000.00	1,086.93	117,086.93
59	June 7, 1897	April 1, 1927	4	100,000.00	66,500.00	223.21	67,723.21
62	April 5, 1897	April 1, 1927	4	150,000.00	87,000.00	987.47	87,987.47
64	June 7, 1897	Jan. 1, 1927	4	200,000.00	117,000.00	483.72	117,483.72
66	June 28, 1897	Jan. 1, 1928	4	200,000.00	123,000.00	853.88	123,853.88
67	April 4, 1898	April 1, 1928	4	150,000.00	89,500.00	2,182.32	91,682.32
71	July 18, 1898	July 1, 1928	4	300,000.00	161,500.00	1,151.96	162,651.96
75	Mar. 18, 1899	Jan. 1, 1929	4	25,000.00	14,500.00	395.68	14,895.68
76	June 18, 1899	June 1, 1929	3½	650,000.00	379,500.00	2,723.50	382,223.50
78	July 17, 1899	July 1, 1919	3½	50,000.00	46,500.00	317.09	46,817.09
79	Oct. 30, 1899	June 1, 1929	3½	50,000.00	28,000.00	538.55	28,538.55
80	Oct. 30, 1899	July 1, 1919	3½	17,000.00	16,000.00	282.32	16,282.32
81	July 17, 1899	July 1, 1919	3½	110,000.00	104,500.00	1,094.24	105,594.24
82	July 10, 1899	July 1, 1929	3½	170,000.00	84,500.00	829.89	85,029.89
83	Feb. 2, 1900	Jan. 1, 1920	3½	30,000.00	26,000.00	324.55	26,324.55
84	April 18, 1900	April 1, 1920	3½	20,000.00	16,500.00	696.88	17,196.88
85	June 18, 1900	June 1, 1930	3½	250,000.00	131,500.00	380.49	131,880.49
86	May 28, 1900	April 1, 1930	3½	200,000.00	91,500.00	308.18	91,808.18
88	Mar. 25, 1901	April 1, 1931	3½	100,000.00	42,000.00	717.22	42,717.22
89	April 8, 1901	April 1, 1931	3½	150,000.00	73,500.00	1,423.13	74,923.13
90	July 8, 1901	April 1, 1931	3½	100,000.00	41,300.00	922.13	42,222.13
91	May 20, 1901	April 1, 1921	3½	20,000.00	15,500.00	423.58	15,923.58
94	Aug. 7, 1901	July 1, 1921	3½	95,000.00	74,500.00	362.00	74,862.00
95	Aug. 7, 1901	July 1, 1931	3½	35,000.00	16,000.00	327.85	16,327.85
98	July 21, 1902	July 1, 1932	3½	60,000.00	24,000.00	383.12	24,383.12
99	July 21, 1902	July 1, 1932	3½	75,000.00	34,000.00	819.01	34,819.01
103	July 14, 1902	July 1, 1922	3½	75,000.00	54,500.00	133.74	54,633.74
104	May 26, 1902	April 1, 1932	3½	30,000.00	12,800.00	474.70	13,274.70
107	April 7, 1902	April 1, 1932	3½	50,000.00	22,500.00	160.08	22,660.08
109	Dec. 29, 1902	Oct. 1, 1932	3½	50,000.00	21,500.00	713.77	22,213.77
111	June 1, 1903	April 1, 1933	3½	25,000.00	10,000.00	391.32	10,391.32
112	Feb. 9, 1903	Jan. 1, 1933	3½	100,000.00	43,500.00	715.98	44,215.98
118	April 6, 1903	April 1, 1933	3½	10,000.00	2,000.00	1,728.40	3,728.40
114	Sept. 28, 1903	Oct. 1, 1933	3½	25,000.00	12,000.00	318.12	12,318.12
115	July 21, 1902	July 1, 1932	3½	8,500.00	8,000.00	481.57	3,481.57
116	Feb. 1, 1904	Jan. 1, 1934	3½	125,000.00	50,000.00	587.10	50,587.10
119	June 20, 1904	April 1, 1934	3½	30,000.00	10,000.00	548.69	10,548.69
120	Sept. 12, 1904	July 1, 1934	3½	60,000.00	24,500.00	455.76	24,955.76
121	Nov. 14, 1904	July 1, 1934	3½	20,000.00	8,000.00	511.40	8,511.40
124	June 5, 1905	April 1, 1935	3½	30,000.00	9,500.00	187.08	9,687.08
126	June 26, 1905	April 1, 1935	3½	15,000.00	4,500.00	439.76	4,939.76

FUNDED DEBT AND SINKING FUNDS—Continued

No.	FUNDED DEBT				SINKING FUNDS		
	Created	Due Date	Rate	Amounts	Investments	Cash Deposits	Amounts
129	Dec. 29, 1904	Dec. 1, 1984	3½	50,000.00	18,500.00	432.44	18,932.44
184	April 23, 1906	April 1, 1986	3½	25,000.00	6,500.00	540.43	7,040.43
135	June 25, 1906	April 1, 1986	3½	20,000.00	5,500.00	172.75	5,672.75
149	July 15, 1907	April 1, 1927	4	10,000.00	2,500.00	1,964.19	4,464.19
151	Feb. 17, 1908	Jan. 1, 1918	4	50,000.00	50,000.00	23.24	50,023.24
152	Feb. 17, 1908	Jan. 1, 1918	4	25,000.00	30,000.00	4,399.51	34,399.51
153	Mar. 23, 1908	Jan. 1, 1918	4	15,000.00	22,000.00	8,871.82	30,871.82
154	Mar. 23, 1908	Jan. 1, 1918	4	12,000.00	12,000.00	1,579.74	13,579.74
155	April 6, 1908	April 1, 1918	4	35,000.00	92,000.00	8,709.12	95,709.12
156	April 6, 1908	April 1, 1918	4	25,000.00	24,500.00	367.02	24,867.02
157	April 6, 1908	April 1, 1918	4	15,000.00	14,500.00	298.27	14,798.27
158	June 1, 1908	June 1, 1918	4	28,000.00	27,000.00	855.02	27,855.02
159	June 1, 1908	June 1, 1918	4	5,000.00	2,500.00	2,330.77	4,830.77
160	June 15, 1908	June 1, 1918	4	25,000.00	24,500.00	446.88	24,946.88
161	June 15, 1908	June 1, 1918	4	15,000.00	15,000.00	210.17	15,210.17
162	June 29, 1908	July 1, 1918	4	4,000.00	8,500.00	409.20	8,909.20
163	June 29, 1908	July 1, 1918	4	14,000.00	12,200.00	1,631.07	13,831.07
164	July 6, 1908	July 1, 1918	4	10,000.00	9,500.00	280.74	9,780.74
165	July 6, 1908	July 1, 1918	4	12,000.00	11,500.00	365.14	11,865.14
166	June 29, 1908	July 1, 1918	4	50,000.00	47,500.00	1,468.21	48,968.21
167	June 29, 1908	July 1, 1918	4	50,000.00	49,000.00	2,290.37	51,290.37
168	July 6, 1908	July 1, 1928	3½	100,000.00	41,500.00	494.94	41,994.94
169	July 13, 1908	July 1, 1918	4	20,000.00	19,500.00	226.38	19,726.38
170	July 13, 1908	July 1, 1918	4	10,000.00	9,500.00	877.85	9,877.85
171	Sept. 21, 1908	July 1, 1918	4	17,000.00	16,500.00	315.18	16,815.18
172	Oct. 12, 1908	Oct. 1, 1918	4	10,000.00	9,500.00	345.03	9,845.03
173	Oct. 26, 1908	Oct. 1, 1918	4	36,000.00	36,000.00	280.65	36,280.65
174	Feb. 15, 1909	Jan. 1, 1919	3½	50,000.00	42,500.00	899.05	43,399.05
175	Feb. 15, 1909	Jan. 1, 1919	3½	50,000.00	43,500.00	160.33	43,660.33
176	Feb. 15, 1909	Jan. 1, 1919	3½	50,000.00	43,500.00	672.10	44,172.10
177	Feb. 15, 1909	Jan. 1, 1919	3½	25,000.00	21,500.00	291.09	21,791.09
178	Feb. 15, 1909	Jan. 1, 1919	3½	25,000.00	21,500.00	150.25	21,650.25
179	Feb. 15, 1909	Jan. 1, 1919	3½	100,000.00	89,000.00	758.45	89,758.45
180	Feb. 15, 1909	Jan. 1, 1919	3½	15,000.00	12,000.00	960.28	12,960.28
181	Feb. 15, 1909	Jan. 1, 1919	3½	10,000.00	8,000.00	744.85	8,744.85
182	Mar. 29, 1909	April 1, 1919	3½	15,000.00	13,000.00	96.12	13,096.12
183	Mar. 29, 1909	April 1, 1919	3½	20,000.00	17,000.00	396.01	17,396.01
184	May 10, 1909	April 1, 1919	3½	20,000.00	17,000.00	366.82	17,366.82
185	June 21, 1909	April 1, 1919	3½	10,000.00	8,500.00	821.16	8,721.16
186	June 21, 1909	April 1, 1919	3½	30,000.00	26,000.00	667.04	26,667.04
187	June 21, 1909	April 1, 1919	3½	20,000.00	17,000.00	551.70	17,551.70
188	June 21, 1909	April 1, 1919	3½	25,000.00	21,500.00	426.21	21,926.21
189	June 7, 1909	April 1, 1929	3½	125,000.00	46,000.00	1,102.27	47,102.27
190	July 14, 1909	July 1, 1919	3½	25,000.00	21,500.00	87.14	21,587.14
191	July 14, 1909	July 1, 1919	3½	50,000.00	42,000.00	941.06	42,941.06
192	July 14, 1909	July 1, 1929	3½	50,000.00	19,000.00	250.51	19,250.51
193	Oct. 19, 1909	Oct. 1, 1919	4	20,000.00	16,500.00	519.26	17,019.26
194	Oct. 19, 1909	Oct. 1, 1919	4	15,000.00	12,000.00	691.78	12,691.78
195	Oct. 11, 1909	Oct. 1, 1919	3½	20,000.00	17,500.00	389.77	17,889.77
196	Feb. 14, 1910	Jan. 1, 1920	4	50,000.00	38,000.00	808.17	38,808.17
197	Feb. 14, 1910	Jan. 1, 1920	4	25,000.00	18,500.00	586.49	19,086.49
198	Feb. 14, 1910	Jan. 1, 1920	4	10,000.00	7,500.00	169.49	7,669.49
199	Feb. 14, 1910	Jan. 1, 1920	4	15,000.00	11,000.00	452.35	11,452.35
200	Feb. 14, 1910	Jan. 1, 1920	4	25,000.00	18,500.00	786.96	19,286.96
201	Feb. 14, 1910	Jan. 1, 1920	4	25,000.00	18,500.00	481.73	18,981.73
202	Feb. 14, 1910	Jan. 1, 1920	4	50,000.00	37,500.00	1,147.95	38,647.95

FUNDED DEBT AND SINKING FUNDS—Continued

No.	FUNDED DEBT				SINKING FUNDS			
	Created	Due Date	Rate	Amounts	Investments	Cash Deposits	Amounts	
208	Feb. 14, 1910	Jan. 1, 1920	4	50,000.00	38,000.00	494.99	35,494.99	
204	Feb. 14, 1910	Jan. 1, 1920	4	15,000.00	11,000.00	296.00	11,296.00	
205	Feb. 14, 1910	Jan. 1, 1920	4	15,000.00	10,500.00	889.36	11,289.36	
206	Dec. 27, 1909	Oct. 1, 1919	4	25,000.00	22,000.00	203.80	22,203.80	
207	Jan. 17, 1910	Jan. 1, 1930	3½	100,000.00	32,500.00	205.09	32,705.09	
208	Mar. 17, 1910	Jan. 1, 1920	4	115,000.00	86,900.00	417.89	87,317.89	
209	Feb. 21, 1910	Jan. 1, 1920	4	105,000.00	79,000.00	779.62	79,779.62	
210	July 25, 1910	July 1, 1920	4	50,000.00	36,500.00	901.47	37,401.47	
211	July 18, 1910	July 1, 1920	4	25,000.00	18,000.00	736.77	18,736.77	
212	July 18, 1910	July 1, 1920	4	10,000.00	7,500.00	172.81	7,672.81	
213	July 25, 1910	July 1, 1920	4	10,000.00	7,500.00	115.43	7,615.43	
214	Nov. 23, 1910	Oct. 1, 1930	4	100,000.00	31,500.00	473.61	31,973.61	
215	Dec. 23, 1910	Oct. 1, 1920	4	75,000.00	53,000.00	546.65	53,546.65	
216	Feb. 3, 1911	Jan. 1, 1921	4	100,000.00	64,000.00	867.34	64,867.34	
217	Feb. 3, 1911	Jan. 1, 1921	4	20,000.00	12,500.00	698.40	13,198.40	
218	Feb. 3, 1911	Jan. 1, 1921	4	25,000.00	16,000.00	527.58	16,527.58	
219	Feb. 3, 1911	Jan. 1, 1921	4	15,000.00	9,500.00	792.52	10,292.52	
220	Feb. 3, 1911	Jan. 1, 1921	4	25,000.00	15,500.00	801.48	16,301.48	
221	Feb. 3, 1911	Jan. 1, 1921	4	50,000.00	32,000.00	856.71	32,856.71	
222	Feb. 3, 1911	Jan. 1, 1921	4	75,000.00	48,500.00	675.71	49,175.71	
223	Feb. 3, 1911	Jan. 1, 1921	4	65,000.00	42,500.00	201.71	42,701.71	
224	Mar. 6, 1911	Jan. 1, 1921	4	20,000.00	13,000.00	699.14	13,699.14	
225	April 17, 1911	April 1, 1921	4	50,000.00	33,000.00	223.43	33,223.43	
226	July 17, 1911	July 1, 1921	4	25,000.00	16,500.00	285.30	16,785.30	
227	June 19, 1911	July 1, 1921	4	50,000.00	31,500.00	942.10	32,442.10	
228	July 10, 1911	July 1, 1921	4	10,000.00	6,500.00	66.74	6,566.74	
229	July 10, 1911	July 1, 1921	4	20,000.00	12,500.00	948.27	13,448.27	
230	July 10, 1911	July 1, 1921	4	45,000.00	29,500.00	571.73	30,071.73	
231	July 24, 1911	July 1, 1921	4	10,000.00	6,500.00	38.65	6,538.65	
232	July 17, 1911	July 1, 1921	4	75,000.00	45,500.00	873.89	45,873.89	
233	Aug. 14, 1911	July 1, 1921	4	35,000.00	22,500.00	632.36	23,132.36	
235	Nov. 13, 1911	Oct. 1, 1921	4	100,000.00	64,700.00	496.18	65,196.18	
236	Feb. 6, 1912	Jan. 1, 1922	4	10,000.00	5,000.00	210.57	5,210.57	
237	Feb. 6, 1912	Jan. 1, 1922	3½	30,000.00	10,500.00	285.99	10,785.99	
238	Feb. 6, 1912	Jan. 1, 1922	3½	25,000.00	13,000.00	490.88	13,490.88	
239	Feb. 6, 1912	Jan. 1, 1922	3½	25,000.00	13,100.00	453.14	13,553.14	
240	Feb. 19, 1912	Jan. 1, 1922	3½	50,000.00	26,000.00	627.27	26,627.27	
241	Feb. 19, 1912	Jan. 1, 1922	3½	45,000.00	24,000.00	399.75	24,399.75	
242	Feb. 19, 1912	Jan. 1, 1922	3½	25,000.00	13,000.00	533.90	13,533.90	
243	May 13, 1912	April 1, 1922	4	50,000.00	27,500.00	1,155.59	28,655.59	
245	June 10, 1912	April 1, 1922	4	50,000.00	27,000.00	821.31	27,821.31	
246	June 10, 1912	April 1, 1922	3½	75,000.00	42,700.00	838.15	43,538.15	
247	Mar. 13, 1912	April 1, 1922	3½	100,000.00	56,000.00	239.67	56,239.67	
248	April 1, 1912	April 1, 1922	3½	9,000.00	4,500.00	134.63	4,634.63	
249	May 13, 1912	April 1, 1922	4	100,000.00	56,500.00	1,006.40	57,506.40	
250	May 13, 1912	April 1, 1922	4	30,000.00	16,500.00	217.31	16,717.31	
251	June 24, 1912	July 1, 1922	4	15,000.00	7,500.00	711.64	8,211.64	
252	June 24, 1912	July 1, 1922	4	35,000.00	16,000.00	619.06	16,619.06	
253	June 24, 1912	July 1, 1922	4	15,000.00	6,500.00	395.16	6,895.16	
254	June 24, 1912	July 1, 1922	4	12,000.00	5,000.00	932.20	5,932.20	
255	Nov. 11, 1912	Oct. 1, 1922	4	15,000.00	6,000.00	660.90	6,660.90	
256	Feb. 17, 1913	Jan. 1, 1923	4	250,000.00	110,000.00	1,066.66	111,066.66	
257	Dec. 16, 1912	Oct. 1, 1922	4	15,000.00	5,000.00	1,542.00	6,542.00	
258	Oct. 21, 1912	Oct. 1, 1922	4	30,000.00	12,500.00	984.06	13,484.06	
259	Sept. 23, 1912	Oct. 1, 1922	4	177,000.00	79,500.00	179.33	79,679.33	
260	Feb. 17, 1913	Jan. 1, 1923	4	25,000.00	10,500.00	767.12	11,267.12	
261	Feb. 17, 1913	Jan. 1, 1923	4	30,000.00	12,500.00	877.92	13,377.92	
262	Feb. 17, 1913	Jan. 1, 1923	4	45,000.00	20,000.00	508.62	20,508.62	
263	Feb. 17, 1913	Jan. 1, 1923	4	50,000.00	22,000.00	911.95	22,911.95	
264	Feb. 17, 1913	Jan. 1, 1923	4	25,000.00	11,000.00	146.60	11,146.60	
265	Feb. 17, 1913	Jan. 1, 1923	4	50,000.00	22,500.00	141.53	22,641.53	
266	Feb. 17, 1913	Jan. 1, 1923	4	20,000.00	8,000.00	896.95	8,896.95	
267	Feb. 17, 1913	Jan. 1, 1923	4	10,000.00	4,000.00	329.09	4,329.09	
268	Feb. 17, 1913	Jan. 1, 1923	4	15,000.00	6,000.00	578.26	6,578.26	
269	April 14, 1913	April 1, 1923	4	12,000.00	5,000.00	96.77	5,096.77	
					\$10,518,500.00	\$6,577,000.00	\$129,784.88	\$6,706,784.88

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

OFFICE OF THE CITY TREASURER
AND COLLECTOR OF TAXES,
WORCESTER, MASS., Dec. 15, 1917.

To the Honorable City Council: —

In compliance with the provisions of Chapter 12 of the Revised Ordinance of nineteen hundred and nine, the undersigned submits the following statement of receipts and payments, in the Treasury Department, for the financial year ending November 30, 1917.

Balance in the Treasury November 29, 1916	\$334,627 .37
Receipts during the year	13,323,070 .93
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	\$13,657,707 .30
Payments during the year	13,529,139 .77
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Balance in the Treasury November 30, 1917	\$128,567 .53

The several aggregate amounts included in the foregoing statement, according to the entries on the books of this department, appear in the accompanying accounts.

Respectfully submitted,

H. C. SMITH,
Treasurer and Collector of Taxes.

CITY OF WORCESTER, in account current from December 1, 1916,

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By cash received and credited to sundry accounts as follows:—

No.

1. Abolition of Grade Crossings	\$513 61
2. City Clerk Department.....	4,965 35
3. City Hospital	106,440 78
4. City Hospital (Barnard Fund).....	60 00
5. City Hospital (Harriet D. Brown Fund).....	381 09
6. City Hospital (Burnside Fund).....	150 00
7. City Hospital (Conant Fund).....	60 00
8. City Hospital (Curtis Fund).....	40 00
9. City Hospital (Isaac Davis Fund).....	200 00
10. City Hospital (Alice Taft Farnum Fund).....	17 20
11. City Hospital (Harris Fund).....	250 00
12. City Hospital (Heinsheimer Fund).....	40 00
13. City Hospital (Jaques Fund).....	9,491 88
14. City Hospital (McIntire Fund).....	206 00
15. City Hospital (Partridge Fund).....	60 00
16. City Hospital (Rice Fund).....	250 00
17. City Hospital (Salisbury Fund).....	220 00
18. City Hospital (Sargent Fund).....	20 00
19. City Hospital (Shaw Fund).....	80 00
20. City Hospital (Stoddard Fund).....	185 68
21. City Hospital (Tenney Fund).....	200 00
22. City Hospital (Thayer Fund).....	957 90
23. City Hospital (Thayer Nurses' Home Fund).....	490 00
24. City Hospital (Walker Fund).....	40 00
25. City Hospital (Wilson Fund).....	260 00
26. City Hospital (Wolfe Fund).....	144 28
27. City Messenger Department.....	17,043 94
28. Engineering Department.....	25,389 29
29. Fire Department (Pay Rolls).....	508 25
30. Fire Department (Automobile Main.).....	7 00
31. Fire Department (Fire Alarm Telegraph).....	68 93
32. Fire Department (Horses, Hay and Grain).....	596 33
33. Fire Department (Hose, Fittings and Apparatus Repairs).....	99 47
34. Fire Department (New Apparatus Account).....	1,075 00
35. Fire Department (Miscellaneous).....	484 59
36. General Expense.....	20,866 31
37. Health Department.....	1,251 19
38. Health Department (Belmont Hospital).....	23,121 55
39. Health Department (Milk Inspection).....	518 41
40. Hope Cemetery.....	36,368 55
41. Inspection and Construction of Buildings Department	1,903 66
42. Inspection and Construction of Buildings Department	
(Repairs and Improvements of Engine Houses)....	7 66
43. Inspection and Construction of Buildings Department	
(Repairs and Improvements of Police Buildings)...	85
44. Inspection and Construction of Buildings Department	
(Care of Schoolhouses).....	646 17
45. Inspection and Construction of Buildings Department	
(Ordinary Repairs of Schoolhouses).....	3,257 87
46. Inspection and Construction of Buildings Department	
(Permanent Improvements of Schoolhouses).....	879 59

to November 30, 1917, with HARRY C. SMITH, City Treasurer.

47.	Interest.....	38,726.51
48.	Interest on Sewer Loan.....	350.00
49.	Interest on Water Loan.....	1,764.58
50.	Lake Quinsigamond Bridge Account.....	6,898.02
51.	Law Department.....	76.40
52.	Liquor Licenses.....	268,303.40
53.	Loans, Serial City.....	255,000.00
54.	Loans, Serial Sewer.....	50,000.00
55.	Loans, Serial Water.....	350,000.00
56.	Loans, Temporary.....	5,475,000.00
57.	Moth Extermination Assessments.....	5,052.40
58.	Overlying Taxes 1916.....	15.00
59.	Overseers of Poor Department (City Relief).....	27,771.47
60.	Overseers of Poor Department (Home Farm).....	71,952.26
61.	Overseers of Poor Department (House Ofal).....	44,609.15
62.	Park Commissioners.....	6,963.86
63.	Park Commissioners (Forestry).....	1,512.62
64.	Edward Livingston Davis Tower and Park Fund ...	1,086.05
65.	William A. Richardson Park Fund.....	8,862.05
66.	Moth and Beetle Extermination.....	2,083.89
67.	Public Playgrounds.....	379.40
68.	Police Department (Pay Rolls).....	20,219.26
69.	Police Department (Cloth, Caps and Helmets).....	1,006.59
70.	Police Department (Miscellaneous).....	2,147.85
71.	Police Department (New Police Stations).....	199.67
72.	Premium on City Bonds.....	1,990.95
73.	Public Library Department (Salaries and Pay Rolls)	5,103.32
74.	Public Library Department (Books and Periodicals)	2,127.15
75.	Public Library Department (Heat, Light and Repairs)	15.50
76.	Public Library Department (Miscellaneous).....	12.00
77.	Public Library Department (Green Library Book Account).....	2,405.27
78.	Public Library Department (Reading Room Fund) ..	444.45
79.	Real Estate Lien Account.....	240.16
80.	Real Estate Sales.....	3,084.00
81.	Schools (Salaries).....	6,338.75
82.	Schools (Salaries, Janitors).....	150.20
83.	Schools (Textbooks, Stationery and Supplies).....	706.50
84.	Schools (Printing and Miscellaneous).....	63.34
85.	Schools (Manual Training).....	61.93
86.	Schools (Industrial Schools).....	249.00
87.	Schools (Industrial Schools, Main. Boys).....	46,716.84
88.	Schools (Industrial Schools, Main. Girls).....	24,217.30
89.	Schoolhouses.....	281.48
90.	Sealer of Weights and Measures Department.....	1,682.92
91.	Serial Fund.....	337,700.00
92.	Sewer Assessments.....	37,950.77
93.	Sewer Department (Construction).....	41,889.35
94.	Sewer Department (Maintenance).....	3,210.69
95.	Sewer Department (Purification).....	745.09
96.	Sewers (Construction Greendale Trunk).....	21.56
97.	Sewers (Purification, Filtration Beds).....	178.89
98.	Sidewalk Assessments.....	18,732.50
99.	Sinking Funds, 1888 to 1913.....	325,500.00
100.	Soldiers' Benefits.....	24,806.00
101.	Street Betterment Assessments.....	35,874.02

CITY OF WORCESTER, in account current from December 1, 1916,

102. Street Construction (Land Damage Account).....	975.90
103. Street Department (Construction).....	24.63
104. Street Department (Maintenance).....	151,135.78
105. Street Department (Paving Account).....	2,109.73
106. Street Department (Macadam Paving Account).....	723.89
107. Street Department (Sidewalks and Crosswalks).....	2,129.14
108. Street Department (Street Cleaning).....	349.76
109. Street Department (Street Sprinkling).....	2,098.91
110. Street Lighting Department.....	1,161.11
111. Street Sprinkling Assessments.....	74,371.03
112. Taxes, 1914 to 1916.....	747,704.60
113. Taxes, 1916 Corporation (Balance).....	18,508.81
114. Taxes, 1916 Street Railway Tax (Balance).....	14,777.09
115. Taxes, 1917.....	3,039,483.02
116. Taxes, 1917 Corporation.....	404,618.01
117. Taxes, 1917 Income Tax.....	280,220.30
118. Taxes, 1917 National Bank—State Account.....	5,789.52
119. Taxes, 1917 Street Railway.....	19,288.61
120. Taxes, 1917 Street Railway Excise.....	25,297.09
121. Taxes, 1917 Public Institution.....	7,689.67
122. Treasury Department.....	8,566.62
123. Water Department (Construction).....	70,380.97
124. Water Department (Maintenance).....	32,714.87
125. Water Department (1911 Emergency Supply).....	7,000.00
126. Water Rates.....	576,365.96
127. Water Works (Construction, Pipe Extension and Improvement).....	6,202.25
128. Water Works (Asnebumskit Supply).....	1,594.42
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	\$13,323,079.93
Balance, Cash in the Treasury, November 29, 1916.....	384,627.37
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	\$13,657,707.30

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To authorized payments charged to sundry accounts, as follows:—

No.		
1.	Abolition of Grade Crossings.....	\$7,795.70
2.	Assessors' Department (Salaries).....	15,604.08
3.	Assessors' Department (Miscellaneous).....	6,419.71
4.	Auditing Department.....	10,551.95
5.	City Clerk Department.....	10,596.42
6.	Clerk of Committees Department.....	3,977.19
7.	City Hospital.....	285,231.76
8.	City Hospital (Barnard Fund).....	46.00
9.	City Hospital (Harriet D. Brown Fund).....	836.00
10.	City Hospital (Burnside Fund).....	301.00
11.	City Hospital (Conant Fund).....	19.00
12.	City Hospital (Curtis Fund).....	49.98
13.	City Hospital (Isaac Davis Fund).....	141.00
14.	City Hospital (Jaques Fund).....	9,470.83
15.	City Hospital (McIntire Fund).....	145.00

to November 30, 1917, with HARRY C. SMITH, City Treasurer.

16.	City Hospital (Partridge Fund).....	21.00
17.	City Hospital (Rice Fund).....	301.00
18.	City Hospital (Salisbury Fund).....	181.00
19.	City Hospital (Sargent Fund).....	21.50
20.	City Hospital (Shaw Fund).....	80.00
21.	City Hospital (Stoddard Fund).....	103.19
22.	City Hospital (Tenney Fund).....	200.00
23.	City Hospital (Thayer Fund).....	967.33
24.	City Hospital (Thayer Nurses' Home Fund).....	296.30
25.	City Hospital (Wilson Fund).....	172.00
26.	City Messenger Department.....	37,501.69
27.	Engineering Department.....	35,888.95
28.	Fire Department (Pay Rolls).....	260,783.45
29.	Fire Department (Automobile Maintenance).....	3,070.44
30.	Fire Department (Fire Alarm—New Building).....	300.00
31.	Fire Department (Fire Alarm Telegraph).....	3,382.48
32.	Fire Department (Fuel).....	4,378.11
33.	Fire Department (Hay and Grain).....	739.60
34.	Fire Department (Horses, Hay and Grain).....	5,179.91
35.	Fire Department (Hose, Fittings and Apparatus Repairs).....	1,327.84
36.	Fire Department (Engine and Apparatus Repairs)....	1.00
37.	Fire Department (New Apparatus Account).....	11,980.47
38.	Fire Department (Miscellaneous).....	10,359.39
39.	General Expense.....	54,850.26
40.	Health Department.....	37,609.45
41.	Health Department (Belmont Hospital).....	77,691.84
42.	Health Department (Medical Inspection of Public Schools).....	4,714.84
43.	Health Department (Milk Inspection).....	2,674.23
44.	Home Defense.....	4,842.08
45.	Hope Cemetery.....	23,005.96
46.	Incidental Expenses (New Rifle Range Account).....	53.70
47.	Inspection and Construction of Buildings Department.....	27,761.67
48.	Inspection and Construction of Buildings Department (Hospital for Communicable Diseases).....	205.68
49.	Inspection and Construction of Buildings Department (Repairs and Improvements of Engine Houses)....	5,532.78
50.	Inspection and Construction of Buildings Department (Repairs and Improvements of Police Buildings)....	1,368.49
51.	Inspection and Construction of Buildings Department (Care of Schoolhouses).....	66,929.23
52.	Inspection and Construction of Buildings Department (Ordinary Repairs of Schoolhouses).....	25,279.75
53.	Inspection and Construction of Buildings Department (Permanent Improvements of Schoolhouses).....	20,948.33
54.	Interest.....	299,851.69
55.	Interest on Sewer Loan.....	76,645.00
56.	Interest on Water Loan.....	202,121.25
57.	Lake Quinsigamond (Bridge Account).....	141,421.76
58.	Law Department.....	8,500.48
59.	Liquor Licenses.....	73,323.90
60.	Loans, Funded City.....	250,500.00
61.	Loans, Funded Sewer.....	50,000.00
62.	Loans, Funded Water.....	25,000.00

CITY OF WORCESTER, in account current from December 1, 1916,

63.	Loans, Serial City	187,700.00
64.	Loans, Serial Sewer	25,000.00
65.	Loans, Serial Water	125,000.00
66.	Loans, Temporary	5,475,000.00
67.	Overlayings Taxes, 1914 (Abatements 1914)	8,167.58
68.	Overlayings Taxes, 1915 (Abatements 1915)	2,246.80
69.	Overlayings Taxes, 1916 (Abatements 1916)	11,008.25
70.	Overlayings Taxes, 1917 (Abatements 1917)	23,242.50
71.	Overseers of Poor Department (City Relief)	86,952.13
72.	Overseers of Poor Department (Home Farm)	116,781.21
73.	Overseers of Poor Department (House Offal)	85,082.29
74.	Park Commissioners	50,601.01
75.	Park Commissioners (Forestry)	8,188.82
76.	Edward Livingston Davis Tower and Park Fund	514.29
77.	William A. Richardson Park Fund	9,967.55
78.	Boynton Park	74.54
79.	Moth and Beetle Extermination	18,453.72
80.	Public Playgrounds	18,922.28
81.	Pensions	24,509.83
82.	Police Department (Pay Rolls)	311,681.81
83.	Police Department (Cloth, Caps and Helmets)	843.16
84.	Police Department (Miscellaneous)	29,720.62
85.	Police Department (New Police Stations)	112,783.85
86.	Public Library Department (Salaries and Pay Rolls)	43,678.67
87.	Public Library Department (Books and Periodicals)	17,954.69
88.	Public Library Department (Heat, Light and Repairs)	6,329.01
89.	Public Library Department (Miscellaneous)	4,898.63
90.	Public Library Department (Green Library Book Account)	2,211.67
91.	Public Library Department (Reading Room Fund)	893.12
92.	Real Estate Lien Account	236.31
93.	Schools (Salaries)	874,276.37
94.	Schools (Salaries, Janitors)	78,051.29
95.	Schools (Textbooks, Stationery and Supplies)	43,700.77
96.	Schools (Printing and Miscellaneous)	11,193.26
97.	Schools (Truant School)	2,838.58
98.	Schools (Manual Training)	6,252.61
99.	Schools (Evening Schools)	26,625.41
100.	Schools (Industrial Schools)	79,647.80
101.	Schools (Industrial Schools, Maintenance, Boys)	75,671.58
102.	Schools (Industrial Schools, Maintenance, Girls)	37,856.56
103.	Schoolhouses	55,062.90
104.	Schoolhouses (High Schools)	54,607.37
105.	Sealer of Weights and Measures Department	7,480.71
106.	Serial Funds (Account—City Payment)	337,700.00
107.	Sewer Department (Construction)	89,210.33
108.	Sewer Department (Maintenance)	52,302.76
109.	Sewer Department (Purification)	64,845.69
110.	Sewers (Construction Greendale Trunk)	27,295.08
111.	Sewers (Purification, Filtration Beds)	9,776.71
112.	Sewers (Purification, Outfall Sewer)	389.04
113.	Brooks and Rivers (Maintenance)	275.69
114.	Sinking Funds, 1888 to 1913	415,253.00
115.	Soldiers' Benefits	46,574.64
116.	Street Construction (Land Damage Account)	47,999.72

to November 30, 1917, with HARRY C. SMITH, City Treasurer

117.	Street Construction (Land Damage Account, Shrewsbury Street) .....	.67
118.	Street Department (Salaries and Clerical Service).....	11,978.96
119.	Street Department (Bridges and Repairs).....	1,569.09
120.	Street Department (Construction).....	53,116.90
121.	Street Department (Maintenance).....	345,602.68
122.	Street Department (Paving Account).....	53,868.43
123.	Street Department (Macadam Paving Account).....	9,335.93
124.	Street Department (Sidewalks and Crosswalks).....	34,548.12
125.	Street Department (Street Cleaning).....	96,771.73
126.	Street Department (Street Sprinkling).....	91,441.51
127.	Street Lighting Department.....	191,114.96
128.	Supervision of Wires Department.....	4,756.52
129.	Taxes, 1916, Corporation.....	2,394.86
130.	Taxes, 1917, County.....	186,869.00
131.	Taxes, 1917, National Bank, State Account.....	18,712.48
132.	Taxes, 1917, State.....	419,210.00
133.	Taxes, 1917, State Highway Account.....	1,446.06
134.	Treasury Department.....	25,696.44
135.	Water Department (Construction).....	153,775.29
136.	Water Department (Maintenance).....	159,769.92
137.	Water Department (1911 Emergency Supply).....	179.25
138.	Water Works (Construction, Pipe Extension and Improvement).....	32,624.39
139.	Water Works (Asnebumskit Supply).....	161,436.44
140.	Water Works (Tatnuck Supply).....	5,683.79
		<hr/>
	Balance, Cash in the Treasury November 30, 1917	128,567.53
		<hr/>
		\$13,657,707.30

No.	TITLE OF FUND	Amounts Nov. 29, 1916	Receipts During Year	Totals	Payments During Year	Amounts Nov. 30, 1917
1	Bullock High School Fund.....	\$2,841.43	\$113.72	\$2,955.15	\$190.94	\$2,764.21
2	Hope Cemetery Perpetual Care Account.....	196,490.00	8,925.00	205,415.00	.....	205,415.00
3	Green Library.....	64,149.96	3,301.09	67,451.05	2,405.27	65,045.78
4	Isaac Davis Hospital.....	5,000.00	200.00	5,200.00	200.00	5,000.00
5	Jaques Hospital.....	192,833.31	9,491.88	202,325.19	9,491.88	192,833.31
6	Curtis Hospital.....	1,000.00	40.00	1,040.00	40.00	1,000.00
7	Shaw Hospital.....	2,000.00	80.00	2,080.00	80.00	2,000.00
8	Tenney Hospital.....	5,000.00	200.00	5,200.00	200.00	5,000.00
9	Sallabury Hospital.....	5,500.00	220.00	5,720.00	220.00	5,500.00
10	Bancroft Endowment.....	10,587.38	416.00	11,003.38	415.52	10,587.86
11	Sargent Hospital.....	500.00	20.00	520.00	20.00	500.00
12	Dewey Charity.....	2,000.00	80.80	2,080.80	80.80	2,000.00
13	Librarian.....	11,035.60	498.37	11,533.97	.....	11,533.97
14	Edwin Conant Hospital.....	1,500.00	60.00	1,560.00	60.00	1,500.00
15	Stoddard Hospital.....	5,117.90	185.68	5,303.58	185.68	5,117.90
16	Partridge Hospital.....	1,500.00	60.00	1,560.00	60.00	1,500.00
17	David M. McIntire Hospital.....	5,150.00	206.00	5,356.00	206.00	5,150.00
18	Walker Hospital.....	1,000.00	40.00	1,040.00	40.00	1,000.00
19	Barnard Hospital.....	1,500.00	60.00	1,560.00	60.00	1,500.00
20	Reading Room.....	9,180.94	444.45	9,625.39	444.45	9,180.94
21	Henry W. Brown Library.....	186.15	7.50	193.65	.....	193.65
22	Wilson Hospital.....	6,500.00	260.00	6,760.00	260.00	6,500.00
23	Burnside Hospital.....	3,000.00	150.00	3,150.00	150.00	3,000.00
24	Burnside Drinking Fountain.....	259.90	10.48	270.38	.....	270.38
25	Jerome Wheelock.....	167.51	18.94	184.45	.....	184.45
26	Thayer Hospital.....	19,694.50	957.90	20,652.40	957.90	19,694.50
27	Thayer Nurses' Home.....	9,847.25	490.00	10,337.25	490.00	9,847.25
28	Wm. A. Richardson Park.....	221,614.64	8,986.47	230,601.11	8,886.47	221,614.64
29	Geo. F. Hoar Memorial Statue.....	169.23	6.82	176.05	.....	176.05
30	Pratt Drinking Fountain.....	1,130.03	45.64	1,175.67	.....	1,175.67
31	Farnum Hospital.....	430.35	17.20	447.55	17.20	430.35
32	Mary A. Sheedy Library Fund.....	109.50	4.00	113.50	1.50	112.00
33	Alfred Heinsheimer Hospital Fund.....	1,000.00	40.00	1,040.00	40.00	1,000.00
34	Edward Livingston Davis Park and Tower Fund.....	5,877.86	259.17	6,137.03	1,086.05	5,050.98
35	Harriet D. Brown Hospital Fund.....	8,000.00	381.09	8,381.09	381.09	8,000.00
36	Henry F. Harris Hospital.....	5,000.00	250.00	5,250.00	250.00	5,000.00
37	Lucy W. Rice Hospital.....	5,000.00	250.00	5,250.00	250.00	5,000.00
38	Wolfe Hospital.....	.....	5,995.54	5,995.54	144.28	5,851.26
		\$811,773.44	\$42,771.74	\$854,545.18	\$27,315.03	\$827,230.15

INVESTMENTS					Totals	Cash Balances	Total Assets
No.	First Mortgages	Misc. Bonds	Misc. Stocks	Cash			
1				\$2,000.00	\$2,000.00	\$764.21	\$2,764.21
2		\$97,119.30		108,295.70	205,415.00		205,415.00
3	\$29,000.00	25,380.00	\$5,000.00	5,715.78	65,045.78		65,045.78
4				2,000.00	2,000.00	3,000.00	5,000.00
5	191,047.10			1,786.21	192,833.31		192,833.31
6				1,000.00	1,000.00		1,000.00
7				2,000.00	2,000.00		2,000.00
8				5,000.00	5,000.00		5,000.00
9				5,000.00	5,000.00	500.00	5,500.00
10				10,400.00	10,400.00	187.86	10,587.86
11				500.00	500.00		500.00
12				2,000.00	2,000.00		2,000.00
13	5,800.00	1,770.00		3,968.97	11,538.97		11,538.97
14				1,000.00	1,000.00	500.00	1,500.00
15			4,600.00		4,600.00	517.90	5,117.90
16				1,000.00	1,000.00	500.00	1,500.00
17				3,650.00	3,650.00	1,500.00	5,150.00
18				1,000.00	1,000.00		1,000.00
19				1,000.00	1,000.00	500.00	1,500.00
20			1,800.00	7,380.94	9,180.94		9,180.94
21				100.00	100.00	93.65	193.65
22				5,000.00	5,000.00	1,500.00	6,500.00
23		3,000.00			3,000.00		3,000.00
24						270.38	270.38
25				184.45	184.45		184.45
26	19,600.00			94.50	19,694.50		19,694.50
27	9,800.00			47.25	9,847.25		9,847.25
28		178,245.00	47,982.00	387.64	221,614.64		221,614.64
29				176.05	176.05		176.05
30				955.00	955.00	220.67	1,175.67
31				430.35	430.35		430.35
32				100.00	100.00	12.00	112.00
33				1,000.00	1,000.00		1,000.00
34		4,985.00		15.00	5,000.00	50.98	5,050.98
35	8,000.00				8,000.00		8,000.00
36	5,000.00				5,000.00		5,000.00
37	5,000.00				5,000.00		5,000.00
38	5,000.00			851.26	5,851.26		5,851.26
	\$278,247.10	\$305,449.30	\$59,882.00	\$174,084.10	\$817,112.50	\$10,117.65	\$827,230.15

For further particulars in regard to the City Trust Funds the undersigned begs leave to refer to the annual reports of the several boards and commissions having them in charge and to his statements appended thereto.

Respectfully submitted,

H. C. SMITH,

City Treasurer.

December 31, 1917.

This certifies that I have verified the amounts as stated in this report of H. C. Smith, City Treasurer, to the Joint Standing Committee on Finance for the year ending November 30, 1917, and the amount of each and every item agrees with the books in this office, and the total footing is \$1,166,-076.65.

FRANK E. WILLIAMSON,
City Auditor.

CITY CLERK DEPARTMENT

WORCESTER, MASS., December 13, 1917.

To the Honorable City Council:—

In accordance with the requirements of Chapter 5 of the Revised Ordinances of 1909, the City Clerk submits the following statement of the money received by him for licenses, fees, or otherwise, during the year ending November 30, 1917, viz.:

Licenses—

Amusements.....	\$5,280.50
Auctioneers.....	52.00
Billiards.....	2,120.00
Detectives, private.....	10.00
Dogs.....	2,823.00
Dogs transferred.....	11.00
Fireworks.....	87.00
Garage and gasoline.....	318.00
Gasolene.....	38.00
Hacks.....	180.00
Hack drivers.....	218.00
Hawkers and pedlars.....	1,035.00
Ice cream dealers.....	2,715.00
Intelligence offices.....	175.00
Itinerant musicians.....	17.00
Job wagons.....	1,015.00
Junk dealers.....	550.00
Lunch wagons.....	300.00
Old rags gatherers.....	430.00
Pawnbrokers.....	400.00
Petroleum.....	36.00
Signs.....	186.00
Slaughterers of cattle.....	5.00
Steamboats.....	2.00
Office fees.....	4,273.08

\$22,276.58

This sum has been paid to the City Treasurer, and receipts taken therefor.

There has also been paid to Edgar L. Ramsdell, County Treasurer, the sum of \$6,344.80 for dog licenses, and to the Commissioners on Fisheries and Game the sum of \$2,536.00 for hunters' licenses.

Respectfully submitted,

W. HENRY TOWNE,
City Clerk.

REPORT OF THE JOINT STANDING COMMITTEE ON FINANCE

CITY OF WORCESTER, MASS., Dec. 29, 1917.

To the Honorable City Council:—

In compliance with the provisions of Chapter 18 of the Revised Ordinances of 1909, the Joint Standing Committee on Finance beg leave to report that they have examined and audited the accounts of the City Treasurer for the financial year ending November 30, 1917.

They further report that it appears, from the books of the Treasurer, that his cash receipts during the last financial year amounted to.....\$13,323,079.93

That his cash balance November 29, 1916, was	334,627.37
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Making the total amount to be accounted for.....	\$13,657,707.30
And that his cash payments amounted to.....	13,529,139.77

Leaving a cash balance November 30, 1917, of	\$128,567.53
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Which amount they have verified by an actual count of the cash in the treasury at the close of business on Friday, 30th ult., and by an examination of the several bank balances standing to the credit of the City on that date.

They further report that the only securities in the custody of the Treasurer, trust fund securities excepted, are Collector's deeds, securing sundry liens on real estate, to the amount of \$2,568.12.

They further report that, of the several taxes, assessments and department bills committed to the Treasurer and Collector of Taxes for collection, as verified by entries on the books of the Auditor, the following were outstanding at the close of business November 30, 1917:

City, county and state taxes of 1914.....	\$2,226.56
City, county and state taxes of 1915.....	8,269.80
City, county and state taxes of 1916.....	14,794.00

City, county and state taxes of 1917.....	818,490.98
Moth extermination assessment, 1917.....	1,222.25
Sewer assessments.....	45,364.99
Sidewalk assessments.....	10,876.40
Street betterment assessments.....	39,358.01
Street sprinkling assessments, 1917.....	18,387.91
City Hospital, board of patients.....	76,041.88
Engineering Department (labor, etc.).....	52.21
Health Department, Belmont Hospital (board of patients)...	50,768.72
Health Department, Belmont Hospital (Tuberculosis) (board of patients).....	1,778.99
Hope Cemetery, temporary care of lots.....	814.00
Hope Cemetery, digging graves, grading, etc.....	254.00
Inspection and Construction of Buildings Department (ordin- ary repairs of schoolhouses).....	129.20
Moth and beetle extermination.....	22.30
Overseers of Poor Department, aid to paupers.....	15,223.46
Overseers of Poor Department, board of patients.....	255.64
Park Commissioners (forestry).....	12.36
Real Estate Lien Account.....	2,568.12
Schools (salaries).....	2,209.00
Schools (Industrial Schools, maintenance, boys).....	486.50
Schools (Industrial Schools, maintenance, boys' tuition)....	1,070.17
Schools (Industrial Schools, maintenance, girls' tuition)....	225.00
Sewer Department (construction).....	1,055.90
Sewer Department (maintenance).....	74.31
Sewer Department (purification).....	56.24
Street Department (maintenance).....	17,487.26
Street Department (street sprinkling).....	5,392.45
Street Lighting Department.....	24.00
Water Department (construction).....	5,358.33
Water Department (maintenance).....	442.53
Water rates.....	25,582.18
Water Works (construction, pipe extension and improvement)	3,772.50
Water Works (Asnebumskit supply).....	929.00
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	\$1,166,076.65

VINCENT E. TOMLINSON,
MARVIN M. TAYLOR,
MICHAEL J. FITZGERALD,
WINFRED H. WHITING,
ALFRED E. RANKIN,
MARTIN J. O'BRIEN,

Finance Committee.

ANNUAL REPORT
OF THE
CITY MESSENGER
DEPARTMENT

FOR THE
YEAR ENDING NOVEMBER 30, 1917



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

ANNUAL REPORT OF THE CITY MESSENGER

Gentlemen of the City Council of Worcester:—

The City Messenger begs leave to report that during the past year the total amount appropriated for his department was \$38,442.14; total expended \$38,406.77, leaving an unexpended balance of \$35.37.

Stock on hand per inventory at close of the year was \$700.54 made up of—stamps and postals, \$14.43; car tickets, \$14.70; blank books and stationery, \$229.62; penholders and pencils, \$203.77; ink and mucilage, \$23.13; typewriter ribbons and carbons, \$137.61; sundries, \$77.28.

The question of parking automobiles on the mall in the rear of the City Hall building has been considered by the City Messenger from various angles and several plans have been explained. It is apparent that in order to enforce anything like a system of parking cars in this locality, that the services of a representative of this department, on duty on the mall at the busy hours of the day, would be required. I am of the opinion that the system of parking cars, the so-called Detroit diagonal system, should be given a trial here and for this an appropriation should be made, for the services of an extra man for this duty part of the year. The mall is 24 feet wide and allowing 15 feet for parking the cars diagonally on part of the mall, would leave a driveway of 9 feet for passing.

The revenue received by the City Messenger Department during 1917 shows an increase of over \$600.00 over that of the preceding year.

The general high prices during the past year have been felt at City Hall as everywhere else, and little funds have been available for the repair of furniture in the City Hall building.

The janitorial force has kept the interior of the building up to its usual high degree of cleanliness and efficient janitor service, receiving the compliments of many visitors to Worcester. It would seem that the municipal building has been visited in 1917 by a greater volume of people than ever, resulting in part from the war activities. Information sought by numberless people from this department has been furnished to the extent of our resources.

The figures below tell in detail the story of the year.

RECEIPTS	
Balance November 30, 1917.....	\$698.20
Appropriation.....	20,700.00
Revenue Sales and Office Supplies:—	
Assessors' Department.....	\$173.62
Auditing Department.....	325.38
City Clerk Department.....	200.17
City Hospital.....	18.96
City Messenger Department.....	25.86
Clerk of Committees Department.....	203.37
Engineering Department.....	281.88
Fire Department.....	27.24
General Expense:	
City Council.....	85.98
Civil Service Labor Registrar.....	26.53
Draft Enrollment.....	1.99
Election Expenses.....	65.93
Fence Viewers.....	.80
Licenses.....	117.70
License Commission.....	16.42
Mayor's Office.....	201.71
Planning Board.....	8.52
Registrars of Voters.....	.75
Safe and Sane Fourth.....	18.00
State Aid.....	10.00
Health Department.....	926.78
Hope Cemetery Department.....	2.73
Industrial Schools.....	163.20
Inspection and Construction of Buildings Department.....	479.77
Law Department.....	112.43
Moth and Beetle Extermination.....	12.57
Overseers of Poor—City Relief.....	143.02
Overseers of Poor—Home Farm.....	128.95
Parks Commission.....	143.50
Playground Commission.....	177.84
Police Department.....	970.73
Public Library Department.....	40.31
School Department.....	661.70
Sealer of Weights and Measures Department.....	31.40
Sewer Department.....	460.87
Street Department.....	1,416.37
Street Lighting Department.....	39.51
Supervisor of Wires.....	102.28
Treasury Department.....	2,867.02
Water Department—Commissioners and Registrar.....	6,254.93
	\$16,946.82
Miscellaneous Sales:	
Junk, etc.....	\$97.12
	\$97.12
Total receipts.....	\$38,442.14
EXPENDITURES	
Salary, City Messenger.....	\$1,800.00
Pay Roll—City Hall janitors.....	10,658.04

Office assistance	200.72	
Automobile hire	26.50	
Books, subscriptions and printing	60.25	
Badges and flags	224.22	
Cleaning walks of snow	649.01	
Clean towel supply	106.39	
Clerical assistance	22.39	
Clock repairs	26.25	
Electric light	884.64	
Electric power	108.77	
Electrical supplies and repairs	264.21	
Elevator supplies and repairs	3.25	
Express, freight, etc.	5.95	
Flowers, shrubbery—care of lawns	67.62	
Fuel	2,767.71	
Furniture	1,264.97	
Gas	172.70	
Heating plant	13.12	
Ice	165.87	
Janitor's supplies	735.10	
Licenses	6.00	
Locks, keys and lock repairs	32.58	
Moving ashes	100.11	
Office supplies, departmental	25.86	
Office supplies—stock account	16,506.03	
Repairs furniture, etc.	153.53	
Street sprinkling	71.50	
Telephone rental and tolls	6.10	
Trucking	18.75	
Water bills—building	234.79	
Water bills—elevator	1,023.84	
		<hr/>
Total expenditures		\$38,406.77
Balance unexpended November 30, 1917		\$35.37

I desire, gentlemen, in closing to thank you for your confidence.

EDWIN M. C. FRENCH,
City Messenger.



GREEN REFERENCE LIBRARY, ARTS DEPARTMENT
NEWSPAPER READING ROOM 1891

CIRCULATION DEPARTMENT, CHILDREN'S DEPARTMENT
MAGAZINE READING ROOM 1891

FIFTY-EIGHTH ANNUAL REPORT
OF THE
DIRECTORS
OF THE
FREE PUBLIC LIBRARY
OF THE
CITY OF WORCESTER
FOR THE
YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

DIRECTORS FOR 1918

		TERM EXPIRES
CHANDLER BULLOCK	GUSTAF A. BERG	1918
CHARLES A. HARRINGTON	GEORGE H. BLAKESLEE	1919
MICHAEL F. FALLON	LOUIS E. FEINGOLD	1920
FRANCIS P. McKEON	HARRY G. STODDARD	1921
ALFRED THOMAS	SHEPHERD KNAPP	1922
VINCENT E. TOMLINSON	LUCIUS J. KNOWLES	1923

ORGANIZATION OF THE DIRECTORS FOR 1918

PRESIDENT	SECRETARY
CHANDLER BULLOCK	GEORGE H. BLAKESLEE
COMMITTEE ON FINANCE	
CHANDLER BULLOCK	GUSTAF A. BERG
CHARLES A. HARRINGTON	
COMMITTEE ON THE LIBRARY	
GEORGE H. BLAKESLEE	MICHAEL F. FALLON
CHANDLER BULLOCK	LOUIS E. FEINGOLD
SHEPHERD KNAPP	
COMMITTEE ON THE BUILDING	
CHARLES A. HARRINGTON	GUSTAF A. BERG
FRANCIS P. McKEON	
COMMITTEE ON BRANCH LIBRARIES	
VINCENT E. TOMLINSON	FRANCIS P. McKEON
LOUIS E. FEINGOLD	
COMMITTEE ON THE READING ROOM	
HARRY G. STODDARD	ALFRED THOMAS
LUCIUS J. KNOWLES	
SPECIAL COMMITTEE ON NEW BUILDING	
CHARLES A. HARRINGTON	GEORGE H. BLAKESLEE
MICHAEL F. FALLON	ALFRED THOMAS
HARRY G. STODDARD	

ORGANIZATION OF THE STAFF FOR 1918

LIBRARIAN EMERITUS
SAMUEL S. GREEN

LIBRARIAN
ROBERT K. SHAW

REFERENCE DEPARTMENT

REFERENCE LIBRARIAN
GRACE W. WOOD

SENIOR ASSISTANTS	
MAY A. DONAHUE	GRACE H. MOORE
ANNIS L. KINSMAN	HOPE G. ROBINSON

MAUDE E. WESBY

JUNIOR ASSISTANT
ETHEL G. HOWE

IN CHARGE OF NEWSPAPER ROOM
BENJAMIN COHEN

EXTRA ATTENDANTS AND RUNNERS

ISADORE BERKOWITZ	HARRY J. FRAZIER
ELIAS BURWICK	FRANK PARTRIDGE
CLIFFORD E. BOOTH	JOHN E. RATIGAN
M. ALOYSIUS DONAHUE	SAMUEL J. REED

CIRCULATION DEPARTMENT

CIRCULATION LIBRARIAN
EDITH M. GATES

SENIOR ASSISTANTS	
MINNIE F. ADAMS	MARY E. BURKE
ISABEL A. THAYER	

JUNIOR ASSISTANTS*

JENNIE L. ABBOTT	MARIE A. MURPHY
GRACE E. BUTTLER	RUTH W. PIERCE
ETHEL V. CARY	ANGELINE M. RACINE
ANGELA M. MURPHY	BERNICE S. SANBORN

EXTRA ATTENDANTS AND RUNNERS

MATTIE J. ALLEN	FRANCIS H. McGRATH
JEREMIAH G. GLAVIN	MARY H. McGRATH
ETHEL V. M. GUSTAFSON	RUTH MITCHELL
JAMES G. LITTLE	GEORGE D. RACINE

*Three of these assistants work part of the time in the Catalogue Department.

CHILDREN'S DEPARTMENT

CHILDREN'S LIBRARIAN
MADELENE M. BELL

SENIOR ASSISTANT
AGNES C. COOK

JUNIOR ASSISTANTS

FLORENCE G. HAYNES
RUTH M. KING
MARY E. MURPHY

FLORENCE O'GARA
HELEN M. PRUE
FRANCES E. WALSH

EXTRA ATTENDANTS AND RUNNERS

PATRICK CASEY
WILLIAM J. COFFEY

HJALMAR FAHNSTROM
MARY SULLIVAN

IN CHARGE OF SCHOOL WORK
KATHARINE M. MURRAY

JUNIOR ASSISTANT
MAE PARKINSON

CATALOGUE DEPARTMENT

CHIEF CATALOGUER
ELLA L. SAWYER

JUNIOR ASSISTANT
MARY F. BRIGHTMAN

JANITORIAL DEPARTMENT

JANITORS
WALTER B. LOGAN

HIRAM A. RICHARDS

WATCHMAN
JOHN J. TOBIN

SUBSTITUTE
FRED SANDERS

CLEANERS
ANNA FAHNSTROM
CATHERINE FITZGERALD

SARAH J. HARAGHY
CATHERINE KANE

MARY RICE

GREENDALE BRANCH

LIBRARIAN
RUTH E. RODIER

JUNIOR ASSISTANTS

CHARLOTTE BARNES

VERA G. SVEDBERG

EXTRA ATTENDANT

VIOLA NYLEN

JANITOR

WENDELL P. BUTLER

QUINSIGAMOND BRANCH

LIBRARIAN

CECILE F. HOUGHTON

JUNIOR ASSISTANTS

MONA ADSHEAD

FLORENCE E. HOLMES

EXTRA ATTENDANTS

ALICE LINDBERG
ROYAL NELSON

ELDORA LINDBERG
THYRINDA SWENSON

JANITOR

OTTO NELSON

SOUTH WORCESTER BRANCH

LIBRARIAN

KATHERINE E. COOK

SENIOR ASSISTANT

MARJORIE H. MARTIN

JUNIOR ASSISTANTS

MARY BROSNAHAN

DOROTHY E. JACKSON

NELLIE I. CRABB

JANITOR

ANDREW J. COLVIN

CLEANER

MINNIE COLVIN

LIBRARY HOURS*Reference Department**

9 a. m. to 9.30 p. m. daily, including holidays.
Sundays 2 to 9 p. m.

Circulation Department

9 a. m. to 9 p. m., except Sundays and holidays.
Jan. 1, Feb. 22, April 19, and Oct. 12, open as on other week days.
Open from 8.30 to 9.00 a. m. for the return only of books.

Children's Department

9 a. m. to 8 p. m. daily.
Holidays 2 to 6 p. m.
Sundays 2 to 6 p. m.

Newspaper Reading Room

8 a. m. to 9.30 p. m. daily, including holidays.
Sundays 1 to 9 p. m.

BRANCH LIBRARIES.

GREENDALE	470 W. Boylston Street
QUINSIGAMOND	812 Millbury Street
SOUTH WORCESTER	705 Southbridge Street

Open daily, 12 to 9 p. m.; Sundays, 2.30 to 6 p. m.

*From January 4 to March 11, to save coal, hours at the main library were changed to 11 a. m. to 6.30 p. m. on Mondays to Fridays, inclusive.

REPORT OF THE LIBRARIAN

To the Board of Directors:

Gentlemen: Since our entrance into the great war has necessarily postponed plans for a new building, so urgently needed, every effort must be made to render our present quarters as efficient as possible. From the circulation department comes now the loudest call for expansion, a call which simply must be answered.

Our plan is to erect a complete partition across the southern part of the great newspaper room, and to use the area thus reclaimed for a new arts and science department, to contain all the 9,000 books in these classes, with the necessary shelving, tables, catalog and permanent attendant. Thus we may create a truly adequate department, with proper supervision, where the mechanics and artisans of our city can make a systematic and intelligent use of our excellent but hitherto somewhat neglected resources in these highly important lines of research. The expense will involve about \$1,300, but it is now eighteen years since the city has granted any funds for expansion at the main building, and such expansion is simply imperative. Our estimates include an appropriation for this purpose and the plan has received the endorsement of the building committee.

In spite of crowded conditions our home and school circulation as a whole has increased from 496,708 to 507,187, a gain of 10,479. The three branches show a really substantial gain from 167,941 to 190,450; 22,509 or more than 13%. The number of active borrowers for the whole library has risen from 33,174 to 33,624, our rigid rules of registration keeping on our books only those who have actually used their cards within three years.

As the payment of a living wage to all full-time employees is the first obvious duty of a city institution, it is earnestly hoped that the just, but moderate recommendations of the finance committee will be accepted without change, both by this board and also by the mayor and city government. A petition signed by all the staff sets forth the impossibility of meeting the continually rising cost of all the necessities of life, with the salaries now received by the majority of the staff, whose weekly income, excepting only the librarian,

averages less than \$12.50. An itemized financial statement forms the first appendix of this report.

Among the duties of the library committee is the conduct of the annual examination for library assistants. Although some promising candidates appeared at the November examination, the committee is not fully satisfied with the results and believes that some thought should be given to the question of a training class from which regular members of the staff might be recruited. Again our crowded conditions make the establishment of such a class apparently impracticable, but the matter should have the careful consideration of the incoming committee.

A duplicate pay collection is an important feature of many progressive libraries, and has been discussed at several meetings, but no decision has been reached. Objections are chiefly academic and the cost of installation is practically negligible.

The library's bibliographical work has had much attention and encouragement from this committee. All four departments have collaborated in making lists, longer or shorter, on the following subjects: Aids to thrift and happiness; vegetable gardens; healthful thought or mental healing; Belgium; Thanksgiving; Red Cross; vacation reading; sermon helps, etc. As a library is known outside chiefly from its publications, it is hoped that this work may be steadily advanced in future years.

Our magazine room is crowded and unattractive, but no material expansion is possible here. An additional magazine-rack, placed in the ladies' reading room, would afford some relief and its purchase is strongly recommended. The list of periodicals subscribed for is scrutinized annually and pruned when necessary. So many important journals are continually appearing that no substantial reduction in the aggregate is possible, the whole number, including newspapers, being now 569 as compared with 594 last year.

Branch libraries have flourished, as witnessed by the gain in circulation of 13 per cent. As miniature civic centers their activities are of special interest and value; surgical dressings committees, food economy demonstrators, parent teachers' associations, boys' and girls' clubs being among the organizations that have regularly and profitably used the community rooms.

Nearly four years have passed since the opening of the branches and these beautiful buildings should not be allowed to deteriorate through neglect. Inside finish, walls, ceilings and masonry need attention in many cases. At Greendale the important work of weatherstripping was performed in the early autumn.

The purchase for less than \$50 of a balopticon, which will hold both lantern-slides and picture-postals, should act as a stimulus to our extension work both at the branch libraries and from the central buildings.

The principal gift received at any branch was a beautiful 20-foot flagpole at Quinsigamond, presented and erected at their expense, by the American Steel & Wire Co., donors also of the branch library site.

Routine work on Elm Street has been carried on cheerfully under difficult conditions. The extension work of the circulation department has shown an encouraging gain, in the aggregate, but the Grafton Square delivery station has not justified its existence for some time, and its discontinuance, on January 1st next, is herewith recommended. Many years' experience shows that much better results are achieved in extension work when library assistants are present to direct it.

The rearrangement of our foreign book section has been the most important special work of the circulation department. Fact-books have now been added to fiction on the shelves, in all foreign languages, at a great expense of care, time and labor, but the appreciation as shown by many of our patrons is a gratifying and ample reward.

Devotion to war work has probably been the chief factor to reduce, by a small per cent., the patronage of the reference department, though an increase in the holiday use is noted. For the first time this department has been closed on the Fourth of July and Christmas Day. This change has caused no adverse criticism and has enabled the staff to enjoy two of the most valued of our holidays. Thanksgiving Day should be added next year.

An index to the incunabula (or books printed before 1500) in the United States shows that five of the twenty-one such books owned by us are probably unique in America.

Our own war work has consisted chiefly in sending some 3,000 books and 1,600 magazines to Camp Devens; in making soldiers' scrapbooks at the branch libraries, and in lending community rooms to war relief societies. Five of our male attendants have left to enlist in the federal service. In the nation-wide "Camp Library Week," we took our part and exceeded the \$100 which the staff promised as its gift towards Worcester's \$8,000 quota.

The children's department has shown a gain of over 5% in circulation. The hard wear to which their collection of books is subjected may be judged from the fact that 22% of the books in the adult and children's departments together carries 48% of the circulation. The school-deposit work, in

which some very lively branch library activity is carried on weekly at various grammar schools, is an outstanding feature. Increasing cost of books, binding and mending materials makes a liberal book allowance essential for the efficiency of this and other departments.

The cataloguers have furnished much needful and expert assistance in the reorganization of the foreign book collection mentioned in an earlier paragraph. Because their work makes no showing to the superficial observer, its importance should not be discounted. Much of the cataloguer's work, in fact, is irksome and monotonous to such a degree that compensations sometimes are found only in its transcendent importance.

Three junior assistants have resigned since the presentation of my last report: Miss Bartlett from the children's department to join the staff of the Newton Library; Miss Jones from the reference to accept a business position, and Miss M. T. Murphy from Greendale, to enter a convent. The continued zeal and efficiency shown by all the staff in their discharge of duty are deserving of highest praise. My heartiest thanks are due to you, gentlemen of the Board of Directors, for many acts of courtesy and cordial support, and particularly to your president for his unflinching readiness to give attention to my many requests; for much valued advice furnished, and especially for the substantial and sympathetic encouragement which our Camp Library Week, not an over-popular cause, received from him. For the privilege of serving the people of Worcester as City Librarian for the past nine years I am likewise profoundly thankful.

Respectfully submitted,

ROBERT K. SHAW,
Librarian.

City of Worcester.

Free Public Library, Dec. 26, 1917.

I have examined the account of Robert K. Shaw, Librarian, from December 1, 1916, and find that it stands as follows:

RECEIPTS

Cash balance in Librarian's hands, Dec. 1, 1916	\$182.62
Fines	1,804.67
Sale of catalogues	5.60
Books and magazines paid for as lost	52.72
Books sold	240.00
Sale of waste paper	57.79
Sale of packing boxes . . . . .	.75

Rebate on magazine.....	.25
Rebate on express.....	.29

\$2,344 .69

EXPENSES

Money refunded for books lost but found and returned	\$4 .20
Paid City Treasurer for fines, etc.....	2,144 .65
Balance in Librarian's hands, Dec. 1, 1917.....	195 .84

\$2,344 .69

Examined and approved,

CHARLES M. THAYER,
Chairman, Finance Committee.

APPENDIX I

RECEIPTS AND EXPENDITURES

RECEIPTS

Municipal appropriations		\$62,500.00
Income from invested funds:		
Green Library fund	\$3,207.03	
Reading room fund	444.45	
Librarian fund	498.37	
Henry W. Brown fund	7.50	
Sheedy fund	4.00	
		4,161.35
Receipts from dog licenses		5,103.32
Receipts from fines		1,804.67
Receipts from sale of catalogues		5.60
Payments for missing and damaged books, etc.		48.52
Sale of books		240.00
Sale of waste paper		57.79
Sale of boxes .....		.75
Rebate on magazine .....		.25
Rebate on express .....		.29
Rent, Knights of Columbus building		10.00
Cash on hand at last report:		
Municipal appropriation	\$2,728.75	
Green Library fund	1,155.14	
Reading room fund	25.42	
Sheedy fund	9.50	
Fines, catalogues, etc.	182.62	
		4,101.43
		\$78,033.97

EXPENDITURES

Book Account.

Books:		
Green Library fund	\$2,168.38	
City appropriation	11,071.57	
		\$13,239.95
Periodicals:		
Green Library fund	\$30.00	
City appropriation	1,634.44	
Reading room fund	126.12	
Sheedy fund	1.50	
		1,792.06
Binding		4,550.70

BUILDING ACCOUNT

Repairs and additions.....	916.85
Furniture.....	478.75
Insurance.....	839.18
Fuel.....	2,218.40
Lights.....	2,074.54

SALARY ACCOUNT

Administration (including wages of janitors).....	43,754.95
---	-----------

SUPPLY ACCOUNT

Printing lists of additions.....	403.25
Stationery, printing report, etc., and postage.....	2,418.67
Sundries:	
Water for elevators, etc.....	\$284.31
Freight (foreign and domestic), expressage, and minor running expenses.....	1,668.24
Amount added of income of the Green Library fund to the principal of the fund.....	801.76
Income of Librarian fund added to principal .	498.37
Income of Henry W. Brown fund, added to principal.....	7.50
	<u>3,260.18</u>
	\$75,942.48

Cash on hand December 1, 1917:

Green Library fund.....	\$1,215.53
Reading room fund.....	343.75
Shedy fund.....	12.00
Money received from fines, etc.....	195.84
Balance from municipal appropriation.....	324.37
	<u>2,091.49</u>
	\$78,038.97

APPENDIX II

ACCESSIONS

MAIN LIBRARY

Increase of volumes by purchase:

Reference Department:

Green Library fund.....	243
City fund.....	432
Circulation Department.....	3,232
Children's Department.....	4,344
	<u>8,251</u>

Increase of volumes by gifts:

Reference Department.....	846
Circulation Department.....	361
Children's Department.....	9
	<u>1,216</u>

Increase of volumes by binding periodicals:

Reference Department	530
Circulation Department	68
Children's Department	5
	<hr/>

603

Number of missing volumes restored since last report:

Reference Department	11
Circulation Department	42
Children's Department	49
	<hr/>

102

10,172**Number of volumes worn out or mutilated and withdrawn since last report:**

Reference Department	7
Green Library	9
Circulation Department	1,183
Children's Department	1,735
	<hr/>

2,934

Number of volumes sold, exchanged and given away:

Reference Department	167
Green Library	155
	<hr/>

322

Number of volumes missing since last report and not accounted for:

Reference Department	37
Green Library	11
Circulation Department	327
Children's Department	176
	<hr/>

550

Number of volumes regularly charged, but lost and paid for:

Reference Department	1
Circulation Department	22
Children's Department	74
	<hr/>

97

Number of volumes regularly charged, but lost and not paid for:

Reference Department	3
Circulation Department	133
Children's Department	124
	<hr/>

260

4,168**Net increase for the year**

6,009

Number of volumes in library as last reported:

Reference Department:	
Green Library fund	29,503
City fund	79,671

Circulation Department.....	87,318	
Children's Department.....	21,981	
		<hr/>
		218,473
Total number of volumes now in main library.....		<hr/>
Number of volumes transferred		224,482
From Circulation to Reference Department	39	
Total number of volumes now in library by departments:		
Reference Department:		
Green Library fund.....	29,571	
City fund.....	81,314	
Circulation Department.....	89,317	
Children's Department.....	24,280	
		<hr/>
		224,482
Increase of pamphlets, plates, maps, etc., by purchase:		
Reference Department:		
Green Library Fund.....	50	
City fund.....	411	
Increase of pamphlets, plates, maps, etc., by gifts:		
Reference Department.....	1,620	
Number of pamphlets restored since last report.....	2	
		<hr/>
		2,083
Number of pamphlets withdrawn*.....	207	
Number of pamphlets missing.....	33	
		<hr/>
		240
Net increase for the year.....		<hr/>
Number of pamphlets, plates, etc., in library as last reported.....	37,989	1,843
		<hr/>
Number of pamphlets, plates, etc., now in library....		39,782
Number of newspapers subscribed for (different titles)	81	
Number of newspapers given to the reading room....	28	
		<hr/>
		109
Number of magazines subscribed for (different titles)	340	
Number of magazines given to the reading room.....	120	
		<hr/>
		460
		<hr/>
		569

BRANCH LIBRARIES

Greendale

Number of volumes added by purchase and gift.		726
Number of volumes withdrawn.....	12	
Number of volumes not accounted for.....	8	
Number of volumes lost and paid for.....	1	
Number of volumes lost and not paid for.....	5	
		<hr/>
		26

*Replaced by later editions or bound volumes.

Net increase for the year	700
Number of volumes in library as last reported . . .	5,649
	<hr/>
Number of volumes now in library	6,349

Quinsigamond

Number of volumes added by purchase and gift	639
Number of volumes restored since last report	3
	<hr/>
	642
Number of volumes withdrawn	123
Number of volumes not accounted for	24
Number of volumes lost and paid for	1
Number of volumes lost and not paid for	8
	<hr/>
	156
	<hr/>
Net increase for the year	798
Number of volumes in library as last reported . . .	5,708
	<hr/>
Number of volumes now in library	6,501

South Worcester

Number of volumes added by purchase and gift	1,396
Number of missing volumes restored since last report . .	5
	<hr/>
	1,401
Number of volumes withdrawn	610
Number of volumes not accounted for	89
Number of volumes lost and paid for	12
Number of volumes lost and not paid for	18
	<hr/>
	729
	<hr/>
Net increase for the year	672
Number of volumes in library as last reported	6,048
	<hr/>
Number of volumes now in library	6,715
Total number of volumes in three branches	19,565

APPENDIX III

CIRCULATION

MAIN LIBRARY

Number of volumes delivered for home use	424,050
(Circulation department, 237,287; children's department, 181,494; reference department, 5269)	
Number of volumes delivered for reference use	98,962
Number of volumes delivered from children's department through deposit stations, 60,585; other agencies, 9,740	70,325
Number of volumes delivered from children's department to the schools	83,137

School count according to the recommendations of the American Library Association.....	48,250
Total number of volumes circulated from the children's department.....	264,631
Number of plates circulated from the children's department.....	7,519
Total home and school circulation.....	507,187
Average daily use (home and reference), Reference department, 342; circulation department, 770; children's department, 870.....	1,982
Largest daily use (home and reference), Reference department, January 13, 663. Circulation department, February 17, 1580. Children's department, March 10, 965.	
Smallest daily use (home and reference), Reference department, July 30, 76. Circulation department, April 19, 84. Children's department, February 5, 67.	
Number of notices sent to delinquents..... (Circulation department, 19,660; children's department, 5,226)	24,886
Number of volumes bound or rebound..... (Reference department, 1,576; circulation department, 3,603; children's department, 2,059)	7,243
Number of names registered during the year..... (Circulation department, 2,095; children's department, 2,095)	4,190
Number of accounts renewed..... (Circulation department, 3,104; children's department, 1,866)	4,970
Total number of active borrowers' cards..... (Circulation department, 15,905; children's department, 3,346)	24,251

Percentage of Circulation by Classes

Fiction.....	67.4
Biography.....	2.4
General works.....	2.5
Philosophy.....	1.8
Religion.....	1.4
Social and political science.....	2.7
Language.....	.6
Science.....	1.5
Useful arts.....	4.8
Fine arts.....	4.
Literature.....	4.8
History, geography, etc.....	6.1
	100.0

Statistics of the Catalogue Department

Books accessioned.....	12,331
Books catalogued (new titles for main library).....	2,051
Books catalogued (new titles for branch libraries).....	638
Duplicates catalogued (main library).....	5,444
Duplicates catalogued (branch libraries).....	1,244
Pamphlets catalogued (main library).....	390
New cards filed (main library).....	16,422
L. C. cards used (main library and branches).....	7,371
A. L. A. cards used.....	61

Statistics of the Art Rooms

Attendance:	
Exhibitions.....	2,222
Clubs.....	346
Individuals.....	444
	<hr/>
Use:	
Portfolios.....	130
Plates.....	13,679
Plates circulated.....	1,988

3,012

*General Sunday and Holiday Use**Sunday Use*

The reference room is open from 2 to 9 p. m.

The newspaper room is open from 1 to 9 p. m.

Number of persons using the reference room.....	10,344
Number of persons using the newspaper room.....	11,370
	<hr/>
Total number of persons.....	21,714
Average number of persons.....	417
Largest attendance, April 15.....	719
Smallest attendance, August 5.....	173
Number of volumes used for reference.....	6,195
Average number of volumes used.....	119

Holiday Use

The reference room is open from 9 a. m. to 9.30 p. m. except July 4.

The circulation department is open from 9 a. m. to 8 p. m., and from 8.30 p. m. to 9.00 a. m. for the return only of books, on Jan. 1, Feb. 22, April 19, and October 12.

The newspaper room is open from 8 a. m. to 9.30 p. m.

Number of persons using the reference room.....	1,599
Number of persons using the newspaper room.....	1,886
	<hr/>
Total number of persons.....	3,485
Average number of persons.....	387
Largest attendance, January 1.....	433
Smallest attendance, December 25.....	53
Number of volumes used for reference.....	1,678
Number of volumes delivered from circulation department:	
New Year's Day.....	278
Washington's Birthday.....	387
Patriot's Day.....	84
Columbus Day.....	165

GREENDALE BRANCH

Circulation of adult books.....	34,626
Circulation of children's books.....	24,210
Total circulation.....	58,836
Average circulation per day.....	193
Number of names registered.....	537
Total number of active borrowers' cards.....	1,976

QUINSIGAMOND BRANCH

Circulation of adult books	22,798
Circulation of children's books	27,810
Total circulation	50,608
Average circulation per day	165
Number of names registered	385
Total number of active borrowers' cards	1,988

SOUTH WORCESTER BRANCH

Circulation of adult books	85,288
Circulation of children's books	45,728
Total circulation	81,011
Average circulation per day	266
Number of names registered	912
Total number of active borrowers' cards	2,987

SUMMARY

Main Library and the Three Branches

Total circulation	748,170
Total number of active borrowers' cards	81,152

Appendix IV and V, giving statistics of library funds, are not printed this year for the sake of economy. The information usually contained in them will be furnished by the Library if desired.

 APPENDIX VI

PERIODICALS AND PAPERS ADDED DURING THE YEAR

Academy of political science, Proceedings	League of nations
American journal of school hygiene	Little journal
American school	McEvoy magazine
American teacher	Massachusetts Audubon society, Bulletin
Armenia	Official bulletin
Asia	Red Cross bulletin
Baltimore sun	Red Cross magazine
Bohemian review	Social service review
Business digest	Teachers monographs
Detroit free press	Tech news
Educational foundations	Theosophical quarterly
Factory	Touchstone
Good health	Trade conditions, Letter on
Intercollegiate community service quarterly	Trade winds
Investment weekly	U. S. Dept. of Agriculture, Weekly news letter

SIXTY-THIRD ANNUAL REPORT
OF THE
Commissioners
OF
Hope Cemetery
OF THE
CITY OF WORCESTER
FOR THE YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

COMMISSIONERS OF HOPE CEMETERY

FOR THE YEAR 1917

EDWARD M. WOOD	Term expires January, 1918
WILLIAM WOODWARD	“ “ “ 1919
H. SPENCER HASKELL	“ “ “ 1920
B. EDWIN GUY	“ “ “ 1921
JAMES E. ORR	“ “ “ 1922

ORGANIZATION FOR THE YEAR 1917

H. SPENCER HASKELL, *Chairman*
WILLIAM WOODWARD, *Secretary*
EDWARD M. WOOD, *Manager*
B. EDWIN GUY, *Assistant Manager*
JAMES E. ORR, *Auditor*
FREDERICK A. BARNES, *Superintendent of Grounds*

REPORT OF THE COMMISSIONERS OF HOPE CEMETERY FOR THE YEAR ENDING NOVEMBER 30, 1917

To the Honorable Pehr G. Holmes, Mayor, and the City Council of Worcester, Mass.:

The Commissioners of Hope Cemetery herewith submit their report for the year ending November 30, 1917.

During the year there have been eight hundred and ten burials. Sixteen services have been held in Curtis Chapel. Thirty-seven vaults have been constructed and one hundred and eighty-two foundations laid for monuments and headstones. Eighty-three markers have been set. Nine hundred and forty-nine lots not under perpetual care have been cared for at the expense of the owners. Thirty-nine old lots have been put under perpetual care during the year. Two hundred and fifteen graves of Civil War soldiers not previously provided for have been cared for during the year.

The advent of spring usually finds the grounds sadly in need of attention; the litter of winter must be removed, and the inroads of traffic over the avenues is usually very apparent. These conditions necessarily call for the labor of a considerable number of men for several weeks before more strictly decorative features can be given any consideration. The past year has been no exception in this particular. Automobiles are the direct occasion of new and serious problems affecting the permanent maintenance of the avenues. These are having the thoughtful consideration of the Commissioners as fast as they appear.

Not the usual amount of new work has been done this year owing to the shortage of help, the regular force for the most part being fully employed in the necessary upkeep of the grounds. Another year considerable grading will have to be done, and if the necessary help cannot be secured for this purpose it may be necessary to contract the work to some responsible party. The grounds are being extended from year to year, and there is an increasing demand for small lots which will have to be provided for. It may be necessary to employ more men during the winter months to do the grading required for single graves, especially during the coming year.

The curbing around the Ashworth and Jones lot which has been in place for many years has been reset, the work having been done by our regular force at a comparatively small expense.

About the usual number of cement walks have been built in different parts of the cemetery, and, in general, the grounds have been maintained to the satisfaction of the Commissioners and of the lot owners.

A feature of permanent value and of special significance to every one having pride in the cemetery and its appointments, which calls for special mention in this report, is the addition of the Memorial entrance gates near Curtis Chapel, the gift of the late Mrs. Solomon Nixon, who, by will, provided the fund for their erection. The design for this memorial was the production of The Gorham Company, of New York; the stone was furnished by The Norcross Company, of Worcester; the iron work was provided and installed by The Gorham Company, and the engineering department of the City of Worcester, under the supervision of Frederick A. McClure, was responsible for the details of construction. The gate is altogether a most creditable production artistically, and a fitting memorial to the generous donor no less than to her husband, in whose name the gift was made. A suitable bronze tablet has been placed as a permanent acknowledgment of the gratitude of the citizens of Worcester.

In order to more fully realize the purpose of the donor of the gates, owing to the increased cost of construction after the estimate was made upon which the amount of the gift was based, the legacy of \$4,500 was supplemented by an appropriation of \$1,700 by the City Council, the net cost of the structure being \$6,200.

Suitable shrubbery is to be placed around this memorial entrance, which, with new curbing from the gate to the chapel, and some additional cement walks, will serve to give this section of the cemetery a decidedly attractive setting. Electric lights will soon be installed over this entrance. It has been suggested that the name of the cemetery be placed over the main entrance, thus completing the necessary details of this most admirable acquisition.

There have been many creditable monuments erected during the year. Special mention may properly be made of those on lots owned by Daniel Harrington, J. Chester Pierce, Warren Alexander, Mary Adams, Walter J. Stone, Albert A. Gordon, Jr., and William Shumway.

Respectfully submitted,

H. SPENCER HASKELL,
WILLIAM WOODWARD,
EDWARD M. WOOD,
B. EDWIN GUY,
JAMES E. ORR,

Commissioners of Hope Cemetery.

SUPERINTENDENT'S REPORT
FOR THE YEAR ENDING NOVEMBER 30, 1917

RECEIPTS

Balances unexpended December 1, 1916.....	\$12,742.13
Received for:	
Care of lots.....	2,773.25
Digging graves, grading, etc.....	7,117.85
Labor and team work.....	637.38
Sale of pork.....	202.97
Sale of wood.....	39.10
Miscellaneous.....	541.12
Sale of lots.....	12,277.00
Interest on deposits.....	4,088.75
Dividend on Perpetual Care Fund.....	4,191.63
Nixon Memorial Fund.....	4,500.00
	\$49,110.68

EXPENDITURES

Salaries and wages.....	\$21,693.66
Blacksmith, harness and repairs.....	371.25
Brick, lime, cement and pipe.....	593.55
Curbing, foundations, etc.....	37.55
Electric light.....	18.36
Fertilizer, loam, gravel, etc.....	548.80
Fuel.....	265.19
Hardware and tools.....	503.43
Hay and grain.....	704.32
Lots.....	533.00
Repairs buildings.....	686.78
Team work.....	65.0
Trees, plants, shrubs, etc.....	882.00
Water rates.....	98.00
Miscellaneous.....	1,137.41
Appropriation available November 30, 1917.....	21,030.88
	\$49,110.68

VALUATION OF PROPERTY AT HOPE CEMETERY

NOVEMBER 30, 1917

Lumber and wood.....	\$20.00
35 Tons of hay.....	700.00
6 Tons of straw.....	150.00
25 Bushels of oats.....	20.75
7 Horses.....	1,275.00
15 Harnesses.....	275.00
1 Tedder.....	25.00
18 Horse blankets.....	30.00
1 Watering cart.....	75.00
6 Wagons.....	175.00
6 Single carts.....	180.00
2 Sleighs.....	30.00
3 Sleds.....	20.00

1	Roller	50.00
1	Mowing machine	20.00
1	Hay rake	30.00
	Manure and muck	125.00
6	Shoats	160.00
4,000	Brick	48.00
75	Vault covers	200.00
	Furniture in office	462.00
	Stone and cement	30.00
6	Grindstones	18.00
	Shears, grass hooks and whetstones	10.00
13	Iron-toothed rakes	6.00
29	Wood rakes	7.25
9	Snow shovels	7.00
35	Iron shovels	30.00
8	Spades	4.00
	Blocks and ropes	25.00
200	Ft. of hose	20.00
1	Box barrow	1.00
16	Dump barrows	17.00
16	Hoes	3.50
3	Lap robes	15.00
3	Screens	6.00
2	Cross-cut saws	4.00
	Paint, oil and varnish	10.00
	Nails and spikes	7.00
	Chains and drills	6.00
	Levels and trowels	11.00
	Iron bars and stone hammers	10.00
	Jacks and wedges	8.00
1	Stone boat	2.00
23	Grub hoes and handles	15.00
1	Pair steelyards	10.00
37	Picks and handles	12.00
1	Horse roller	40.00
3	Axes, 2 ploughs	12.50
1	Lowering device	65.00
3	Lawn mowers	75.00
1	Cultivator	5.00
20	Grave rakes	14.00
2	Hedge trimmers	1.25
	Ladders and ash cans	11.00
	Hay caps	60.00
	Rods, hooks and wrenches	3.00
20	Baskets	15.00
2	Hay knives	3.00
1	Hose reel	3.00
	Hotbed windows	5.00
	Canvas	15.00
	Grave plank	12.00
15	Vault planks	15.00
1	Brick machine and plates	100.00
2	Manhole shovels	1.75
	Scythe and snaths	12.00
	Watering pots and pails	5.40
2	Copper boilers	5.00
1	Barrel weed killer	30.00
	Brooms and mallets	5.00

2	Water tanks	15.00
30	Forks	14.30
1	Harrow	8.00
4	Rubber coats	12.00
2	Pairs rubber boots	4.00
1,100	Bound stakes	33.00
	Curry combs and brushes	5.00
1	Hand roller	5.00
2	Cement barrows	3.00
2	Catch-basin shovels	3.00
	Carpenter's tools	15.00
	Grave straps and canvas	15.00
15	Vault planks	15.00
8	Sets grave plank	21.00
1	Step ladder	3.00
3	Pruning shears	3.00
3	Moth pruning shears	3.00
10	Uniform suits	20.00

\$5,079.70

OFFICE OF THE CITY TREASURER.
Worcester, Mass., December 13, 1917.

To the Commissioners of Hope Cemetery:

Gentlemen:—As Treasurer, ex-officio, of Sundry Funds in charge of your board, the undersigned presents the following statement covering all receipts and payments during the financial year ending November 30, 1917, together with the balance on hand.

Balances November 29, 1916, viz:—

Savings Bank Deposits, Reserve Fund	\$2,500.00
Savings Bank Deposits, ch. 113, R. L.	50,790.00
Savings Bank Deposits, ch. 78, R. L.	52,583.75
Merchants Nat'l Bank Deposit	1,169.45
Sundry Mortgage Bonds	89,446.80
Cash on Deposit	13,452.05

\$209,942.05

Receipts during the year, viz:—

Proceeds from the sale of 273 lots	\$12,352.00
Temporary care of lots	2,558.25
Digging graves, etc.	7,117.35
Labor and team work	636.38
Perpetual care of lots under ch. 78, R. L.	8,925.00
Dividends on Savings Bank Deposits, general account	100.00
Dividends on Savings Bank Deposits, special account	4,143.67
Interest on deposit, Merchants Nat'l Bank	17.96
Interest on sundry bonds	3,943.75
Sale of merchandise and miscellaneous	784.19
Care of Graves, ch. 122, Acts 1914 (Soldiers' Ben.)	215.00
Received from Mary H. Nixon Estate	4,500.00

\$45,293.55

\$255,235.60

Payments during the year, viz:—

Sundry bills.....	\$27,472.96	
Refund on lots transferred to City.....	533.00	28,005.96
	<hr/>	<hr/>
		\$227,229.64

The above balance is made up as follows:

Savings Bank Deposits, Reserve Fund.....	\$2,500.00
Savings Bank Deposits, ch. 113, R. L.....	50,790.00
Savings Bank Deposits, ch. 78, R. L.....	52,583.75
Merchants Nat'l Bank Deposit.....	2,421.95
Sundry Mortgage Bonds.....	97,119.30
Cash in City Treasury to credit of Hope Cemetery Account.....	21,814.64
	<hr/>
	\$227,229.64

Respectfully submitted,
H. C. SMITH,
Treasurer.

REPORT OF THE LICENSE COMMISSIONERS

WORCESTER, MASS., Jan. 12, 1918.

To the Honorable City Council of the City of Worcester:—

The License Commissioners respectfully submit the following report for the year ending November 30, 1917.

The total number of liquor licenses of the first five classes in effect at any one time was limited by the Commissioners to 145, the same as for several years past. The number issued was 146, one additional license having been granted after the revocation of a license. These licenses were issued by classes as follows:—

First class innholders	15
First class common victuallers	89
Fourth class	40
Fifth class	2
	146

Licenses of the sixth and seventh classes and special club licenses were granted in the following numbers:

Sixth class	52
Seventh class	4
Special club	10

Four first class common victuallers' liquor licenses, five fourth class licenses and one fifth class license were surrendered and cancelled during the year, and one first class common victuallers liquor license was terminated by the death of the licensee. In their places eleven (11) new licenses of corresponding classes were issued, the license fee in each case being equal to the amount refunded. One sixth class license was surrendered and cancelled, two were terminated by the death of the licensees, and one terminated by the retirement from business of the manager holding the license for a corporation.

In addition to the liquor licenses, the Commissioners issued licenses as follows, the fee in each case being \$5.00:

Innholders	24
Common victuallers	265
Coffee houses	24
	313

One first class innholders liquor license was declared forfeited, two first class common victuallers liquor licenses were suspended for two days each, and one fourth class license was suspended for one week, for violations of the terms of the licenses. One common victuallers license and three coffee-house licenses were revoked.

The net receipts and expenditures on our account have been as follows, no account being made of fees paid and later refunded:

RECEIPTS	
<i>Liquor License Fees</i>	
15 First class innholders at \$2,250	\$33,750 .00
89 First class common victuallers at \$1,500	133,500 .00
40 Fourth class at \$2,000	80,000 .00
2 Fifth class at \$3,500	7,000 .00
52 Sixth class at \$1	52 .00
4 Seventh class at \$1	4 .00
10 Special club at \$500	5,000 .00
	\$259,306 .00
<i>Other Revenue</i>	
Recording fees	\$225 .00
Advertising fees	708 .00
Food licenses	1,520 .00
	\$2,453 .00
Total receipts	\$261,759 .00
EXPENDITURES	
Elmer C. Potter, chairman, salary	\$900 .00
E. Walter Smith, salary	550 .00
H. Oscar Rocheleau, salary	550 .00
Alice G. Degnan, clerk, salary	150 .00
Advertising	618 .00
Auto hire and car tickets	23 .00
Printing, stationery and postage	105 .17
City directory	4 .00
	\$2,900 .17
One-fourth liquor license fees to Commonwealth ...	64,826 .50
	\$67,726 .67
Total income	\$261,759 .00
Total outgo	\$67,726 .67
Net revenue	\$194,032 .33

Respectfully submitted,

ELMER C. POTTER,
E. WALTER SMITH,
H. OSCAR ROCHELEAU,
License Commissioners.

ANNUAL REPORT
OF THE
Street Lighting Department
AND
Supervisor of Wires
FOR THE YEAR ENDING NOV. 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF STREET LIGHTING DEPARTMENT

To the Honorable City Council of the City of Worcester:

The report of the Superintendent of Lighting Streets for the year ending November 30, 1917, is herewith presented.

The general business situation, and conditions which have obtained during the period covered by this report, have somewhat retarded the systematic development of our lighting service. The committee on lighting streets considered it inadvisable to report any additional luminous arcs, and the financial condition of the city rendered any considerable addition of small lights in the outskirts of the city impossible. So far as we have endeavored to *light* the streets, they are extremely well cared for, and, in a large part of the city, the need to-day is for a standardization of the existing service rather than a considerable enlargement of it.

In view of the difficulty of procuring coal, it may become necessary to reduce, temporarily, the number of lights in service. If it should become necessary, the reduction will be made in the territory most thinly inhabited and on the streets least used as thoroughfares. We are advised by the Electric Light Company that, for the present at least, they will not be obliged to ask for a reduction in the number of street lamps, but plans are being made for a just and reasonable reduction should any reduction in the service become necessary.

In the matter of the proper lighting of Franklin Street bridge under the Boston and Albany, and New York, New Haven and Hartford Railroads, the secretary of the Chamber of Commerce, under date of October 31st, wrote complaining of "the lack of illumination" under this bridge. He was advised, under date of November 2nd, as to the conditions which obtain on Franklin Street at this point and the difficulty of switching this particular group of lamps on or off in advance of the schedule time. It was suggested that painting the walls and lower flooring of the bridge with white paint would afford temporary relief. The facts in this matter are, that the bridge is served with 4-600 watt arcs and is thoroughly lighted during the schedule hours, but it can well happen that on a dark, cloudy after-

noon before lighting time, or on a stormy morning after the lamps are turned out there may be, for an hour or so, some just cause for complaint. This matter has been carefully considered, and the only practical method of obviating the difficulty alluded to seems to be in running a separate circuit, for the use of the lamps under this bridge, to be controlled from the new substation of the Electric Light Company on Grafton Street, as a change in the present method of lighting the bridge would cost about four thousand dollars, while the change above noted can be made for practically one fourth of that amount, and would be more easily handled from Grafton Street than from Chase Court. The matter will receive prompt attention as soon as the substation referred to is finished.

All the additional street lights ordered by the City Council during the year 1917 are in commission, with the exception of those under the order of October 25th, existing conditions as to labor and materials rendering it impossible to install the lamps authorized by this order at the present writing. It is hoped and expected that these additional lamps will be put in commission not later than April 1, 1918. The recommendations made in the report of this department for the year 1916 for the extension of the luminous arc service are respectfully renewed, and the magnetite arcs to be displaced under the above plan located in accordance with the suggestions of the 1916 report.

The total street service of the city amounts to 4,838 lamps, 590-520 watt luminous arcs, 1,121-400 watt magnetite arcs, 2,217-100 candle and 291-80 candle tungstens, 592 single upright and 27 double inverted Welsbach gas lamps.

The total cost of the street lighting service for the year 1917 amounts to \$192,213.56 as shown in the following table:

RESOURCES

Balance from 1916	\$7,705.52
Appropriations	184,000.00
Revenue per table	1,161.11

\$192,866.63

EXPENDITURES

Salary of superintendent	\$1,600.00
Clerical service	373.75
Arc lights, Worcester Electric Light Co.	82,707.97
Luminous arc lights, Worcester Electric Light Co. .	42,839.46
Tungsten lights, Worcester Electric Light Co.	48,104.20

Lighting subways	368.90
Gas lights, Welsbach Street Lighting Co.	14,577.31
Gas lights, street construction	409.67
Gas lights, street repairs	2.05
Care of fire alarm signals	147.79
Desk and office supplies	48.46
Trucking and express charges	27.78
Hacking, horsehire and car fares	54.75
Telephone rental and tolls .....	.70
Removing dead posts	56.14
Entertainment of committee and guests	46.28
Printing and advertising	5.95
Relocating street arcs and tungstens	446.66
Trimming trees	395.74
Balance	653.07
	<hr/>
	\$192,866.63

The revenue of the department for the year amounts to \$1,161.11, as below:

Private lights cared for, including parks	\$1,013.32
Care of fire alarm signals	147.79
	<hr/>
	\$1,161.11

MAGNETITE ARCS

Forty additions to and twenty-three discontinuances of the arc service have been made during the year as shown in the following lists:

ADDITIONS

Grove Street, west side front No. 207	Dec. 1, 1916
Wilson and Tripoli Streets	Dec. 2, 1916
Grafton Street, north side front No. 335	Dec. 6, 1916
Grafton Street, south side front No. 324	Dec. 6, 1916
Grafton Street, west of Barclay Street, southeast cor. alley ..	Dec. 6, 1916
Chandler Street, cor. West Wellington Terrace	Dec. 6, 1916
Lincoln Street, west side 7' north trolley pole 12-20	Dec. 7, 1916
Webster Square, east side Webster Street, south line No. 7 ..	Dec. 9, 1916
Webster Square, west side Main Street, front Coes residence ..	Dec. 9, 1916
Grafton Square, northeast cor. Orient and Hamilton Streets ..	Dec. 9, 1916
Grafton Square, northeast cor. Grafton Street	Dec. 13, 1916
Albany Street, south side opp. west line No. 4	Dec. 16, 1916
Main Street, west side opp. Hammond Street	Dec. 20, 1916
Hamilton Street, northeast cor. Ingleside Avenue	Dec. 23, 1916
Providence and Doane Streets	Jan. 17, 1917
Fairview Terrace, south side opp. Leeds Street	Feb. 27, 1917
Main and Curtis Streets, front No. 1095 Main Street	May 3, 1917
Chandler Street, west of Park Avenue	June 23, 1917
Dewey Street, east side opp. West Oberlin Street	June 23, 1917
Lake Avenue, north of Belmont Street	July 1, 1917
Lake Avenue, north of Belmont Street	July 1, 1917
Lake Avenue, north of Belmont Street	July 1, 1917
Lake Avenue, north of Belmont Street	July 1, 1917
Haviland and Highland Streets, northwest corner	July 2, 1917

Hamilton Street, northwest corner Pilgrim Avenue.....	July 10, 1917
Chandler Street, south side west house line No. 324.....	July 10, 1917
Chandler Street, 20' west of pole 32.....	July 11, 1917
Chandler Street, southeast cor. Walworth Street.....	July 11, 1917
Ingleside Avenue, northwest cor. Cohasset Street.....	July 13, 1917
Ingleside Avenue, west side opp. Village Street.....	July 13, 1917
Howland Terrace, west side opp. Nevada Street.....	Aug. 16, 1917
Maywood Street, south side east lot line No. 131.....	Aug. 16, 1917
Park Avenue, east side opp. drive bet. Nos. 80 and 82.....	Aug. 18, 1917
Woodford and Holcombe Streets, southeast corner.....	Sept. 7, 1917
Endicott Street, north side opp. Perry Avenue.....	Oct. 20, 1917
Greendale Avenue, southwest cor. Leeds Street.....	Oct. 20, 1917
Shrewsbury and Hunt Streets, southwest corner.....	Oct. 22, 1917
Brunswick Street, southeast cor. Ames Street.....	Oct. 22, 1917
Chandler and Ruth Streets, southwest corner.....	Nov. 3, 1917
Franklin Street, north side opp. No. 202.....	Nov. 6, 1917

DISCONTINUANCES

Green and Winter Streets.....	Dec. 2, 1916
Grafton and Temple Streets.....	Dec. 2, 1916
Franklin Street opp. Parker Court.....	Dec. 7, 1916
Shrewsbury Street and Cullen Court.....	Dec. 7, 1916
Franklin Street opp. Harding Street.....	Dec. 7, 1916
Shrewsbury Street opp. Brackett Court.....	Dec. 7, 1916
Shrewsbury Street and East Worcester Street.....	Dec. 7, 1916
Summer Street opp. Thomas Street.....	Dec. 9, 1916
Oxford and Chandler Streets.....	Dec. 9, 1916
Main and Jackson Streets.....	Dec. 9, 1916
Summer and Market Streets.....	Jan. 3, 1917
Grafton Street at engine house.....	Jan. 5, 1917
Green and Pond Streets.....	Jan. 5, 1917
Green and Spruce Streets.....	Jan. 5, 1917
Vernon Square west.....	Jan. 5, 1917
Providence and Winter Streets.....	Jan. 5, 1917
Green and Harding Streets.....	Jan. 5, 1917
Franklin and Vine Streets.....	Jan. 5, 1917
Green Street opp. Temple Street.....	Jan. 22, 1917
Lake Avenue north of Belmont Street (four lights).....	Oct. 9, 1917

These lamps are burned in two classes, the contract price of which is \$70.00 for overhead and \$77.00 for underground construction. All lamps of this type are burned 4,000 hours per year. The contract under which this service is rendered is for ten years from November 1st, 1915.

The maintenance cost of this branch of the service for the year 1917 amounts to \$84,104.86, as per the following table:

MAINTENANCE COST OF MAGNETITE ARCS, 1917

Electric Light Company's bill.....	\$82,707.97
Desk supplies.....	21.24
Committee expenses.....	20.36
Hacking.....	24.09
Telephone.....	.05
Relocating arc lights.....	285.96
Printing.....	2.62

Trimming trees.....	174.13
Salary and clerk hire.....	868.44

\$84,104.86

LUMINOUS ARCS

The luminous arc service has proven an extremely valuable asset to Worcester, not only in properly lighting the busy part of the city but in turning and directing the tide of foot travel through different streets and thereby enlarging our mercantile territory. The question of finance should be the only consideration in extending this service each year, along the lines already laid out, to ultimately cover the entire present and inevitable business section of Worcester. The growth of Worcester's business must, from the geographical construction of the town, be easterly and south-easterly, and it would seem to be good business policy to be well in advance of the procession in this matter.

The entire luminous arc service is supplied from underground construction and is divided into two classes—287 burned 4,000 hours and 303 burned 2500 hours per lamp year, the locations being so arranged that, while the entire number is in commission until 1 A. M., something over half of the total is cut off at that hour.

The following table shows the location of the lamps of this type added during the year.

Grafton Street, west side front No. 48.....	Dec. 1, 1916
Grafton Street, west side between Nos. 77 and 79.....	Dec. 1, 1916
Grafton Street, east side north cor. Keese Street.....	Dec. 1, 1916
Grafton Street, south side east of engine house.....	Dec. 1, 1916
Grafton Street, west side, between Nos. 2 and 4, Providence Street.....	Dec. 1, 1916
Grafton Street, west side, south cor. Winter Street.....	Dec. 1, 1916
Green Street, north cor. Winter Street.....	Dec. 2, 1916
Franklin Street, north side opp. Parker Court.....	Dec. 5, 1916
Franklin Street, north side opp. Milk Street.....	Dec. 5, 1916
Franklin Street, southwest cor. Harding Street.....	Dec. 7, 1916
Shrewsbury Street cor. Cullen Court.....	Dec. 7, 1916
Shrewsbury Street cor. Mulberry Street.....	Dec. 7, 1916
Grafton Street, east side between Nos. 57 and 59.....	Dec. 9, 1916
Shrewsbury Street, south side drive to No. 10 East Worcester..	Dec. 9, 1916
Chandler Street, south side west lot line No. 56.....	Dec. 9, 1916
Main Street, east side cor. Jackson Street.....	Dec. 9, 1916
Summer Street, east side, north cor. Prospect Street.....	Dec. 28, 1916
Green Street, northeast cor. Millbury Street.....	Dec. 29, 1916
Summer Street, cor. Market Street.....	Jan. 3, 1917
Summer Street, west side front No. 3.....	Jan. 3, 1917
Summer Street, west side between Nos. 215 and 217.....	Jan. 5, 1917
High Street, south lot line church.....	Jan. 5, 1917
Main Street, east side opp. alley to No. 743.....	Jan. 5, 1917
Franklin Street, north side cor. Vine Street.....	Jan. 8, 1917

Green Street, opp. Temple Street.....	Jan. 8, 1917
Green Street, cor. Temple Street.....	Jan. 23, 1917
Franklin Street bridge (three lights).....	Jan. 23, 1917

The maintenance cost of this service amounts to \$48,735.31, as per the following table:

MAINTENANCE COST OF LUMINOUS ARCS, 1917

Electric Light Company's bill.....	\$48,104.20
Desk supplies.....	11.94
Hacking.....	13.70
Committee expenses.....	11.57
Trimming trees.....	98.93
Printing.....	1.49
Salary and clerk hire.....	493.48

\$48,735.31

TUNGSTEN LIGHTS

The tungsten service consists of 2,217-100 and 291-80 candle lamps and is used almost entirely on the thoroughfares leading to the city and located beyond the point where extreme lighting is necessary, in the residence districts and short streets where but little light is needed for the safety of those using the streets.

The contract price for these lamps is \$16.32 for 80 candle overhead, \$21.00 for 80 candle underground, \$17.00 for 100 candle overhead and \$21.70 for 100 candle underground construction. The entire number is burned 4000 hours per year. The additions and discontinuances made during the period covered by this report are contained in the following table.

ADDITIONS

Plantation Street.....	10	Lincoln Street.....	3
Cargill and Strathmore Roads..	1	Rupert Street.....	1
Kemberma Road.....	1	Fairfax Road.....	1
Salford Street.....	1	Forest Street.....	3
Coburn Avenue.....	2	Touraine Street.....	1
Webster Place.....	1	Rankin Street.....	2
Marland Road.....	5	Fairview Terrace.....	1
Jeppson Avenue.....	3	Taft Street.....	1
Devens Road.....	3	Pilgrim Avenue.....	1
Forsberg Street.....	2	Dewey Street.....	2
Bourne Street.....	3	Nottingham Road.....	2
Spurr Street.....	2	Mill Street.....	2
Grafton Street.....	9	Cohasset Street.....	3
Laurel Street.....	1	Mendon Street.....	1
Warner Avenue.....	6	Ingleside Avenue.....	1
Rosemont Road.....	1	Keach Avenue.....	1
Sigel Street.....	2	Pine Hill Road.....	2
Rhodes Road.....	3	Fulton Street.....	2
Tampa Street.....	3	Eastham Street.....	2
Ruthven Avenue.....	2	Norfolk Street.....	3
Providence Street.....	4	Military Road.....	4

Woodford Road.....	2	Steele Street.....	1
Indian Hill Road.....	17	Weelahka Place.....	2
Nashoba Place.....	2	Poniken Road.....	5
Hockanum Way.....	3	Satucket Way.....	3
New Bond Street.....	2	Harding Street.....	3
Buckingham Road.....	3	Grafton Place.....	1
Olean Street.....	8	Hartshorn Avenue.....	1
Quinapoxet Lane.....	4	Brooks Street.....	1
Doris Street.....	1	Park Villa Avenue.....	1
Greendale Avenue.....	1	Proctor Street.....	4
Huntington Avenue.....	1	Scrimgeour Road.....	1
Wyola Drive.....	4	Andover Street.....	2

DISCONTINUANCES

Providence and Doane Streets..	1	Franklin Street.....	6
Leeds Street.....	2	Butler Street.....	1
Ingleside Avenue.....	1	Greendale Avenue and Leeds	
Brunswick Street.....	1	Street.....	1
Proctor Street.....	1	Ames Street.....	1

Added, 177; Discontinued, 15; net addition, 162.

This branch of the lighting service cost \$43,606.44 during the year 1917, as noted below.

MAINTENANCE COST OF TUNGSTEN LIGHTS, 1917

Electric Light Company's bill.....	\$42,839.46
Desk supplies.....	11.92
Printing.....	1.43
Hacking.....	13.14
Committee expenses.....	11.11
Relocating tungstens.....	160.70
Trimming trees.....	94.98
Salary and clerk hire.....	473.70

\$43,606.44

GAS WELSBACHS

But little change has been made in the number or location of the gas Welsbachs used in this city, the principal one being the installation of a few additional double inverted lamps. The location of these lamps is confined almost entirely to the residence districts and on streets where electricity is not available because of foliage and other conditions. The changes in location, additions and discontinuances are given below:

ADDITIONS

Gertrude Avenue.....	Dec. 4, 1916
Boynton Street, east side front No. 8.....	May 11, 1917
Boynton Street, east side front No. 3.....	May 11, 1917
Lancaster Street, east side front No. 43.....	May 11, 1917
Hermon Street, south side front No. 15.....	May 11, 1917
Hermon Street, south side front No. 33.....	May 11, 1917
Hermon Street, south side front No. 38.....	May 11, 1917

May Street, north side opp. No. 1.....	Oct. 1, 1917
May Street, south side bet. Nos. 27 and 29.....	Oct. 1, 1917
May Street, north side, west of No. 36.....	Oct. 1, 1917
Beacon Street, west side north lot line No. 177.....	Oct. 1, 1917
Harvard Street, east side near entrance to No. 2.....	Oct. 1, 1917
Haviland Street, east side south lot line No. 12.....	Oct. 2, 1917
Winslow Street, west side north lot line No. 4.....	Oct. 2, 1917
Temple Street, front No. 13.....	Nov. 19, 1917
Temple Street, front No. 23.....	Nov. 19, 1917
Temple Street, front No. 82.....	Nov. 19, 1917
Temple Street, cor. Taylor Court.....	Nov. 19, 1917
Crown Street, front No. 19.....	Nov. 19, 1917
Crown Street, near Austin Street.....	Nov. 21, 1917
Providence Street, east side front No. 31.....	Nov. 27, 1917
Davis Street, south side front No. 2.....	Nov. 27, 1917
Davis Street, south side between Nos. 4 and 6.....	Nov. 27, 1917

DISCONTINUANCES

High Street, east side at church.....	Dec. 5, 1916
Arch Street, near Summer Street.....	June 6, 1917
Dewey Street, east side opp. No. 100.....	July 2, 1917
Dewey Street, east side opp. No. 96.....	July 2, 1917
Haviland Street, east side near Highland Street.....	July 2, 1917
Endicott Street, opp. Perry Avenue.....	Oct. 23, 1917

These lamps are contracted for with the Welsbach Street Lighting Company of America who pay for the gas used and maintain the lamps in proper condition, the city installing and owning the posts and riser pipes. The contract for these lamps has a considerable time yet to run and it is curious that, under the selling scale recently adopted by the Worcester Gas Light Company, our net cost under the contract is smaller than at the old figures.

The maintenance cost of this branch of the service for the year under consideration amounts to \$14,784.45 as shown in the following table.

MAINTENANCE COST OF WELSBACH GAS LIGHTS, 1917

Welsbach Company's bill.....	\$14,577.31
Desk supplies.....	3.36
Hacking.....	3.82
Committee expenses.....	3.24
Printing.....	.41
Trimming trees.....	27.70
Telephone.....	.65
Street repairs.....	2.05
Freight.....	27.78
Salary and clerk hire.....	138.13

\$14,784.45

The number of tungstens used in lighting the subways under the southern railroads remains the same, the maintenance cost being \$368.90 for the year. The expense of

lighting and caring for the fire alarm signals is paid this department by the fire department and amounts to \$147.79 for the year 1917.

It has been necessary to remove a considerable number of dead posts during the year, the cost of which amounts to \$56.14, and the street construction and relocation of gas Welsbachs, for which the city is liable under our contract, cost \$409.67 for the period covered by this report.

The installation of lights in the parks and playgrounds maintained by this department and paid for by the Parks Commission remains as last year,—three magnetite arcs, sixteen tungstens and one gas Welsbach, and cost \$524.80 for the year.

The following table shows the maintenance cost of the different classes of lamps in service, the number of nights and average hours per night burned, and the cost of one lamp and total cost of each type of lamp for the year. This cost is made by adding to the contract price the proper proportion of overhead charges and such classified items of expense as are chargeable to the different classes of lamps in use.

RECAPITULATION

	Average Number	Nights Burned	Hours per Night	Cost One Light per Year	Total Cost per Year
Arcs.....	1,108	365	10.95	\$75.9069	\$84,104.86
Luminous arcs.....	581	365	10.95	83.8815	48,785.31
Tungstens (street service)	2,401	365	10.95	18.1617	43,606.44
Tungstens (subways)....	17	365	10.95	21.70	368.90
Gas Welsbachs.....	605	365	10.95	24.4371	14,784.45

The following pages contain the necessary inventory of city property in our charge.

Respectfully submitted,

HENRY A. KNIGHT,
Supt. Lighting Streets.

INVENTORY OF CITY PROPERTY USED BY THE STREET LIGHTING DEPARTMENT

16,235 square feet of land including cost of grading and spur track to date.....	\$3,137.15
Buildings, tanks and fixtures.....	2,324.64

\$5,461.79

LAMP FIXTURES IN STREETS

619 gas posts for Welsbach lights, @ \$10.00.....	\$6,190.00
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LAMP FIXTURES AT SHOP

20 gas posts.....@	\$10.00	\$200.00
80 gas lanterns.....	2.00	60.00
50 gas globes with reflectors.....	2.50	125.00
12 lantern frames.....	.90	10.80
12 reflectors.....	.10	1.20
125 chestnut posts.....	1.00	125.00
85 frames for gasolene lanterns.....	.40	34.00
70 tanks for gasolene lanterns.....	.50	35.00
40 gasolene burners.....	.35	14.00
30 old gasolene lanterns with tank and burner.....	2.00	60.00

\$665.00

TOOLS AT SHOP

Alcohol tank (60 gallons).....	\$10.00
Alcohol tank (10 gallons).....	1.50
Gasolene tank (10 gallons).....	1.50
Gasolene tank (5 gallons).....	1.00
Gasolene stove and fixtures.....	3.00
Brass kettle.....	1.00
Grindstone.....	2.00
2 tunnels.....	1.00
2 measures.....	4.00
Soldering furnace and tools.....	8.00
Bolt cutter.....	4.00
Measuring tape.....	3.75
Small tools, ladder, etc.....	10.00
Testing instruments.....	200.00
Wrench, screw driver, saw and hammer.....	5.00

\$255.75

RECAPITULATION

Land and buildings.....	\$5,461.79
Lamp fixtures in streets.....	6,190.00
Lamp fixtures at shop.....	665.00
Tools at shop.....	255.75

\$12,572.54

SUPERVISOR OF WIRES

To the Honorable City Council of the City of Worcester:—

The report of the Supervisor of Wires for the year ending November 30, 1917, is herewith presented.

The general system of inspection in Worcester, adopted at the organization of the department, has been continued in force during this year. Our work begins upon notice from the different contractors and is finished when the installation is entirely complete and ready for service, safe for the owner and user, and in accordance with the requirements of the National Code and special regulations of this department.

It would greatly simplify the work, and increase the usefulness of the department, if the legislation referred to in our report of 1916, requiring contractors to obtain a permit before beginning work, and that all plans and specifications for new or additional construction be examined and approved by this department before the contracts were let, were enacted. Such an addition to the ordinance would prevent frequent disputes as to proper construction, correct errors, often made by inexperienced contractors, lessen the final cost of installation in many instances, and generally protect the owner in very many ways.

The matter of collecting fees for inspection is simply a plain business proposition and would, without entailing any financial hardship whatever, not only simplify the work of inspection, reduce the number of unnecessary trips, but put the department very nearly on a self-supporting basis. Your attention is called to this matter and consideration of the proposed addition to the ordinance respectfully requested.

During the fiscal year 1917, 2512 original notices of new or additional work have been sent to this department, have received prompt attention, and permits for their use have been sent to the Electric Light Company, or to the owners if it were an isolated plant.

The total number of permits issued during the year is 3,098, something over 500 of them being final inspections on installations where the rough work had been previously approved but no fixtures installed. The year's experience with automobiles for our inspectors has proven the wisdom

of the change, as the cost to the city per permit issued has been reduced about 33 cents below the average cost for the preceding eight years.

During the period covered by this report 138 reinspections covering the following range of premises have been made.

38 stores	5 shops	1 theatre
4 factories	44 residences	1 bathhouse
1 bootblack	4 signs	1 printing office
2 restaurants	7 offices	1 club
3 tailor shops	1 mission	2 stables
1 church	1 school	1 police station
1 studio	5 blocks	
1 coal yard	5 garages	
1 bowling alley	2 barber shops	
5 halls in blocks	1 poolroom	

The installations, new and old, for which permits have been issued, and the different premises appear below.

11 bakeries	164 garages	10 printing offices
5 banks	1 gymnasium	2 pumping stations
17 barber shops	10 halls	1 purification works
1 barracks	104 halls in blocks	1 railroad station
3 bathhouses	1 hennery	1 recruiting station
3 blacksmith shops	7 hospitals	1,801 residences and tenement houses
85 blocks	4 hotels	
2 bottling works	3 icehouses	11 restaurants
4 bowling alleys	5 laundries	3 salesrooms
1 car	9 lunch carts	6 saloons
27 churches	3 massage parlors	20 schools
9 clubs	1 merry-go-round	3 shoe shine parlors
9 coal yards	4 mills	110 shops
21 cobbling shops	3 mission houses	61 signs
1 college	1 monument works	34 stables
3 convents	1 museum	1 stone crusher
5 creameries	68 offices	20 storehouses
1 dyehouse	4 oil stations	355 stores
11 elevators	1 orphanage	4 studios
123 factories	2 parks	18 tailor shops
1 fairgrounds	1 playground	5 tents
7 fire stations	1 playhouse	3 theatres
7 foundries	2 police stations	1 toboggan slide
1 freight house	8 pool rooms	1 wood yard
1 funeral parlor	1 post office	1 zoo

These different installations contemplate the use of electrical energy as below:

76,410 tungsten lamps averaging 40 watts per lamp
13 arc lamps
873 power motors with a total of 3,957¼ horse power
4 rectifiers with a total of 110 amperes
10 heaters
1,231 plugs for flatirons, vacuum cleaners, etc.
5 ranges
31 fans
14 transformers
1-50 ampere charging set

1-25 watt pump
 3 welding machines
 1- $\frac{1}{4}$ horsepower washing machine
 2-7 $\frac{1}{2}$ ampere Cooper-Hewitt lamps
 3 X-ray machines

The outside inspections made during the year have disclosed but comparatively few defects in construction, due very largely to the fact that all companies using outside lines in Worcester are burying their wires as rapidly as possible. The Worcester Electric Light Company has taken down forty miles of wire and six hundred poles, and the New England Telephone and Telegraph Company one hundred miles of wire and seventy-five poles during the period covered by this report.

The expenses of the department for the year 1917 amount to \$4,728.28, as per the following table.

RESOURCES	
Balance from 1916	\$.02
Appropriations	4,730.00
	\$4,730.02
EXPENDITURES	
Salary of supervisor	\$800.00
Clerical service	484.25
Horsehire and carfares	58.63
Desk supplies	131.91
Telephone rental and tolls	9.45
Printing and advertising	41.35
Freight and express charges .....	.27
Traveling expenses	54.62
Electrical supplies .....	.40
Labor, inspection and removal of dead wires	2,118.00
Typewriter supplies and repairs	62.83
Automobile maintenance	932.14
Automobile, additional fixtures	27.08
Instruments, tools and hardware	3.75
Removal dead wires, labor	1.35
Removal dead wires, trucking	2.25
Balance	1.74
	\$4,730.02

The expenses of the Wire Commission for the year amount to \$40.29 for advertising and preparing plans of the prescribed district for 1917. The territory prescribed by this commission begins at the northerly side of Franklin Street at a point formed by the extension of the easterly line of Lyon Street, thence easterly on the northerly line of Franklin Street and the southerly side of Bloomingdale Road to the two mile circle, thence northerly on the two mile circle to

the northerly line of Belmont Street, thence westerly on the northerly line of Belmont Street to a point opposite the westerly line of East Park, thence by the westerly line of East Park and the easterly line of Lyon Street extended to the point of beginning.

The city property in charge of this department amounts to \$997.00 as per the following table.

Testing instruments	\$75.00	
Ladders, climbing irons and small tools	10.00	
Typewriter	100.00	
Badges, gauges, etc.	12.00	
Automobiles	800.00	
		<u>\$997.00</u>

No additional underground locations have been granted by the wire commission during the year, owing to the fact that the territory prescribed had been largely covered by advance locations granted in previous years and the financial condition of the different companies interested.

Respectfully submitted,

HENRY A. KNIGHT,
Supervisor of Wires.

ANNUAL REPORT

OF THE

Board of Overseers of the Poor

OF THE

CITY OF WORCESTER

YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS

WORCESTER, MASS.

1918

**BOARD OF OVERSEERS OF THE POOR
1916-1917**

GEORGE F. BROOKS, *Chairman.*

PHILIP H. DUPREY,	FRANK E. MURRAY,
WILHELM FORSBERG,	CHRISTIAN NELSON,
CHARLES S. HOLDEN,	MICHAEL J. O'HARA,
ALBERT I. JOHNSON,	WINFRED H. WHITING.

**CLERK OF THE BOARD.
GERHARD BECKER.**

**SUPERINTENDENT OF THE HOME FARM.
THOMAS HORNE.**

**MATRON OF THE HOME FARM.
GEORGIA D. HORNE.**

**CITY PHYSICIAN.
HUGO O. PETERSON, M.D.**

REPORT OF THE OVERSEERS OF THE POOR

To His Honor the Mayor and the Honorable City Council:

Gentlemen: In compliance with the City Ordinances the Overseers of the Poor herewith respectfully submit their annual report for the fiscal year closing November 30, 1917.

In reviewing the work carried on by this board during the past year it is hoped that facts may be brought out that may be of interest to the citizens of our city and others.

The work of the department is ever increasing in scope and importance. While the number of families receiving relief from the office of the Overseers of the Poor does not always grow from one year to another, yet, during recent years expenses seem to be increasing from year to year due to one cause or another, but chiefly due to the fact that deeper social interest is being taken in each family assisted, which naturally results in a clearer conception of conditions as they really are, and our eyes are made to behold the necessity for the provision of more adequate relief than ever before in the history of public Out-Door Relief.

The number of families aided during 1917 was less than the year preceding, but expenses were slightly more. The increased cost of commodities was largely responsible for the added expense.

In order to properly care for the needs of the poor, it is essential that conditions in each family be studied and treated individually, and the amount of aid determined on the merits of the case, as no two cases are exactly alike; consequently no specified amount can be decided upon in advance for certain classes of cases.

Most of the distress in families to which our attention is called is occasioned by the death of the father, but of course that is, in many instances, only the immediate cause, the primary cause being something else—as for instance intemperance or some other vice.

PLACING OF CHILDREN

Owing to failure of support by parents, who may have become deceased or having deserted, it quite frequently

happens that we are obliged to assume the burden of caring for children. In such instances, if there is no settlement, the youngsters are committed to the State Board of Charity as neglected or dependent children, and subsequently are placed out either in some institution or private homes. However, if settlement appears to be Worcester, the children are as a rule placed with respectable families to be boarded by the city at a weekly rate agreed upon. Dependent children who are mentally or physically deficient are committed to the one most suitable of the various private or state institutions and expense charged to place of settlement. The law forbids keeping children at the almshouse who are over two years of age, or, should the mother also be an inmate of the institution, not over three years of age. Children are therefore kept at Home Farm only temporarily. At the present time we have numerous children for which board is being paid for in families.

GROCERIES AND RENT

In taking account of the present conditions it is to be noticed that practically everything has advanced in cost and especially so with food-stuffs and rents. So although there is a marked business revival, it does not appear to be of sufficient degree to offset the increased cost of commodities. Never, perhaps, in the history of this country has there been such a state of affairs in the market of food-stuffs as exists at the present time. Eatables have increased more than 200% since the beginning of the war in many instances, and rents have been advanced 20% or more in many localities, with the probability that further increases are forthcoming.

The groceries delivered to the needy families are furnished by two or three grocers whose prices are found to be the lowest among the dealers submitting bids each month and this arrangement is found to meet with satisfaction by both the board and the recipients of aid. During the past year, food supplies to the aggregate of \$20,668.48 have been given.

Attention is called to the following table which illustrates the increases for a period of fifteen months and were we to cite prices further back in the past we would find a more noticeable difference.

Articles	Sept. 1916	Dec. 1916	March 1917	June 1917	Sept. 1917	Dec. 1917
24½ lbs. Flour,	\$1.20	\$1.40	\$1.40	\$1.95	\$1.75	\$1.75
1 lb. Sugar,	.08	.08½	.08½	.10	.09½	.10
1 lb. Coffee,	.20	.20	.20	.22	.22	.22
¼ lb. Tea,	.08	.08	.08	.10	.10	.10
1 lb. Salt Pork,	.15	.17	.20	.25	.25	.32
1 lb. Lard,	.17	.22	.22	.28	.28	.30
1 qt. Molasses,	.09	.12	.12	.15	.15	.15
1 lb. Crackers,	.09	.11	.12	.15	.14	.16
1 pkg. Codfish,	.10	.15	.15	.20	.20	.20
1 bag Coke,	.08	.10	.10	.12	.10	.14
1 lb. Macaroni,	.08	.10	.10	.10	.10	.13
1 lb. Indian Meal,	.02	.04	.04	.07	.07	.06
1 lb. Rolled Oats,	.04	.05	.05	.07	.06	.06
1 Bar Soap,	.04	.05	.05	.05	.06	.06
1 gal. Kerosene,	.11	.12	.14	.14	.14	.14
1 can Condensed Milk,	.10	.12	.13	.15	.16	.16
1 lb. Rice,	.08	.08	.08	.07	.10	.10
1 doz. Eggs,	.33	.38	.40	.43	.45	.46
1 lb. Prunes,	.05	.10	.08	.15	.12	.15
1 qt. Onions,	.06	.10	.15	.10	.05	.07
1 qt. Dry Peas,	.12	.15	.18	.18	.17	.18
1 can Tomatoes,	.10	.12	.13	.15	.15	.17
1 lb. Bacon,	.20	.22	.22	.35	.35	.48
Peck Potatoes,	.40	.55	.85	.45	.35	.48
1 qt. Beans,	.20	.28	.34	.40	.34	.35
1 lb. Butter,	.35	.42	.42	.44	.45	.48
	\$4.52	\$5.51½	\$6.03½	\$6.82	\$6.40½	\$6.97

These figures show prices on December 1, 1917, to be about 54% greater than on September 1, 1916.

FUEL AND CLOTHING

It has been customary each year for the department to have coal delivered to the poor in one quarter ton lots by some dealer under contract, but owing to the gravity of the coal situation, dealers refused to submit bids last summer for delivery of coal. The coal is therefore bought this winter in the open market at a price fairly reasonable; although there has been a scarcity of coal, no difficulty is being experienced in having our orders filled promptly. Wood is furnished in numerous cases to the amount of \$1.00 and it is found that about 25% less wood is obtainable this year at the price. Coal and wood to the amount of \$4,347.27 have been given.

An increased number of orders has been drawn on various stores for clothing furnished. In many instances we are able to obtain from persons interested in doing good, cast-off clothing of good wearing quality; \$1,303.54 has been expended for clothing.

HOUSING

The housing problem is becoming more and more serious, inasmuch as building operations are not by far keeping pace with the increasing population of the city. The great scarcity of vacant tenements has forced numerous families to share their tenements with others.

The city is at present experiencing a rapid growth in its population, due largely to the prosperity of its varied industries which are busy, directly or indirectly, working on war orders. The water census taken the past summer credited the city with having over 187,000 inhabitants.

There has been a notable influx of families from surrounding states, especially from Vermont and New Hampshire, and among these families are included many who arrive without any means to start a home, and they consequently resort to so-called light housekeeping by renting furnished rooms at a fairly high rental. It is surprising to note the vast number of families living in this manner, occupying from one to three rooms poorly furnished and paying from \$2.00 to \$6.00 per week which makes an exorbitant rent considering the accommodations. Apparently very few of these people are able to accumulate enough money with which to start housekeeping in the more convenient and economical way, that of occupying a tenement with their own furniture. If building operations continue at the present low mark, the time may come in Worcester when all of the leading industrial concerns will have to face the necessity of providing housing facilities for their employees.

CONFERENCES

The clerk of the board was delegated to attend the National Conference of Charities and Correction (now National Conference of Social Work), which convened in Pittsburg, Pa., June 6-13, 1917.

This conference exists to facilitate discussion of the problems and methods of practical human improvement, to increase the efficiency of agencies and institutions devoted to this cause, and to disseminate information. The conference consists of seven permanent divisions devoted to the following subjects: Children; Delinquents and Correction; Health; Public Agencies and Institutions; The Family; Industrial and Economical Problems and The Local Community.

More than 4,000 delegates from all sections of the United States and also Canada were in attendance upon the Pittsburg Conference. The getting together with all these repre-

representatives of the various private and public agencies to discuss social problems is a source of much inspiration and help in ministering to the needs of our fellow beings who cannot solve their own problems.

The social problems of the war constituted the subject of what was probably the most significant series of discussions. Other topics to which much attention was given were: Mothers' Pensions; Social Insurance; Public Health; Community Problems and Prison Work.

The Massachusetts State Conference was held in New Bedford, October 24th to 26th, 1917, at which this department was represented by two of its clerks.

A conference of representative men from leading communities of the country was called by United States Food Administrator Herbert C. Hoover, which took place in Chicago, October 7, 1917, for the purpose of considering garbage utilization with a view to arriving at the most satisfactory and economical solution of this much agitated problem in order to benefit the food conservation of our nation.

As Worcester is one of the few cities which has been successfully converting its garbage into pork and the main purpose of the meeting being to consider to what extent feeding of garbage to hogs could be made practical for cities now wasting the garbage, it was especially desirable that Worcester be represented, and the Overseers of the Poor therefore delegated Overseer Charles S. Holden and Superintendent of Home Farm Thomas Horne to attend the deliberations.

Superintendent Horne having had much experience in the line of garbage disposal was called upon to give an account of the Worcester system of handling this matter. The conference was very favorably impressed by the report given relative to the methods used in Worcester, and it was agreed upon that the plan of feeding garbage to hogs was the one which should be in vogue in all communities in order to conserve the food supply, besides considerably reducing the expense of garbage disposal.

The United States Food Commission consequently urges every town and city of from 10,000 to 200,000 population to adopt the Worcester method of garbage disposal—namely, that of feeding to swine.

CHAPTER 188, ACTS OF 1916

Under this act the Overseers of the Poor are authorized to grant temporary licenses to organizations to sell certain articles such as flags, badges, medals, buttons, etc., for charitable purposes. The board has issued six such licenses this year.

MOTHERS' AID

The number of women being aided under Chapter 763, Acts of 1913, the so-called "Mothers' Aid Law," has been less during 1917 than the year 1916 although the amount of aid given has been slightly greater, which was made necessary because of the increased living expenditures.

On November 30, 1917, 130 women were receiving Mothers' Aid as against 136 on the same date the year previous. The amount of money spent in providing for these families was \$39,756.85 as against \$37,581.53 the preceding year. The cash amounts have ranged from \$2.00 to \$12.00 per week, the average weekly allowance being \$5.95 on November 30, 1917, as against \$5.34 a year ago. In addition to cash we have in many cases given coal and in some cases clothing during the winter months.

The Mothers' Aid cases continue to receive close attention and careful treatment at the hands of our visitor who devotes a great deal of time and study to this work. On the whole there appears to be a spirit of co-operation between the visitor and the mothers receiving this relief. The manner in which the Mothers' Aid work is being carried on in Worcester is favorably commented upon by the supervising officials of the State Board of Charity and the most harmonious relations exist between this department and the office of the State Board.

The following table shows the comparative number of cases aided and the amounts given during the years since the Mothers' Aid Act became operative.

	No. Aided	Amount Paid	Active Cases Nov. 30	Cash Weekly Amount Nov. 30	Weekly Amount per Family Nov. 30
1913	21	\$828.33	21		
1914	51	12,383.51	43	\$222.50	\$5.17
1915	119	21,281.34	115	565.50	4.92
1916	171	37,581.53	136	726.00	5.34
1917	162	39,756.85	130*	774.50	5.95

*Of these cases, there are 107 widows, 11 whose husbands have deserted, 4 with dependent husbands, 4 whose husbands are in the State Insane Hospital, 1 whose husband is in Lakeville Sanitarium, and 1 whose husband is in jail—1 is divorced and 1 unmarried.

There are 380 children under 14 years of age and 67 children over 14 years of age.

Cash given out in Mothers' Aid by months, showing an increase of about 8% during the past twelve months.

1916	December	\$2,929.00	
1917	January	3,709.00	5 weeks in month
	February	2,995.00	
	March	2,921.00	
	April	2,937.00	
	May	3,726.00	5 weeks in month
	June	2,951.00	
	July	2,950.00	
	August	3,759.00	5 weeks in month
	September	3,035.00	
	October	3,890.00	5 weeks in month
	November	3,078.00	

Total, \$38,880.00

AMOUNT GIVEN OUT IN DOLE AT THE CLERK'S OFFICE
DURING THE YEAR

(INCLUDING MOTHERS' AID)

Months	Number of orders drawn	Amount drawn by persons having legal settlement in Worcester	Amount drawn by persons having legal settlement in other cities and towns	Amount drawn by persons having no known settlement	Totals
December, 1916.	1,054	\$4,306.64	\$289.90	\$1,065.41	\$5,661.95
January, 1917...	1,191	5,465.99	293.60	1,254.31	7,013.90
February.....	1,077	4,471.33	239.29	1,062.71	5,773.33
March.....	1,119	4,613.41	197.85	1,140.69	5,951.95
April.....	961	4,174.23	122.51	1,240.41	5,537.15
May.....	952	4,833.63	184.39	1,321.12	6,344.14
June.....	832	4,111.64	160.71	1,204.10	5,476.45
July.....	780	3,772.57	196.03	1,061.09	5,029.69
August.....	864	4,971.89	171.36	1,396.65	6,539.90
September.....	839	4,339.26	188.51	1,309.99	5,837.76
October.....	997	5,303.80	259.35	1,545.85	7,109.00
November.....	966	4,563.13	183.03	1,285.90	6,032.11
Totals.....	11,632	\$54,932.57	\$2,486.53	\$14,888.23	\$72,307.33

COMPARATIVE REPORT SHOWING AMOUNTS GIVEN OUT IN
DOLE DURING THE SPECIFIED YEARS

(INCLUDING MOTHERS' AID)

	NO. ORDERS	AMOUNTS
1890	1854	\$ 4,835.08
1895	2808	\$ 5,043.69
1900	2581	\$ 5,021.63
1905	2062	\$ 4,566.89
1910	3087	\$ 6,724.67
1911	4130	\$ 8,145.76
1912	4870	\$10,083.22
1913	5502	\$12,766.43
1914	12773	\$39,397.79
1915	17354	\$58,201.67
1916	11745	\$63,237.51
1917	11632	\$72,307.33

CITY RELIEF DEPARTMENT

MONTHS.	Fuel.	Groceries.	Shoes and Clothing.	Medicine.	Cash Allowances.	Burials.	Transportation of Paupers.	Paid to other towns for Worcester Paupers.	State Institutions.	Office Supplies and Printing.	Charcoal.	Miscellaneous. Auto Tr. of Agents Tel. Tolls	TOTALS.
December, 1916.....	\$426.33	\$1,581.14	\$98.97	\$6.25	\$9,232.50	\$40.00	\$21.81	\$219.00	\$353.57	\$14.71	\$276.29	\$102.86	\$6,717.00
January, 1917.....	1,110.00	1,465.74	102.87	6.75	4,187.54	60.00	25.17	1,012.32	87.24	29.77	478.24	23.86	7,594.58
February.....	515.88	1,689.85	86.82	7.25	3,323.50	110.00	6.35	1,012.32	0.00	51.71	415.09	353.83	7,591.63
March.....	592.64	1,816.31	154.87	6.10	3,354.00	148.00	19.11	178.86	507.48	15.55	415.09	21.52	7,169.36
April.....	267.04	1,602.24	127.51	6.76	3,467.75	65.00	30.82	295.49	42.60	51.71	415.09	77.31	6,369.22
May.....	223.82	1,773.16	112.89	4.70	4,182.65	50.00	43.46	268.00	22.80	117.53	478.24	73.16	7,146.03
June.....	13.75	1,777.51	87.82	8.58	3,415.74	160.00	41.81	148.75	453.68	28.74	415.09	264.14	6,805.06
July.....	11.00	1,746.78	40.25	0.00	3,485.90	100.00	15.01	365.47	98.60	10.87	415.09	85.85	6,319.07
August.....	27.00	2,070.18	31.49	9.44	4,297.75	80.00	8.11	517.48	6.00	8.52	478.24	119.35	7,653.20
September.....	32.00	1,861.88	219.38	0.00	3,595.50	123.00	13.96	0.00	30.72	9.52	401.09	102.55	6,389.61
October.....	863.06	1,391.38	120.32	18.00	4,615.75	90.00	10.89	128.74	0.00	12.99	478.24	127.76	7,387.05
November.....	349.90	1,684.00	121.77	13.52	3,782.50	0.00	5.77	666.93	421.58	101.89	415.41	239.97	7,752.72
Totals.....	\$4,347.27	\$20,565.48	\$1,303.54	\$87.35	\$44,832.08	\$1,036.00	\$234.77	\$3,668.74	\$1,978.65	\$450.78	\$5,180.19	\$1,581.65	\$85,344.50

COMPARATIVE REPORT SHOWING AMOUNTS GIVEN FOR TEMPORARY RELIEF, EXCLUSIVE OF MOTHERS' AID

YEAR ENDING NOVEMBER 30

	December	January	February	March	April	May	June	July	August	Septem'r	October	Novem'r	Totals
1907	\$329.99	\$317.12	\$322.44	\$270.29	\$221.10	\$296.48	\$178.64	\$201.23	\$ 268.65	\$237.31	\$230.33	\$447.09	\$9,315.62
1908	555.43	807.61	1,019.60	1,267.19	1,033.07	809.77	731.95	763.32	566.64	577.88	538.26	811.10	9,431.82
1909	934.71	1,012.70	947.98	1,174.33	778.57	609.21	487.65	497.23	483.57	443.15	478.67	543.13	8,335.90
1910	613.49	744.56	674.42	668.43	392.49	434.51	412.88	530.66	543.97	562.60	528.26	623.41	6,724.67
1911	816.15	875.56	968.34	933.21	449.23	553.90	526.31	532.71	544.19	533.95	563.72	743.09	8,145.76
1912	828.49	1,353.91	1,359.30	1,345.30	795.35	660.63	463.44	536.33	541.82	626.90	733.21	784.44	10,033.23
1913	960.60	1,128.33	1,071.33	1,020.33	552.87	765.34	759.29	713.22	779.38	932.17	1,268.33	1,614.96	11,933.10
1914	2,294.51	3,048.79	3,345.51	3,423.87	1,533.95	1,367.41	1,497.34	1,740.46	1,717.46	1,771.46	2,332.99	2,926.71	27,060.50
1915	4,443.34	4,627.62	5,242.04	5,171.42	3,912.41	2,100.92	2,131.75	2,257.11	1,899.79	1,890.43	2,236.44	2,153.07	37,164.35
1916	2,523.31	3,014.21	3,021.42	3,101.73	2,191.45	1,876.98	1,890.26	1,672.27	1,680.93	1,778.87	1,944.30	2,332.31	26,973.59
1917	2,629.79	3,193.63	2,686.05	2,924.43	2,532.56	2,526.63	2,484.52	2,077.69	2,739.14	2,742.26	3,165.63	2,866.35	32,550.43

SUMMARY

There was expended during the fiscal year of 1917 for City Relief, \$87,827.83 and for Home Farm, \$124,538.56, a total of \$212,366.39. The reimbursements were \$27,771.47 for City Relief and \$71,952.26 for Home Farm, a total of \$99,723.73, making the net expenditures for pauper support \$112,642.66.

For temporary aid to the outdoor poor there was expended \$72,307.33 as against \$63,237.51 for the previous year. Of this amount \$54,932.57 was for persons legally settled in Worcester; the balance, \$17,374.76, was expended for persons settled in other cities and towns of the state and for state paupers. There were issued for this dole 11,632 orders, as against 11,745 orders in 1916. The number of families was 714, comprising 2,592 persons—418 families, comprising 1,703 persons, have legal settlements in Worcester; 46 families, comprising 162 persons, have settlements in other cities and towns; and 250 families, comprising 727 persons, are state paupers—162 families, comprising 750 persons, have been aided under Chapter 763, Acts of 1913.

The whole number having a legal settlement in this city who received full support for the whole or part of the year, and this comprises those in the City Almshouse, State Infirmary, and State Farm, was 253, of whom 170 were males and 83 females. Six boys and 4 girls were supported in the Massachusetts Hospital School at Canton. One boy was supported at the Hospital Cottages at Baldwinsville. Seventy-five persons were furnished transportation to the State Infirmary at Tewksbury. We paid the board of 4 children to the State Minor Wards Department, State Board of Charity, and paid board of 33 children in private families.

In providing for this temporary aid at the office of the Clerk of the Board, there was expended:—

Fuel	\$4,347.27
Groceries	20,668.48
Shoes and clothing	1,303.54
Medicines	87.35
Burials	1,026.00
Transportation of Paupers	234.77
State Institution bills	1,973.65
Cash allowances	5,952.08
Cash allowances, Mothers' Aid	38,880.00
Aid to Worcester poor in other towns	3,658.74
Postage, printing and office supplies	450.78
Clerical help	5,180.19
Traveling expenses and miscellaneous	1,581.65
Total	\$85,344.50

The salary of the City Physician and that of the Clerk of the Board are also charged to the expense of the City Relief Department, and have been as follows:—

City Physician	\$700.00
Clerk of the Board.....	1,783.33
Disbursements.....	85,344.50
Total expenditures.....	\$87,827.83

The resources have been as follows:—

Appropriation by the City Council.....	\$58,000.00
Reimbursements from State and other cities, towns and individuals.....	27,771.47
Unexpended balance November 30, 1916.....	3,546.18
Total receipts.....	\$89,317.65
Total expenditures.....	87,827.83
Unexpended balance November 30, 1917.....	\$1,489.82
Estimated expenses for City Relief for 1918.....	\$100,060.00
Estimated receipts.....	19,000.00
Estimated net expense.....	\$81,060.00
Less unexpended balance, November 30, 1917...	1,489.82
Estimated appropriation for 1918.....	\$79,570.18



**CORN CUTTING MACHINE IN OPERATION
AT THE HOME FARM**

HOME FARM

The whole program carried out at the farm is being extended from year to year and this past year has been one of very greatly increased activities.

In order to meet the shortage in food stuffs and following the advice heralded from Washington, steps were taken to increase the yield of vegetables. In the month of March the board voted to lease for one year the so-called Roberts Farm, a property contiguous to Home Farm, comprising 220 acres, and this increased the acreage to 596 acres; making it the largest acreage of any town or city almshouse property in the state. One hundred and twenty-five acres were tilled and grass was grown on 150 acres.

As will be observed by the list of products raised, success attended the cultivation of the crops.

Extra help had to be employed in growing the additional products of the soil and among this additional help was a group of boy scouts who assisted commendably in caring for the gardens.

A very important and useful piece of machinery purchased during the year was a tractor which cost \$3,822.00. Other equipment, as will be seen by the list of improvements given, was also bought.

The chief products of the farm were pork, eggs, poultry, milk, potatoes, cabbage, hay, corn, celery, mangels and squash. The potatoes amounted to 2,250 bushels.

The superintendent was authorized to purchase additional cows in order to supply the City Hospital and Belmont Hospital with whatever milk was needed by these institutions, which amounts to 510 quarts for City Hospital and 170 quarts for Belmont Hospital daily, and this is being carried out. Forty-four cows were purchased, bringing the number of cattle on the farm up to 94 head.

The construction of a new modern dairy barn is contemplated in the near future so as to afford better housing facilities for the cattle as well as to expedite the handling of the milk industry. In the meantime the undertaking is being run in a clean and sanitary manner with the cows housed in several places. We are using modern equipment, such as a clarifier, pasteurizer, separator and milking machine.

The poultry industry continues to thrive under scientific management and the usage of up-to-date methods in conducting it. A substantial revenue is realized from this venture which reduces the net expense of the almshouse materially. The poultry, numbering about 4,900, are

housed in three large modern houses 60 x 60 feet and 16 brooder houses. Each large house is capable of accommodating 1,200 Leghorns or 1,000 Rhode Island Reds. The several hospitals are supplied with fresh poultry and eggs daily. About \$16,000 is invested in this enterprise.

The number of inmates on November 30, 1917, was 149 and the average number at the end of each month was 158, which is less than for some years past.

Without danger of contradiction we dare state that the Worcester Home Farm, as it stands to-day, is on a par with any similar institution throughout the United States.

IMPROVEMENTS AT THE WORCESTER HOME FARM

Pasteurizer, clarifier and motor.....	\$1,224.80
Cream separator.....	135.00
Milking machine.....	435.00
New milk cans.....	381.00
44 new cows.....	5,500.00
Tractor.....	3,822.00
Tractor plow.....	225.00
Tractor harrow.....	210.00
Syracuse plow.....	70.00
Potato planter.....	90.00
Potato digger.....	120.00
Potato sprayer.....	66.00
Two-horse cultivator.....	75.00
Corn harvester.....	150.00
Manure spreader.....	135.00
Engine and saw-rig.....	388.00
Adding machine.....	100.00
Digging and laying new water pipe.....	500.00
Fruit trees.....	100.00
New cement foundation under scavenger barn.....	900.00
Additional poultry houses.....	2,400.00
Vim auto truck.....	400.00
Jacketed kettle.....	200.00
Arco boiler for cottage.....	74.00

\$17,050.80

SCAVENGER DEPARTMENT

90 colony houses.....	\$2,000.00
1 new wagon.....	375.00
Ford truck.....	870.00

\$2,245.00

SCHEDULE OF CITY PROPERTY IN CHARGE OF OVERSEERS OF THE POOR

HOME FARM DEPARTMENT	PERSONAL
POULTRY DEPARTMENT	
Poultry.....	\$6,170.00
CATTLE DEPARTMENT	
80 cows at \$100.00 each.....	\$8,000.00
2 bulls at \$75.00 each.....	150.00

2 steers	70.00	
10 heifers at \$32.00 each	320.00	
		<u>\$8,540.00</u>
DAIRY EQUIPMENT		
Pasteurizer	\$300.00	
Clarifier	300.00	
Motor	129.80	
Cream separator	135.00	
Milking machine	435.00	
250 milk cans	431.00	
Mixer	18.00	
		<u>\$2,248.80</u>
HORSE ACCOUNT		
16 horses	\$3,200.00	
Dumpcarts, harnesses, wagons, sleds, etc.	2,000.00	
		<u>\$5,200.00</u>
HOUSE		
Groceries and provisions	\$1,500.00	
Boots, shoes and clothing	300.00	
Medical supplies	200.00	
Soap and disinfectants	300.00	
Furniture	6,000.00	
Office furniture	500.00	
		<u>\$8,800.00</u>
Trucks and tractor	\$5,356.00	
Farm machinery	2,500.00	
Farm produce on hand	7,000.00	
		<u>\$45,814.80</u>
HOUSE OFFAL DEPARTMENT		PERSONAL
White truck	\$2,000.00	
One ton Ford truck	600.00	
44 horses	6,600.00	
2096 swine	31,440.00	
20 wagons	2,500.00	
20 sleds	800.00	
20 sets harness	800.00	
100 colony houses	2,500.00	
Pails, cans and other equipment	100.00	
		<u>\$47,340.00</u>
REAL ESTATE		
LAND		
96 acres cleared land		
75 acres wood land		
25 acres Bond meadow		
138 acres Heywood farm		
42 acres Cobb lot		
		<u>376 acres at \$200.00 per acre</u>
		\$75,200.00
BUILDINGS		
Almshouse building and additions therewith, including boiler house and all permanent fixtures and apparatus therein	\$89,856.00	
Horse and cow barns with connecting sheds	21,500.00	
Piggeries	15,000.00	

*Hen houses.....	10,000.00
Lumber shed.....	100.00
Hose house.....	400.00
Frame wheel house.....	500.00
Ice house.....	500.00
Celery and cabbage house.....	200.00
Cement house.....	200.00
Cement coal pocket.....	400.00
Cottage.....	1,500.00
Barn.....	1,000.00
	<hr/>
	141,156.00
	<hr/>
	\$309,510.80
*No. 61 hen house.....	\$3,500.00
No. 62 hen house.....	2,000.00
No. 63 hen house.....	2,000.00
Brooder house.....	500.00
No. 2 Brooder house.....	500.00
Ten 10 x 10 colony houses.....	1,000.00
One 14 x 14 colony house.....	200.00
Small hen houses.....	300.00
	<hr/>
	\$10,000.00

HOME FARM DEPARTMENT

Months.	Total expenditures.	Total receipts.	Net expense.	Receipts above expenditures.
December, 1916...	\$7,644.57	\$4,624.94	\$3,019.63	
January, 1917.....	7,733.74	4,283.90	3,449.84	
February.....	8,159.32	3,916.84	4,242.48	
March.....	6,470.40	5,448.67	1,021.73	
April.....	8,264.50	4,212.47	4,052.03	
May.....	10,557.68	4,356.51	6,201.17	
June.....	15,921.13	4,374.98	11,546.15	
July.....	9,594.27	4,455.73	5,138.54	
August.....	9,291.89	5,599.12	3,692.77	
September.....	8,569.38	3,606.14	4,963.24	
October.....	15,743.36	10,283.37	5,459.99	
November.....	16,588.32	16,789.59		\$201.27
Totals.....	\$124,538.56	\$71,952.26	\$52,787.57 201.27	\$201.27
			\$52,586.30	

There was expended during the year for repairs and improvements \$17,050.80.

The resources have been:—

Appropriation by the City Council.....	\$55,000.00
Farm receipts.....	71,952.26
Balance unexpended November 30, 1916.....	8.10
Total receipts.....	\$126,960.36
Total expenditures.....	124,538.56
Balance unexpended November 30, 1917.....	\$2,421.80
Estimated expenditures for Home Farm in 1918.....	128,900.00
Estimated receipts.....	70,000.00
Estimated net expense.....	58,900.00
Less unexpended balance November 30, 1917.....	2,421.80
Estimated appropriation for 1918.....	\$56,478.20
Whole number in the Almshouse during the year.....	254

Number admitted during the year.....	81
Number discharged during the year.....	74
Number of deaths during the year.....	19
Number remaining in almshouse November 30, 1917.....	149
(93 males and 56 females)	
Average number.....	158
Average weekly cost.....	\$4.42

FARM PRODUCTS 1917

Asparagus.....	22 bushels	Pumpkins.....	500 pounds
Beans (string).....	25½ bushels	Radishes.....	5 bushels
Beans (shell).....	7 bushels	Rhubarb.....	1¾ tons
Beets.....	32¼ tons	Spinach.....	94 bushels
Carrots.....	24¾ tons	Squash (summer).....	14 bushels
Cabbage.....	101¾ tons	Squash (winter).....	34¼ tons
Cauliflower.....	87 dozen	Tomatoes.....	67 bushels
Celery.....	6,072 plants	Turnips.....	17¾ tons
Corn (sweet).....	422 dozen	Swiss chard.....	82 bushels
Corn (ensilage).....	235 tons	Hay (meadow).....	15 tons
Cucumbers.....	35 bushels	Hay (timothy).....	250 tons
Lettuce.....	189 doz. heads	Honey.....	77 pounds
Mangels.....	100 tons	Rye straw.....	15 tons
Oat straw.....	17½ tons	Raspberries.....	9 quarts
Onions.....	412 bushels	Strawberries.....	431 quarts
Onions (scallions).....	928 bunches	Blackberries.....	197 quarts
Parsnips.....	15½ tons	Butter.....	1,000½ pounds
Parsley.....	500 plants	Eggs.....	7,628¾ dozen
Peas.....	213 bushels	Milk.....	137,224 quarts
Potatoes.....	2,200 bushels	Wood.....	117¾ cords

HOUSE OFFAL DEPARTMENT

The service of this department has been largely extended during the past year because territory covered by many private collectors has been taken over by the department with the idea in mind of eventually eliminating all private collections. Although the area gone over is much greater, the added expense incurred is only slight, due to the increased sales of pork made possible by larger quantities of garbage being collected and fed to the swine. Twenty double horse teams are in service daily, making two collections a week in each section of the city. The garbage collected amounts to about twenty-five tons daily.

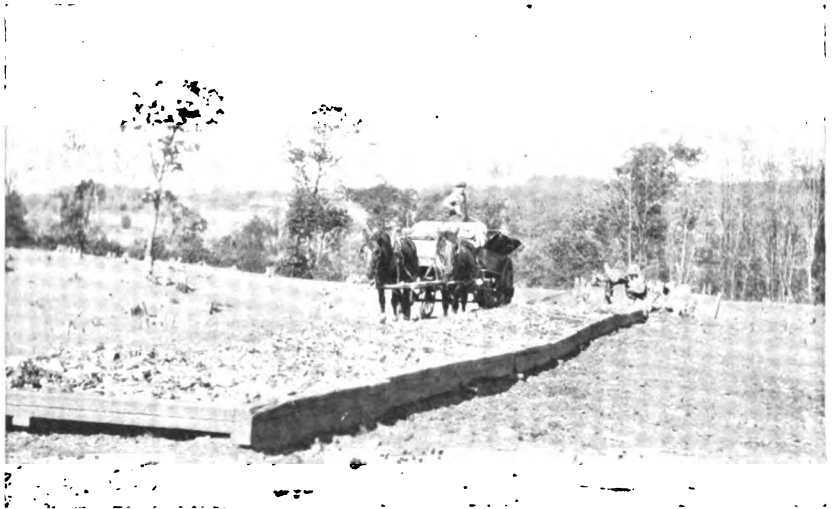
The net expense of this department has been \$38,632.04 or about \$1 per family, which is admittedly a very nominal cost in taking care of house offal.

A serious fire which occurred September 23, 1917, resulted in the destruction of one large piggery building valued at \$5650, and the burning to death of 435 pigs valued at \$4350, entailing a total loss of \$10,000 of which \$5,114.36 was covered by insurance.



HOGS
FEEDING
ON
GARBAGE

DUMPING
GARBAGE
ONTO
FEEDING
PLATFORMS



HOGS
FEEDING
ON
GARBAGE

As will be noted under the heading of conferences, the Worcester method of garbage disposal meets the approval of the National Food Commission and therefore the Overseers of the Poor are encouraged to continue along the present lines of handling this matter and endeavors will be made by the Superintendent and Board to further improve the system.

HOUSE OFFAL DEPARTMENT

Months.	Total Expenditures.	Total Receipts.	Net Expense.	Receipts above Expenditures.
December, 1916...	\$5,287.84	\$1,905.65	\$3,381.69	
January, 1917.....	4,853.55	1,752.21	3,101.34	
February.....	4,628.24	857.75	3,770.49	
March.....	6,571.29	5,824.54	746.75	
April.....	5,841.07	2,485.13	3,405.94	
May.....	5,782.75	2,185.73	3,597.02	
June.....	5,538.85	2,900.82	2,638.03	
July.....	6,262.26	536.75	5,725.51	
August.....	6,443.88	5,590.97	852.91	
September.....	5,568.65	267.00	5,301.65	
October.....	12,798.18	11,865.15	1,432.98	
November.....	13,665.18	8,987.45	4,677.73	
Totals.....	\$83,241.19	\$44,609.15	\$38,632.04	

The resources have been:—

Appropriation by the City Council.....	\$25,000.00
Receipts from department.....	44,609.15
Unexpended balance November 30, 1916.....	16,178.08
Total receipts.....	\$85,787.23
Total expenditures.....	83,241.19
Unexpended balance November 30, 1917.....	\$2,546.04
Estimated expenditures for 1918.....	93,400.00
Estimated receipts.....	60,000.00

Estimated net expense.....	33,400.00
Less unexpended balance November 30, 1917.....	2,546.04
Estimated appropriation for 1918.....	<u>\$30,853.96</u>

A report of the City Physician containing an account of all matter connected with the Pauper Department which falls under his charge will be found annexed.

All of which is respectfully submitted,

GEORGE F. BROOKS, *Chairman*,
 PHILIP H. DUPREY,
 WILHELM FORSBERG,
 CHARLES S. HOLDEN,
 ALBERT I. JOHNSON,
 FRANK E. MURRAY,
 CHRISTIAN NELSON,
 MICHAEL J. O'HARA,
 WINFRED H. WHITING,

Overseers of the Poor.

GERHARD BECKER,
Clerk.

REPORT OF THE CITY PHYSICIAN

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

Gentlemen:—I have the honor to present to you the following report for the year ending November 30, 1917.

OUTDOOR POOR

Number of orders from the Overseers of the Poor	201
Number of visits made	225
Number of office calls	20
Number of patients sent to City Hospital	51
Number of patients sent to City Hospital Out-Patient	5
Number of patients sent to State Infirmary, Tewksbury	3
Number of patients sent to City Almshouse	3
Number of patients sent to Isolation Hospital	1
Number of patients sent to Memorial Hospital	2
Number of patients sent to Memorial Hospital Out-Patient Dept.	2
Number of patients sent to Mass. General Hospital, Boston	1
Number of patients sent to French Dispensary	2

HOME FARM

Number of visits made	60
Number of cases treated	763
Number of deaths	6
Number of patients sent to City Hospital	39
Number of patients sent to State Hospital	8

MISCELLANEOUS DUTIES

Number of visits to the Police Station	} 65
Number of visits for Police	
Number of these patients sent to Norfolk State Hospital	1
Number of these patients sent to City Hospital	5
Number of these patients sent to State Hospital	28
Examinations for City Solicitor	8
Examinations for District Court	2
Testimony in District Court	2
Testimony in Superior Court	3
Pension examinations	2

Respectfully submitted,
HUGO O. PETERSON, M. D.,
City Physician.

REPORT

OF THE

Sealer of Weights and Measures

OF THE

CITY OF WORCESTER

FOR THE

YEAR ENDING NOVEMBER 30, 1917



THE COMMONWEALTH PRESS

WORCESTER, MASS.

1918

ANNUAL REPORT OF THE SEALER OF WEIGHTS AND MEASURES

To His Honor the Mayor and the Honorable City Council:—

Gentlemen: In compliance with the requirements of the City Charter to submit to you annually a report of the Weights and Measures Department, I respectfully submit the report for the fiscal year ending November 30, 1917, the third annual report of the department under my direction.

“Do your bit” has not been lost sight of in this department. Food conservation and protection activities, brought to the front by reason of the war, have given this department opportunity to do its bit. We have been called on by the State Department of Weights and Measures to make special investigations, to secure official information relating to staple necessities of life for use by the Federal and State Food Conservation Commissioners. We have been called on since our last report to assist the State Department in special investigations outside of Worcester as well as in the city.

Realizing that the scope of usefulness of the department is ever widening, and desiring to serve the public in every way possible, we have made special effort to render services to the manufacturing and mercantile establishments of the city.

Our actual service and expert advice as to the advisability of installing efficiency-producing devices in the form of up-to-date weighing and measuring apparatus have, we know, been appreciated.

This department is in fact, as well as in theory, a protective department.

By reason of our activities, frequent visits to and inspections in the stores and markets, the insistence that full weight and measure be given, our insistence on the abolition of certain “customs of trade,” and impartial prosecution of wilful and persistent violators of the laws framed to insure a “fair deal,” we have given to every citizen a service that has in no small way helped to keep the high cost of necessities from being unwarrantedly increased by short weight or measure.

This is the kind of service the department is created and maintained to give and we are proud of the record of work performed.

The merchants of the city, wholesalers and retailers, as well as the purchasing public, now appreciate the fact that this is a protective, not a persecuting department.

Honest merchants appreciate the work the department is doing, and dishonest merchants realize that the activities of the department force mean their apprehension and punishment.

When appeal to reason fails to insure honest treatment to the purchasing public, this department has not failed to call violators before the court and that it may be appreciated that no petty cases are brought to court, we call attention to the record of thirteen cases brought to court, and in every case a conviction was secured.

Efficiency is measured by results produced. In this connection I respectfully call your attention to the detail schedule of work performed included in this report.

The revenue derived from sealing and adjusting in no sense can be used as a measure of the department's efficiency. Should the effort annually made and supported by some powerful interests result in legislation that will abolish the fee system, the cost of maintaining the department entirely from the tax levy would be warranted because of the protection afforded to both seller and purchaser.

We have continued our campaign of education during the year with gratifying results. Most householders now think of their purchases of commodities in pounds and ounces. There has been a notable increase in the use of scales in the homes, to check up purchases.

Another result that we aimed for has come, co-operation between the housekeepers and this department. We now receive confidential reports which often, on investigation, lead to the correction of careless methods and unintentional short-weighting.

FINANCIAL STATEMENT

Balance from 1916	\$28.26	
Appropriation for 1917	5,400.00	
Total fees collected by the department for year	1,657.53	
Clerical assistance	22.39	
Refund on auto registration	3.00	
Total amount available		\$7,111.18
Total amount expended		7,088.48
		<hr/>
Unexpended balance December 1, 1917		\$27.70

REVENUE

Total of fees for sealing, adjusting and repairing scales, etc., from December 1, 1916, to Novem- ber 30, 1917, inclusive		\$1,645.50
---	--	------------

Due and uncollected balance on 1915 account		7.68
Due and uncollected balance on 1916 account		15.78
		<hr/>
		\$1,668.96
Received at Sealer of Weights and Measures office and paid into the City Treasury on 1917 ac- count	\$1,548.76	
Received at City Treasury direct on 1917 account .	92.99	
Received at Sealer of Weights and Measures office and paid into the City Treasury on 1916 account .	12.54	
Received at City Treasury direct on 1916 account .	3.24	
		<hr/>
		\$1,657.53
Due and uncollected on 1915 account	\$7.68	
Due and uncollected on 1917 account	3.75	
		<hr/>
Balance due December 1, 1917		\$11.48

EXPENDITURES

Salaries	\$5,571.90
Advertising	11.44
Books, stationery and stamps	31.65
Expense of Ford auto (maintenance)	351.13
Expense of Buick auto (cost and maintenance)	833.40
Hardware and tools	35.90
Printing and record books	49.98
Equipment, scales and repairs	159.98
Telephone and telegraph	7.60
Travelling expenses and car tickets	17.24
Miscellaneous	13.26
	<hr/>
Total	\$7,083.48

OUTSIDE WORK PERFORMED

FROM DECEMBER 1, 1916, TO NOVEMBER 30, 1917, INCLUSIVE

	Tested	Adjusted	Sealed	Con- demned	Non Sealed
Scales:					
Platform over 5,000 lbs.....	203	14	188	15	...
Platform under 5,000 lbs.....	1,369	142	1,334	35	58
Counter balance.....	657	33	650	7	8
Beam.....	62	1	60	2	...
Spring balances.....	978	72	920	58	19
Computing platform.....	322	33	312	10	2
Computing, hanging or fan.....	237	15	227	10	1
Slot, personal weighing.....	89	1	84	5	1
Prescription.....	5	...	5	...	...
Jewelers.....	9	3	9	...	...
Weights:					
Avoirdupois.....	8,045	411	8,027	18	...
Apothecary.....	33	...	33	...	...
Metric.....	56	...	56	...	...
Troy.....	157	32	150	7	...
Capacity Measures:					
Dry measures.....	99	...	97	2	10
Liquid measures other than milk jars.....	2,581	...	2,560	21	...
Automatic pumps.....	280	7	264	16	20
Ice cream cans.....	273	...	271	2	...
Linear Measures:					
Yard sticks.....	29	...	29	...	...
Measuring machines.....	4	...	3	1	...
Totals.....	15,488	764	15,279	209	119

Fees for adjusting and sealing the above, \$1,623.80.

OFFICE WORK PERFORMED
FROM DECEMBER 1, 1916, TO NOVEMBER 30, 1917, INCLUSIVE

	Tested	Adjusted	Sealed	Con- demned	Non Sealed
Scales:					
Platform under 5,000 lbs.....	51	7	50	1	...
Counter balances.....	77	8	74	3	...
Beam.....	13	...	12	1	...
Spring balances.....	1,056	13	888	168	...
Computing platform.....	1	1	1	...	...
Computing, hanging or fan.....	32	10	31	1	...
Jewelers.....	2	...	2	...	...
Weights:					
Avoirdupois.....	464	69	464	...	...
Apothecary.....	25	2	25	...	...
Metric.....	1	...	1	...	...
Troy.....	12	5	12	...	...
Capacity Measures:					
Dry measures.....	35	...	34	1	...
Coke baskets.....	744	...	744	...	...
Liquid measures other than milk jars.....	588	...	556	32	...
Ice cream cans.....	4,961	...	4,738	223	...
Linear Measures:					
Yard sticks.....	223	...	220	3	...
Steel tapes.....	23	...	23	...	...
Totals.....	8,308	115	7,875	433	...

Fees for adjusting the above, \$21.70.

There were 523 inspections made, 313 of stores, 142 of coal, 40 of hawkers and peddlers, 23 ice, 4 junk dealers and 1 milk dealer. Reweighings of 4,322 packages showed:

2,365 correct
1,171 overweight
786 underweight

Reweighings of 105 loads of coal showed:

18 correct
43 overweight
44 underweight

Thirteen flagrant violators of the laws, cited into court on complaints from this department, were convicted and severely penalized, two of whom received jail sentences. The fines imposed aggregated \$140.00.

Respectfully submitted,

JAMES A. HEALEY,
Sealer of Weights and Measures.

ANNUAL REPORT

OF THE

Superintendent of Public Buildings

OF THE

CITY OF WORCESTER

FOR THE YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS

WORCESTER, MASS.

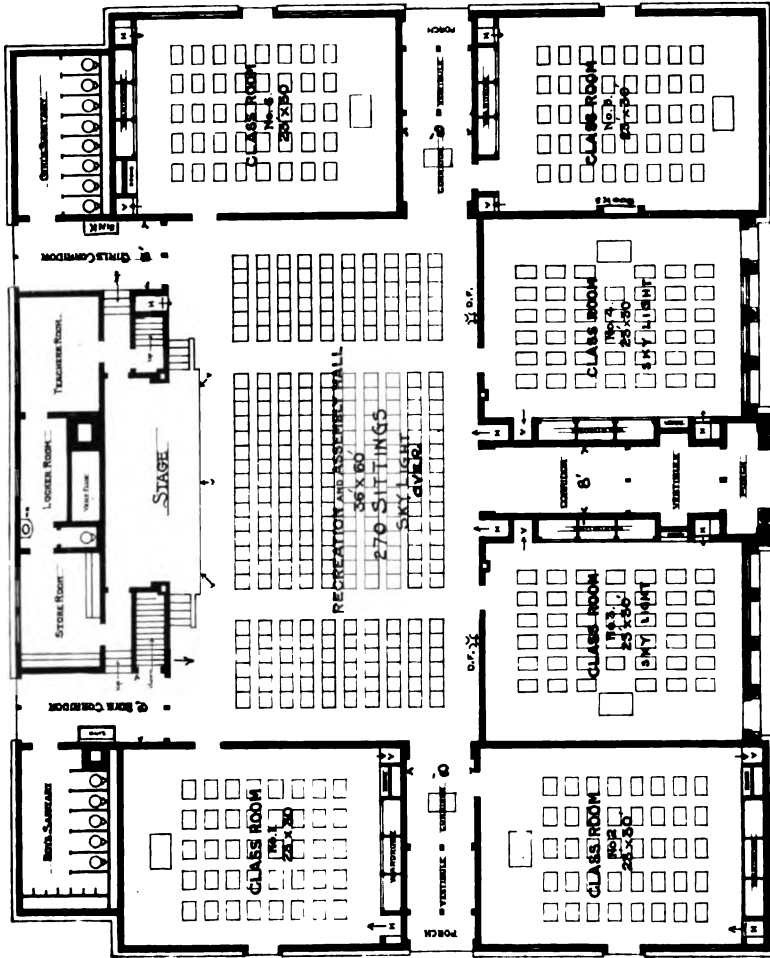
1918

**ORGANIZATION OF THE JOINT STANDING COM-
MITTEE ON PUBLIC BUILDINGS**

Alderman HARRY A. COOKE, *Chairman*,
Alderman GUSTAF A. OLIN,
Alderman JAMES A. GALLAGHER,
Councilman FRED H. DANIELS,
Councilman NILS PETTERSON,
Councilman HOWARD A. NASH,
Councilman JOSEPH V. RAFFERTY,
WILLIAM H. PRATT, *Clerk*.



LUNETTE AT SOUTHERLY END OF LARGE COURT ROOM
NEW POLICE HEADQUARTERS AND CENTRAL DISTRICT COURT BUILDING
TIMOTHY J. MCAULIFFE, SCULPTOR



FLOOR PLAN
 PROPOSED SCHOOLHOUSE FOR GRAFTON STREET NEAR PINE HILL ROAD
 CHARLES R. HOYLE, ARCHITECT

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS, 1917

OFFICE OF THE INSPECTION AND CONSTRUCTION OF
BUILDINGS DEPARTMENT

Worcester, Mass., December 29, 1917.

To the Honorable City Council of the City of Worcester:—

Gentlemen: As required by Chapter 3 of the Revised Ordinances of 1909 the annual report of the Superintendent of Public Buildings is hereby respectfully submitted:

I do not feel that this report should be begun without first taking advantage of the opportunity it affords to express my appreciation of the valued encouragement and assistance I and all members of the department have received from yourselves as well as from His Honor the Mayor. My gratitude is likewise abundantly due my associates in the department itself, who have all worked diligently and faithfully in the city's interest and with great loyalty to their chief.

To the representatives of the public press I also extend my hearty thanks for the uniform courtesy and fair consideration they have shown us throughout the year.

As in previous years I would first report on the conditions of the various buildings in charge of this department, beginning with the

CITY HALL

which with few exceptions is in very good condition and is very well maintained from a janitorial point of view. During the year the room formerly occupied for meetings of the School Committee, it having been re-designated, was divided and equipped to accommodate the Clerk of Committees' Department and for meetings of the various joint standing committees of the City Council.

In similar manner room 7A, formerly a portion of the suite occupied by the Health Department, has been equipped and devoted to the uses of the Registrar of Labor.

In compliance with the long standing demands of the State Commissioner of Public Records, a fireproof vault has been constructed at one end of the rooms occupied by the Buildings Department and the mail chute has been put in a condition satisfactory to the Federal authorities.

Temporary repairs have been effected in an effort to at least make safe for the time being the driveway at the rear of the building.

Further needed repairs and improvements I would recommend for your consideration as follows:

Retinting and repainting the interior plastered surfaces.

Acoustical correction in the chambers occupied by the Common Council and Board of Aldermen.

Construction of a fireproof vault for the records of the Registrars of Voters.

A new and larger vault for electrical transformers.

An air-washing system for use in connection with the heating and ventilating apparatus.

Re-paving of the mall at the rear of the building.

SCHOOLHOUSES

The public schoolhouses, while generally in a very creditable state of repair, in some individual instances need extensive rejuvenation and improvements. The most notable improvements effected during the past year, though not necessarily given in the order of their importance, are as follows:

Installing electric lighting systems in the Elizabeth Street, Thomas Street, Oxford Street, Chandler Street, Salem Street, Adams Square and the old portion of the North High School.

New slate blackboards in three class rooms at Adams Square schoolhouse, six class rooms at Grafton Street schoolhouse No. 1, one class room at Lamartine Street schoolhouse No. 1, eight class rooms at Ledge Street building No. 1, seven rooms at Oxford Street, four rooms at Salem Street and four at the North High School.

New sanitary plumbing and ventilation in the Oxford Street and Ward Street schoolhouses.

A source of considerable disappointment was our financial inability to do any very extensive painting or tinting at these buildings as has been our usual custom during the summer vacation period. It is to be hoped that sufficient funds will be available next summer to undertake a large amount of painting so necessary for the proper preservation of the buildings both within and without.

Instances where needed improvements or repairs are particularly desired are as follows:

New sanitary plumbing at Webster Square, Abbott Street, Salem Street, Millbury Street and Sycamore Street schoolhouses, and in the Quinsigamond building No. 2, also in the girls' basement of Quinsigamond schoolhouse No. 1.

New heating and ventilating system in the Classical High School, Ward Street, Lamartine Street schoolhouse No. 1, Sycamore Street, Downing Street and North Pond schoolhouses.

A fireproof partition in each story between the old and new portions of the High School of Commerce.

An electric motor to take the place of the high pressure boiler and engine at the Belmont Street and Ash Street buildings, also at the Classical High School and in the old portion of the North High School.

Electric lighting and fire alarm signal systems in all of the schoolhouses not already so equipped.

Inter-communicating telephone and electric lighting system at the Classical High School.

Much needed painter's work, especially on the exterior, for the adequate preservation of many of the buildings.

WORKSHOP AND STOREHOUSE

With the exception of much needed repainting on the exterior this building is in very fair condition. For its own safety and that of its contents, I would again recommend that an automatic sprinkler system be installed.

The foregoing recommendation is well worthy of your consideration, but especially would I recommend that the storage facilities be increased by the construction of an addition to this building.

CENTRAL DISTRICT COURT BUILDING

As you know this building is at present occupied for the purposes of the Central District Court and by the First Precinct and Headquarters of the Police Department. Owing to the fact that the new Police Headquarters building will soon be occupied for these purposes it has been deemed inexpedient to keep this building in any more than passable repair. Were it not for the reinforcing effect of the new buildings against the north wall, it is doubtful if the occupancy of the older structure could have been continued. It is gradually but surely growing weaker and more unsafe as time goes on and as soon as vacated should be condemned and razed to the ground.

POLICE STATIONS

The new Police Headquarters and Central District Court building, together with the new garage and boiler house, have progressed without interruption if not very rapidly

during the past year, and should be ready for occupancy this spring. The workmanship demonstrated and materials used in the construction of these buildings are of a high character and very creditable to the contractors responsible therefor. The other buildings occupied by the Police Department, consisting of second, third and fourth precincts, are well cared for by those in charge. Those owned by the city are in fairly good condition. At the Lamartine Street station, because of the isolated location of its cell room, the present heating apparatus is hardly adequate, in consequence of which a larger boiler should be installed. The little building occupied as a sub-station on Lake Avenue is in good condition with the exception of the exterior which should be re-painted.

FIRE STATIONS

The buildings occupied by the Fire Department are generally in good condition, though most if not all of them are in need of painting on the exterior and considerable retinting and painting within.

The most needed improvements are shower baths in all buildings not already so equipped, new plumbing and electric lighting system at the John Street Engine House, a new pair of doors at the entrance to the Union Square Engine House, and a new electric lighting system at the Department Headquarters building.

HEALTH DEPARTMENT BUILDINGS

These buildings consisting of the Belmont Hospital group, the men's and women's bathhouses and the Albany Street Incinerator, are, with the exception of the latter structure, in very fair condition. All of them with the possible exception of the brick buildings at the Belmont Hospital are in need of exterior painting. Steps should be taken as early as possible in the coming year to reinforce the foundations of the Incinerator building. This need you may recall I have already referred to in other reports. It should not be further neglected.

WATER DEPARTMENT BUILDINGS

The buildings occupied by this department are, as has always been their condition since I have been familiar with them, in an excellent state of repair.

SEWER DEPARTMENT

The buildings occupied by this department are of a considerable number, varied occupancy, and distributed at considerable distances from one another. They are all, however, in very good condition, especially those of masonry construction. In some instances the wooden frame buildings occupied by the Sewer Department are not quite up to standard in the matter of repair though they need but little attention to put them into good condition. Money could be spent to better advantage, however, in replacing some of them at least, notably the Sewer Department Workshop on East Worcester Street, with newer structures of masonry designed for the purpose, that would be better adapted to the uses of the department. This, you may remember, I have recommended on former occasions.

RIFLE RANGE

The buildings and property at the Rifle Range, situated in the town of Shrewsbury, are on the whole in good condition. It is a source of great regret, however, that appropriations have not been made nor orders passed for the construction of a barn and stable building on this property. Such conveniences are an absolute necessity for the caretaker in charge of the range in the proper discharge of the duties required of him and as a necessary encouragement to any man and his family to live the isolated life this position necessitates. The present incumbent of this position is a man of exceptional ability, particularly well adapted to the work, whose industry and zeal in the dispatch of his duties should seriously commend his needs for your very earliest and most favorable consideration. I feel that I cannot speak too strongly in urging the need of a barn and stable building at the range. Plans and specifications have already been prepared for such a structure and submitted for your consideration. If the plans of the proposed structure are of such a nature that it would seem inexpedient to carry them out, may I request your orders for even a more modest building.

CITY SCALES

These items of property are maintained in as good condition as might be expected considering their exposed unprotected locations. It is utterly impossible to keep them in perfect working condition at all times especially during the colder periods of the winter months. With one exception they are all located in the traveled way of the public streets and subject to greater stresses than those for which they were

originally intended by the constant passing over them of the heavier vehicles and large motor trucks characteristic of present day traffic. All of the scales so situated should be replaced by scales of larger capacity and heavier construction and if possible so located as to be housed or protected from the elements.

GENERAL

In the following tables the condition of the various buildings is set forth or indicated by the word "Good," "Fair," or "Poor" and such other brief facts are given as have been thought pertinent to the subject in hand. The values in most instances are estimated.

DESIGNATION, GENERAL CONDITION AND VALUE OF PROPERTY OCCUPIED BY SCHOOL DEPARTMENT

HIGH SCHOOL OF COMMERCE.

Erected 1871, addition 1913.	
35,163 ft. of land at \$1 per ft.....	\$35,163.00
6,293 ft. of land	6,700.00
10,300 ft. of land.....	26,236.53
House (Good)*.....	377,050.00

\$445,149.53

*Should have fireproof glassed partition in each story between original building and annex.

CLASSICAL HIGH SCHOOL.

Erected 1891.	
9,336 ft. of land (Bemis taking) value undetermined.	
30,000 ft. of land at \$1 per ft.....	\$30,000.00
House (Good)*.....	190,000.00

\$220,000.00

*Heating and ventilating system needs improvement. Inter-communicating telephone and electric lighting systems needed. An electric motor should be installed in place of power boiler and engine.

NORTH HIGH SCHOOL.

Erected 1889, addition 1915.	
81,211 ft. of land	\$46,828.80
House (Good)*.....	335,747.39

\$ 382,576.19

*Should have electric motor instead of power boiler and engine.

SOUTH HIGH SCHOOL.

Erected 1900.	
51,499 ft. of land at 50 cts. per ft.....	\$25,749.50
House (Good).....	180,000.00

\$205,749.50

ABBOTT STREET SCHOOLHOUSE.

Erected 1894, addition 1905.	
41,273 ft. of land at 10 cts. per ft.....	\$4,127.30
House (Good)*.....	55,000.00
	<hr/>

\$59,127.80

*Plumbing fixtures obsolete.

ADAMS SQUARE SCHOOLHOUSE.

Erected 1887.	
24,709 ft. of land	\$3,218.06
House (Good).....	45,000.00
	<hr/>

\$48,218.06

ADAMS STREET SCHOOLHOUSE.

Erected 1896, addition 1916.	
30,000 ft. of land.....	\$3,000.00
House (Good).....	45,898.89
	<hr/>

\$48,898.89

ANDOVER STREET SCHOOLHOUSE.

Erected 1914.	
42,681 ft. of land at 11½ cts. per ft.....	\$4,902.57
House (Good).....	51,803.54
	<hr/>

\$56,706.11

ARMANDALE STREET SCHOOLHOUSE.

5,061 ft. of land at 15 cts. per ft.....	\$759.15
House (Good). (Occupied by Valley Falls Mission).....	500.00
	<hr/>

\$1,259.15

ASH STREET SCHOOLHOUSE.

Erected 1850.	
13,422 ft. of land at 35 cts. per ft.....	\$4,697.70
House (Fair)*.....	13,500.00
	<hr/>

\$18,197.70

*Should have additional windows and a new boiler. The steam engine should be replaced by an electric motor.

BELMONT STREET SCHOOLHOUSE.

Erected 1871.	
39,930 ft. of land at 40 cts. per ft.....	\$15,972.00
House (Good)*.....	50,000.00
	<hr/>

\$65,972.00

*Ventilating fan should be driven by electric motor instead of steam engine.

BLITHEWOOD AVENUE SCHOOLHOUSE.

Erected 1895.	
45,743 ft. of land at ½ ct. per ft.....	\$228.72
House (Good).....	5,000.00
	<hr/>

\$5,228.72

BLOOMINGDALE SCHOOLHOUSE.

Erected 1896, addition 1916.

6,373 (Sanders' Trustee taking) value undetermined

5,889 ft. land (Sevestre taking).....	\$600.00
27,190 ft. of land at 6 cts. per ft.....	1,681.40
House (Good)	57,648.02

\$59,874.42**BURNCOAT SCHOOLHOUSE (Burncoat St.)**

Erected 1916.

72,720 ft. of land (including site development)	9,727.60
House (Good)	42,341.29

\$52,068.89**BURNCOAT PLAIN SCHOOLHOUSE.**

Erected 1856.

23,769 ft. of land at 2 cts. per ft.....	\$475.38
House (Fair)*.....	1,500.00

\$1,975.38

*Unoccupied.

CAMBRIDGE STREET SCHOOLHOUSES.

House No. 1, erected 1870, addition 1916.

House No. 2, erected 1891.

32,589 ft. of land at 15 cts. per ft.....	\$4,888.85
House No. 1 (Fair)*.....	65,137.40
House No. 2 (Good).....	27,000.00

\$97,025.75

*Front or old portion.

CANTERBURY STREET SCHOOLHOUSES.

House No. 1 erected 1881; No. 2, 1898.

41,893 ft. of land at 15 cts. per ft.....	\$6,283.95
House No. 1 (Good).....	45,000.00
House No. 2 (Good).....	35,000.00

\$86,283.95**CHAMBERLAIN DISTRICT.**

21,780 ft. of land at 5 cts. per ft.....	\$1,089.00
--	------------

\$1,089.00**CHANDLER STREET SCHOOLHOUSE.**

Erected 1884.

34,977 ft. of land at 35 cts. per ft.....	\$12,241.95
House (Good).....	35,000.00

\$47,241.95

COLUMBUS PARK SCHOOLHOUSE.

Erected 1913.	
46,455 ft. of land, including extra grading	\$11,151.43
House (Good).....	48,113.75

\$59,265.18**DARTMOUTH STREET SCHOOLHOUSE.**

Erected 1894, addition 1908.	
32,250 ft. of land at 10 cts. per ft.....	\$3,225.00
8,250 ft. of land.....	2,168.29
House (Good).....	68,000.00

\$73,393.29**DIX STREET SCHOOLHOUSES.**

House No. 1 erected 1867; No. 2, 1902.	
35,189 ft. of land at 25c. per ft.....	\$8,797.25
House No. 1 (Good).....	40,000.00
House No. 2 (Good).....	38,000.00

\$86,797.25**DOWNING STREET SCHOOLHOUSE.**

Erected 1891.	
36,343 ft. of land at 15 cts. per ft.....	\$5,451.45
House (Good).....	45,000.00

\$50,451.45**EAST KENDALL STREET SCHOOLHOUSE.**

Erected 1898, addition 1908.	
27,832 ft. of land at 15 cts. per ft.....	\$4,174.80
House (Good).....	70,000.00

\$74,174.80**EDGEWORTH STREET SCHOOLHOUSE.**

Erected 1870, addition 1907.	
30,761 ft. of land at 8 cts. per ft.....	\$2,460.88
House (Good).....	65,000.00

\$67,460.88**ELIZABETH STREET SCHOOLHOUSE.**

Erected 1893.	
30,486 ft. of land at 18 cts. per ft.....	\$5,487.48
House (Good).....	45,000.00

\$50,487.48**FREELAND STREET SCHOOLHOUSE.**

Erected 1885.	
29,623 ft. of land at 30 cts. per ft.....	\$8,886.90
House (Good).....	45,000.00

\$53,886.90

GAGE STREET SCHOOLHOUSE.

Erected 1884, addition 1899.

40,864 ft. of land at 15 cts. per ft.....	\$6,129.60
House (Good).....	60,000.00

\$66,129.60**GATES LANE SCHOOLHOUSE.**

Erected 1898, addition 1903.

46,288 ft. of land at 15 cts. per ft.....	\$6,943.20
House (Good)*.....	60,000.00

\$66,943.20

*Should be electrically lighted throughout.

GRAFTON STREET (PINE HILL ROAD SCHOOLHOUSE SITE).

111,820 ft. land (Hays taking) value undetermined.

GRAFTON STREET SCHOOLHOUSES.

House No. 1 erected 1879; No. 2, 1899.

51,250 ft. of land at 25 cts. per ft.....	\$12,812.50
House No. 1 (Good).....	30,000.00
House No. 2 (Good).....	60,000.00

\$102,812.50**GREENDALE SCHOOLHOUSE No. 1.**

Erected 1886.

13,991 ft. of land at 10 cts. per ft.....	\$1,399.10
House (Good).....	2,000.00

\$3,399.10**GREENDALE SCHOOLHOUSE No. 2.**

Erected 1893.

25,816 ft. of land at 6 cts. per ft.....	\$1,548.96
House (Good).....	45,000.00

\$46,548.96**HARLOW STREET SCHOOLHOUSE.**

Erected 1897, addition 1914.

29,698 ft. of land at 15 cts. per ft.....	\$4,454.70
House (Good).....	69,923.06

\$74,377.76**JAMESVILLE SCHOOLHOUSE.**

Erected 1887, moved to present site, 1903.

23,230 ft. of land at 5 cts. per ft.....	\$1,161.50
House (Good).....	4,000.00

\$5,161.50**LAKE VIEW SCHOOLHOUSE.**

Erected 1879.

23,526 ft. of land at 5 cts. per ft.....	\$1,176.80
House (Good).....	12,000.00

\$13,176.80

LAMARTINE STREET SCHOOLHOUSES.

House No. 1 erected 1867; No. 2, 1896; No. 3, erected 1911.	
48,182 ft. of land at 20 cts. per ft.....	\$9,636.40
27,551 ft. of land at 25 cts. per ft.....	6,887.75
House No. 1 (Fair)*.....	22,000.00
House No. 2 (Good).....	40,000.00
House No. 3 (Good).....	86,347.46

\$164,871.61

*Heating and ventilating system obsolete.

LEDGE STREET SCHOOLHOUSES.

House No. 1 erected 1871; No. 2, erected 1886, addition 1910.	
10,320 ft. of land at 40 cts. per ft.....	\$4,128.00
8,374 ft. of land at 60 cts. per ft.....	5,024.40
40,890 ft. of land at 20 cts. per ft.....	8,178.00
House No. 1 (Good).....	40,452.90
House No. 2 (Good).....	73,000.00

\$130,783.80

LEE STREET SCHOOLHOUSE.

Erected 1885.	
29,191 ft. of land at 15 cts. per ft.....	\$4,378.65
House (Good).....	15,000.00

\$19,378.65

LUDLOW STREET SCHOOLHOUSE.

Erected 1881, addition 1905.	
27,530 ft. of land at 6 cts. per ft.....	\$1,654.80
House (Good).....	20,000.00

\$21,654.80

MALVERN ROAD SCHOOLHOUSE.

Erected 1896, addition 1907.	
36,975 ft. of land at 8 cts. per ft.....	\$2,958.00
House (Good).....	46,788.60

\$49,746.60

MASON STREET SCHOOLHOUSE.

Erected 1854.	
13,315 ft. of land at 25 cts. per ft.....	\$3,323.75
House (Good).....	6,000.00

\$9,323.75

MAY STREET SCHOOLHOUSE SITE.

8,712 ft. land (Lincoln taking) value undetermined.

MIDLAND STREET SCHOOLHOUSE.

Erected 1896, addition 1915.	
27,000 ft. of land.....	\$4,482.08
House (Good).....	64,135.45

\$68,617.53

MILBURY STREET SCHOOLHOUSES.

House No. 1 erected 1883; No. 2, 1885; No. 3, 1892; No. 4, 1898.	
103,013 ft. of land at 15 cts. per ft.....	\$15,451.95
House No. 1 (Good).....	26,000.00
House No. 2 (Good).....	14,000.00
House No. 3 (Good).....	20,000.00
House No. 4 (Good).....	40,000.00

\$115,451.95**NORTH POND SCHOOLHOUSE.**

Erected 1864.	
22,046 ft. of land at 3 cts. per ft.....	\$661.38
House (Good)*.....	3,500.00

\$4,161.38

*Should have fire escape exits.

NORTH WORCESTER SCHOOLHOUSE.

Erected 1893.	
43,560 ft. of land.....	\$500.00
House (Good).....	2,500.00

\$3,000.00**OXFORD STREET SCHOOLHOUSE.**

16,914 ft. of land at \$1.40 per ft.....	\$23,679.60
House (Good).....	25,000.00

\$48,679.60**PINE HILL ROAD SCHOOLHOUSE.**

See Grafton Street.

PORTABLE SCHOOLHOUSES (Good)

One at Belmont Street.....	\$1,500.00
Two at Blithewood Avenue.....	3,000.00
One at Canterbury Street.....	1,500.00
One at Gates Lane.....	1,500.00
One at Grafton Street.....	1,500.00
One at Providence Street.....	1,210.00
One at Tatnuck.....	1,500.00
One at Union Hill.....	1,500.00
One at Upsala Street.....	1,500.00

\$14,710.00**PROVIDENCE STREET SCHOOLHOUSES.**

House No. 1 erected 1857; No. 2, 1896.	
49,995 ft. of land at 50 cts. per ft.....	\$24,997.50
House No. 1 (Good)*.....	25,000.00
House No. 2 (Good).....	45,000.00

\$94,997.50

*Plumbing system obsolete.

QUINSIGAMOND SCHOOLHOUSES.House No. 1 erected 1870; No. 2, 1889; No. 3,
1899.

49,990 ft. of land at 12½ cts. per ft.....	\$6,248.75
85,040 ft. of land.....	7,000.00
House No. 1 (Good)*.....	20,000.00
House No. 2 (Good)*.....	35,000.00
House No. 3 (Good).....	30,000.00

*Plumbing system obsolete.

\$98,248.75**RICE SQUARE SCHOOLHOUSE**

95,470 ft. of land.....	\$8,953.28
House (Good).....	76,439.22

\$85,392.50**SALEM STREET SCHOOLHOUSE.**

Erected 1850.	
12,780 ft. of land at 50 cts. per ft.....	\$6,390.00
House (Good)*.....	15,000.00

*Plumbing system obsolete.

\$21,390.00**SEVER STREET SCHOOLHOUSE.**

Erected 1902.	
18,396 ft. of land at 40 cts. per ft.....	\$7,358.40
House (Good).....	38,000.00

\$45,358.40**SYCAMORE STREET SCHOOLHOUSE.**

Erected 1866.	
12,600 ft. of land at 60 cts. per ft.....	\$7,560.00
House (Good)*.....	18,000.00

\$25,560.00

*Plumbing and heating systems obsolete.

TATNUCK SCHOOLHOUSE No. 1.

Erected 1860.	
19,965 ft. of land at 8 cts. per ft.....	\$1,597.20
House (Poor)*.....	3,000.00

\$4,597.20

*Unoccupied.

TATNUCK SCHOOLHOUSE No. 2.

Erected 1909.	
49,593 ft. of land, including extra grading....	\$13,564.21
House (Good).....	40,814.27

\$54,378.48**THOMAS STREET SCHOOLHOUSE.**

Erected 1850.	
23,483 ft. of land.....	\$12,888.15
House (Good).....	30,000.00

\$42,888.15

TROWBRIDGEVILLE SCHOOLHOUSE.

Erected 1896, addition 1918.	
26,825 ft. of land at 6 cts. per ft.....	\$1,609.50
House (Good).....	<u>13,100.84</u>

\$14,710.34**UNION HILL SCHOOLHOUSE.**

Erected 1893, addition 1906.	
23,660 ft. of land at 15 cts. per ft.....	\$3,549.00
House (Good).....	<u>45,000.00</u>

\$48,549.00**UPSALA STREET SCHOOLHOUSE.**

Erected 1894.	
39,183 ft. of land at 10 cts. per ft.....	\$3,918.30
10,000 ft. of land.....	1,650.00
House (Good).....	<u>60,000.00</u>

\$65,568.30**WALNUT STREET SCHOOLHOUSE.**

Erected 1845; moved from High School of Commerce site to present location in 1871.	
9,205 ft. of land at \$1.10 per ft.....	\$10,125.50
House (Fair).....	<u>14,000.00</u>

\$24,125.50**WARD STREET SCHOOLHOUSE.**

Erected 1894, addition 1898.	
33,325 ft. of land at 20 cts. per ft.....	\$6,665.00
House (Good)*.....	<u>55,000.00</u>

\$61,665.00

*Heating and ventilating system obsolete.

WASHINGTON STREET SCHOOLHOUSE.

Erected 1866.	
7,704 ft. of land at 60 cts. per ft.....	\$4,622.40
House (Fair)*.....	<u>3,000.00</u>

\$7,622.40

*Plumbing is obsolete.

WEBSTER SQUARE SCHOOLHOUSE.

Erected 1858.	
23,948 ft. of land at 20 cts. per ft.....	\$4,789.60
House (Good)*.....	<u>10,000.00</u>

\$14,789.60

*Plumbing is obsolete.

WEST BOYLSTON STREET SCHOOLHOUSE.

Erected 1902, addition 1915.	
27,868 ft. of land at 20 cts. per ft.....	\$5,573.60
House (Good).....	52,864.48

\$57,988.08

WINSLOW STREET SCHOOLHOUSE.

Erected 1878.	
24,325 ft. of land at 40 cts. per ft.....	\$9,730.00
House (Good)*.....	30,000.00

\$39,730.00

* Should have electric lighting system.

WOODLAND STREET SCHOOLHOUSES.

House No. 1 erected 1870; No. 2, 1881.	
40,424 ft. of land at 40 cts. per ft.....	\$16,169.60
House No. 1 (Good).....	30,000.00
House No. 2 (Good).....	12,000.00

\$58,169.60

NEW WOODLAND STREET SCHOOLHOUSE.

Erected 1898.	
46,380 ft. of land at 25 cts. per ft.....	\$11,595.00
House (Good).....	40,000.00

\$51,595.00

Total..... \$4,864,766.61

DESIGNATION, CONDITION AND VALUE OF PROPERTY OCCUPIED BY THE FIRE DEPARTMENT**BEACON STREET. (Engine No. 2.)**

7,845 ft. of land at 50 cts. per ft.....	\$3,922.50
House (Good).....	25,000.00

\$28,922.50

BLOOMINGDALE. (Engine No. 6.)

Land donated by William Putnam.....	\$500.00
House (Fair).....	9,000.00

\$9,500.00

BURNOAT STREET. (Hose No. 12.)

7,500 ft. of land at 20 cts. per ft.....	\$1,500.00
House (Good).....	3,500.00

\$10,000.00

CAMBRIDGE STREET. (Hose No. 3.)

6,182 ft. of land at 15 cts. per ft.....	\$927.30
House (Good).....	6,500.00

\$7,427.30

EASTERN AVENUE. (Engine No. 7.)		
10,141 ft. of land at 15 cts. per ft.....	\$1,521.15	
House (Good).....	20,000.00	
	<hr/>	\$21,521.15
EXCHANGE STREET.*		
500 ft. of land at \$4 per ft.....	\$2,000.00	
House (Poor).....	1,000.00	
	<hr/>	\$3,000.00
*Nominally owned by City as long as fire apparatus is kept on premises.		
FIRE ALARM SIGNAL STATION (Park Ave.)		
10,000 ft. of land	\$5,000.00	
	<hr/>	\$5,000.00
GROVE STREET.		
6,044 ft. of land	\$300.00	
	<hr/>	\$300.00
JOHN STREET. (Chemical No. 1.)		
1,837 ft. of land at 50 cts. per ft.....	\$918.50	
House (Good)*.....	4,000.00	
	<hr/>	\$4,918.50
*Plumbing fixtures obsolete and should have electric lighting system.		
LAMARTINE STREET. (Hose No. 7.)		
7,206 ft. of land at 20 cts. per ft.....	\$1,441.20	
House (Good).....	4,000.00	
	<hr/>	\$5,441.20
MERCANTILE, UNION AND FOSTER STREETS.		
(Headquarters, Hose No. 4, Ladder No. 3.)		
25,607 ft. of land at \$2.25 per ft.....	\$57,615.75	
House (Fair)*.....	125,000.00	
	<hr/>	\$182,615.75
*In need of painting and general repairs and new electric lighting system.		
MILLBURY STREET. (Hose No. 6.)		
Leased Land.		
House (Good).....	\$5,000.00	
	<hr/>	\$5,000.00
PLEASANT STREET. (Engine No. 4, Ladder No. 7.)		
6,366 ft. of land at 50c. per ft.....	\$3,183.00	
House (Good).....	10,000.00	
	<hr/>	\$13,183.00
PORTLAND STREET. (Hose No. 5, Ladder No. 1.)		
6,429 ft. of land at 55 cts. per ft.....	\$3,535.95	
House (Good).....	15,000.00	
	<hr/>	\$18,535.95

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PRESCOTT STREET. (Hose No. 1, Ladder No. 2.)		
6,762 ft. of land at 50 cts. per ft.....	\$3,381.00	
House (Fair).....	7,500.00	
	<hr/>	\$10,881.00
PROVIDENCE STREET. (Hose No. 8, Ladder No. 5.)		
9,998 ft. of land at 20 cts. per ft.....	\$1,998.60	
House (Good).....	18,000.00	
	<hr/>	\$19,998.60
SCHOOL STREET. (Engine No. 3.)		
9,201 ft. of land at 65 cts. per ft.....	\$5,980.65	
House (Good).....	30,000.00	
	<hr/>	\$35,980.65
UNION SQUARE. (Hose No. 2.)		
On Schoolhouse Lot.		
House (Good).....	\$5,000.00	
	<hr/>	\$5,000.00
WEBSTER STREET, NEW WORCESTER. (Engine No. 5, Ladder No. 4.)		
10,046 ft. of land at 25c. per ft.....	\$2,511.50	
House (Good).....	15,000.00	
	<hr/>	\$17,511.50
WEST BOYLSTON STREET, GREENDALE. (Hose No. 10 and Ladder No. 6.)		
10,088.35 ft. of land at 15c. per ft.	\$1,505.75	
House (Good).....	12,000.00	
	<hr/>	\$13,505.75
WOODLAND STREET. (Hose No. 9.)		
5,382 ft. of land at 40 cts. per ft.....	\$2,152.80	
House (Good).....	6,000.00	
	<hr/>	\$8,152.80
Total		<hr/> \$426,895.65

DESIGNATION, CONDITION AND VALUE OF PROPERTY OCCUPIED BY THE VARIOUS OTHER DEPARTMENTS

CITY MESSENGER DEPARTMENT.		
City Hall, Main, Franklin and Front Streets.		
Building (Granite) (Good)*.....		\$650,000.00

*Interior painting and decorating in need of rejuvenation.

POLICE DEPARTMENT.

14,569 ft. land at \$3 per ft.....	\$43,707.00	
New Headquarters and Garage Buildings (cost to date)	197,118.54	
		<u>\$240,825.54</u>
Station No. 2, Lamartine Street. 11,030 ft. of land at 20 cts. per ft..	\$2,206.00	
Building (Brick) (Fair).....	15,454.24	
		<u>\$17,660.24</u>
Lake View Station. Building (Wood) (Good).....	\$2,000.00	
		<u>\$260,485.78</u>

STREET DEPARTMENT.

City Stables, Shop, Sheds, Roller House, etc., Salem Street. 74,698 ft. of land	\$74,698.00	
Buildings (Fair).....	57,899.49	
		<u>\$132,597.49</u>
Harlow Street. 30,785 ft. of land	5,557.00	
Millbury and Ballard Streets. 85,000 ft. of land.....	\$850.00	
Albany Street. 24,640 ft. of land	\$7,392.00	
Pleasant and Mower Streets. 64,904.4 ft. land at 10c. per ft...	\$6,490.44	
Southbridge Street. 9,504 ft. of land and buildings thereon,	\$9,500.00	
		<u>\$162,386.98</u>

HEALTH DEPARTMENT.

Belmont Hospital.		
4.75 acres of land	\$4,500.00	
4.99 acres of land (Putnam gift)...	4,500.00	
80,000 sq. ft. of land	5,675.00	
Administration Building (Wood) (Good)	32,000.00	
Old West Ward (Wood) (Good)...	11,000.00	
Old East Ward (Wood) (Good)...	11,000.00	
New East Ward (Wood) (Good)...	15,000.00	
Laundry Building (Wood) (Good)...	9,000.00	
Boiler House and Stack (Brick) (Good)	35,000.00	
Tenement House (Wood) (Good)...	3,000.00	
Putnam Ward (Brick) (Good).....	95,000.00	
Service Building (Brick) (Good)...	44,000.00	
Connecting Corridors (Concrete) (Good).....	11,600.00	
		<u>\$281,275.00</u>

Pest House, Lincoln Street.	
Building (Wood) (Good).....	\$5,000.00
Women's New Bathhouse, Lake Ave.	
Building (Wood) (Good).....	12,000.00
Men's New Bathhouse, Lake Ave.	
Building (Wood) (Good).....	9,500.00
Albany Street Incinerator.	
Land.....	\$4,514.02
Building (Fair).....	16,000.00
	<u>20,514.02</u>
	<u>\$47,014.02</u>

\$828,289.02

SEWER DEPARTMENT.

Workshop, etc., East Worcester Street.	
49,076 ft. of land	\$36,800.00
Buildings (Fair)	7,000.00
	<u>\$43,800.00</u>
Purification Works.	
Land.....	\$109,030.31
Buildings (Good)	19,435.00
	<u>\$128,465.31</u>
Pumping Station, Lake Avenue.	
5,851 ft. of land	\$1,462.75
Building (Good)	4,790.51
	<u>\$6,258.26</u>
Pumping Station, Massasoit Road.	
12,854 ft. of land	\$642.70
Building (Good)	1,285.00
	<u>\$1,927.70</u>
Hammond Street.	
1,700 ft. of land	\$425.00
	<u>\$425.00</u>
Gold Street.	
860 ft. of land	\$500.00
Buildings	2,237.62
	<u>\$2,737.62</u>

\$183,608.89

WATER DEPARTMENT.

Asnebumskit System, Kendall Reser- voir, Holden.	
Dwelling house (Good)	\$4,000.00
Barn (Good).....	300.00
Other buildings (Good)	400.00
	<u>\$4,700.00</u>

Holden Reservoir, Olean Street.

Dwelling house (Wood) (Good) . . .	\$3,500.00
Barn and stable (Wood) (Good) ..	800.00

\$4,300.00**Kettle Brook System, Leicester.**

Dwelling House (Wood) (Good) ..	\$3,500.00
Barn and stable (Wood) (Good) ..	800.00

\$4,300.00**Lynde Brook System, Leicester.**

Dwelling house (Wood) (Good) . . .	\$2,500.00
Barn and stable (Wood) (Good) ..	800.00

\$3,300.00**East Worcester Street Yard.**

20,176 ft. of land at 75 cts. per ft..	\$15,182.00
Storage buildings (Wood) (Good) .	500.00
Workshop (Brick) (Good)	30,000.00
Stable (Brick) (Good)	24,000.00

\$69,632.00**Albany Street Yard.**

59,410 ft. of land at 25 cts. per ft..	\$14,852.50
Buildings (Wood) (Good)	500.00

\$15,352.50

\$101,584.50**BUILDINGS DEPARTMENT (Miscellaneous)****Central District Court House, Waldo Street.**

*7,525 ft. of land at \$3 per ft.	\$22,575.00
Building (Brick) (Poor)	20,000.00

\$42,575.00***Originally 8,014 ft.; area reduced to accommodate new Headquarters Building.****Voting Booths, Portable.**

11 Booths (Wood) (Fair) at \$200.00	\$2,200.00
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\$2,200.00**Permanent Voting Booth and storage shed, Shrewsbury Street (Wood) (Good)**

\$540.00

\$540.00**City Scales (Good).**

Lincoln Square	\$400.00
New Worcester	500.00
Franklin Street (on rented land) . .	400.00
Mason Street	300.00
Quinsigamond	300.00

\$1,900.00

Workshop and Storehouse, Shrewsbury Street.		
8,887 ft. of land at \$1 per ft.....	\$8,887.00	
Building (Brick) (Fair)	17,000.00	
		<u>\$25,887.00</u>
Convenience Station, Old Common.		
Building (Concrete) (Good)	\$14,000.00	
		<u>\$14,000.00</u>
Rifle Range.		
Land	\$4,277.14	
Range House (Good).....	6,968.18	
Caretaker's House (Good).....	3,475.82	
General Equipment and Improvement	16,998.04	
		<u>\$31,714.18</u>
		<u>\$118,816.18</u>
Total		\$1,805,171.30

The word "good," as set forth above, in describing a building's condition, does not necessarily mean perfect; it is intended to convey to the mind a general idea of its state of repair. In several instances the building as a unit may be in excellent condition, though in many ways obsolete. Some parts of the equipment, such as heating apparatus, ventilating apparatus or plumbing, may be in need of renewal, revision or repairs and in many instances repainting is needed.

SCHEDULE AND VALUES OF CITY PROPERTY IN CONTROL OF THE BUILDINGS DEPARTMENT

Schoolhouses and land	\$4,364,766.61
Central District Court House and land	42,575.00
Police buildings and land	260,485.78
Engine houses and land	426,895.65
Convenience station on common	14,000.00
Department workshop and storehouse with land	25,887.00
Voting booths	2,740.00
Ward room and booth furnishings	480.74
Rifle Range, Shrewsbury, buildings and land	31,714.18
Rifle Range, supplies and furnishings	534.14
City Hall building	650,000.00
Flag pole on Common	400.00
Flag pole, Stearns Square	400.00
City scales	1,900.00
Woodworking machinery at shop	1,051.59
Woodworking tools at shop	52.98
Carpentry supplies at shop	275.81
Painters' stock at shop	108.80
Shop office furnishings	113.40
Plumbers' tools and machinery at shop	259.36
Plumbers' supplies at shop	1,162.41
Janitors' supplies and school furniture at shop	5,355.32
Janitors' supplies and school furniture at schools	197,638.34
Caretakers' supplies, Convenience Station	163.82
Property at department office	400.00
Automobile (Velie)	1,000.00
Automobile (Bailey)	900.00
Total	<u>\$6,030,760.43</u>

**EXPENDITURES FROM GENERAL APPROPRIATION FOR THE
INSPECTION AND CONSTRUCTION OF BUILDINGS DEPART-
MENT FOR THE YEAR ENDING
NOVEMBER 30th, 1917**

DEPARTMENT OFFICE

Salary, Superintendent of Public Bldgs.....	\$2,600.00
Salary, Asst. Supt. Public Bldgs.....	1,800.00
Salary, Asst. Elevator Inspector.....	1,400.00
Salaries, Asst. Building Inspectors.....	3,791.63
Annual report.....	96.16
Auto hire.....	690.16
Automobile (Velie) (in exchange).....	850.00
Automobile repairs and supplies.....	385.85
Blank books and printing.....	587.50
Clerical service.....	2,030.00
Committee expenses.....	205.00
Draughtsmen's services.....	151.75
Engineering.....	103.55
Office supplies.....	636.72
Rent of garage.....	110.00
Telephone.....	45.90
Traveling expenses.....	47.96
Sundry.....	290.09
	<hr/>
	\$15,822.27
Revenue from elevator operators' licenses.....	225.50
	<hr/>

\$15,596.77

CENTRAL DISTRICT COURT

Carpentry.....	\$28.61
Electrical work.....	34.25
Fuel.....	500.00
Gas.....	4.45
Window shades.....	16.23
	<hr/>

\$583.54

CITY HALL

Carpentry.....	\$1,814.38
Plumbing.....	370.64
Painting.....	559.09
Draughting.....	91.00
Elevator repairs.....	100.70
Express, freight and trucking.....	13.82
Gas and electric work.....	148.11
Heating apparatus repairs.....	398.69
Mail chute repairs.....	50.00
Mosaic, terra cotta and marble work.....	82.00
Vault.....	503.82
Sundry.....	66.96
	<hr/>

\$4,198.71

CITY SCALES

Carpentry.....	\$147.74
Plumbing.....	12.22
Express and trucking.....	16.33
Metered water.....	4.00
Rent of land.....	125.00
Scale repairs.....	678.62
Sealing weights.....	7.96
Weighers' supplies.....	15.00

\$1,006.87

CONVENIENCE STATION

Carpentry.....	\$24.19
Plumbing.....	188.52
Painting.....	43.23
Caretakers' labor.....	2,900.30
Caretakers' supplies.....	432.37
Electric light.....	108.00
Electrical work.....	3.09
Express, freight and trucking.....	5.50
Fuel.....	144.78
Heating apparatus repairs.....	53.43
Metered water.....	745.81
Removing ashes.....	10.50
Roof repairs.....	62.47
Tread repairs.....	127.50

\$4,850.19

GENERAL

Care of church and tower clocks.....	\$170.83
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RIFLE RANGE

Carpentry.....	\$71.59
Plumbing.....	100.45
Painting.....	93.97
Caretakers' labor.....	317.62
Caretakers' supplies.....	70.09
Electric light.....	6.00
Electrical work.....	116.62
Express, freight and trucking.....	11.70
Flag-staff repairs.....	80.00
Fuel.....	140.40
Heating apparatus repairs.....	20.81
Target supplies.....	66.89
Telephone.....	53.02
Sundry.....	36.15

\$1,685.31

WORKSHOP

Carpentry.....	\$9.02
Elevator repairs.....	2.76
Heating apparatus repairs.....	39.07

Insurance.....	20.00	
Trucking.....	11.50	
		<u>\$82.35</u>
Total.....		<u>\$28,174.57</u>
Revenue-rent of Central District Court.....		1,500.00
		<u>\$26,674.57</u>

EXPENDITURES FOR SCHOOLHOUSES

(Construction Accounts)

ADAMS SQUARE SCHOOLHOUSE

Granolithic Walk.....	\$129.43	
		<u>\$129.43</u>

ADAMS STREET SCHOOLHOUSE ADDITION

Carpentry.....	\$21.78	
Trucking.....	1.00	
		<u>\$22.78</u>
Previously expended.....	\$21,876.11	
	22.78	
Cost completed.....	\$21,898.89	

BLOOMINGDALE SCHOOLHOUSE ADDITION

Architect (John P. Kingston & Son).....	\$550.03	
Engineering.....	4.39	
Furniture.....	876.16	
General contract (James Miles & Son Co.)....	6,658.75	
General contract extras (James Miles & Son Co.)	549.07	
Hardware.....	277.00	
Heating contract (M. J. Maher & Co.).....	2,376.30	
Heating engineering (S. A. Norcross).....	93.80	
Labor Department employees.....	121.57	
Plumbing contract (M. J. Maher & Co.).....	2,025.20	
Trucking.....	7.50	
Watchman fireman.....	72.50	
Window shades.....	52.00	
Sundry.....	42.67	
		<u>\$13,706.94</u>
Land (Emile Sevestre).....	600.00	
Recording deed and plan.....	4.07	
Engineering.....	7.15	
		<u>\$14,318.16</u>
Previously expended.....	\$13,936.08	
	13,706.94	
Cost completed.....	\$27,643.02	

THE BURNOAT SCHOOLHOUSE

Architect (Clellan Waldo Fisher).....	\$110.00
Electrical work.....	104.00
Engineering.....	164.72
Freight and trucking.....	50.85

Furniture	1,526.60	
General contract (L. Rocheford & Son)	25,865.50	
General contract extras (L. Rocheford & Son)	142.95	
Hardware	861.63	
Heating contract (M. D. Holmes & Sons Co.)	4,654.00	
Heating contract extras (M. D. Holmes & Sons Co.)	33.00	
Heating engineering (S. A. Norcross)	93.08	
Insurance	150.00	
Labor Department employees	50.69	
Window shades	98.50	
Sundry	51.33	
	<hr/>	
	\$33,956.85	
Land (Josiah B. Shattuck)	1,440.00	
Recording deed	2.07	
Constructing street and grading (M. J. Kane)	5,360.06	
	<hr/>	
		\$40,758.98
Previously Expended	\$8,384.44	
	33,956.85	
	<hr/>	
Cost to date	\$42,341.29	
CLASSICAL HIGH SCHOOL		
Engineering	\$4.77	
Recording Bemis taking	1.90	
	<hr/>	
		\$6.67
GATES LANE SCHOOLHOUSE		
Engineering		\$19.43
GATES LANE PORTABLE SCHOOLHOUSE		
Moving building from Greendale (J. W. Bishop Co.)	\$255.00	
Labor Department employees	21.24	
Trucking	2.50	
	<hr/>	
		\$278.74
GENERAL ACCOUNT		
Rent of room, Brewer building	\$541.67	
Rent of gymnasium, Worcester Boys' Club	30.50	
Rent of gymnasium, Young Women's Christian Association	57.00	
Trucking	1.25	
	<hr/>	
		\$630.42
GRAFTON STREET PORTABLE SCHOOLHOUSE		
Moving building from Burncoat Plain (J. W. Bishop Co.)	\$245.00	
Labor Department employees	25.17	
Trucking	6.00	
	<hr/>	
		\$276.17
GRAFTON STREET (PINE HILL ROAD SCHOOLHOUSE)		
Architect (Charles R. Hoyle)	\$500.00	
Engineering	22.49	

Estimating cost.....	9.00	
Recording Hays taking.....	1.50	
		<u>\$532.99</u>
GREENDALE PORTABLE SCHOOLHOUSE		
Moving building from South High (J. W. Bishop Co.).....	\$190.00	
Labor Department employees.....	7.09	
		<u>\$197.09</u>
HARLOW STREET SCHOOLHOUSE ADDITION		
Carpentry.....	\$80.81	
Electric fixtures.....	175.00	
Painting.....	3.88	
Trucking.....	1.00	
		<u>\$260.69</u>
Previously expended.....	\$49,662.87	
	260.69	
Cost completed.....	\$49,923.06	
MALVERN ROAD SCHOOLHOUSE		
Engineering.....		<u>\$1.41</u>
MAY STREET SCHOOLHOUSE SITE		
Engineering.....	\$40.63	
Recording Lincoln taking.....	1.50	
		<u>\$42.13</u>
MIDLAND STREET SCHOOLHOUSE ADDITION		
Furniture.....	\$158.82	
Hardware.....	3.88	
Labor Department employees.....	5.13	
Trucking.....	3.00	
Window shades.....	65.11	
	\$235.44	
Revenue for hardware returned.....	4.95	
	\$230.49	
Granolithic walk.....	348.73	
		<u>\$579.22</u>
Previously expended.....	\$41,904.96	
	230.49	
Cost completed.....	\$42,135.45	
TATNUCK SCHOOLHOUSE		
Granolithic walk and curb.....		<u>\$375.22</u>
TATNUCK PORTABLE SCHOOLHOUSE		
Moving building from Midland Street (J. W. Bishop Co.).....		<u>\$195.00</u>

UPSALA STREET PORTABLE SCHOOLHOUSE

Moving building from Burncoat Plain (J. W. Bishop Co.)	\$240.00
Furniture	114.00
Labor Department employees	29.22
Trucking	8.75

\$391.97**WEST BOYLSTON STREET SCHOOLHOUSE ADDITION**

Electric fixtures		\$125.00
Previously expended	\$24,239.48	
	125.00	

Cost completed \$24,364.48

Total \$59,141.50

EXPENDITURES FOR HIGH SCHOOLS*(Construction Accounts)***NORTH HIGH SCHOOL ADDITION**

Architect (John T. Simpson)	\$1,042.11
Ceiling sash light and frame	237.00
Carpentry materials	141.17
Electric fixtures	487.56
Electrical work	2,058.47
Engineering	.50
Freight and trucking	50.29
Furniture	14,224.12
General contract (Israel Goldman)	24,534.62
General contract extras (Israel Goldman)	5,729.15
Hardware	91.34
Labor Department employees	609.10
Masonry	33.70
Painting	495.01
Plumbing	96.58
Steel lockers	4,849.00
Vent closures	74.00
Ventilator	49.00
Window shades	424.90

\$55,227.62

Granolithic walk 386.09

\$55,613.71Previously expended \$184,287.79
55,227.62

Cost completed \$239,515.41**EXPENDITURES FOR HOSPITALS FOR COMMUNICABLE DISEASES****NEW WARD BUILDING FOR INFECTIOUS DISEASES**

Estimating cost (Edward D. Ward)	\$90.68
Heating, engineering	222.00

\$312.68

Previously expended.....	\$784.95
	<u>312.68</u>
Cost to date.....	\$1,097.63

EXPENDITURES FOR OTHER DEPARTMENTS

GENERAL EXPENSE

ELECTION EXPENSES

Care of polling places.....	\$787.00
Labor Department employees.....	1,580.23
Rent of polling places.....	2,419.99
Repairs voting booths.....	111.82
Trucking.....	<u>479.63</u>

\$5,828.67

DRAFT REGISTRATION

Carpentry.....	\$117.19
Supplies for booths.....	26.73
Trucking.....	<u>57.00</u>

\$200.92

FAREWELL TO SOLDIERS

Reviewing stand.....	<u>\$52.20</u>
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\$5,581.79

INCIDENTAL EXPENSES

NEW RIFLE RANGE ACCOUNT

Stable plans and specifications (L. B. Edwards) ..	\$50.00
Engineering.....	<u>3.70</u>

\$53.70

FIRE DEPARTMENT

NEW FIRE ALARM TELEGRAPH STATION (PROPOSED)

Architect (L. W. Briggs Co.).....		\$300.00
Previously expended.....	\$697.28	
	<u>300.00</u>	

Cost to date..... \$997.28

POLICE DEPARTMENT

NEW POLICE HEADQUARTERS AND CENTRAL DISTRICT COURT BUILDING

Architect (George H. Clemence).....	\$4,705.31
Elevator piping.....	499.16
Engineering.....	51.65
General contract (John J. Power).....	79,807.35
General contract extras (John J. Power).....	1,658.13
General contract (L. Rocheford & Son).....	17,956.25
General contract extras (L. Rocheford & Son)....	88.00
Hardware.....	824.45
Labor Department employees.....	2.25
Plastic sculpture (T. J. McAuliffe).....	265.20
Test borings.....	<u>146.00</u>

Water service and meters	209.59	
Sundry	156.32	
		<u>\$106,319.66</u>
Revenue—cement, etc.	163.76	
		<u>\$106,155.90</u>
Previously expended	\$90,962.64	
	106,155.90	
		<u>\$197,118.54</u>
Cost to date	\$197,118.54	
Total		<u>\$112,091.39</u>

GROSS EXPENDITURES BY BUILDINGS DEPARTMENT

Buildings Department, general	\$26,674.57	
Care of schoolhouses	66,523.23	
Ordinary repairs of schoolhouses	22,849.19	
Permanent improvements of schoolhouses	22,104.51	
Repairs and improvements of engine houses	5,817.15	
Repairs and improvements of police buildings	1,279.21	
Construction of schoolhouses	59,141.50	
Construction of high schools	55,613.71	
Hospitals for communicable diseases	312.68	
General expense	5,581.79	
New Rifle Range account	53.70	
Fire alarm, new building	300.00	
New police stations	106,155.90	
		<u>\$372,407.14</u>

BUILDING OPERATIONS

The building permits issued during the year ending November 30th, 1917, are as follows:

Number of permits issued for new buildings	973
Number of permits issued for alterations and additions	732
	<u>1,705</u>
Total number of permits issued	1,705
Estimated cost for new buildings	\$3,798,006
Estimated cost for alterations and additions	1,040,834
	<u>\$4,838,840</u>
Total estimated cost of operations	\$4,838,840

**COMPARATIVE TABLE OF PERMITS AND ESTIMATED VALUES
OF BUILDING OPERATIONS FOR THE PAST EIGHTEEN
YEARS**

Year ending Nov. 30th.	No. of Permits.	Estimated Cost of Buildings.
1900.....	748	\$1,770,889
1901.....	780	2,023,472
1902.....	671	1,840,108
1903.....	627	2,335,961
1904.....	627	1,871,376
1905.....	789	2,182,940
1906.....	912	2,939,403
1907.....	1,028	3,068,896
1908.....	1,102	2,286,261
1909.....	1,257	4,284,055
1910.....	1,525	3,975,315
1911.....	1,545	4,716,163
1912.....	1,698	6,698,900
1913.....	1,576	4,780,495
1914.....	1,587	5,781,469
1915.....	1,794	4,526,382
1916.....	1,816	6,164,871
1917.....	1,705	4,838,840

**NUMBER AND DESCRIPTION OF NEW BRICK, STONE,
CONCRETE AND METAL BUILDINGS**

19	mercantile and manufacturing buildings
106	garages
1	theater, store and office building
1	Y. M. C. A. building
2	blacksmith shops
3	foundries
1	store, bakery and apartment block
1	sixteen apartment building
2	stores
11	storage buildings
1	stable
1	boiler room building
1	Home for Aged Men
1	office
1	church
1	transformer station
20	miscellaneous

NUMBER AND DESCRIPTION OF NEW WOOD BUILDINGS

240	1-family dwellings
27	2-family dwellings
112	3-family or apartment houses
148	garages and motor cycle shelters
7	stores
115	poultry houses
2	icehouses
10	stables
53	toolhouses
2	manufacturing buildings
3	offices
2	freight houses
2	waiting stations
37	storage buildings
2	churches
1	foundry
37	miscellaneous

800

TABLE SHOWING NUMBER OF PERMITS ISSUED FOR NEW WOOD BUILDINGS BY MONTHS AND WARD FOR THE YEAR ENDING NOVEMBER 30th, 1917

	WARD 1		WARD 2		WARD 3		WARD 4		WARD 5		WARD 6		WARD 7		WARD 8		WARD 9		WARD 10		TOTALS	
	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost
December	11	\$45,190	2	\$6,350	9	\$55,450	2	\$25,005	8	\$25,535	9	\$27,825	9	\$27,825	5	\$27,000	2	\$1,200	48	\$213,855		
January	16	\$7,348	2	425	7	\$4,900	1	60	7	27,020	2	8,000	2	8,000	2	8,000	2	8,000	38	136,963		
February	4	11,410	3	1,100	1	700	10	41,625	2	7,015	2	7,015	2	7,015	2	7,015	1	300	21	62,150		
March	21	96,665	6	12,700	8	12,535	2	5,100	9	39,300	4	13,680	3	270	3	16,550	1	9,000	57	206,800		
April	31	81,106	26	43,806	4	8,075	27	88,408	6	18,865	30	96,935	13	47,785	2	6,525	5	27,800	12	20,246	156	494,550
May	21	38,265	17	22,241	8	12,325	12	16,252	6	470	16	23,070	11	23,820	1	17,000	6	21,810	8	16,710	101	191,983
June	24	24,005	10	4,870	7	45,875	11	9,860	4	10,825	13	18,420	3	14,500	1	80	6	16,340	7	16,180	86	160,705
July	18	82,340	6	1,268	1	50	7	7,915	3	500	13	24,505	6	8,145	1	50	3	5,540	6	10,435	62	105,743
August	14	11,040	9	16,750	7	62,765	7	19,772	2	2,075	12	15,507	6	6,640	2	4,060	4	36,500	68	177,110		
September	16	15,206	9	12,165	2	160	3	6,915	2	5,900	22	24,862	6	8,225	2	2,550	4	5,130	4	885	70	91,998
October	11	31,620	7	2,950	3	12,620	2	4,200	1	15	16	29,183	5	8,572	3	1,700	5	11,315	58	96,975		
November	12	8,061	4	3,100	7	6,642	4	7,410	5	3,410	6	10,275	6	10,275	1	5,500	6	14,775	45	59,173		
TOTALS	197	\$462,156	101	\$127,754	28	\$141,770	101	\$278,590	33	\$70,225	161	\$369,672	73	\$174,432	10	\$26,425	38	\$131,430	58	\$147,546	800	\$1,986,010

TABLE SHOWING NUMBER OF PERMITS ISSUED FOR ALTERATIONS AND ADDITIONS BY MONTHS AND WARDS FOR THE YEAR ENDING NOVEMBER 30th, 1917

	WARD 1		WARD 2		WARD 3		WARD 4		WARD 5		WARD 6		WARD 7		WARD 8		WARD 9		WARD 10		TOTAL			
	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost		
December.....	2	\$5,900	4	\$1,660	10	\$15,455	4	\$1,600	3	\$2,150	.....	.....	3	\$1,720	3	\$3,300	3	\$11,180	3	\$2,285	37	\$45,240
January.....	8	7,975	2	425	11	25,875	3	440	4	1,550	4	\$5,325	1	200	.....	.....	1	125	2	70	36	42,485
February.....	.....	.....	3	19,700	9	20,025	3	6,050	4	6,515	.....	.....	.....	.....	1	1,800	7	22,550	2	550	29	77,290
March.....	6	3,066	8	3,260	14	15,310	15	3,850	5	6,295	7	3,165	3	1,500	4	23,700	7	5,140	5	7,600	74	77,886		
April.....	13	5,102	5	1,460	16	14,315	12	19,070	13	14,130	7	4,945	10	11,175	14	20,912	11	16,785	15	8,485	116	115,319		
May.....	6	11,025	6	2,915	17	16,025	10	6,325	5	5,365	4	2,000	2	700	5	3,550	5	3,525	12	15,164	72	66,594		
June.....	8	36,805	12	29,790	11	82,260	11	2,315	5	1,685	5	10,420	9	25,920	4	900	5	6,330	6	6,897	76	153,272		
July.....	6	4,985	11	4,580	13	82,440	4	1,960	3	205	3	195	7	3,650	4	430	8	6,615	8	9,020	67	113,980		
August.....	6	43,440	6	485	8	23,875	14	6,985	3	1,500	6	5,350	5	10,225	2	46,000	1	3,000	4	2,275	55	147,985		
September.....	11	3,570	5	4,500	6	2,275	3	575	7	4,750	6	20,770	3	3,325	2	240	2	490	11	15,250	56	55,745		
October.....	13	10,320	4	1,282	5	3,186	4	1,650	6	615	6	10,500	9	23,355	3	3,425	3	6,325	8	2,205	67	63,313		
November.....	8	21,075	2	165	14	14,445	1	1,500	3	1,300	5	25,735	6	15,165	5	630	3	1,260	47	81,275
	87	\$158,713	68	\$70,102	134	\$265,286	84	\$51,320	61	\$46,110	53	\$88,905	53	\$96,956	47	\$109,837	59	\$82,565	91	\$71,011	732	\$1,040,334		

TABLE SHOWING NUMBER OF PERMITS ISSUED FOR NEW BUILDINGS BY MONTHS AND WARDS FOR THE YEAR ENDING NOVEMBER 30th, 1917

	WARD 1		WARD 2		WARD 3		WARD 4		WARD 5		WARD 6		WARD 7		WARD 8		WARD 9		WARD 10		TOTAL	
	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost
December.....	15	\$228,290	3	\$6,625	2	\$16,850	12	\$58,400	2	\$25,005	8	\$25,835	10	\$25,025	1	\$1,000	5	\$27,000	2	\$1,200	60	\$418,220
January.....	16	37,348	2	435	2	22,200	7	54,900	1	60	7	27,020	2	8,000	..	..	2	600	3	9,500	42	160,053
February.....	4	11,410	3	1,100	..	..	1	700	3	65,000	10	41,635	2	7,015	..	..	2	18,550	1	300	26	140,700
March.....	22	108,165	6	12,700	..	..	10	13,210	5	40,600	10	51,300	7	22,980	6	276,020	5	17,250	3	9,650	74	546,875
April.....	37	162,781	27	103,905	8	76,775	27	83,408	7	27,865	31	96,980	14	147,785	7	77,550	8	23,650	16	86,086	182	898,685
May.....	27	61,640	20	24,116	5	14,375	14	18,882	9	2,620	18	53,270	14	26,710	3	17,550	7	22,610	12	19,160	129	260,933
June.....	26	77,005	11	5,120	9	47,185	14	15,180	6	12,325	16	47,470	4	44,500	3	13,530	7	16,690	9	46,420	105	325,805
July.....	17	57,340	6	1,268	3	42,950	8	8,265	3	500	14	26,405	7	3,195	1	50	6	46,540	6	10,485	71	195,948
August.....	16	111,825	10	17,750	7	62,765	9	21,373	3	2,975	13	15,757	7	166,640	..	..	5	16,060	4	33,500	74	443,645
September.....	13	15,806	8	12,145	6	102,180	6	13,415	2	5,900	21	23,362	7	3,550	2	2,550	5	6,630	5	1,510	80	192,043
October.....	15	49,720	9	3,600	5	12,970	7	8,250	2	2,215	18	30,599	5	3,572	2	720	3	1,700	9	12,515	75	125,961
November.....	14	8,361	4	3,100	1	700	3	6,792	5	9,410	5	3,410	7	10,275	..	..	3	36,200	3	16,175	55	94,423
	227	\$924,691	109	\$191,764	43	\$400,950	123	\$302,755	43	\$194,675	171	\$442,033	363	\$467,247	25	\$338,970	53	\$233,450	73	\$251,451	973	\$3,793,006

TABLE SHOWING NUMBER OF PERMITS ISSUED FOR NEW BRICK, STONE AND CONCRETE BUILDINGS
BY MONTHS AND WARDS, FOR THE YEAR ENDING NOVEMBER 30th, 1917.

	WARD 1		WARD 2		WARD 3		WARD 4		WARD 5		WARD 6		WARD 7		WARD 8		WARD 9		WARD 10		TOTALS	
	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost	Number	Estimated Cost
December	4	\$183,100	1	\$275	2	\$16,850	3	\$2,950					1	\$200	1	\$1,000					12	\$204,875
January			1	\$2,000											2	\$ 600	1	\$1,500			4	24,100
February									3	\$65,000							2	13,550			5	78,550
March	1	6,500					2	675	3	35,500	1	\$12,000			3	275,750	2	700	2	650	17	341,075
April	6	81,675	1	60,000	4	70,700			1	9,000	1	45	1	100,000	5	71,025	2	650	5	66,040	26	459,135
May	6	23,375	3	1,875	2	2,050	2	2,600	3	2,150	2	30,200	3	2,890	2	550	1	800	4	2,450	23	68,940
June	2	53,000	1	250	2	1,510	3	5,900	2	1,700	3	29,050	1	30,000	2	13,500	1	350	2	30,240	19	164,900
July	1	5,000			2	42,900	1	350			1	900	1	50			3	41,000			9	90,200
August	2	100,735	1	1,000			2	1,600	1	900	1	250	1	150,000			3	12,000			11	266,535
September	2	600			3	102,000	3	6,500					1	325					1	625	10	110,050
October	4	18,200	2	650	2	450	5	4,050	1	2,200	2	1,416			2	720			4	1,200	22	28,886
November	2	300			1	700	1	150	1	2,000			2	30,000			1	700	2	1,400	10	35,250
TOTALS	30	\$472,535	9	\$64,050	19	\$259,160	22	\$24,175	15	\$118,450	11	\$73,831	14	\$322,765	15	\$362,545	17	\$70,350	21	104,105	173	\$1,871,996

EXPENDITURES FOR CARE OF SCHOOLHOUSES FOR YEAR ENDING NOVEMBER 30, 1917

BUILDING	Total Payments	Fuel	Cleaning	Janitor's Supplies	Gas Light	Electric Light	Electric Power	Water	Street Sprinkling	Flags and Repairs	Gloves, etc.	Storekeeper's Salary	Care and Repair of Closets	Sundry
Abbott St.	\$2,009.19	\$1,675.14	\$89.92	\$32.41	\$73.36	\$10.00		\$206.37	\$6.33		\$0.51			\$20.15
Adams Square	487.05	487.05	38.89	49.49		20.64		8.53						11.29
Adams Street	848.17	737.71	46.89	24.55	4.09	2.96		25.32						7.15
All Schools	2,747.66		80.55	50.56		11.50		32.90	\$100.85	\$14.40		\$1,087.15	\$700.85	*\$20.41
Andover St.	352.57	203.18	25.90	12.48	29.56	9.52		41.73	24.75					5.45
Ash St.	285.84	116.77	87.61	32.76		21.44		33.81			.66			6.59
Belmont St.	1,738.26	1,220.14	107.92	74.90	55.31	116.44		98.12	35.96		8.67			22.80
Belmont St. Portable	55.80	55.80								1.00				15.98
Blithewood Ave.	405.76	311.29	20.80	26.70		21.12		8.37						16.97
Blithewood Ave. Portables	201.76	199.68		2.13				16.90	11.00		30.15			40.40
Bloomington	1,844.50	1,141.21	69.40	40.03	18.84	18.84		4.00	11.28		23.00			18.43
Burncoat School	328.43	176.56		115.26		.04								12.41
Burncoat Plain	103.52	85.59												4.94
Burncoat Plain Portables	85.86	85.86												5.80
Cambridge St. No. 1	190.97		62.78	57.34		23.08		21.15	7.26		1.95			11.92
Cambridge St. No. 2	816.87	656.03	37.11	49.54	55.91			13.34						23.85
Canterbury St. No. 1	1,234.17	1,050.64	52.92	40.08		25.88		28.40	9.35					26.90
Canterbury St. No. 2	227.61	107.22	38.24	33.12		1.00		33.92	7.95		.86			28.18
Canterbury St. Portable	73.20	68.73		4.47										9.90
Chandler St.	1,134.40	821.31	69.80	39.91	52.48	47.80	23.86	23.24	16.08		14.00			11.92
Classical High	4,058.85	2,913.72	155.05	139.31	605.64	26.40		138.09	22.50		14.79			23.85
Columbus Park	821.85	709.24	37.24	21.70		5.20	1.06	12.06	12.46		2.60			20.80
Dartmouth St.	1,823.84	1,328.84	105.75	32.95	27.31	10.44		38.82	12.46		.75			28.18
Dix St. No. 1	368.97	227.77	47.15	32.74				44.76	6.65					9.90
Dix St. No. 2	334.74	210.10	23.24	24.13		19.56		40.04	9.98					7.69
Downing St.	278.82	86.50	89.73	30.63	71.11			16.74	10.40					19.75
East Kendall St.	1,067.88	897.61	71.15	49.91	2.38	11.44		27.76			3.96			12.88
Edgeworth St.	1,213.72	917.33	114.18	84.26		49.44		25.79			7.32			15.40
Elizabeth St.	709.89	388.24	111.48	67.26	74.98			32.46	13.20		.80			7.77
Freeland St.	882.27	711.87	56.09	44.49		.28		62.48	25.69					11.45
Gage St.	1,195.27	924.87	86.45	48.99	1.91	53.90	8.28	82.48	6.82		1.05			10.64
Gates Lane	1,396.65	1,045.23	101.75	68.56	99.64			31.17	13.65		3.90			32.00
Gates Lane Portable	75			.75										
Grafton St. No. 1	331.20	182.49	48.41	31.86	37.64			10.34			2.37			7.74
Grafton St. No. 2	1,005.69	792.04	65.16	29.06	10.47			72.68	15.66					20.62
Grafton St. Portable	5.28	4.68		.60										
Greendale No. 1	91.79	23.82	36.43	14.64				15.00						1.70
Greendale No. 2	325.90	193.66	42.82	34.94		29.30		12.48						12.40
Greendale Portable	44.11	40.23	3.88											
Harlow	1,406.01	1,157.43	78.57	41.49	.08	2.53		22.06	19.80		30.86			53.72

	3,135.96	2,012.01	149.98	160.17	587.83	49.28	136.94	20.88	12.90	17.08
High School of Commerce										
Jamez View	63.68	28.71	19.06	19.06			5.54			8.00
Lake View	87.24	448.71	58.16	49.66	15.20		12.51		8.96	8.71
Lamarine St. No. 1	1,971.09	146.70	130.69	66.56			17.28	15.04		3.25
Lamarine St. No. 2	571.49	73.99	63.69	46.10			38.88	20.86	1.00	1.54
Lamarine St. No. 3	1,878.88	1,616.12	68.82	27.49	81.64		28.28	18.89	14.18	7.69
Lodge St. No. 1	1,140.80	918.31	68.82	64.53	58.56	69.17	18.48	37.89	8.08	3.95
Lodge St. No. 2	496.77	173.90	68.81	17.80	126.28		25.87	17.66	10.48	2.84
Lee St.	536.74	124.10	85.98	10.85			11.80		10.19	10.19
Leeside	288.82	128.99	81.87	8.83			27.06	6.16	.48	6.74
Maiters Road	288.82	128.99	81.87	8.83	.48		27.06	6.16		6.74
Midland St.	246.95	91.72	80.80	23.87	6.96		88.52	11.91	.50	8.48
Millbury St. No. 1	534.97	419.11	66.74	42.70	27.96		27.48	10.53		1.99
Millbury St. No. 2	354.19	273.11	97.48	95.15			27.48	4.96		3.12
Millbury St. No. 3	457.47	388.18	33.54	35.49			9.69			11.02
Millbury St. No. 4	282.32	178.91	38.09	23.13			30.97			18.28
New York Ave. St.	316.39	162.81	44.99	42.03			40.71	11.28	1.00	1.96
North High No. 1	903.24	547.35	100.48	109.44	24.24		31.18	13.60	2.23	18.28
North High No. 2	3,172.22	1,698.85	80.48	252.12	246.80	287.86	888.45	26.94	188.60	4.71
North High No. 3	122.04	38.04	89.91	16.39			7.81	8.20		9.56
North Worcester	122.04	38.04	89.91	16.39			7.81	8.20		9.56
Orford St.	290.00	121.10	49.51	21.74	15.86	18.56	19.86	13.46	1.79	8.00
Providence St. No. 1	807.89	450.21	79.14	31.76	188.73		15.13	14.41	10.28	18.17
Providence St. No. 2	1,280.11	984.43	62.09	43.23	77.51		58.59	11.44	26.63	19.19
Providence St. Portable	78.33	72.46		1.47						
Quinsigamond No. 1	681.88	370.86	61.58	26.64	63.72		82.71	15.24	1.28	6.15
Quinsigamond No. 2	776.87	563.12	49.87	44.89	24.86		85.73			8.40
Quinsigamond No. 3	269.89	168.12	29.70	22.87	27.40		15.74			
Rice Square	1,849.60	911.69	100.49	66.02	41.15	155.61	21.73	17.50	6.46	28.84
Salem St.	511.71	848.33	58.88	24.12	8.48		41.64	8.28	9.68	7.61
Saver St.	948.41	808.30	84.39	34.12	15.71		52.84	5.84		8.80
South High	1,639.19	1,060.08	60.48	128.58	8.02		176.44	18.60	59.91	5.89
Sycamore St.	910.05	641.01	44.22	12.88	106.64	22.59	116.67	5.84		7.62
Tannock	1,193.60	1,017.07	98.04	27.66	23.84		13.24	19.85		8.80
Tannock Portable	87.11	87.11								
Thomas St.	885.69	726.61	55.62	37.83			28.84	21.40		14.96
Trowbridgeville	278.59	196.43	17.17	29.73	5.42		5.97	5.83		18.98
Union Hill	627.85	468.96	86.66	47.15	8.18		9.67	7.15	1.50	5.39
Union Hill Portable	71.90	71.90								
Ursula St.	313.98	125.54	56.14	43.41	15.50		51.53	8.25	1.48	18.59
Walnut St.	1,778.98	1,520.98	125.06	21.80	80.76		25.00	8.80		19.46
Ward St.	293.92	84.39	44.49	53.64	47.93		23.68	18.48	85	
Washington St.	77.94	86.25	31.21	4.82			4.00	2.16		
Webster Square	599.41	421.00	26.31	12.55	45.95		4.00	7.43	75	13.56
West Boylston St.	712.68	509.88	66.98	41.68			21.96	9.00	26.92	18.01
Winlow St.	278.64	98.33	74.62	28.32	23.24		26.80	18.10	15.15	19.16
Woodland St.	588.58	44.74	44.74	28.32	.96	19.45	20.33	11.11	1.25	16.82
Woodland St. No. 1	770.56	194.51	14.68	10.07			55.50	10.05		2.80
Woodland St. No. 2	290.63									

*Includes Trucking \$246.01 and Coal Analysis \$276.40

\$66,623.23 \$45,576.37 \$4,585.18 \$2,646.78 \$2,045.58 \$2,133.70 \$653.72 \$3,149.40 \$820.14 \$324.50 \$505.88 \$1,087.18 \$700.65 \$1,896.23

EXPENDITURES FOR ORDINARY REPAIRS OF SCHOOLHOUSES FOR THE YEAR ENDING NOVEMBER 30, 1917

BUILDING	Total Payments	Carpenters Labor and Material	Plumbers Labor and Material	Painters Labor and Material	Masons Labor and Material	Heating Plant	Gas and Electric Work	Roofs	Windows Shades	Furniture Repairs	Black-boards	Concrete Repairs and Grading	Trucking, Freight and Express	Sundry
Abbot St.	\$462.57	\$47.84	\$42.56	\$91.26	\$202.49	\$71.98	\$4.57	\$3.45	\$1.62				\$3.00	
Adams Square	196.29	177.19	17.12		37.36	7.85								\$5.00
All Schools	8,708.81	117.50	47.91	1.07	7.90	9.00	1.47						12.68	*1,178.24
Anderson St.	1,470.89	885.23	227.82			96.00	13.50							25.00
Ash St.	410.49	37.89	50.59		40.86	6.45		211.10					1.60	
Belmont St. Portable	384.48	182.66	84.87	1.41	10.00	112.62	2.88							
Belmont St.	24.83	4.30				15.21								
Bilthorod Ave. Portables	130.22	60.22	29.00			30.00								
Bilthorod Ave. Portables	90.85	28.27	31.87			60.08								
Bloomington	61.71	26.54	15.89			7.95								
Burncoat Plain	55.44	5.40	9.85			8.90								
Burncoat Plain Portables	26.53	5.40				7.95								
Cambridge St. No. 1	307.66	56.32	58.92	100.86		21.13		27.25						6.16
Cambridge St. No. 2	192.71	57.07	38.92			42.49	16.22							
Cambridge St. No. 2	419.12	108.48	31.85	1.68	6.19	31.60	1.47							
Casterbury St. No. 2	102.79	22.50	54.10	1.88		210.74	5.88							
Casterbury St. Portable	33.40	11.98	2.74			8.60								
Chandler St.	237.70	143.29	32.64			18.70		11.50						
Chemical High	1,182.16	508.76	119.17	84	123.84	265.14	10.44	55.20	70.86					
Columbus Park	44.08	13.48	19.05			8.40	8.15							
Dartmouth St.	276.90	143.91	31.58	40.16	9.90	25.31		41.31						
Dir St. No. 1	178.61	66.80	55.87			13.58								3.25
Dir St. No. 2	148.23	23.59	83.85			88.94								1.25
Downing St.	144.44	44.23	22.18			50.68								
East Kendall St.	162.94	90.41	24.89			15.65	5.20	17.79	3.55					
Edgeworth St.	534.47	125.45	98.37	25	22.75	15.65	2.60	23.20	6.45					
Elizabeth St.	342.59	60.67	41.49	17		251.00		131.99	35.87					
Freeland St.	256.16	102.27	42.15	47.78	20.75	5.85								
Freeland St.	426.38	90.79	112.43			123.32		88.78	7.79					
Gage St.	378.84	95.31	67.33			90.46	2.41							
Gates Lane	11.20	8.75	1.45											
Gates Lane Portable	206.18	63.23	16.86			80.90		46.99	2.45					
Grafton St. No. 1	240.86	77.34	68.58	1.13		67.26								
Grafton St. No. 2	23.16	23.16												
Grafton St. Portable	23.16	23.16												
Greendale, No. 1	84.71	84.71				11.43		4.15	1.70					
Greendale, No. 2	191.55	45.84	37.18			77.13	15							
Greendale Portable	80.07	9.87	4.75			5.30								
Harlow St.	102.77	73.31	15.40	84		7.72	2.60							
High School of Commerce	671.62	218.91	118.56	91.15	83.60	112.62	80.05		3.73					
Jamestown	149.53	30.14	63.84		5.70	43.40								

Lake View	110.08	14.61	10.07	64.90	28.84	15.80	7.45	54.90	2.00					
Lanartine St. No. 1	347.80	85.16	30.90	77.05	28.84	14.12	8.00	64.90	1.50					
Lanartine St. No. 2	97.50	57.21	36.00	14.75										
Lanartine St. No. 3	188.86	41.42	50.50	53.48	50			8.95	18.00					
Ledge St. No. 1	204.84	65.48	31.88	43.47	94.88	7.09								
Ledge St. No. 2	184.04	61.86	26.04	23.76	20.45									
Lee St.	59.32	14.08	7.68	103.53										
Leulow St.	245.91	64.59	44.69	108.53	5.17	3.87		31.20	10.00					
Malvern Road	270.40	80.90	52.57	68.53				41.40	12.00					
Mason St.	121.97	11.08	23.15	52.70	5.16	11.28	8.00		1.50					
Midland St.	151.77	96.87	2.51	8.00					5.00					
Millbury St. No. 1	308.43	54.27	76.90	85.99	30	21.84	5.83	5.80						
Millbury St. No. 2	147.82	16.48	13.32	17.62	18.27		4.17	2.90						
Millbury St. No. 3	116.87	40.67	20.43	39.55			6.80							
Millbury St. No. 4	361.87	79.17	58.67	106.79	45	11.12	5.91	9.86	11.60					
New Woodland St.	252.76	69.40	19.70	106.79				82.80						
North High No. 1	892.29	36.24	33.04	124.60					5.00					
North High No. 2	438.37	93.17	174.83	77.80	192.95	8.79			5.00					
North Pond	186.98	31.96	13.52	97.77	44.87				7.00					
North Worcester	61.10	1.88	12.20	70.75			6.80		1.75					
Other Departments	24.59			44.67			15.05							
Oxford St.	291.99	187.92	30.69	46.59	74.05		2.75							
Providence St. No. 1	158.18	83.18	30.32	64.18				7.25	18.25					
Providence St. No. 2	386.22	29.97	50.88	94.63	1.49		5.55	54.85						
Providence St. Portable	21.50	15.23	8.25	4.50	28.50			68.10						
Quinsigamond No. 1	323.98	72.77	107.41	112.87		1.77								
Quinsigamond No. 2	263.98	87.43	82.99	56.62	4.64	4.74	5.00	15.95						
Quinsigamond No. 3	78.02	10.52	10.25	54.25		3.84	5.00	75.60	3.00					
Rice Square	372.58	79.77	29.84	161.89	47.85		8.00							
Salem St.	90.11	40.78	21.08	14.35					3.50					
Sever St.	279.50	189.83	37.79	15.05		13.96			2.25					
Shop Maintenance	685.65			116.06		1.80			**685.65					
South High	137.24	24.49	86.78	42.42				15.00						
Sycamore St.	191.92	62.74	29.61	46.78	4.20	26.74			6.00					
Tatnuck	103.71	73.26	3.88	20.30			1.80							
Tatnuck Portable	186.52	39.69	17.63	116.80			6.00	5.40	1.50					
Thomas St.	268.96	61.01	9.55	191.01					1.50					
Trowbridgeville	139.79	79.88	38.69	10.10	.05	5.84			10.00					
Union Hill Portable	20.38	3.95		16.88										
Uxalis St.	145.86	36.43	41.90	58.88			8.20							
Uxalis St. Portable	154.65	6.87							1.00					
Walnut St.	381.41	62.11	69	54.50	8.04	5.90								
Washington St.	68.68	17.88	23.12	55.84	5.90	200.91	15.65							
Webster Square	119.76	26.12	2.88	58.66	36									
West Boylston St.	208.47	56.05	18.80	27.15	38.66			25.20	4.50					
Winlow St.	278.61	128.89	25.25	84.28			6.80	44.30	1.25					
Woodland St. No. 1	285.08	80.40	34.68	23.07	8.45	16.70			3.50					
Woodland St. No. 2	96.91	18.99	86.47	21.90		17.81		11.70	3.75					
				26.00										
	\$22,949.19	\$7,066.72	\$9,512.66	\$785.88	\$1,009.64	\$4,816.35	\$232.17	\$1,418.38	\$377.05	\$585.67	\$357.75	\$664.88	\$144.27	\$12,077.82

*Auto, Repairs, Supplies and Rent of Garage **Includes Fuel \$451.42 †Includes Flagstaff Repairs \$190.00

EXPENDITURES FOR PERMANENT IMPROVEMENTS OF SCHOOLHOUSES FOR THE YEAR ENDING NOV. 30, 1917

BUILDING	BUILDING											Sundry		
	Total	Payments	Carpenters Labor and Material	Plumbers Labor and Material	Painters Labor and Material	Masons Labor and Material	Heating Plant	Gas and Electric Work	Fire Escape	Window Shades	Furniture		Blackboards	Flag Pole	Trucking, Freight and Express
Abbott St.	\$240.41	\$61.42					\$133.91				\$396.58	\$263.21		\$2.50
Adams St.	636.05	70.33			\$2.38		26.79	\$319.74			15.00	36.00		4.00
Adams St.	146.90	80.35	\$2.50				10.60				613.28			2.95
All Schools	637.90	13.74									14.25			10.83
Arduover St.	201.84	3.64	20.85			\$152.56	8.04				108.42			8.00
Ash St.	119.73						11.36				25.75			
Belmont St.	144.33	100.91			1.50		13.47							1.75
Belmont St. Portable														
Blithewood Ave.	6.50				1.76									
Bloomington	120.63	16.73						39.50			4.75			
Cambridge St. No. 1	300.42	59					274.68				64.40			
Cambridge St. No. 2	142.53						142.53				25.15			
Canterbury St. No. 1	45.44					36.35	9.09							
Canterbury St. Portable	9.00									9.00				
Chandler St.	434.42						5.01	429.41						
Classical High	168.23	1.38	23.91			69.95	19.99	40.00			11.50			1.50
Columbus Park	539.50	1.45	377.72				11.32	112.41			27.00			
Dartmouth St.	102.00		55.17				22.83				84.00			
Dix St. No. 1	83.55	59	19.04				39.17				24.75			
Dix St. No. 2	7.39						7.39							
Downing St.	15.00									15.00				
East Kendall St.	27.98						27.98							
Edgeworth St.	58.87	15.27					23.10	40.00			18.00			3.50
Elizabeth St.	912.33		3.85				39.10	746.38			123.00			
Fleeland St.	133.49	107.23			1.00		12.76				9.75			2.75
Gage St.	143.61	85.20	53.84				14.57				85.50			
Gates Lane	36.09						22.49				13.60			
Grafton St. No. 1	691.02	138.61			3.75		16.65	1.53			530.01			2.00
Grafton St. No. 2	83.38		3.85				23.00							
Greendale No. 1	13.00									13.00				
Greendale No. 2	6.65						6.65							
Greendale Portable	1.38													
Harlow St.	108.21	27.00	3.85		1.05		2.00	19.70			32.00			7.50
High School of Commerce	1,733.83	634.63	1.45		379.31		57.04				636.90			3.50
Lake View	1,63.10	26.40					41.70				41.70			78.45
Lamarine St. No. 1	236.15	35.29			.31						98.75			.75

Lemartine St. No. 2	23.30				23.30									
Ledge St. No. 1	3,604.92	286.91	5.04		2,431.89						24.75	851.08		
Ledge St. No. 2	151.84	169.87	8.33								60.00			
Lee St.	87.79	23.36			4.43						19.00			
Ludlow St.	19.00										1.75			
Malvern Rd.	92.48	6.12			15.91						26.00	4.13		
Mason St.	283.40	19.18	25.27		2.00				\$20.20		6.75	2.25		
Midland St.	52.13	12.07			7.87				\$242.00		6.75			
Millbury St. No. 1	7.97		1.88											
Millbury St. No. 2	52.27	28.07												
Millbury St. No. 4	424.58	26.40	1.45		17.33	853.70				13.50	9.20	1.50		
North High No. 1	273.92	103.24	11.02	9.91	17.81					12.67	117.91	1.00		
North High No. 2	197.43	2.25	183.17	2.01										
North Worcester	27.70									27.70				
Oxford St.	2,392.43	419.84	943.73	90.24	6.53	46.48				12.00	591.67	21.50		
Providence St. No. 1	12.00				16.65					7.50				
Providence St. No. 2	24.15									7.00				
Quinsigamond No. 1	24.25	15.75								19.00		1.50		
Quinsigamond No. 2	24.52	5.52			180.07					10.00				
Quinsigamond No. 3	197.07	6.62		.88	137.16					57.00		\$126.00		
Rice Sq.	423.74		9.58						\$104.00			.75		
Salem St.	760.91	122.12		2.37	271.88					27.00	336.29			
Sever St.	20.92	5.99			14.98									
South High	444.04	35.56	184.56		127.80	141.12						5.00		
Sycamore St.	21.15	1.35	15.96	.37		3.49								
Tatnuck	13.36	1.78			9.53					2.00				
Tatnuck Portable	94.49	81.96		.13						8.10		12.50		
Thomas St.	783.95	15.70			20.35	743.67						1.00		
Trowbridgeville	1.25			1.25										
Union Hill	11.13													
Ursula St.	20.54				11.13									
Walnut St.	29.25	6.49	1.37		20.54					1.20				
Ward St.	2,723.30	423.07	2,069.22	18.65	11.69	3.50						54.00		
Webster Sq.	26.07	14.81			10.26					6.00		1.00		
West Boylston St.	194.79	156.65		4.25	16.94	9.91				17.25		1.00		
Windsor St.	55.27				37.43					7.50				
Woodland St. No. 1	31.00	17.60			13.40									
Woodland St. No. 2	31.00													
	\$22,104.61	\$9,380.19	\$3,913.40	\$597.62	\$686.23	\$4,080.78	\$3,453.67	\$242.00	\$20.20	\$2,861.70	\$3,843.07	\$104.00	\$158.96	\$338.69

*Master clock changes and rectifier.

EXPENDITURES FOR REPAIRS AND IMPROVEMENTS OF ENGINE HOUSES FOR THE YEAR ENDING
NOVEMBER 30, 1917

BUILDING	EXPENDITURES FOR REPAIRS AND IMPROVEMENTS OF ENGINE HOUSES FOR THE YEAR ENDING NOVEMBER 30, 1917											Sundry	
	Total	Carpenters	Plumbers	Painters	Masons	Heating Plant	Gas and Electric Work	Roofs	Windows	Iron	Repairs		Draughting	Trucking, Freight and Express
Beacon St.	\$85.54	\$39.69	\$20.66			\$20.46	\$3.48						\$1.25
Burncoat St.	291.91	6.52				64.37	221.02						
Cambridge St.	283.84		9.95			27.67	246.22						
Eastern Ave.	648.93	54.02	15.20			16.69	346.02		\$216.00				1.00
Franklin St.	114.91	35.35	19.25		\$5.66	53.15							1.50
General.	23.00					23.00							
Headquarters	1,161.20	343.89	55.43	\$4.59	79.38	88.89	40.09	\$0.20	\$0.20	\$437.00	\$109.00	1.50	\$1.23
John St.	78.02	31.52	10.55		12.44	20.76						1.00	1.75
Lamarine St.	262.70	1.05	17.39	.25		24.74	219.27						
Millbury St.	93.45	29.52	2.29	12.30		10.09					36.00		3.25
Pleasant St.	809.82	373.03	3.80	147.41	28.05	15.83					30.50		
Portland St.	149.30	84.59	8.76			13.20	1.45	\$200.00	11.65				1.75
Prescott St.	497.46	51.05	26.52		13.30	17.67	868.22	18.45					2.25
Providence St.	677.23	62.42	142.68	.25		13.15	338.62						5.85
School St.	63.72	22.12	9.27			31.53							.75
Union Sq.	193.17	36.66	11.01	103.34	10.55	31.11							
Webster St.	61.10	13.30	33.45	.87		13.50	.48						
West Boylston St.	86.12	33.61	22.02	.46		26.78							3.25
Woodland St.	235.74		6.69			18.04	211.01						
	\$5,817.15	\$1,218.34	\$414.92	\$269.47	\$149.38	\$590.23	\$1,995.89	\$258.00	\$11.85	\$216.00	\$437.00	\$176.50	\$23.35
													\$117.23

*Granolithic walk and curb.

EXPENDITURES FOR REPAIRS AND IMPROVEMENTS OF POLICE BUILDINGS FOR THE YEAR END-
ING NOVEMBER 30, 1917

BUILDING	Total Payments	Carpenters Labor and Material	Plumbers Labor and Material	Painters and Material	Heating Plants	Gas and Electric Work	Roofs	Draughting	Signs	Trucking	Sundry
Station No. 1—Waldo St.....	\$328.71	\$108.47	\$117.37	.....	\$67.89	.....	\$84.98	.....	.....	.....	.....
Station No. 2—Lamartine St.....	102.51	27.82	24.88	.....	18.53	\$29.95	.....	.....	.....	\$ .50	\$.83
Sub-station Precinct No. 1—Lake View	23.71	17.53	3.81	\$.32	.....	.....	.....	.....	.....	2.00	.....
Sub-station Precinct No. 3—Grand St.	35.15	.....	2.40	82.75	.....	.....	.....	.....	.....	.....	.....
Sub-station Precinct No. 4—Grove St..	789.13	314.26	259.85	.51	.90	123.11	.....	\$40.00	\$18.00	11.50	21.00
	\$1,279.21	\$468.13	\$408.31	\$33.58	\$87.82	\$153.06	\$34.98	\$40.00	\$18.00	\$14.00	\$21.83

INSPECTION SERVICE

Those of this department who devote practically their entire time to this division of our work have rendered most efficient service and with praiseworthy industry. The new building ordinances have added to the amount of work done under this service by necessitating the inspection of all piping installed for the conveyance of gas for illumination and fuel purposes as well as the testing of these pipes and the inspection of gas fixtures and gas appliances. To adequately cope with the requirements of this extra inspection work it will be necessary in the coming year to increase the force by at least two additional inspectors, their entire time to be devoted to this latter branch of the inspection service.

In accordance with requirements of state law the various hotels and lodging houses were inspected during the month of May by the assistant superintendent of public buildings and their conditions relative to safety in case of fire duly reported to the chief of the Massachusetts District Police. The assistant superintendent together with three assistant building inspectors have during the course of the year made 8,946 inspections at the various buildings in course of construction, alteration or material repair. Quite a few violations of the city ordinances have been observed by the inspectors and with only four exceptions necessary corrections have been made without resorting to processes of law. We are encouraged to believe that the four exceptions referred to will be remedied in the very near future in the same amiable manner.

In the matter of the elevator inspection service I would report the number of elevators in active service in the city at this date is 926, not including 41 in private dwellings. There are 38 in addition to these which are not in active service, making a total number of 1,005 serviceable equipments of this kind in the city. Of the active machines not including those in private dwellings, 193 are passenger elevators and 733 used for freight purposes. 2,283 inspections have been made during the past year as set forth in the following table:

ELEVATOR INSPECTIONS
FROM DECEMBER 1, 1916, TO NOVEMBER 30, 1917.

	Hydraulic Passenger	Hydraulic Freight	Electric Passenger	Electric Freight	Belt Driven Freight	Totals
December	34	26	15	21	9	105
January	43	41	20	34	18	156
February	31	52	12	29	34	158
March	36	71	14	23	10	154
April	36	92	16	26	22	192
May	32	78	14	11	25	160
June	23	123	6	28	30	210
July	34	146	12	20	33	245
August	48	103	24	58	17	250
September	42	102	21	34	18	217
October	32	122	36	52	8	250
November	43	110	18	27	3	201
Totals	434	1,066	208	363	227	2,298

There have been 27 old machines removed during the year and 49 new elevators installed, the estimated value of the new construction being \$99,425.

With the earnest wish that the recommendations given in this report will be carefully considered, and wherever possible, favorably acted upon; that the various tabulations of the properties in our charge, the expenditures made thereon both in the matter of repairs, improvements and new work, will clearly indicate the manner in which the funds with which we have been entrusted, have been expended, I am

Respectfully yours,
GEORGE C. HALCOTT,
Superintendent of Public Buildings.

ANNUAL REPORT
OF THE
WATER COMMISSIONER

THE WATER REGISTRAR, AND THE
CITY ENGINEER

OF THE
CITY OF WORCESTER

FOR THE
YEAR ENDING NOVEMBER 30, 1917



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF THE WATER COMMISSIONER

To the Honorable City Council of the City of Worcester:—

Gentlemen: In accordance with Section 10, Chapter 41 of the City Ordinances, the report of the Water Commissioner for the year ending November 30, 1917, is respectfully submitted.

SUPPLY

The storage reservoirs were completely filled in the spring of 1917 and on December 1, 1917, contained these quantities of water in millions of gallons.

HIGH SERVICE

Lynde Brook	546
Kettle Brook	397
Total	<u>943</u>

LOW SERVICE

Tatnuck Brook No. 1	363
Tatnuck Brook No. 2	219
Kendall Reservoir	643
Total	<u>1,225</u>

In this report of last year it was recommended that the Wachusett pumping plant should not be discontinued until Pine Hill Reservoir had been completed and filled, but the Metropolitan Water Board has insisted that the pumping plant be taken down at as early a date as practicable. At a conference held in the office of His Honor the Mayor at which were present Mayor Holmes, the writer and representatives of the Metropolitan Water Board, it was stated that the board insisted on the removal of the plant notwithstanding the expressed desires of the Mayor and Water Commissioner to retain it for emergency use.

The representatives of the city of Worcester were unable to secure permission to maintain the plant, so His Honor the Mayor directed the Water Commissioner to remove it.

This has not been done as yet because of the difficulty of finding men to do the work.

WATER SUPPLY FOR AREAS HIGHER THAN THE RESERVOIRS

An appropriation of fifty thousand dollars was made in 1916 for the purpose of beginning the construction of a pumping plant, pipe line and reservoir to be located on Howland Hill in Tatnuck.

Beyond purchasing a part of the pipe necessary for the line, nothing has been done.

It was virtually impossible to find the necessary labor to do this work and the price of necessary materials was so inflated by the war that the work would probably have cost from two to three times the original amount estimated.

EQUIPMENT

There has been no work in Worcester for the Austin Trenching Machine so it has been rented to the Water Department of New London and Hartford, Conn.

There has been received in rental of this machine approximately \$4,000.

The trenching machine and back filler are now carefully housed and stored in the yard of the Hartford Water Department with every prospect that they will be largely used in that city in 1918.

AUTOMOBILES AND HORSE-DRAWN APPARATUS

There are now twelve cars in use by this department, nine of which are used for trucking ranging in size from a light Ford truck to the big Pope Hartford with a capacity of five tons.

These trucks are constantly in use except when there are heavy snows, and are subjected to very severe usage.

Some of them have been in use for five years, and are very close to the time when they cannot be economically run.

There should be at least two replacements in 1918 and one truck of one-ton capacity should be added to the outfit.

A very valuable addition to the equipment was made in 1917 by the purchase of a Selden two-ton chassis on which was constructed a special body designed and built by the men in the department.

The car is used for emergency purposes and is equipped with necessary tools for handling broken water mains, hydrants, etc., and carries a card index system giving the location of all gate valves and hydrants. It is ready for service at all hours of the day or night to protect the city from trouble to the water system. Fortunately calls for its use for that purpose have been infrequent except in cases

where hydrants have been broken by drivers of automobiles or horses.

The lines of water pipes laid in the last ten years or more have given practically no trouble and should not for a long time as they were laid with the best materials and workmanship.

The department is now entirely motorized with the exception of two horse-drawn wagons which are used for small jobs with short hauls.

FORESTRY

It has been the practice for several years to plant young trees on the water sheds with a view of securing a return in value of the lumber.

Many acres of Worcester water sheds have been so treated, there are hundreds of thousands of young pines growing which will be very valuable in later years.

A nursery for pines has been established at Kendall Reservoir so they can be raised from the seed and transplanted at the age of three or four years.

In some foreign countries an annual revenue of about twelve dollars per acre is realized from the lumber raised in its forests.

There is no reason why Worcester with its large water shed areas should not have some great forests which will yield a good revenue and still be kept covered by younger trees coming along.

A large start in this direction has already been made and it only remains to future generations to carry on a work which will result in furnishing the citizens of Worcester with magnificent forests which can be used for recreation and for business purposes.

WAR GARDENS

Owing to the scarcity and high prices of vegetables it was thought advisable to plant some of the unused lands at Kendall Reservoir, not with the idea of making money but to help in a general way to relieve the shortage of food.

About fifteen acres were planted with potatoes, squash, cabbages, beets, etc., yielding a crop which was marketed largely among the employees of the department. A sufficient revenue was derived to pay the entire cost of the farming and of the implements which were purchased for that work.

PIPE LINES

Experience furnishes a warning that the present high service pipe system is again becoming overtaxed.

The great manufacturing section east of Main Street is supplied by a sixteen-inch high service pipe running from Webster Square, through Cambridge Street over Providence Street and Eastern Avenue to Belmont Hill.

Fortunately much of this territory has a low service supply, upon which the draft is largely placed, but the high service line is totally inadequate to take care of demands which may be made on it.

It is particularly urged that a thirty-inch high service line be laid in Cambridge Street from Webster Square to Southbridge Street, as the first means toward furnishing proper fire protection for that section and to materially strengthen the entire high service system east of Main Street.

The plan of paving Summer Street with granite blocks is being discussed and if positive action is taken towards that end, the present eight-inch pipe line in that street from Thomas Street north should be relaid with a twenty-four-inch line.

There are nearly twenty miles of old one-inch pipe and fifty-one miles of two-inch pipe lines in use in the suburban portions of the city.

It was the part of good judgment to lay these at the time, but in many cases they have been heavily built around and overtaxed. These pipe lines furnish no fire protection whatever, and should be replaced by main pipes as rapidly as possible.

It is recommended that the plans for 1918 include sufficient appropriations to cover some of this work of replacement in the most necessary places.

PINE HILL RESERVOIR

Work on this reservoir is progressing very slowly due to the shortage of labor.

The writer urges that all reasonable efforts be used to complete this work as soon as possible. In this connection an examination of the increasing draft, and population figures, shows the need of quickly developing storage on this new supply.

If storage is not shortly developed on this system, there is more than a possibility of a shortage of supply. At the present moment, a winter drought followed by a dry spring in 1918 would reduce the stored water to a point where it would not be certain that water could be sufficiently supplied for the summer months.

WATER COMMITTEE

The Water Committee of 1917 took a great interest in the activities of the department and gave freely of their time to assist and co-operate in its management.

The writer personally acknowledges with thanks the assistance and courtesy shown him on all occasions by the members of the committee.

CONSTRUCTION

Miles of pipe laid, all sizes, 8.169.
 Number of hydrants set, 33.
 Number of service pipes laid, 510.

SUMMARY OF STATISTICS

Dates of construction: 1845, 1864, 1883, 1895, 1896, 1900, 1901, 1902, 1903, 1904, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917.

Source of supply: Impounding reservoirs in the towns of Leicester, Paxton and Holden.

Mode of supply: Gravity.

Capacity of reservoirs: 3,362,827,789 gallons.

Average pressure: High service 145 pounds, low service 85 pounds.

Pipes laid in 1917.

28,836'— 2"	1,511'— 6"	7,298½'— 8"	4,213½'—12"
1,020'—16"	56'—24"	72'—30"	126'—36"

Number of miles main pipe, 2" to 48" diameter, 310.265.

Number of miles service pipe, 195.697.

Number of fire hydrants, 2,715.

Number of water gates, 4,482.

Number of water meters, 20,518.

Total cost of works to date, December 1, 1917, \$7,597,589-.23.

Thirty-three hydrants have been set during the year.

The total number now in use for fire protection is 2,715.

Of this number 241 are on the premises of individuals and corporations.

Number of stand pipes in use, 149.

Number of car-sprinkling hydrants in use, 50.

Number of drinking fountains in use, 25.

Number of watering troughs in use, 19.

**ELEVATION OF RESERVOIRS ABOVE MAIN
STREET AT CITY HALL**

KETTLE BROOK RESERVOIR No. 1

Rollway.....364.36 feet.

KETTLE BROOK RESERVOIR No. 2

Rollway.....507.5 feet.

KETTLE BROOK RESERVOIR No. 3

Rollway.....559.00 feet.

KETTLE BROOK RESERVOIR No. 4

Rollway.....601.74 feet.

LYNDE BROOK RESERVOIR

Rollway.....341.94 feet.

PARSONS RESERVOIR

Rollway.....237.80 feet.

HOLDEN STORAGE RESERVOIR No. 1

Rollway.....269.88 feet.

HOLDEN RESERVOIR No. 2

Rollway.....237.80 feet.

HOLDEN DISTRIBUTING RESERVOIR

(Abandoned)

Rollway.....177.00 feet.

Elevation of Main Street at City Hall above tide-water,
481 feet.

Water pressure at City Hall, low service, 100 pounds.

Water pressure at City Hall, high service, 145 pounds.

In addition to the service pipes which are reported in tabulated form, there have been 33 changed, for which 647½ feet of pipe were used in the streets and 935½ feet on the premises of the owners.

Two thousand seven hundred eighty-one and one-half feet of temporary mains have been laid, the persons thus supplied paying the expense of trenching and for pipe exceeding 100 feet.

The following tables will show rainfall at the reservoirs, sizes of pipe laid, also the number of gates and hydrants set during the year.

There was received from the sale of water during the fiscal year 1917.....		\$576,365.96
Amount included in Annual Appropriation for:		
Water Department construction.....	\$25,000.00	
Water Department maintenance.....	90,000.00	
Interest on water loan.....	201,900.00	
Water loan serial payments.....	124,206.00	
Water loan sinking fund.....	65,200.00	
		<hr/>
		\$506,306.00
Transferred by order of City Council:		
Water Department construction.....	\$35,059.96	
Water Department maintenance.....	35,000.00	
		<hr/>
		\$70,059.96

EXPENDED 1917

WATER WORKS CONSTRUCTION

Balance November 30, 1916.....	\$32,811.20	
Appropriation from water rates.....	25,000.00	
Additional appropriation and transfer from water rates.....	35,059.96	
Revenue.....	70,380.97	
		<hr/>
		\$163,252.13
Expenditures.....		\$153,218.53
Balance November 30, 1917.....		\$10,033.60

PIPE IMPROVEMENT AND EXTENSION

Balance November 30, 1916.....	\$23,301.99	
Revenue.....	6,202.25	
		<hr/>
		\$29,504.24
Expenditures.....		29,301.75
		<hr/>
Balance November 30, 1917.....		\$202.49

ASNEBUMSKIT SUPPLY

Balance November 30, 1916.....	\$7,017.69	
Appropriation from loans.....	350,000.00	
Revenue.....	1,594.42	
		<hr/>
		\$358,612.11
Expenditures.....		157,488.97
		<hr/>
Balance November 30, 1917.....		\$201,123.14

MAINTENANCE

Balance November 30, 1916.....	\$7,703.98
Appropriation from water rates.....	90,000.00
Additional appropriation.....	35,000.00

Revenue	<u>32,714.87</u>	
		\$165,418.85
Expenditures		<u>161,684.26</u>
Balance November 30, 1917		\$3,734.59

WATER DEPARTMENT, 1911, EMERGENCY SUPPLY

Balance November 30, 1916	<u>\$4,468.88</u>	
Revenue	<u>7,000.00</u>	
		\$11,468.88
Expenditures		<u>183.00</u>
Balance November 30, 1917		\$11,285.88

Value of stock and tools on hand November 30, 1917,
\$330,761.41.

Bills have been rendered to the City Treasurer to the number of 2,637 amounting to \$47,900.21. Department bills 258, amounting to \$22,202.09.

Number of abatements 212 amounting to \$2,144.79.

Amount of bills in hands of Treasurer, November 30, 1917,
\$7,394.09.

Amount of department bills unpaid November 30, 1917,
\$5,676.13.

Amount collected during the year, \$46,244.47.

Amount of department bills collected during the year,
\$16,525.96.

Respectfully submitted,

GEO. W. BATCHELDER,

Water Commissioner.

SERVICE PIPES LAID TO NOVEMBER 30, 1917

	IN THE STREET		PREMISES OF INDIVIDUALS		No.
	Feet	Miles	Feet	Miles	
Prior to 1887	171,603.36	32.498	188,386.48	35.676	7,629
1887	9,674.	1.832	11,418.25	2.162	469
1888	8,814.75	1.669	18,872.	2.627	431
1889	10,021.75	1.898	11,264.5	2.133	472
1890	9,300.58	1.761	13,972.9	2.644	449
1891	9,307.5	1.762	14,276.66	2.704	483
1892	10,012.58	1.896	12,803.25	2.424	506
1893	8,616.25	1.631	11,064.	2.095	430
1894	7,218.	1.367	11,035.	2.09	366
1895	7,469.	1.414	12,407.	2.35	366
1896	7,067.83	1.34	8,796.	1.66	346
1897	8,324.11	1.576	9,805.2	1.857	383
1898	7,291.	1.38	12,878.75	2.439	342
1899	7,234.25	1.37	12,134.	2.298	396
1900	6,047.25	1.126	8,241.5	1.56	284
1901	6,506.75	1.232	7,231.25	1.38	315
1902	4,604.	.872	7,255.	1.374	225
1903	6,027.	1.141	10,054.	1.904	297
1904	5,596.	1.059	8,529.5	1.615	284
1905	7,071.	1.339	8,549.	1.619	347
1906	5,847.	1.107	11,101.	2.102	301
1907	6,213.	1.176	8,593.	1.627	308
1908	7,742.	1.466	11,176.	2.116	387
1909	9,812.6	1.858	18,861.6	3.572	507
1910	13,560.	2.568	19,697.58	8.73	679
1911	11,581.5	2.193	18,618.25	3.526	620
1912	14,899.8	2.821	17,254.16	3.267	709
1913	15,033.	2.847	21,654.75	4.101	728
1914	12,978.17	2.457	19,123.5	3.621	661
1915	11,562.	2.189	16,404.5	3.106	553
1916	12,193.	2.309	14,582.66	2.761	583
1917	9,765.	1.849	13,488.5	2.554	510
	448,994.78	85.003	584,599.84	110.694	21,306

WATER-CART STAND PIPES, 1917

	Gates
Adams	14' 6" out from stand pipe, 43' 6" N. of N. line of Shrewsbury St., looking east.
Aetna	Near Coral St., 10' 6" out from stand pipe.
Austin	24' 6" W. of W. line of Queen St., 11' 6" out from stand pipe.
Barclay n. Aetna	19' 6" S. of S. line of Aetna St., 8' 2" out from stand pipe.
Belmont	14' out from stand pipe, 64' W. of E. line of W. pier to driveway to Hospital.
" n. Everard	18' 4" out from stand pipe, 9' W. of E. line of Everard St.
Benefit	57' 7" E. of E. line of Beacon St., 15' 10" S. of N. line of St., 26' 6" out from stand pipe.
Bloomington Rd.	104' E. of E. line of Grafton St. (S.), 15' 9" N. of S. line of St., 22' out from stand pipe.
" "	7' 8" out from stand pipe.
Bluff	15' W. of E. line of Bluff St., 47' S. of S. line of hospital lot.
Bowdoin	13' E. of E. line of Chestnut St., 5' N. of stand pipe.
Bridge	36' 6" W. of W. line of viaduct wall (S.) 20' 4" out from stand pipe.
Brussels n. Crompton	28' 5" out from stand pipe, 27' 9" S. of S. line of Crompton St. (E.).
Burncoat	21' E. of W. line of St., 18' 9" N. of N. line of Melville St.
Cambridge	12' 6" S. of N. line of St., 3' 6" E. of W. line of Southbridge St.
" "	16' 9" S. of N. line of St. 25'.
" "	11' 6" out from stand pipe.
" cor. Douglas	15' S. of N. line of St., 25' E. of E. line of Douglas St.
Carroll	7' out from stand pipe.
Chandler	43' 6" W. of W. line of Newbury St., 20' 9" out from stand pipe.
" n. Park ave.	80' W. of W. line of Park ave., 7' 8" out from stand pipe.
" n. Bellevue	16' E. of W. line of Wright's new machine shop, 24' 8" N. of stand pipe.
Chatham	75' 6" E. of E. line of Houchin Ave., 12' out from stand pipe.
Commercial	20' S. of N. line of Central St., 18' E. of W. line of Commercial St.
Congress	51' 6" W. of W. line of Crown St., 18' out from stand pipe.
Crescent	23' 8" out from stand pipe.
Crown	4' 4" out from stand pipe.
Cutler	6' N. of N. line of Dorchester St., 18' 6" out from stand pipe.
Eastern Ave.	Near Belmont St., 19' 10" out from stand pipe.
" "	Near Prospect St., 13' 3" out from stand pipe, 27' 9" E. of E. line of Avenue, looking North.
E. Central n. Ford	28' 2" out from stand pipe.
Elizabeth	4' S. of N. line of schoolhouse, 24' 9" out from stand pipe.
Elm	North side, about 100' W. of Chestnut St., about 12' E. of elm tree, 9' 2" out from stand pipe.
Ferdinand	19' 3" E. of W. line of house No. 1, 6' 4" out from stand pipe.
Florence	8' 7" out from stand pipe.
" "	25' N. of N. line of Charlotte St., 16' E. of W. line of Florence St.
" "	20' 5" S. of S. line of May St. 26' 10" out from stand pipe.
Foster	50' 6" E. of W. line of Fire Dept. Headquarters, 30' 2" out from stand pipe. Stand pipe box 6' 4" out from stand pipe.
Front	68' 7" W. of W. line of Church St., 64' N. of stand pipe.
Fruit n. Dayton	7' out from stand pipe.
Garden	54' 3" W. of W. line of Lincoln St., 19' 6" North of S. line of Garden St., 23' 9" out from stand pipe.
Gold	E. side about 30' S. of catch-basin, S. side of Bradley St., 20' out from stand pipe.
Grand n. Douglas	8' 10" out from stand pipe.
Green	27' 8" N. of S. line of Crompton's shop, 14' 4" out from stand pipe.
Grove	49' S. of S. line of Lexington St., 34' 3" out from stand pipe.
" "	End of wire mill, 7' 9" out from stand pipe.
" "	Near North St., 8' 9" out from stand pipe.
Hammond n. No. 15	10' 3" E. of E. line of bay window of house No. 15, 26' out from stand pipe.
Hermon	14' 4" from S. line of barn wall on N. W. corner Southbridge and Hermon Sta., 30' 2" W. of E. line of barn, 8' 10" S. of stand pipe.
" "	9' 6" S. of N. line of Hermon St., 27' E. of E. line of Main St.
Highland	7' 9" out from stand pipe.
" "	14' W. of W. line of Boynton St., 10' 3" S. of stand pipe.
" "	43' E. of E. line of Westland St., 22' 9" out from stand pipe.
" "	Near Newton Sq., 32' 6" out from stand pipe, 1' 6" E. of center of stand pipe.
Hollywood	S. of May St., 6' 10" out from stand pipe.
Home	N. side, front of schoolhouse lot, opposite end of Wesby St. 6' 8" out from stand pipe.
Hooper	9' 8" S. of North line of Kendall St., 7' 3" out from stand pipe.
Hudson	59' 6" S. of S. line of Elm St., 26' out from stand pipe.
Illinois	27' 4" W. of W. line of Grand St. (S.), 19' 10" N. of stand pipe.
Institute Rd.	Near Beaumont St., 3' 4" out from stand pipe.
" "	" West St., 2' 6" out from stand pipe.

WATER-CART STAND PIPES—*Continued*

	Gates
Jaques Ave.	W. side, between two trees, front of schoolhouse lot, 8' 6" out from stand pipe.
" "	2' 4" E. of E. line of front part of house No. 80, 8' 10" out from stand pipe.
King	7' 10" out from stand pipe.
Lafayette	13' S. of N. line of St., 31' W. of W. line Quinsig. Ave. $\frac{3}{4}$ stop, 11' 2" S. of N. line of St., 32' W. of W. line of Quinsig. Ave.
Lagrange	50' S. of S. line of Beacon St., 20' out from stand pipe.
Lake	19' 9" out from stand pipe.
Lake Ave.	5' 6" N. of N. line of waiting station, 25' 9" out from stand pipe.
" "	Near Sherbrook Ave., 5' S. of S. line of Sherbrook Ave., 17' 2" out from stand pipe.
Lancaster	14' S. of S. line of Institute Rd., 27' out from stand pipe.
Lincoln	10' 9" N. of N. line of Perkins St., W. of Lincoln St., 14' out from stand pipe.
Lodi	4' 3" out from stand pipe.
Madison	7' 2" W. of W. line of Southbridge St., 22' 8" out from stand pipe.
Main	At Hammond St., 7' W. of stand pipe.
"	22' 9" W. of E. line of Main St., 36' N. of N. line of Gertrude Ave.
"	Near Grand St., 34' N. of N. line of Downing St., 53' E. of W. line of Main St. 8' 6" W. of stand pipe.
"	Opp. Marble St., 9' 3" out from stand pipe.
"	Near University Park, 9' N. of stand pipe, 2' 10" out from stand pipe.
"	Near Franklin St., 25' S. of stand pipe on branch of 2-way hydrant, 1' 8" W. of E. line of curbstone.
"	11' 7" N. of N. line of Franklin St.
Massachusetts Ave.	At W. end of grass plot, 11' 6" S. of N. line of Drury Lane (W.), 47' E. of W. line of Mass. Ave., western section.
May cor. Westfield	9' 4" out from stand pipe.
May near Silver	39' 3" E. of E. line of Silver St., 4' 9" out from stand pipe.
Merrick	107' S. of S. line of Davis Ct., 7' out from stand pipe.
Mill	13' 6" N. of N. line of Quinn's Block, 27' out from stand pipe.
Millbury	Near the mill, 1' 9" W. of stand pipe, 2' out from stand pipe.
"	Near Seymour St., 10' W. of E. line of St., 13' 9" S. of N. line of Seymour St.
"	Near Greenwood St., 6' N. of stand pipe.
"	Below the ledge, 2' 6" N. of stand pipe.
"	S. of Cambridge St. 13' 3" W. of E. line of St., 62' 9" N. of N. line of Whitney St.
"	At Ballard St., 2" drip, controls stand pipe on walk, 1' 3" N. of stand pipe.
Mulberry	15' E. of W. line of St., 27' 3" N. of N. line of Asylum St., 22' 6" out from stand pipe.
Newbury	E. side opp. division fence, N. of Austin St., 8' 9" out from stand pipe.
Oak Ave.	13' 9" E. of W. line of Avenue, 26' N. of N. line of Belmont St. (W.).
Orange	E. side near Myrtle St., 6' S. of electric light pole, 5' 9" out from stand pipe.
Orient	3" valve, 21' N. of N. line of Hamilton St., 18' 3" E. of W. line of Orient St., $\frac{3}{4}$ stop, 17' 6" E. of W. line of St., 22' 3" N. of N. line of Hamilton St.
Oxford	15' S. of S. line of Pleasant St., 8' out from stand pipe.
Paine	Near Perkins St., 8' out from stand pipe.
"	Near Vinton St., 9' 6" out from stand pipe.
Park Ave.	Box on Lovell St., 28' 3" out from stand pipe, 12' E. of W. line of Park Avenue.
" "	7' out from stand pipe.
" "	98' 6" N. of N. line of house, 194 Park Ave., 18' 10" out from stand pipe.
" "	120' N. of Pratt Ct., 9' 3" out from stand pipe.
Penn. Ave.	15' 9" E. of W. line of Ave., 20' 4" S. of S. line of Avenue.
Piedmont	33' 6" N. of N. line of Brigham St., 22' out from stand pipe.
Pitt	26' W. of E. line of Pitt St., 27' N. of N. line of No. 3 Pitt St.
Plantation	13' 8" N. of N. line of Shrewsbury St., 3' 8" W. of E. stone wall cor. Shrewsbury and Plantation Sts., 26' 4" N. W. from stand pipe.
Plum	30' S. of S. line of Shrewsbury St., 7' 7" out from stand pipe.
Fond	Corner Harding St., 7' 9" out from stand pipe.
Portland	10' E. of W. line of Portland St., 2' S. of stand pipe.
Prescott	Above wire mill, 9' 10" out from stand pipe.
"	Near North St., 21' out from stand pipe.
"	2' 6" out from stand pipe.
Richards	Near Cambridge St., 31' N. of S. line of Cambridge St., looking west, 3' 3" W. of stand pipe.
Salisbury	18' 6" W. of W. line of Dean St., 7' out from stand pipe.
"	Corner Park Ave., 3' 10" out from stand pipe.
Salem	26' N. of N. line of Salem St., looking W., shut off, 5' out from stand pipe.

WATER-CART STAND PIPES—Continued

	Gates
Sever	Rear N. line of house No. 80, 8' 6" out from stand pipe, 14' 9" N. of N. line of house No. 80.
Sheridan	Box on Cambridge St., 27' N. of S. line of St., 12' E. of W. line of Sheridan St.
Shrewsbury	12' 3" N. of S. line of Shrewsbury St., 18' W. of W. line of schoolhouse fence.
"	11' E. of E. line of 377, 24' N. of N. line of same.
"	9' 9" N. of S. line of St., 2' 2" W. of stand pipe.
"	About 75' E. of Seward St., 2' 6" N. of curb, 2' 6" W. of stand pipe, box 1' 3" W. of stand pipe.
Sigel	66' 9" W. of W. line of Harding St.
Southbridge	Near Prov. and Worcester R. R., 9' 3" out from stand pipe.
Southgate	26' 9" W. of W. line of Southbridge St., 24' 6" out from stand pipe.
Sturgis	S. side opp. greenhouse, about 200' from Lincoln St., 20' 5" out from stand pipe.
Summer	17' 3" E. of W. line of St., 66' 6" S. of S. line of Central St.
Sycamore	S. side in front of schoolhouse lot, 16' 6" out from stand pipe.
Temple	29' 3" S. of N. line of St., 22' 10" E. of W. line of Jourdan's barn.
Vernon	21' 9" E. of E. line of Richland St., 10' 6" out from stand pipe.
Wall	Near Norfolk St., 26' out from stand pipe.
Ward	3' 6" out from stand pipe.
Ward	19' 6" W. of W. line of Wade St., 17' 6" out from stand pipe.
Washington	19' 3" out from stand pipe.
"	21' 6" N. of N. line of Plymouth St., 15' 10" W. of E. line of Washington St., $\frac{3}{4}$ stop, 21' 6" N. of N. line of Plymouth St.
"	$\frac{3}{4}$ " stop, 21' 6" N. of N. line of Plymouth St., 17' 6" W. of E. line of Plymouth St.
Water	8' 9" out from stand pipe.
Waverley	N. side, 6' E. of third tree W. of Coral St., 8' 10" out from stand pipe.
Westminster	7' 6" out from stand pipe.
William	7' out from stand pipe.
"	7' 3" out from stand pipe.
Windsor	N. of Northampton St., 19' out from stand pipe.
Winfield	W. side, near division fence, N. of No. 2, 7' out from stand pipe.
Winslow	15' 9" S. of S. line of Pleasant St., E. of Winslow St., 22' out from stand pipe.
Winthrop	Near Providence St., 6' 3" N. of stand pipe.
Woodland	12' 10" N. of S. line of schoolhouse lot, 6' 10" out from stand pipe.
"	Near Downing St., 2' 8" out from stand pipe.
Wyman	22' 9" S. of S. line of Hollis St., 22' 9" out from stand pipe.

CAR-SPRINKLING HYDRANTS, 1917

Belmont	22' 6" S. of N. line of St., 36' W. of W. line of Oak Ave.
"	21' 10" r. of center of pit, 20' 10" W. of W. line of Warden St. Pit 27' W. of W. line of Warden St., 54' N. of S. line of Shrewsbury St. At corner of Putnam Lane.
Bloomington Rd.	28' 8" N. of S. line of Rd., 27' 4" W. of E. line of house No. 180.
Boynon	17' 4" E. of W. line of St., 39' N. of N. line of Highland St.
Burncoat	14' 6" E. of W. line of St., 94' S. of S. line of engine house.
"	Between poles, Nos. 44 and 45 near culvert in street, 3" valve, 8' 10" N. of iron grating on culvert, 9' E. of W. rail of car tracks. Location of pit, 2' 3" E. of E. rail of car tracks, 8' 8" N. of iron grate on culvert.
East Worcester	At Shrewsbury St., 3' 3" S. of S. line of Shrewsbury St., 14' 4" E. of W. line Norcross Bros.' office.
Franklin Sq.	35' W. of E. line of Main St., 14' N. of S. line of Allen Ct.
Fremont	21' 6" S. of N. line of St., 74' E. of E. line of house No. 22.
Grafton	22' N. of S. line of St., 1' E. of E. line of Houghton St.
"	51' 4" W. of E. line of Grafton St., 14' S. of N. line of Keese St.
Grove	12' 10" W. of E. line of St., 50' 7" S. of S. line of No. 328.
Highland	12' 4" S. of N. line of St., 14' W. of W. line of 162 Highland St.
James	19' 6" W. of E. line of St., 20' 4" N. of N. line of house No. 12 James St.
June	17' W. of E. line of June St., 56' N. of N. line of Chandler St., looking West.
Lincoln	At house No. 160.
"	24' W. of E. line of St., 14' 2" S. of N. line of Perkins St.
Main	16' 7" W. of E. line of St., 11' 3" N. of N. line of Beaver St.
"	39' 4" N. of S. line of St., 88' W. of W. line of McMullen lot No. 14.
"	20' S. of N. line of Main St., 36' 6" E. of E. line of Lake St.
"	31' N. of S. line of St., 5' 6" W. of W. line of ell part of house No. 1432 Main St.
"	19' W. of E. line of St., 28' S. of S. line of Hammond St.

CAR-SPRINKLING HYDRANTS—Continued

Mill	18' W. of E. line of St., 81' N. of N. line of Main St.
Millbury	N. of Sigal St., 6" gate on this hydrant will shut this off.
"	26' W. of E. line of St., 10' N. of S. line of Maxwell St.
"	11' 6" W. of W. line of St., 15' S. of N. line of Perry St.
"	16' E. of W. line of St., 20' 6" S. of S. line of Richland St.
Park Ave.	23' 8" W. of E. line of Park Ave., 39' N. of S. line of Harrington and Richardson's shop.
"	21' W. of E. line of Park Ave., 76' S. of S. line of Fern St.
Pleasant	15' S. of N. line of St., 9' 6" E. of W. line of No. 137 Pleasant St.
"	19' 6" S. of N. line of St., 32' 9" W. of W. line of Park Ave.
"	20' S. of N. line of St., 151' W. of W. line of No. 414 Pleasant St.
"	Near Flagg St., 16' 6" S. of N. line of Pleasant St., 43' N. of S. line of Pleasant St., 34' W. of center of hydrant.
"	3" valve E. of June St., 112' 4" W. of 1st hydrant E. of June St., 39' 4" N. of S. line of street.
Providence	107' S. of N. line of S. pier to Crompton's driveway, 20' 3" E. of W. line of Providence St.
Salem	34' 6" S. of S. line of Front St., 26' 6" W. of E. line of Salem Sq.
Salisbury	19' W. of E. line of St., 23' 8" N. of N. line of Lincoln Sq. This gate shuts to the right.
"	3" valve, 36' 8" E. of E. line of Park Ave., 19' S. of S. line of Salisbury Street.
Shrewsbury	115' S. of N. line of Hunt St., 20' W. of E. line of Shrewsbury St.
Southbridge	426' 6" S. of N. line of Lafayette St., 17' 6" W. of E. line of Southbridge Street.
"	Near Malvern Rd., 20' W. of E. line of cement wall, 2' S. of S. end of culvert, 2' E. of E. rail of car tracks. Location of pit, 2' S. of box.
"	Near Riverside St., 1' 6" E. of E. line of Southbridge St., 12' 6" N. of S. line of Riverside St.
Summer	17' E. of W. line of St., 29' S. of S. line of Prospect St.
Upsala	Near No. 9, 3" valve, 34' 4" S. of N. line of St., 9' 9" E. of E. line of house No. 9.
Vernon	18' 8" W. of E. line of St., 24' S. of S. line of Dorchester St., looking west.
Washington Sq.	43' 6" W. of W. line of Summer St., 40' 8" N. of S. line of Front St.
Webster	3' 8" E. of E. line of St., 9' 2" N. of S. line of Jacques St.
West Boylston	Near Fair Grounds, 1' S. of S. rail in center of turnout, near Fair Grounds.
"	Near Huntington Ave., 16' W. of E. line of W. Boylston St., 52' S. of S. line of Huntington Ave.

DRINKING FOUNTAINS

	Gates
Ballard	7' 6" out from fountain, 35' 8" E. of E. line of house, cor. Ballard and Millbury St., antiseptic fountain.
Brittan Sq.	28' 8" E. of W. line of Burncoat St., 66' N. of N. line of house No. 2 Burncoat St.
Cambridge	17' S. of N. line of St., 42' 6" E. of E. line of Southbridge St.
Cambridge Sq.	At junction of Millbury, Cambridge and Quinsig. Ave. Sanitary Fountain takes place of fountain at same location.
East Central	Near cor. of Shamrock St. Anti Germ Fountain takes place of fountain at E. Central and Shrewsbury St.
Franklin Sq.	14' 3" E. of E. line of Scott's block, 20' 3" N. of N. line of same. Antiseptic Fountain.
Franklin	Cor. Bartlett, 26' N. of N. line of O'Flynn's barn, 40' 6" E. of W. line of same. Antiseptic Fountain.
"	On northerly side of Franklin St., near junction with Main St.
Front	Near City Hall, 22' out from fountain, 36' E. of W. line of City Hall. Antiseptic Fountain.
"	Cor. Salem Sq., 65' 6" from base of fountain, 42' 9" W. of W. line of Church St. Antiseptic Fountain.
"	Cor. Summer, on Summer St., 26' E. of W. line of St., 8' 8" N. of N. line of Front St. Antiseptic Fountain.
Grafton Sq.	8' 3" out from fountain, 34' W. of W. line of 353 Grafton St. Antiseptic Fountain.
Grand	At junction of Canterbury and Grand Sts. Sanitary Fountain.
Harding	At Green St., 16' 8" E. of W. line of Green St. 19' 9" S. of N. line of Bradley. Antiseptic Fountain. This fountain takes the place of the fountain at junction of Water and Vernon Sq.
Hemans	14' 9" S. of N. line of St., 11' 3" E. of E. line of Hemans St.
Lake Ave.	14' out from fountain, 37' W. of E. line of Lake Ave. looking S., 72' N. of S. line of Belmont St., looking E., 27' N. of N. rail of car tracks.

DRINKING FOUNTAINS—Continued

	Gates
Lake Ave.	Cor. of Belmont St., 24' 9" out from fountain. Antiseptic Fountain. This fountain takes the place of the fountain on Belmont St.
Lincoln Sq.	Corner Main St., shut off in sidewalk.
Millbury	Corner Reeves St., 1' 6" W. of W. line of Millbury St., 27' 9" S. of N. line of Reeves St.
Norfolk Plantation	At junction of Norfolk and Suffolk St. Sanitary Fountain. 14' 11" E. of W. line of St., 17' 9" S. of S. line of Belmont St. Antiseptic Fountain.
Salem Sq.	Burnside Fountain, stop box on Franklin St.
Union Sq.	11' W. of W. line of Providence St., 20' 6" N. of S. line of Winter St.
Webster Sq.	30' 9" N. of S. line of Cambridge St., 25' 6" W. of W. line of Webster St.
"	Box on Webster St., 18' E. of W. line of Webster St., 14' N. of S. line of Webster Square. Antiseptic Fountain.

WATERING TROUGHS.

	Gates
Adams	20' W. of E. line of Lincoln St. on S. line of Shattuck St.
Belmont	At Lake, 11' 6" S. of S. line of Belmont St., 84' 7" E. of W. line of Lake Ave.
Chadwick Sq.	29' S. of hydrant, 35' 6" E. of watering trough.
Chandler	At a point on Chandler near May St. This takes place of watering trough Chandler on Mill St.
Coes Sq.	11' 4" W. of E. line of St., 19' N. of N. end of parapet wall, 42' 10" S. of S. line of Coes' shop, 58' 8" S. of S. line Beaver St.
Grafton	16' 7" S. of N. line of Grafton St., 1' 6" E. of E. line of house No. 343 Grafton St. This takes place of watering trough cor. Hamilton St.
James	14' out from center of trough, $\frac{1}{2}$ rod stop, 11' 9" out from center of trough.
Lincoln Sq.	43' 8" S. of N. line of Lincoln Sq., 10' 3" W. of W. line of Prescott St.
Mason	Cor. Winfield St. (This watering trough was moved from Chandler near Bellevue.)
Merriek cor. Pleasant	34' 9" N. of N. line of Pleasant St., W., 16' 10" E. of W. line of St., $\frac{1}{2}$ stop—5' 6" W. of center of trough.
Millbury	30' 4" W. of E. line of St., 51' 3" S. of S. line of Cambridge St.
"	At Greenwood St., 26' 4" direct E. from trough.
Pleasant	7' 3" out from X on trough, near the ground.
Southbridge	33' 2" from W. line of Southbridge St., 28' S. of S. line of Southgate St.
"	At Madison St., 32' 9" out from trough, at Madison Sq., 36' 6" S. of S. line of No. 114.
"	At Stearns Sq., 6' 3" out from trough, 1' 8" S. from trough, drip 4' S. of trough, 2' 6" W. of E. end of trough.
Vernon Sq.	On Vernon St., 5' 6" above gate box, 6' 9" out in direct line from where it enters the trough.
Washington Sq.	On Shrewsbury St., 36' 6" S. of N. line of St., 60' E. of E. line of Summer St. This takes the place of old watering trough in Washington Square.
Webster Sq.	Box at main, 30' 3" N. of S. line of Cambridge St., 16' 6" W. of W. line of Webster St., $\frac{1}{2}$ " drip 5' N. of trough.

LOCATION, SIZE AND KIND OF HYDRANTS LOCATED DURING THE YEAR ENDING NOVEMBER 30, 1917

STREET	LOCATION	Kind	Size	Size of Connection	Size of Outlets	No. of Outlets	Base of Main	Flowing	Service
Archison.....	On W. side of St., on N. line of lot No. 12.	Mathews	6	6	2	2	8	68	Low
Brownell.....	On N. W. cor. of Berkman St.	"	6	6	2	2	8	86	High
Burgess Road.....	On W. side of St., on S. line of lot No. 4.	"	6	6	2	2	6	98	High
Canterbury.....	On W. side of St., near Wright Wire Co. shop.	"	6	6	2	2	12	110	Low
Cohasset.....	On N. E. cor. of Plantation St.	"	6	6	2	2	12	83	High
Delaware.....	On W. side of St., on N. line of house No. 7.	"	6	6	2	2	12	100	High
Euclid Avenue.....	On W. side of St., on S. line of lot No. 4.	"	6	6	2	2	8	98	Low
Euston Road.....	At junction of Montrose St.	Chapman	6	6	2	2	8	100	High
Euston Road.....	At N. W. cor. of Fairfax Rd.	Mathews	6	6	2	2	8	106	"
Fifth Avenue.....	On N. E. cor. of Millbury St.	"	6	6	2	2	8	105	"
Fifth Avenue.....	On N. side of St., near W. line of house No. 15.	"	6	6	2	2	8	140	"
Franklin.....	On N. side of St., near W. line of house No. 458.	"	6	6	2	2	8	128	"
Franklin.....	On N. side of St., near W. line of house No. 476.	"	6	6	2	2	8	123	"
Fremont.....	On W. side of St., at S. end of Mills Woven Cartridge Belt Co.	"	6	6	2	2	16	183	"
Fremont.....	On W. side of St., at N. end of Mills Woven Cartridge Belt Co.	"	6	6	2	2	16	185	"
Grafton.....	At S. E. cor. of Fairmont Ave.	"	6	6	2	2	16	118	"
Grafton.....	At S. W. cor. of Puritan Ave.	"	6	6	2	2	16	112	"
*Howard.....	At S. E. cor. of Blackstone St.	"	6	6	2	2	16	110	"
*Grafton.....	At S. E. cor. of Warner Ave.	"	6	6	2	2	16	106	Low
Hygeia.....	At S. E. cor. of Baldwin Chain Co. building.	"	6	6	2	2	16	110	High
Indian Lake Parkway.....	In centre of St., on S. line of lot No. 7.	"	6	6	2	2	8	140	"
Norfolk.....	On S. side of St., opposite No. 55.	"	6	6	2	2	10	106	"
Rhodes Road.....	On W. side of St., opposite house Nos. 8-10.	"	6	6	2	2	12	65	Low
Ruthven Avenue.....	On E. cor. of West Boylston St.	"	6	6	2	2	12	68	Low
St. John's Road.....	On E. side of St., on N. line of Mills Woven Cartridge Belt Co.	"	6	6	2	2	6	120	High
St. John's Road.....	On E. side of St., on S. line of Mills Woven Cartridge Belt Co.	"	6	6	2	2	8	142	"
Shutok.....	At S. W. cor. of angle in St.	"	6	6	2	2	8	143	"
Underwood.....	At N. W. cor. of May St.	"	6	6	2	2	12	125	"
Wheeler Avenue.....	On N. side of St., near Forest St.	"	6	6	2	2	6	87	Low
Wheeler Avenue.....	On N. side of St., opposite E. line of Algonquin Road.	"	6	6	2	2	8	73	High
Wheeler Avenue.....		"	6	6	2	2	8	75	High

HYDRANTS CHANGED AND REPLACED BY OTHERS DURING THE YEAR ENDING NOVEMBER 30, 1917

STREET	LOCATION	KIND TAKEN OUT	KIND RESET
1 Apricot.....	On N. side of St., opp. Armandale Rd.....	8" 2 way Holyoke.....	6" 2 way Chapman.....
1 Arthur.....	On E. side of St., S side of lot No. 10.....	6" 2 way Chapman.....	6" 2 way Mathews.....
24 Franklin.....	On N. side of St., opp. Bloomingdale Ct.....	6" 2 way Chapman.....	6" 2 way Mathews.....
1 New Bond.....	On S. side of St., near R. R. crossing.....	8" 2 way Holyoke.....	8" 4 way Chapman.....
2 New Bond.....	On N. side of St., near W. line of Morgan's new shop.....	8" 2 way Holyoke.....	8" 4 way Chapman.....
2 Norfolk.....	At S. E. cor. of Hawkins St.....	4" 2 way Chapman.....	6" 2 way Chapman.....
2 Salem.....	On W. side of St., in front of house No. 83.....	4" 2 way Chapman.....	6" 2 way Mathews.....
13 Southbridge.....	On E. side of St., on N. line of house No. 458.....	6" 2 way Chapman.....	6" 2 way Chapman.....

LENGTH AND SIZE OF PIPE LAID DURING THE YEAR ENDING NOVEMBER 30, 1917

STREET	LOCATION	PIPE		Hydrants	Gates	Service
		Size in inches	Length in feet			
Acushnet Ave.	From Clark St. southerly	2	806	..	..	High
Adella Ct.	" Greenwood St. easterly	2	220	..	..	Low
Aitchison	" Shrewsbury St. to Plantation St.	8	397	1	2	High
Allston Ave.	" Indiana St. southerly	2	1,147	..	..	Low
Avalon Pl.	" William St. southerly	2	155	..	..	High
Beckman	" Whipple St. northerly	2	387½	..	..	"
Berwick	" present terminus westerly	6	78	..	..	"
Biltmore Rd.	" present terminus westerly	2	220	..	..	Low
Bothnia	" Butler to McGill St.	2	495	..	..	High
Boyes	" Webster St. southerly	2	540	..	..	"
Brandon Rd.	" Eunice Ave. southerly	8	188	..	..	Low
Bridle Path	Northerly from Lake Ave.	2	1,691	..	..	High
Brownell	From June St. southeasterly, and from end of 8" pipe south-easterly	8	360	1	3	Low
Burgess Road	" Salisbury to Metcalf St.	6	177	1	2	High
Burnside Ct.	" present terminus easterly	6	687	..	..	Low
Capiera Rd.	" Adams St. easterly	2	123	..	..	"
Catalpa	" present terminus southerly	2	560	..	..	High
Chester	" present terminus northerly	2	76	..	..	"
The Circuit	" Lake Ave. westerly	2	147	..	..	"
Cohasset	" Plantation St. easterly	12	173	..	8	"
Cuba Rd.	" Stafford St. easterly	2	468	2	..	"
Cuba Rd.	" present terminus easterly	2	221	..	..	"
Cutting Ave.	" present terminus westerly	2	160	..	..	"
Dartmouth	" Pilgrim Ave. easterly	2	116	..	..	"
Dayton Pl.	" Dayton St. northerly	2	180	..	..	Low
Delaware	" Fremont to New York St.	2	181½	1	3	High
Dodge Ave.	" present terminus northerly	8	485	..	..	"
		2	365	..	..

LENGTH AND SIZE OF PIPE LAID DURING THE YEAR ENDING NOVEMBER 30, 1917—Continued

STREET	LOCATION	PIPE		Hydrants	Gates	Service
		Size in inches	Length in feet			
Doris	From Brooks St. westerly	2	495	..	..	High
Elmwood	" present terminal northerly	2	40	..	..	Low
Euclid Ave.	" present terminus to connect with pipe in View St.	8	290	1	1	High
Euston Rd.	Harlem St. to Fairfax Rd.	8	766	2	4	"
Fairfax Rd.	West Upsala St. west and north	12	62	..	..	"
Fairmont Ave.	Hamilton to Dartmouth St.	2	515	..	..	"
Fifth Ave.	Millbury St. easterly	8	716	2	4	"
Fourth Ave.	" present terminus westerly	2	70	..	..	Low
Franklin	" present terminus easterly	8	1,364	2	6	High
Governor	Brandon Rd. easterly	2	752	..	..	"
Grafton	" present terminus near Dane Ave., easterly	16	998	1	8	"
Grafton	Marjorie St. easterly	2	124	..	..	"
Granby Rd.	Capiera Rd. southerly	2	400	..	..	Low
Hadwen Lane	" Pleasant St. southerly	12	747	..	4	"
Heard	" Stafford St. southeasterly	12	887½	..	1	"
Heywood	" Park Ter. Rd. easterly	2	78	..	..	High
Hilma	Northeasterly from Dodge Ave.	2	88	..	..	"
Housatonic	From Governor St. northerly	2	860	..	..	"
Hunnewell Rd.	" Mountain St. westerly	2	315	..	..	"
Hygeia	" Arctic St. easterly	8	800	1	8	"
Indian Lake Pkwy	" Grove St. northerly	8	514	1	2	"
Kenberna Rd.	" present terminus westerly	2	50	..	..	"
Kenberna Rd.	" present terminus westerly	2	60	..	..	"
Laconia Rd.	" present terminus northerly	2	191½	..	..	"
Lake Ave.	" present terminus northerly	2	579	..	..	"
Lake Ave.	To connect present pipes therein	2	1,093	..	..	Low
Longmeadow Ave.	From Clark St. southerly	2	486	..	..	High
Lovell	" Berkmans St. southerly	2	268	..	..	Low
Malmo	" Stebbins St. northerly	2	176	..	..	High

LENGTH AND SIZE OF PIPE LAID DURING THE YEAR ENDING NOVEMBER 30, 1917—Continued

STREET	LOCATION	PIPE		Hydrants	Gates	Service
		Size in inches	Length in feet			
Marjorie.....	From present terminus to Grafton St.	2	144	..	..	High
Marjorie.....	" present terminus southerly	2	100	..	..	"
Mariand.....	" present terminus easterly	2	90	..	..	Low
McRae.....	Shrewsbury St. northerly	8	200	..	..	High
Middlesex Ave.....	Hamilton St. southerly	2	216	..	..	"
Moreland.....	" present terminus northerly	2	201	..	..	Low
Mountain.....	" Malden St. southwestly	2	264	..	..	"
Mower.....	" present terminus westerly	2	56	..	..	"
Natick.....	" present terminus southerly	2	254	..	..	High
Ontario.....	" Acushnet Ave. easterly	2	115	..	..	"
Park Hill Rd.....	" present pipe therein southerly	2	333	..	..	"
Pasadena Ave.....	" Lincoln St. northeasterly	2	433	..	..	"
Raymond.....	Continuation of 1916 order	2	75	..	..	"
Rexhame Rd.....	From Burncoat St. easterly	2	884	..	..	"
Rexhame Rd.....	" present terminus easterly	2	102	..	..	"
Rhodes Rd.....	From Hadwen Rd. northerly	{ 8	{ 30	2	2	Low
Rosemont Rd.....	" present terminus southerly	2	712	..	..	High
Rowena.....	" Governor St. northerly	2	100	..	..	"
Royal Rd.....	" present terminus westerly	2	622	..	..	Low
Ruthven Ave.....	" West Boylston St. easterly	6	164	..	1	High
St. John's Rd.....	" present terminus southwestly	8	841	..	8	"
Salisbury.....	" present terminus northerly	2	456½	2	..	"
Salisbury.....	" present terminus a distance of 400'	2	1,228	..	..	"
Spooford Rd.....	" present terminus westerly	2	398	..	..	"
Spooford Rd.....	" present terminus westerly	2	1,152	..	..	"
Stafford.....	" Ludlow St. southerly	2	150	..	..	"
Sunderland Rd.....	" Arcadia St. westerly	2	159½	..	..	"
Sunderland Rd.....	" terminus westerly to right of way	2	250	..	..	"
Sunderland Rd.....	" terminus westerly to right of way	2	175	..	..	"

LENGTH AND SIZE OF PIPE LAID DURING THE YEAR ENDING NOVEMBER 30, 1917—Continued

STREET	LOCATION	PIPE		Hydrants	Gates	Service
		Size in Inches	Length in feet			
Sunderland Rd. Right of Way	From Sunderland Rd. northerly 100' E. of E. line of County St.	2	171	..	..	High
Suntaug Rd.	" Lake View easterly	2	196	..	..	Low
Toronita Ave.	" Pelican Ave. northwesterly	2	216	..	..	High
Tory Fort Lane	" Pleasant St. northerly	2	1,900	..	..	Low
Tory Fort Lane	present terminus northerly	2	1,057	..	..	"
Trahan Ave.	" Hamilton St. southerly	2	962	..	..	High
Underwood	" Hartshorn Ave. to May St.	6	397	1	2	Low
Village	" present terminus to Ingleside Ave.	2	185	..	..	High
Virginia Rd.	" Mower St. northerly	2	370	..	..	Low
Warner Ave.	" Grafton St. southerly	2	211	..	..	High
Wayside Rd.	" Pasadena Ave. northerly	2	756	..	..	"
Wentworth	" Catalpa St. westerly	2	204	..	..	"
Wheeler Ave.	" Forest St. westerly	2	798	2	8	"
	In Algonquin Rd.	{ 8	44	..	1	"
Whitmarsh Ave.	From present terminus easterly	2	50	..	..	"
Whitmarsh Ave.	Between present termini	2	346	..	..	"
Windemere Rd.	From Virginia Rd. northerly	2	160	..	..	Low
Woodford	" present terminus southerly	8	400	..	1	High
Woodman Rd.	" Fiske St. northerly	2	369	..	..	Low

LENGTH AND SIZE OF PIPE RELAID DURING THE YEAR ENDING NOVEMBER 30, 1917

STREET	LOCATION	PIPE		Hydrants	Gates	Service
		Size in inches	Length in feet			
Armory	From Grand St. to Southgate St. (Part of order)	12	175		1	Low
Canterbury	" present terminus south of Hammond St., southerly ..	12	512	1	2	"
Lincoln Sq	" terminus of 24" pipes easterly towards Belmont St. under and across Millbrook Sewer	{ 30	72	..	..	"
	" present terminus in Main St. northerly across Lincoln Sq. and westerly to Salisbury St.	{ 24	56	..	3	"
	" Franklin to Wall St. (In part)	{ 36	126			"
		{ 16	22			
Suffolk		12	713	1	8	High

TOTAL LENGTH AND SIZE OF PIPE LAID AND NUMBER OF GATES AND HYDRANTS IN USE NOVEMBER 30, 1917

	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	40"	42"	48"	Miles	Hy- drants	Gates
Prior to 1917.....	248,639	94	67,884	259,402	301,646	45,722	288,416	25,578	196,132	2,779	38,086	36,808	36,878	18,968	16,856	5,840	12,084	302.521	2,682	4,419
Laid in 1917.....	28,886			1,511	7,298		4,213		1,020			56	72	128				8.169	33	63
Total.....	272,405	94	67,884	259,913	308,946	45,722	292,629	25,578	199,152	2,779	38,086	36,859	36,950	19,094	16,856	5,840	12,084	310.690	2,715	4,482
Pipe taken up in 1917...	2,282						1		5			6						.425		
Total feet.....	270,173	94	67,884	259,913	308,946	45,722	292,628	25,573	199,146	2,779	38,086	36,852	36,950	19,094	16,856	5,840	12,084			
Total miles.....	51.169	.018	12.856	49.226	58.512	8.969	55.422	4.843	37.717	.526	7.213	6.979	6.998	3.616	3.098	1.106	2.251	310.265	2,715	4,482

TABLE
Showing the daily height of water in LYNDE BROOK RESERVOIR and rainfall for year ending November 30, 1917

Date	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall
1	35.15		33.83		31.44	.60	29.85		37.77	.17	38.14		37.90		37.48	.20	33.84		36.21		35.48	.08	36.72	
2	35.33		33.75		30.02		30.02		38.00		38.15		37.90		37.40		33.85		36.26		35.50		36.71	
3	35.39		33.62		31.25		30.12		38.16		38.08		37.98		37.32		33.85		36.26		35.49		36.87	
4	35.45		33.53		31.14	.65	30.20	.05	38.25		37.98		37.99		37.17	.12	33.93		36.27		35.48		36.60	
5	35.53	.03	33.40		30.99		30.35	1.01	38.24		37.95	.93	37.99		37.07	.10	34.00		36.24		35.47		36.58	
6	35.54		33.44	.66	30.85	.82	30.37		38.21		38.06		37.98		36.94		34.11		36.21		35.50	.35	36.50	
7	35.53		33.44		30.85		30.35		38.25		38.05		37.97	.44	36.76		34.16		36.18	.06	35.50		36.41	
8	35.50		33.48		30.46		30.22	.18	38.37		38.08		37.91	.16	36.62		34.20		36.17	.17	35.52		36.32	
9	35.49		33.45		30.25		30.27	.08	38.25		38.00		37.80		36.50		34.28	.58	36.16		35.51	.04	36.30	
10	35.55	.25	33.43	.03	30.08	.41	30.25		38.25	.03	37.95		37.75	.26	36.17		34.55	.40	36.16		35.50	.12	36.04	
11	35.62		33.38		30.45	.10	30.25		38.22		37.87	.07	37.73	.71	36.10	.57	34.54	.19	36.11		35.50		35.98	
12	35.68	.23	33.29		29.73		30.69	.21	38.17		37.80	.10	37.71		35.98		34.54		36.02		35.49		35.77	
13	35.61		33.08		30.74		30.84		38.12		37.75		37.66		35.85		34.94		35.99		35.55	.35	35.87	
14	35.61		33.08		30.74		30.84		38.12		37.75		37.66		35.85		34.94		35.99		35.55	.35	35.87	
15	35.60		33.08	.72	29.27		30.86	.21	37.99		37.63		37.56		35.85		34.94		35.99		35.55	.35	35.77	
16	35.42	.49	33.68		29.05		30.82		37.97		37.53		37.45		35.72		34.94		35.90		35.59		35.61	
17	35.32		33.68		28.68		30.91		37.97		37.53		37.45		35.72		34.94		35.90		35.59		35.61	
18	35.32		33.48		28.48		30.91		37.91		37.45		37.45		35.72		34.94		35.90		35.59		35.61	
19	35.15		33.31		28.32		31.45	.46	37.91		37.42		37.42		35.72	.04	35.25	2.25	35.90		35.58		35.28	
20	34.98		33.17		28.13	.24	31.73		37.90	.04	37.22		37.42		35.12		35.25	.10	35.85		35.50		35.20	
21	34.86		33.02		28.13		31.73		37.97		37.18		37.42		35.12		35.25		35.85		35.50		35.20	
22	34.74		32.98	.53	27.95		31.79		37.99	.22	37.19		37.42		35.12		35.25		35.85		35.50		35.20	
23	34.80	1.20	32.76		27.72	.06	31.91		38.05	.08	37.10	.09	38.11		34.79		35.35		35.77		35.56	.46	35.06	
24	34.70		32.62		27.57	.12	32.45	.41	38.10		37.14	.45	38.04		34.68		35.48	1.27	35.70		35.50		34.96	.20
25	34.61		32.42		27.27		33.35		38.10		37.12		38.00	.25	34.50		35.50	.20	35.68		35.57		34.82	.35
26	34.51		32.26		27.17		33.35		38.11		37.12		37.94		34.16		35.50	.09	35.68		35.59		34.78	
27	34.38		32.10		27.11	.84	34.44		38.05		37.14		37.88		33.82		35.60		35.59		35.59		34.63	
28	34.31	.15	31.97		26.41		34.96		38.06	.36	37.14		37.82	.32	33.92		35.55		35.56		35.56		34.54	
29	34.23		31.76		26.25		35.10	1.04	38.08	.12	37.23		37.82		33.88		35.55		35.56		35.51	.15	34.24	
30	34.11		31.64		26.11		35.96	.11	38.12		37.37		37.87		33.84		35.57		35.50		35.50		34.18	
31	33.98		31.50		26.02	.32	37.42		38.15		37.40		37.87	.15	33.85		35.57	2.09	36.49		35.50		34.08	
Totals	2.75	2.91	3.08	4.06	3.88	8.91	1.53	7.82	6.00															

The rainfall is shown in inches and decimals of an inch. The depth of water is shown in feet and decimals of a foot. Height of railway, 37.40 feet. With blade, 38.00 feet. Rainfall for the year ending November 30, 1917, 98.79 inches.

TABLE
Showing the daily height of water in KETTLE BROOK NO. 2 RESERVOIR for year ending November 30, 1917

NO.	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT ^r MBER	OCTOBER	NOVEMBER
1	18.25	19.07	20.55	21.50	21.57	21.50	21.55	21.43	19.95	19.70	19.35	20.52
2	18.25	19.10	20.60	21.47	21.57	21.58	21.58	21.43	19.55	19.70	19.25	20.55
3	18.23	19.10	20.62	21.47	21.55	21.55	21.53	21.43	19.30	19.70	19.15	20.57
4	18.20	19.12	20.62	21.50	21.53	21.53	21.50	21.45	18.75	19.70	19.10	20.57
5	18.20	19.12	20.65	21.50	21.57	21.57	21.50	21.43	18.50	19.72	19.10	20.57
6	18.18	19.30	20.67	21.50	21.53	21.68	21.50	21.43	18.40	19.72	19.15	20.57
7	18.15	19.45	20.67	21.47	21.55	21.65	21.50	21.40	18.30	19.72	19.35	20.67
8	18.12	19.53	20.70	21.50	21.50	21.62	21.50	21.40	18.30	19.70	19.25	20.67
9	18.10	19.55	20.72	21.52	21.50	21.60	21.48	21.38	18.30	19.70	19.20	20.67
10	18.10	19.60	20.72	21.50	21.50	21.60	21.48	21.38	18.38	19.68	19.20	20.67
11	18.10	19.63	20.72	21.50	21.50	21.57	21.50	21.38	18.33	19.65	19.20	20.67
12	18.10	19.63	20.72	21.50	21.47	21.53	21.57	21.43	18.35	19.65	19.20	20.67
13	18.15	19.65	20.72	21.50	21.50	21.55	21.55	21.43	18.35	19.60	19.20	20.67
14	18.17	19.78	20.72	21.47	21.50	21.55	21.53	21.43	18.35	19.50	19.15	20.67
15	18.17	20.10	20.75	21.47	21.48	21.53	21.50	21.43	18.35	19.40	19.15	20.67
16	18.20	20.12	20.75	21.45	21.48	21.50	21.50	21.43	18.35	19.30	19.20	20.67
17	18.23	20.12	20.75	21.45	21.48	21.50	21.73	21.42	18.30	19.30	19.20	20.67
18	18.25	20.15	20.75	21.52	21.50	21.48	21.68	21.42	18.75	19.25	19.20	20.67
19	18.25	20.15	20.75	21.47	21.50	21.48	21.60	21.42	18.75	19.25	19.20	20.67
20	18.27	20.15	20.83	21.45	21.52	21.48	21.55	21.42	19.06	19.20	19.25	20.67
21	18.27	20.15	20.95	21.47	21.55	21.48	21.53	21.42	19.20	19.30	19.25	20.67
22	18.30	20.17	21.00	21.47	21.55	21.45	21.50	21.40	19.20	19.35	19.20	20.70
23	18.60	20.17	21.03	21.47	21.53	21.55	21.45	21.40	19.20	19.40	19.18	20.80
24	18.75	20.17	21.10	21.47	21.50	21.53	21.45	21.40	19.20	19.45	19.15	20.85
25	18.85	20.17	21.12	21.57	21.50	21.50	21.45	21.40	19.20	19.45	19.92	20.87
26	18.87	20.17	21.15	21.55	21.48	21.50	21.43	21.40	19.20	19.45	19.95	20.87
27	18.87	20.20	21.16	21.55	21.53	21.50	21.45	21.50	19.20	19.40	19.98	20.87
28	19.00	20.20	21.55	21.77	21.55	21.52	21.45	21.30	19.20	19.35	20.03	20.87
29	19.05	20.20	.....	21.65	21.53	21.65	21.43	20.15	19.20	19.35	20.05	20.87
30	19.05	20.30	.....	21.55	21.53	21.62	21.45	20.95	19.40	19.35	20.05	20.87
31	19.07	20.45	.....	21.55	.....	21.57	.....	20.40	19.55	.....	20.55	.....

The depth of water is shown in feet and decimals of a foot. Height of roadway, 21.84 feet.

TABLE
Showing the daily height of water in KETTLE BROOK NO. 3 RESERVOIR and rainfall for year ending November 30, 1917

Date	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall
1	22.35	.98	23.67	.47	25.52	.25	26.10	.26	26.18	.16	26.10	.54	26.13	.26	26.05	.04	25.05	.24	24.79	.13	23.05	.21	20.70	
2	22.35		23.70		25.92		25.07		26.15		26.17		26.13		26.03		24.99		24.08		22.95	.06	20.16	
3	22.35		23.72		25.97		25.07	.05	26.15		26.12		26.13		26.03	.08	24.90		24.08		22.95		20.16	
4	22.32		23.75	.66	25.97		25.10	.28	26.12		26.12		26.10		26.05	.16	24.90		24.10		22.95		20.16	
5	22.30	.04	23.75	.38	25.90		25.10		26.10		26.12		26.10		26.03		24.85		24.10		22.95		20.16	
6	22.28		23.75	.77	25.88		25.07	1.04	26.12	.87	26.25	1.45	26.10	.08	26.03		24.75		23.10	.07	21.95	.63	20.38	
7	22.28		23.68		25.85		25.07		26.12		26.25		26.10	.13	26.03		24.75		23.10		21.95		20.38	
8	22.28		23.68		25.85		25.07		26.12		26.25		26.10	.13	26.03		24.75		23.10		21.95		20.38	
9	22.28		23.68		25.85		25.07		26.12		26.25		26.10	.13	26.03		24.75		23.10		21.95		20.38	
10	22.28	.29	23.68	.02	25.87		25.12	.38	26.10	.26	26.20	.09	26.03	.03	26.00		24.65		23.10	.22	21.82		20.38	
11	22.28		23.68		25.87		25.10		26.10		26.18	.07	26.03		26.00		24.70		23.10		21.82		20.38	
12	22.31	.32	23.67	.49	25.87		25.10		26.10		26.16		26.03		26.00		24.70		23.10		21.82		20.38	
13	22.40	.39	23.67		25.87		25.10	.41	26.08		26.15	.69	26.03	.22	26.00		24.70		23.10	.89	21.82	.20	21.97	
14	22.40		23.67		25.87		25.10		26.08		26.15	.19	26.03		26.00		24.70		23.10		21.82		21.97	
15	22.47	.51	23.68		25.87		25.07	.18	26.10		26.15	.06	26.03		26.00		24.70		23.10	.89	21.82	.18	21.97	
16	22.47		23.68		25.87		25.07		26.10		26.15	.06	26.03		26.00		24.70		23.10		21.82		21.97	
17	22.50		23.68		25.70		25.05		26.08		26.03		26.03		26.00		24.80		23.05	.81	21.82		21.15	
18	22.53		23.68		25.70		25.05		26.08		26.03		26.03		26.00		24.80		23.05		21.82		21.15	
19	22.53		23.68		25.70		25.12	.50	26.10		26.03		26.03	1.08	26.03		24.80		23.05		21.82		21.15	
20	22.53		23.68		25.70		25.07		26.10		26.03		26.03		26.00		24.80		23.05		21.82		21.15	
21	22.63	.27	23.67	.48	25.90		25.07		26.15	.25	26.03		26.10		26.03		24.95		24.90		20.25	.65	21.27	
22	22.63		23.67		25.98		25.07		26.15	.09	26.03		26.10		26.03		24.95		24.90		20.25		21.27	
23	22.90	.93	23.67	.06	25.98		25.07	.43	26.10		26.13	.67	26.05		26.00		24.85	1.10	24.55		20.15		21.33	
24	23.10		23.67	.31	26.10		25.18		26.12		26.13		26.07	.24	26.00		24.80		24.55		19.95		21.33	
25	23.21		23.67		26.10		25.18		26.10		26.10		26.07		26.00		24.80		24.55		19.95		21.33	
26	23.30		23.60		26.15		25.18		26.08		26.10	.04	26.05		26.00		24.45		24.50		19.85		21.33	
27	23.33		23.60	.97	26.15		25.18		26.12	.28	26.10		26.07	.41	26.00		24.35	.86	23.90		19.98		21.35	
28	23.50	.15	23.90		26.15		25.18	1.07	26.12	.25	26.05		26.07		26.00		24.20		23.65		20.03		21.37	
29	23.60	.08	23.90		26.15		25.18		26.08		26.03		26.03		26.00		24.10		23.50		20.03		21.37	
30	23.63		23.63		26.15		25.15		26.12		26.22		26.03		26.00		24.00		23.35		20.07		21.70	.08
31	23.65		23.80		26.15		25.15		26.17		26.05	.14	26.05		26.00		24.85		23.90		20.10		21.72	
Totals	3.85		2.89		3.73		4.37		1.69		4.10		4.47		1.85		6.89		1.10		7.70		1.66	

The rainfall is shown in inches and decimals of an inch. The depth of water is shown in feet and decimals of a foot. Height of railway, 26 feet. Rainfall for the year ending November 30, 1917, 42.81 inches.

TABLE

Showing the daily height of water in KETTLE BROOK NO. 4 RESERVOIR for year ending November 30, 1917

	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT'MBER	OCTOBER	NOVEMBER
1	18.55	18.17	19.97	21.98	26.60	27.80	27.87	27.78	27.40	21.05	16.95	15.78
2	18.55	18.20	20.68	22.05	26.73	27.90	27.87	27.77	27.35	20.90	16.65	15.80
3	18.45	18.22	20.05	22.25	26.95	27.87	27.87	27.77	26.95	20.80	16.50	15.82
4	18.35	18.25	20.05	22.50	26.95	27.85	27.85	27.80	26.55	20.75	16.40	15.90
5	18.25	18.25	20.08	22.65	26.98	27.90	27.85	27.77	26.35	20.62	16.30	15.95
6	18.10	18.45	20.10	22.82	27.08	27.98	27.85	27.77	26.15	20.50	16.20	15.98
7	17.90	18.58	20.10	22.92	27.20	27.95	27.85	27.75	25.75	20.30	16.10	16.08
8	17.80	18.68	20.18	23.00	27.45	27.98	27.85	27.74	25.45	20.15	16.95	16.07
9	17.65	18.63	20.15	23.12	27.60	27.90	27.88	27.74	25.10	20.00	16.80	16.10
10	17.55	18.70	20.15	23.15	27.70	27.90	27.88	27.74	24.60	19.90	16.70	16.15
11	17.45	18.72	20.15	23.20	27.78	27.88	27.86	27.74	24.60	19.80	16.60	16.18
12	17.35	18.72	20.15	23.30	27.75	27.85	27.90	27.78	24.20	19.65	16.50	16.22
13	17.27	18.72	20.15	23.35	27.80	27.88	27.87	27.78	23.95	19.50	16.40	16.22
14	17.40	18.80	20.15	23.40	27.80	27.88	27.85	27.78	23.75	19.35	16.25	16.25
15	17.48	19.38	20.17	23.43	27.78	27.85	27.92	27.75	23.60	19.20	16.10	16.25
16	17.45	19.42	20.17	23.45	27.78	27.88	27.85	27.75	23.55	19.05	15.00	16.28
17	17.48	19.45	20.17	23.47	27.78	27.88	28.00	27.75	23.55	18.85	14.85	16.30
18	17.50	19.47	20.17	23.47	27.80	27.80	27.95	27.75	23.55	18.75	14.78	16.32
19	17.52	19.47	20.17	23.60	27.80	27.80	27.90	27.75	23.40	18.65	14.60	16.32
20	17.55	19.47	20.30	23.75	27.88	27.80	27.85	27.75	23.20	18.50	14.50	16.35
21	17.57	19.47	20.45	23.80	27.85	27.80	27.82	27.75	23.20	18.40	14.40	16.37
22	17.60	19.50	20.50	23.87	27.85	27.80	27.80	27.78	23.10	18.25	14.25	16.40
23	17.80	19.60	20.55	23.90	27.82	27.87	27.78	27.78	22.75	18.15	14.15	16.55
24	17.90	19.60	20.60	24.18	27.80	27.85	27.80	27.78	22.65	18.00	14.00	16.60
25	18.05	19.52	20.68	24.63	27.80	27.88	27.87	27.73	22.55	17.85	14.20	16.68
26	18.08	19.62	20.65	24.92	27.78	27.88	27.85	27.73	22.35	17.70	14.23	16.68
27	18.10	19.62	21.20	25.20	27.82	27.88	27.85	27.70	22.05	17.55	14.25	16.65
28	18.12	19.52	21.70	25.92	27.85	27.85	27.85	27.66	21.90	17.35	14.28	16.65
29	18.15	19.64	.....	26.18	27.82	27.95	27.78	27.57	21.65	17.25	14.30	16.67
30	18.16	19.70	.....	26.30	27.82	27.98	27.80	27.50	21.55	17.10	14.32	16.67
31	18.17	19.85	.....	26.45	.....	27.87	.....	27.45	21.20	.....	15.55	.....

The depth of water is shown in feet and decimals of a foot. Height of railway, 27.74 feet.

TABLE
Showing the daily height of water in HOLDEN NO. 1 RESERVOIR for year ending November 30, 1917

	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT'MBER	OCTOBER	NOVEMBER
1	22.50	16.68	19.75	24.92	30.22	31.58	31.70	31.20	30.71	31.43	28.23	24.15
2	22.30	16.58	19.91	25.20	30.23	31.67	31.70	31.22	30.69	31.42	28.08	24.06
3	21.99	16.55	20.04	26.42	30.17	31.61	31.68	31.23	30.65	31.30	27.90	23.91
4	21.75	16.59	20.20	25.63	30.14	31.73	31.73	31.20	30.58	31.28	27.69	23.66
5	21.54	16.53	20.35	25.90	30.20	31.60	31.68	31.18	30.58	31.25	27.45	23.47
6	21.35	16.73	20.56	26.09	30.23	31.81	31.68	31.23	30.64	31.15	27.18	23.26
7	21.14	16.91	20.68	26.26	30.31	31.70	31.55	31.18	30.81	31.13	27.03	23.09
8	20.92	16.98	20.79	26.44	30.23	31.67	31.48	31.18	31.03	31.10	26.82	22.94
9	20.60	16.98	20.92	26.77	30.21	31.69	31.37	31.20	31.28	31.07	26.64	22.74
10	20.40	17.01	21.06	27.00	30.16	31.57	31.26	31.18	31.47	31.04	26.44	22.64
11	20.19	17.03	21.15	27.17	30.13	31.63	31.29	31.18	31.61	30.98	26.14	22.39
12	19.99	17.03	21.28	27.40	30.16	31.63	31.40	31.23	31.73	30.74	25.98	22.19
13	19.95	16.93	21.41	27.65	30.23	31.58	31.56	31.28	31.63	30.70	25.81	21.93
14	19.63	16.92	21.56	27.91	30.36	31.56	31.63	31.25	31.57	30.60	25.61	21.70
15	19.36	17.46	21.69	28.15	30.29	31.33	31.50	31.22	31.43	30.41	25.36	21.60
16	19.10	17.60	21.81	28.23	30.36	31.53	31.50	31.20	31.31	30.30	25.15	21.30
17	18.91	17.59	21.93	28.35	30.58	31.45	31.58	31.20	31.26	30.10	24.95	21.08
18	18.66	17.59	22.03	28.63	30.66	31.47	31.63	31.19	31.34	30.03	24.73	20.87
19	18.46	17.58	22.14	28.74	30.82	31.57	31.60	31.16	31.40	29.91	24.47	20.92
20	18.24	17.74	22.27	28.86	30.91	31.53	31.58	31.14	31.33	29.76	24.33	19.79
21	18.01	17.90	22.35	28.87	31.07	31.55	31.49	31.12	31.29	29.63	24.19	19.42
22	17.71	18.13	22.49	28.91	31.33	31.29	31.40	31.11	31.32	29.50	24.03	19.36
23	17.65	18.26	22.60	29.13	31.53	31.36	31.27	31.09	31.35	29.36	23.73	19.43
24	17.52	18.44	22.77	29.33	31.57	31.39	31.19	31.06	31.33	29.18	23.47	19.43
25	17.32	18.58	22.93	30.45	31.63	31.29	31.16	31.04	31.32	29.10	23.83	19.43
26	17.08	18.75	23.04	30.50	31.68	31.23	30.98	30.99	31.27	28.95	23.81	19.41
27	16.90	18.91	23.15	30.48	31.68	31.16	31.15	30.97	31.25	28.79	23.78	19.18
28	16.63	19.09	24.56	30.70	31.68	31.11	31.11	30.93	31.22	28.67	24.00	19.68
29	16.44	19.25	.....	30.40	31.54	31.63	31.12	30.93	31.13	28.55	23.91	19.81
30	16.50	19.41	.....	30.82	31.57	31.66	31.18	30.73	31.38	28.51	23.82	19.97
31	16.58	19.58	.....	30.23	.....	31.71	.....	30.70	31.43	.....	24.23	.....

The depth of water is shown in feet and decimals of a foot. Height of roadway, 30.10 feet.

TABLE
Showing the daily height of water in HOLDEN NO. 2 RESERVOIR and the rainfall for year ending November 30, 1917

Date	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall
1	36.13	..	35.87	..	36.43	.52	36.56	..	38.95	.12	39.88	.20	39.73	..	39.88	..	38.37	..	39.34	.15	35.11	..	32.85	..
2	36.08	..	35.93	..	36.40	..	36.66	..	38.96	..	39.78	.39	40.09	..	39.93	.03	38.19	..	39.47	..	34.78	..	32.78	..
3	36.18	..	35.73	.66	36.36	..	36.36	.07	38.96	..	39.68	..	40.09	..	39.88	.40	38.19	.03	39.61	..	34.78	..	32.69	..
4	36.24	..	35.63	1.21	36.34	..	36.55	..	38.95	..	39.58	..	40.27	..	39.88	..	37.93	..	39.67	..	34.54	.04	32.53	..
5	36.25	.10	35.58	1.85	36.39	1.54	36.58	1.05	38.93	..	39.48	.98	39.38	..	39.88	..	37.89	..	39.46	..	34.44	.12	32.57	..
6	36.23	.01	35.63	.27	36.43	..	36.87	..	38.93	.42	39.85	.57	39.83	.07	39.30	..	37.87	..	39.48	.07	34.44	.39	32.50	..
7	36.13	..	35.66	..	36.43	..	36.83	..	38.91	.32	40.01	..	39.63	.13	39.73	.05	37.88	..	39.44	..	34.51	..	32.73	..
8	36.08	..	35.73	..	36.43	..	36.83	.40	38.91	..	40.06	..	39.54	.14	39.53	..	37.89	..	39.38	.25	34.50	.10	32.63	..
9	36.02	.32	35.66	..	36.43	..	36.83	..	38.90	.11	40.23	..	39.73	.22	39.63	.02	37.88	..	39.52	..	34.52	..	32.51	..
10	36.26	..	35.66	..	36.48	..	36.83	..	38.78	..	40.22	..	39.73	..	39.63	..	37.88	..	39.52	..	34.41	.06	32.68	..
11	36.26	..	35.66	..	36.48	..	36.83	..	38.78	..	40.22	..	39.73	..	39.63	..	37.88	..	39.52	..	34.41	.16	32.63	..
12	36.23	.78	35.66	..	36.48	..	36.83	..	38.71	..	40.18	..	39.84	.53	39.73	.22	38.92	..	39.39	..	34.36	..	32.73	..
13	36.23	..	35.66	..	36.48	..	36.83	..	38.71	..	40.18	..	39.84	.53	39.73	.22	38.92	..	39.39	..	34.36	.57	32.66	..
14	36.18	..	35.59	1.00	36.43	..	36.83	.43	38.70	..	40.16	.23	39.71	..	39.73	.04	39.63	..	39.09	..	34.50	..	32.59	..
15	36.08	.34	35.60	..	36.43	..	36.83	..	38.46	..	40.16	..	39.83	..	39.63	..	39.09	..	38.62	..	34.50	.15	32.68	..
16	36.01	.16	35.88	..	36.11	..	36.93	..	38.46	..	39.94	..	40.33	..	39.63	..	39.27	..	38.50	..	34.53	..	32.58	..
17	36.18	..	35.98	..	36.11	..	36.93	.43	38.38	..	39.74	..	40.33	..	39.63	..	39.27	..	38.50	..	34.46	..	32.68	..
18	36.18	..	35.98	..	36.18	..	36.93	..	38.38	..	39.74	..	40.33	..	39.63	..	39.27	..	38.50	..	34.46	.02	32.95	..
19	36.13	..	35.99	..	36.18	..	36.93	..	38.38	..	39.74	..	40.33	..	39.63	..	39.27	..	38.50	..	34.46	.02	32.95	..
20	36.06	..	36.01	..	36.13	..	36.98	..	38.38	..	39.74	..	40.18	..	39.39	.05	39.40	..	38.12	.45	34.32	..	33.20	..
21	36.00	.21	36.10	..	36.09	..	36.98	..	38.38	..	39.74	..	40.18	..	39.39	.05	39.40	..	38.12	..	34.32	.77	33.59	..
22	35.93	1.05	36.28	.55	36.03	..	36.98	..	38.38	..	39.74	..	40.11	..	39.24	..	39.51	.58	37.22	..	34.40	..	33.85	.07
23	35.89	..	36.30	..	36.03	..	36.88	..	38.31	..	39.31	.15	40.01	..	39.19	..	39.43	..	37.02	..	34.40	..	34.20	..
24	35.93	..	36.20	..	36.03	..	36.88	..	38.38	..	39.17	.49	39.97	..	39.19	..	39.43	..	36.86	..	34.38	..	34.82	..
25	36.08	..	36.28	..	35.96	.28	36.96	..	38.99	..	39.15	..	40.10	.32	39.03	..	39.38	..	36.79	..	34.34	2.07	33.96	..
26	36.13	..	36.20	..	36.03	..	36.93	.51	39.43	..	39.08	..	40.13	..	38.98	.10	39.35	.06	36.47	..	34.54	.08	33.97	..
27	36.01	.10	36.24	..	36.33	..	36.93	..	39.43	..	38.93	..	40.05	..	38.88	..	39.38	..	36.17	..	34.06	..	33.56	..
28	35.98	.14	36.31	..	36.38	.70	39.05	..	40.08	.48	39.04	..	40.13	..	38.80	..	39.48	..	35.93	..	33.56	..	36.43	..
29	35.88	..	36.43	..	36.53	..	39.22	1.10	40.10	.02	39.03	.14	39.93	..	38.68	..	39.38	..	35.38	..	33.22	.53	36.93	.14
30	35.81	..	36.43	..	36.53	..	39.22	..	40.13	..	39.00	.84	39.88	..	38.68	..	39.29	..	35.38	..	33.22	..	36.96	..
31	35.77	..	36.41	..	36.43	..	38.85	..	40.12	..	39.18	..	39.78	.08	38.73	..	39.33	..	35.21	..	32.76	.14	36.49	..
Totals	3.23	..	3.68	..	4.39	..	4.73	..	1.81	..	4.60	..	4.54	..	1.57	..	6.56	..	1.36	..	6.94	..	8.4	..

The rainfall is shown in inches and decimals of an inch. The depth of water is shown in feet and decimals of a foot. Height of railway, 38.75 feet. Rainfall for the year ending November 30, 1917, 44.25 inches.

TABLE
Showing the daily height of water in KENDALL RESERVOIR and rainfall for the year ending November 30, 1917

Date	DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER	
	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall	Water	Rainfall
1	24.54	.98	26.74		26.22	.18	24.18		29.19	.12	29.08		28.88		28.60	.04	26.11		22.89		21.49	.15	25.12	
2	24.72		26.67		26.09		24.61		29.14		29.08	.44	28.66		28.54		26.00		22.29	.19	21.62		25.83	
3	24.82		26.82		25.96		24.69		29.14		29.08		28.16		28.54		25.88	.04	22.17		21.62		26.39	
4	24.95		26.85	.76	25.78	.80	24.67	.80	29.15		29.08		28.46		28.46		25.70		22.04		21.83		26.84	
5	24.97	.08	26.91	.85	25.69	.85	24.62	.85	29.11	.28	29.09	.28	28.87	.28	28.30		25.52		21.90		21.88	.63	26.87	
6	25.02		26.79	.91	25.62	1.21	24.64	.73	29.18	.24	29.18	.68	28.87	.22	28.20		25.22		21.77		21.88		26.88	
7	25.15		27.01		25.47		24.46	.18	29.15	.29	29.13		28.89	.18	28.11		24.95		21.64	.29	21.66		26.73	
8	25.19		27.44		25.36		24.46		29.15		29.09		28.88		28.02		24.61		21.41		21.67		26.88	
9	25.27	.35	27.39		25.24	.62	24.71	.19	29.18	.11	29.05	.10	28.88	.08	27.91		24.22	.80	21.86		21.73		26.88	
10	25.22		27.84		24.95		24.77		29.18		29.01		28.89		27.84		23.82		21.94		21.74	.19	26.88	
11	25.36		27.84		24.95		24.77	.19	29.18		29.01		28.89	.18	27.84		23.60		21.12		21.74	.60	26.18	
12	25.52	.28	27.84		24.76		24.76		29.07	.22	28.85	.22	28.85	.64	27.78	.74	23.49	.17	21.15		22.07		26.18	
13	25.69		27.71	.50	24.62		24.76		29.07	.08	28.85	.08	28.85	.22	27.62		23.24	.49	21.52		22.07	.67	26.36	
14	25.72		27.63	.69	24.36	.19	24.72	.19	29.05	.06	28.84	.06	28.84	.68	27.50		23.11	.81	21.22		22.17		26.59	
15	25.82	.50	27.60		24.19		24.87		29.05		29.01		28.94	.66	27.34		22.98		21.22		22.17		26.59	
16	25.92		27.60		24.19		24.87		29.05		29.01		28.94	.74	27.43		22.98	.04	21.24		22.18	.20	26.59	
17	25.92		27.60		24.19		24.87		29.05		29.01		28.94	.74	27.43		22.98	.04	21.24		22.18	.20	26.59	
18	25.99		27.60		24.19	.56	24.79	.56	28.79	.02	28.02		28.15	.74	27.43		22.98	.14	21.37	.86	22.15		26.41	
19	26.08		27.71		23.98		24.52		28.69	.06	28.02		28.18		27.26	.11	22.77		21.37		22.17	.08	26.47	
20	26.07		27.54		23.78	.29	24.71	.29	28.74		28.02		28.07		27.06		22.60		21.38		22.26	.49	26.59	
21	26.15	.26	27.49	.19	23.58	.02	24.99		28.43	.39	28.01	.07	28.05		27.05		22.57		21.39		22.30		26.59	
22	26.38	.64	27.39	.64	23.49	.02	24.99		28.84	.04	28.01	.07	28.05		26.98		22.78	1.19	21.48		22.37		26.87	
23	26.49		27.21		23.28	.19	24.41	.69	28.60		28.02		28.00		26.90		22.78		21.48		22.43		26.41	.76
24	26.49		27.08		23.10		24.74		28.51		28.06	.06	28.04	.29	26.80		22.71	.89	21.44		22.45		26.40	.02
25	26.84		26.91		23.00		24.97		28.48		28.06		28.03	.28	26.81		22.70		21.44		23.12		26.27	
26	26.90		26.76		23.69	1.16	25.16		28.74		28.04		28.03	.38	26.73		22.58		21.48		23.45		26.08	
27	26.98		26.63	.09	23.91		25.76	1.19	28.87	.24	28.03	.84	28.01	.38	26.54		22.38		21.47		23.67		25.98	
28	27.08		26.60		23.91		25.94	.18	29.05	.15	28.03	.27	28.00		26.53		22.24		21.47		23.70	.68	25.84	
29	26.86		26.40	.04	23.91		25.94		29.05		28.03		28.00		26.45		22.05		21.45		23.84		25.47	
30	26.86		26.27		23.11		23.11		29.04		28.81		28.66	.16	26.31		22.28	1.40	21.46	.82	24.07	.82	25.80	
31	Totals	8.04		8.18		4.02		4.67		1.68		8.71		4.85		1.17		6.92		1.18		7.94		.78

The rainfall is shown in inches and decimals of an inch. The depth of water is shown in feet and decimals of a foot. Height of railway, 28 feet. Rainfall for the year ending November 30, 1917, 42.59 inches.

WORCESTER, MASS., January 2, 1918.

To the Honorable City Council:

Gentlemen:—The following supplementary report showing details of accounts in the Water Department, which could not be made ready at the time of the filing of the annual report is hereby submitted.

Very respectfully,

GEO. W. BATCHELDER,
Water Commissioner.

EXHIBIT A

MAINTENANCE

Receipts

Balance December 1, 1916.....	\$7,703.98	
Net balance available brought forward.....		\$7,703.98
Appropriation from budget.....		90,000.00
Additional appropriations.....		35,000.00
Receipts from miscellaneous sources.....		32,714.87
Total resources.....		<u>\$165,418.85</u>

Expenditures

Operating expenses as per Schedule 2.....		<u>\$161,684.26</u>
Balance November 30, 1917.....		\$3,734.59

EXHIBIT B

CONSTRUCTION

Receipts

Balance December 1, 1916.....	\$32,811.20	
Less reserve on contracts 1916.....	2,720.00	
Net balance available brought forward.....		\$30,091.20
Appropriation from water rates.....		25,000.00
Additional appropriations and transfers.....		35,059.96
Receipts:		
From sundry persons, corporations, etc.....	\$44,434.39	
From sundry departments.....	2,539.91	
From miscellaneous sources.....	95.10	
Amount reserved on contracts 1917.....	2,561.05	
Total resources.....		<u>\$49,630.45</u>
		\$189,781.61

EXPENDITURES

Stock and Tools:

Materials and tools charged to storehouse less transfers to other accounts.....	\$4,321.75
Construction of mains, Schedule 3.....	63,290.38

Construction of services:		
Cost to city	12,043 .11	
Cost to owners of property	30,802 .02	
Construction of temporary mains:		
Cost to city	396 .36	
Cost to owners of property	514 .40	
	<u> </u>	\$111,368 .02
General expenses:		
Injury to persons	\$221 .43	
Damage to property	21 .00	
Vacations	1,496 .74	
Salary Commissioner (part) ..	1,212 .21	
Traveling expense	16 .83	
Miscellaneous	7 .12	
	<u> </u>	\$2,975 .33
Less wages uncalled for	23 .82	
		<u> </u>
		\$2,951 .51
Cost of work charged to other departments, corporations, individuals, etc.	\$15,428 .48	
	<u> </u>	\$129,748 .01
Total net expenditures		<u> </u>
Balance November 30, 1917		\$10,033 .60

EXHIBIT C

PIPE EXTENSION AND IMPROVEMENT

Receipts

Balance December 1, 1916	\$23,301.99	
Net balance available brought forward		23,301 .99
Amount reserved on contracts 1917		631 .02
		<u> </u>
Total resources		\$23,933 .01

Expenditures

Gross expenditures	\$32,204 .31	
Less refunds and transfers	8,473 .79	
	<u> </u>	\$23,730 .52
Net expenditures as per Schedule 4		<u> </u>
Balance November 30, 1917		\$202 .49

EXHIBIT D

ASNEBUMSKIT SUPPLY

Receipts

Balance December 1, 1916	\$7,017 .69	
Net balance available brought forward		\$7,017 .69
Appropriations from loans		350,000 .00
		<u> </u>
Total resources		\$357,017 .69

Expenditures

Gross expenditures.....	\$157,488.97	
Less refunds and transfers.....	1,594.42	
	<hr/>	
Net expenditures.....		\$155,894.55
Balance November 30, 1917.....		<hr/>
		\$201,123.14

SERIAL FUNDS

EXHIBIT E

Receipts

Balance December 1, 1916.....	\$794.00	
Appropriation from budget.....	285.00	
Additional appropriations.....	124,206.00	
	<hr/>	
Total resources.....		\$125,285.00

Expenditures

Expenditures.....		\$125,000.00
		<hr/>
Balance November 30, 1917.....		\$285.00

1911 EMERGENCY SUPPLY

EXHIBIT F

Receipts

Balance December 1, 1916.....	\$4,468.88	
Net balance available brought forward.....		\$4,468.88
Gross receipts.....	\$7,000.00	
Gross expenditures.....	183.00	
	<hr/>	
Net receipts as per Schedule 5.....		\$6,817.00
		<hr/>
Balance November 30, 1917.....		\$11,285.88

TATNUCK SUPPLY

EXHIBIT G

Receipts

Balance December 1, 1916.....	\$49,910.22	
Total resources.....		\$49,910.22

Expenditures

Expenditures.....		\$5,742.68
		<hr/>
Balance November 30, 1917.....		\$44,167.54

WATER RATES

EXHIBIT H

Receipts

From A.	Pay rates from private consumers.....	\$565,631.78	
From C.	Pay rates from city.....	10,734.18	
			<u>\$576,365.96</u>

Expenditures

Appropriation to construction.....	\$60,059.96	
Appropriation to maintenance.....	125,000.00	
Appropriation to interest on water loan.....	201,900.00	
Appropriation to water loan sinking fund.....	65,200.00	
Appropriation to water loan, serial payments.....	124,206.00	
		<u>\$576,365.96</u>

SCHEDULE 1

MAINTENANCE—RECEIPTS

I. RECEIPTS FROM MISCELLANEOUS SOURCES

B.	Fees for turning water off and on.....		\$319.00
G.	Receipts from miscellaneous sources:		
	20. Sundry persons, prior.....	\$37.07	
	21. Sundry persons, current.....	1,454.01	
	23. Sundry departments, current.....	97.01	
	24. Miscellaneous.....	1,638.70	
			<u>\$3,226.79</u>
	Total receipts, Exhibit A.....		<u>\$3,545.79</u>

SUMMARY

I.	Receipts from miscellaneous sources.....	\$3,545.79	\$3,545.79
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SCHEDULE 2

MAINTENANCE—OPERATING EXPENSES

II. COLLECTING AND SUPPLYING WATER

J.	General management:		
	101. Salaries and expenses		
	of officers:		
	a. Commissioner (part).....	\$1,212.22	
	b. Registrar.....	521.51	
			<u>\$1,733.73</u>
	102. Salaries and expenses		
	of employees:		
	a. Clerical.....	\$5,243.55	
	b. Meter readers...	6,974.51	

c. Inspectors	2,804.00	
d. Census takers	957.50	
g. Stenographer	664.70	
		16,644.26
104. General office expense:		
a. Telephone and telegraph	\$49.27	
b. Books and periodicals	35.00	
c. Office furniture	23.01	
d. Maps	10.16	
e. Adding machine expense	1.90	
		119.34
105. Stationery, printing and postage		2,372.76
106. Insurance		598.91
107. Legal expenses and land damages		1,477.31
108. General department expenses:		
a. Auto hire, unclassified	\$141.00	
b. Committee expenses	359.75	
c. Water analysis	50.07	
e. Visiting committees	7.00	
f. Engineering, unclassified	397.60	
g. Refunds	7.00	
i. Commissioner's auto	67.72	
k. Traveling expenses	92.97	
		1,128.11
		<u>\$24,064.42</u>
K. Care of Sources of Supply:		
115. Drainage area and reservations:		
a. Kettle Brook	\$463.12	
b. Lynde Brook	313.65	
c. Holden	874.00	
		\$1,650.77
116. Impounding dams and reservoirs:		
a. Kettle Brook	\$2,413.73	
b. Lynde Brook	2,921.55	
c. Holden	3,858.02	
d. Parsons	3,298.75	
g. Kendall	12,141.37	
		24,633.42
		<u>\$26,284.19</u>

L. Care of Distribution System:

120. Pipes:

a. Opening blow-offs and flushing mains	\$608.50
b. Protecting main pipes	24.93
c. Cleaning services . .	3,299.86
d. Thawing services . .	586.19
e. Inspecting fire pipes	1,240.53
g. Electrolysis expense	47.00
h. Thawing main pipes	541.31
i. Protecting service pipes	10.56
k. Locating pipes	23.51

\$6,377.39

121. Valves and valve boxes:

a. Inspecting, cleaning and oiling main gates	\$964.93
b. Inspecting, cleaning and oiling hydrant gates and boxes . . .	400.95
d. Cleaning service boxes	38.16
f. Setting gate boxes .	1.25
g. Packing around valves	13.35

1,418.64

122. Fire Hydrants:

a. Inspecting hydrants	\$2,756.94
c. Flushing hydrants .	1,213.91
d. Oiling and packing hydrants	231.06
e. Pumping hydrants.	45.77
f. Numbering hydrants	20.91
g. Thawing hydrants .	235.96
h. Taking pressure of hydrants	7.13

4,511.68

123. Meters and meter boxes and vaults:

b. Repacking and tightening connec- tions	\$120.64
c. Packing ground meters	91.62
d. Inspecting meters . .	11.98
e. Testing new meters	5.29
f. Cleaning meter pits	76.29
g. Setting meter boxes	5.79

311.61

124. Miscellaneous:

a. Turning water off and on.....	\$1,016.81
b. Cleaning watering troughs and fountains.....	55.39
c. Cleaning stop boxes	47.33
d. Attending fires....	15.20
e. Lighting trenches..	179.24
f. Ice for drinking fountains.....	1,200.77
g. Pumping water from cellar.....	30.59
h. Locating leaks....	998.02
j. Locating gate boxes	303.81
k. Tending pressure valves.....	3.56

 3,850.72

\$16,470.04

III. REPAIRS

KK. Repairs at Sources of Supply:

125. Drainage area and reservations:

b. Lynde Brook.....	\$1.50
c. Holden.....	93.25

 \$94.75

126. Impounding dams and reservoirs:

a. Kettle Brook.....	\$31.50
b. Lynde Brook.....	2.27
c. Holden.....	778.36
d. Parsons.....	18.14
g. Kendall.....	46.78

 877.00

\$971.75

LL. Repairs to Distribution System:

180. Pipes:

a. Repairing mains...	\$2,769.22
b. Lowering pipes...	226.53
c. Repairing services..	1,900.04
d. Repairing trenches..	3,407.65
e. Repairing elevator pipes.....	42.62
f. Repairing hydrant trenches.....	60.58
g. Extending service..	.74
h. Lowering service pipes.....	79.36

 \$8,486.74

181. Valves and valve boxes:

a. Repairing main gates	\$727.38
c. Repairing valves..	34.74

	d. Resetting and grading service boxes . .	2,105.72	
	e. Resetting and grading main gate boxes	134.11	
	f. Cutting in valves . .	83.87	
		<hr/>	3,085.27
182.	Fire hydrants:		
	a. Repairing hydrants	\$3,237.87	
	b. Relocating hydrants	170.22	
	c. Painting hydrants .	447.53	
	d. Lowering hydrant jackets	329.68	
	e. Grading hydrant gate boxes	3.00	
	f. Painting indicator posts . . . . .	.20	
		<hr/>	4,238.50
183.	Meters and meter boxes and vaults:		
	a. Taking off and putting back meters .	\$4,419.62	
	b. Washing and cleaning meters	379.07	
	c. Testing meters	235.09	
	d. Repairing meters . .	2,209.74	
	e. Repairing meter parts	1,062.81	
	f. Maintenance of meter shop	117.91	
	g. New meter parts . .	420.29	
	h. Repairing meter boxes and covers . .	2.00	
	i. Moving meters	9.00	
	j. Cutting meter packings	22.52	
	k. Painting meters . . .	16.31	
		<hr/>	8,894.36
184.	Miscellaneous:		
	a. Repairing watering troughs and fountains	\$452.73	
	b. Repairing sidewalk boxes	5.38	
	c. Painting fountains .	9.26	
	e. Repairing tamping machine . . . . .	.90	
		<hr/>	468.27
			<hr/>
			\$25,173.14

IV. MISCELLANEOUS EXPENSES

M.	Cost of work charged to corporations, individuals, etc.	\$1,644.15
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N. Sundry expenses..... 5,266.79

\$6,910.94

V. TAXES

O. Taxes:

140. Holden..... \$767.90
 141. Leicester..... 430.89
 142. Paxton..... 211.80

1,410.09

CLEARING ACCOUNTS

Shop and Yard:

1. Cleaning and grading yard... \$48.12
 2. Clerical labor..... 2,398.71
 3. Emergency foremen..... 3,771.00
 4. Emergency men..... 9,753.22
 5. General foreman..... 412.00
 6. General labor, men..... 13,841.25
 7. General maintenance and ex-
 pense..... 4,697.07
 8. Maintenance, Albany St. Yard 5,128.80
 9. New sheds..... 85.58
 10. Paint shop..... 18.48
 11. Repairs and renewals, buildings 155.74

40,309.97

Less credit balance:

12. Shop cost..... 17,832.14

\$22,477.83

Stables:

1. General automobile expense.. \$1,400.31
 Auto No. 1..... 569.51
 Auto No. 2..... 906.33
 Auto No. 3..... 1,113.87
 Auto No. 5..... 1,395.39
 Auto No. 6..... 1,940.41
 Auto No. 7..... 1,345.22
 Auto No. 8..... 816.12
 Auto No. 9..... 2,884.59
 Auto No. 10..... 1,183.67
 Auto No. 11..... 1,202.53
 Auto No. 12..... 921.97
 2. Chauffeurs..... 1,461.44
 3. General stable expense..... 498.03
 4. Harness repairs and renewals. 17.20
 5. Hay, grain, straw, etc..... 526.40
 6. Horse rental..... 478.50
 7. Lighting..... 75.25
 8. Repairs and renewals, buildings 675.16
 9. Rolling stock repairs..... 79.78
 10. Shoeing..... 173.55
 11. Stablemen..... 2,834.31
 12. Teamsters..... 1,425.40
 13. Veterinary and medicine..... 16.25

23,941.19

Less credit balances:	
14. Use of autos Nos. 1, 2, 3, 5, 8 and 9-12.....	\$9,808.02
15. Use of auto No. 6.....	2,791.89
16. Use of auto No. 7.....	475.43
17. Use of teams, team only.....	938.31
18. Use of teams, singles.....	1,179.76
	<hr/>
	15,188.41
	<hr/>
	\$8,752.78
Total operating expenses, Exhibit A.....	<hr/>
	\$132,515.18

SUMMARY

II. Collecting and supplying water.....	\$66,818.65
III. Repairs.....	26,144.89
IV. Miscellaneous expenses.....	6,910.94
V. Taxes.....	1,410.09
Clearing Accounts.....	31,230.61
	<hr/>
	\$132,515.18

SCHEDULE 3

CONSTRUCTION OF MAINS

Expenditures

Acushnet Avenue.....	\$497.72
Aitchison Street.....	1,027.82
Allston Avenue.....	826.45
Beckman Street.....	386.97
Bothnia Street.....	304.09
Boyce Street.....	374.55
Brandon Road.....	474.50
Bridle Path.....	1,275.65
Brownell Street.....	1,163.51
Burgess Road.....	1,160.94
Caprera Road.....	407.33
Cohasset Street.....	1,928.94
Delaware Street.....	1,349.77
Euclid Avenue.....	841.27
Euston Road.....	2,030.43
Fairfax Road.....	362.73
Fairmont Avenue.....	444.63
Fifth Avenue.....	2,151.77
Franklin Street.....	4,113.73
Governor Street.....	564.00
Grafton Street.....	8,029.50
Granby Road.....	307.90
Hadwen Lane.....	3,274.89
Heard Street.....	1,524.64
Housatonic Street.....	733.47
Hygeia Street.....	899.59
Indian Lake Parkway.....	1,323.87
Lake Avenue.....	834.43
McRae Street.....	557.54

Raymond Street	330.25
Rhodes Road	2,473.89
Rowena Street	423.95
Ruthven Avenue	565.03
St. John's Road	1,228.13
Salisbury Street	777.42
Salisbury Street	334.94
Spofford Road	548.23
Tory Fort Lane	1,293.61
Tory Fort Lane	605.95
Trahan Avenue	620.85
Underwood Street	624.48
Wahnita Road	323.09
Warner Avenue	924.62
Wheeler Avenue	1,724.08
Whitmarsh Avenue	306.19
Woodford Street	815.20
Woodman Road	360.36

\$53,452.90

Construction of mains on sundry streets
costing less than three hundred
(\$300.00) dollars each

9,837.48

\$63,290.38

SCHEDULE 4

PIPE EXTENSION AND IMPROVEMENT

Expenditures

Albany Street	\$1,136.98
Armory Street	501.57
Canterbury Street	2,553.05
Fremont Street	446.70
Lincoln Square	2,396.19
Lincoln Square	5,340.00
Norfolk Street	2,156.45
Suffolk Street	4,460.26
General Account:	
Labor	\$1,714.23
Freight and express	440.78
Pipe and fittings	8,036.66
Salary Commissioner (part)	606.11
Traveling expense	14.25
Trenching machine	1,368.32
Backfiller	122.92
	<u>\$12,303.27</u>
Less use of machinery	\$5,087.84
Less pipe transferred	3,385.95
	<u>8,473.79</u>

\$8,829.48

\$22,821.68

Pipe extension and improvement on sundry streets
costing less than three hundred (\$300.00) dollars each

\$908.84

\$23,730.52

SCHEDULE 5

1911 EMERGENCY SUPPLY

Receipts

Metropolitan System	\$7,000 .00
Less expenditures	183 .00

\$6,817 .00

Total net receipts, Exhibit F

\$6,817 .00
SCHEDULE 6

TATNUCK SUPPLY

Expenditures

Tatnuck Supply	\$5,742 .68
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\$5,742 .68

Total net expenditures, Exhibit G....

\$5,742 .68

REPORT OF WATER REGISTRAR

To the Honorable City Council of the City of Worcester:—

Gentlemen: In compliance with Section 10, Chapter 41, of the City Ordinances, the report of the income division of the Water Department for the year ending November 30, 1917, is hereby submitted.

Four hundred and seventy-eight (478) applications for water were received during the year and placed in the hands of the Water Commissioner.

For metered water,	38,299 bills, amounting to	\$597,413.35
For annual rates,	329 bills, amounting to	8,681.26
	Total bills,	\$601,094.61
	Bills recommitted.....	15,814.97
		\$585,279.64
Total bills from sale of water.....		\$585,279.64
Total amount of revenue 1917.....		576,365.96
Including uncollected bills, November 30, 1916.....		1,653.05
Uncollected bills in Treasurer's, Nov. 30, 1917.....		25,582.18
Less bills for Parks and Playgrounds (Later abated by order of City Council).....		17,739.12
		\$7,843.06
Abatements, 1917.....		2,424.51
Transfers, 1917.....		15,814.97
Services shut off for non-payment.....		30

FINANCIAL STATEMENT FOR THE YEAR ENDING NOVEMBER 30, 1917

Receipts

For assessments for water, 1916.....	\$1,653.05	
For assessments for water, 1917.....	574,712.91	
		\$576,365.96

Expenditures

Amount appropriated for interest on water loan..	\$201,900.00	
Amount appropriated for serial fund, per order City Council.....		124,206.00
Amount appropriated for sinking fund, per order City Council.....		65,200.00
Amount appropriated for Water Department (con.), per order City Council.....		25,000.00
Amount transferred for Water Department (con.), per order City Council.....		35,059.96
Amount appropriated for Water Department (main.), per order City Council.....		90,000.00
Amount transferred for Water Department (main.), per order City Council.....		35,000.00
		\$576,365.96

WATER MAINTENANCE

Receipts

Balance November 30, 1916.....	\$7,703.98
Appropriated from water rates.....	125,000.00
Labor, meter parts and materials.....	2,046.01
Automobile repairs.....	51.38
Hay and standing grass.....	323.00
Manure.....	4.00
Refuse materials and junk.....	826.26
Rent of property.....	94.00
Rent of pumps, machinery, etc.....	57.00
Wood.....	41.51
Automobile hire.....	.70
Wages uncalled for.....	16.13
Ice.....	26.45
Horse and collar.....	125.00
Premium on insurance.....	9.45
Overpaid upon ruling of Industrial Accident Board.....	18.64
Fruit and vegetables.....	751.41
Gears.....	64.80
Refund overpayment automobile in- struction and registration.....	32.00
Wagon.....	115.00
Refund express.....	.25
	<hr/>
	\$137,311.97

SERVICE TRANSFERS—SUNDRY DEPARTMENTS

Labor, meter parts and materials.....	\$575.81
Shutting off and turning on water.....	66.21
Tools.....	18.00
Water connections and repairs.....	1.52
Farm produce.....	15.61
Carbic flare lights.....	965.74
Furniture.....	132.34
Refreshments for watchmen.....	93.49
	<hr/>
	\$1,868.72

SERVICE TRANSFERS—WATER DEPARTMENT

Salary, Water Commissioner.....	\$1,818.32
Automobile hire.....	4,967.75
Automobile repairs.....	40.00
Automobile supplies.....	.60
Horse hire.....	413.09
Labor.....	57.56
Maintenance of shop and use of tools	17,832.14
Materials.....	31.41
Pipe and fittings.....	389.48
Printing and stationery.....	26.88
Posts.....	210.00
Team work.....	450.93
	<hr/>
	\$26,238.16

\$165,418.85

Expenditures

Running expenses	161,684.26
Balance November 30, 1917	<u>\$3,784.59</u>

DETAILED ACCOUNT OF EXPENDITURES

Salary of Commissioner George W. Batchelder	\$915.00
Salary of Commissioner and Registrar George W. Batchelder	2,115.54
Salary of Registrar George C. Hunt ..	521.51
Pay rolls, laborers	79,341.77
Pay rolls, vacations (Acts of 1914) ..	2,532.16
Pay rolls, laborers (Holden)	843.52
Pay rolls, laborers (Kendall Res.) ..	8,500.29
Pay rolls, team work	17.75
Pay rolls, team work (Kendall Res.) ..	984.01
Clerical service	5,908.25
Service of census takers	957.50
Service of inspectors	2,804.00
Service of meter readers	6,692.25
Care of reservoirs	2,434.50
Ammunition, belts, holsters, etc., for watchmen	49.25
Automobile, Ford	362.20
Automobile, Hudson coupe	550.00
Automobile hire	190.00
Insurance	549.66
License and Registration	142.00
Automobile repairs	4,757.84
Automobile supplies	990.02
Automobile, truck—Selden	2,110.00
Automobile trucks, Maxfer	1,050.00
Automobile car truck	750.00
Blacksmithing and clipping horses ..	196.00
Blankets, harness and repairs	80.20
Boilers, engines, pumps and repairs ..	110.92
Books and subscriptions	59.05
Car fares	29.50
Carts, wagons and repairs	185.89
Castings, patterns and fire clay .....	.66
Cement	225.34
Coal	1,569.43
Cordage, waste, packing and belting ..	261.52
Damage to property, Joseph Gordon ..	20.50
Electric light and power	169.06
Electrical repairs	332.71
Express, freight and trucking	41.62
Extra labor	32.07
Furniture, fixtures and repairs	215.95
Garden seeds, tools, etc.	227.25
Gas	10.38
Hardware, tools and repairs	1,345.00
Hay, grain and straw	920.42
Horse	75.00
Horse hire	508.50
Hose and couplings	118.84

Hydrants, water gates, valves and repairs and freight on same	362.57
Ice	35.00
Ice for drinking fountains	1,140.97
Injury to person, James Burke	22.85
Injury to person, Catherine Husson	166.76
Injury to person, Louis J. Riedle	554.29
Insurance	53.70
Iron and steel	329.45
Laundry work	20.50
Lead	5.92
Loam, fertilizer, seeds and trees	884.40
Lumber	1,228.46
Massage treatments	75.00
Medical attendance on horses	17.50
Meters and repairs, Union Water Meter Co.	2,737.33
Meters and repairs and freight on same	710.05
Miscellaneous supplies, expenses and repairs	164.99
New England Tel. & Tel. Co., rental and service	166.50
Oil, luminating and gasoline	460.74
Oil, lubricating and grease	24.46
Paints and oils	501.95
Pipe, fittings, etc.	327.78
Powder and fuse	49.50
Printing, stationery and supplies	1,110.34
Refreshments for committee and guests	340.50
Refreshments for laborers	23.90
Refund water rates	7.00
Repairs, buildings	935.57
Repairs, drinking fountains	16.12
Repairs, machinery	8.55
Repairs, streets and sewers	27.50
Rubber goods	152.48
Sand and gravel	12.25
Service expert engineer, Joseph O. Phelon	47.00
Service physicians	13.00
Signs	43.95
Sprinkling streets	6.88
Stable supplies	130.32
Taxes in Holden	125.55
Taxes in Holden, Asnebumskit Brook (allowance)	219.81
Taxes in Holden, Pine Hill (allowance)	121.62
Taxes in Holden, Tatnuck Brook (allowance)	300.92
Taxes in Leicester	122.85
Taxes in Leicester, Kettle Brook (allowance)	161.43
Taxes in Leicester, Lynde Brook (allowance)	146.61
Taxes in Paxton, Asnebumskit Brook (allowance)	34.43
Taxes in Paxton, Kettle Brook (allowance)	176.87

Team work	4.50
Telegrams and telephone tolls	3.15
Traveling expenses	91.83
Wire fencing	76.64
Damage to property, Louis Cramer	120.00
Damage to property, Peter Doyle Co.	40.50
Damage to property, Kardas Publish- ing Co.	85.00
Damage to property, Pano Bros	110.00
Damage to property, Joseph Tighe	25.00
Damage to property, Samuel Tupper ..	300.00
Flags, flag staffs and repairs	64.23
Refreshments for watchmen	92.90
Damage to property, Peter Doyle Hrs. .	60.90
Share of cost of Clinton sewage dis- posal works	667.65
Carbic flare lights and supplies	965.74
Injury to persons, John J. Owens	33.00
Damage to property, George Piehl	20.00

\$149,891.98

SERVICE TRANSFERS—SUNDRY DEPARTMENTS

Analysis of water	\$3.00
Board of patients, City Hospital	23.00
Brick	4.94
Building and repairs, sewers and catch basins	65.63
Car fares	912.50
Coal	2.00
Engineers' services and materials	403.36
Exterminating moths	5.20
Extra labor	16.40
Furniture	4.00
Plumbing supplies .....	.70
Printing, stationery, stamps and supplies	411.61
Rent of machinery and tools	1.50
Repairs, sidewalks and streets	3,896.88
Revolvers, ammunition and badges ..	32.78
Sewer pipe	33.68
Team work	1.00

\$5,823.18

SERVICE TRANSFERS—WATER DEPARTMENT

Automobile supplies	\$2,378.72
Drinking fountains and repairs	123.30
Hydrants, water gates and valves	1,247.43
Iron pipe	248.07
Labor	16.18
Lead	196.97
Maintenance of shop and use of tools .	2.62
Materials	320.26
Oatmeal	11.88
Pipe and fittings	1,415.17
Automobile hire	3.00
Team work .....	.50

\$5,969.10

REVENUE

The total amount of revenue received from the collection of water rates during the financial year ending November 30, 1917, was \$576,365.96.

Table showing the revenue and increase since 1901.

	REVENUE	INCREASE
1901	\$259,429.06	
1902	269,428.64	\$9,999.58
1903	270,651.66	1,223.02
1904	293,794.02	23,142.36
1905	308,387.73	14,593.71
1906	328,358.28	19,970.55
1907	360,023.48	31,665.20
1908	369,280.08	9,256.60
1909	350,164.26	—19,115.82
1910	380,525.16	30,360.90
1911	398,844.36	18,319.20
1912	411,928.86	13,084.50
1913	448,366.95	36,438.09
1914	473,927.35	25,560.40
1915	473,521.93	—405.42
1916	529,839.32	56,317.39
1917	576,365.96	46,526.64

The quantity of water, in gallons, furnished and charged for during the year ending November 30, 1917, was as follows:

Domestic purposes	1,678,822,213
Manufacturing purposes	1,199,819,434
Steam and electric railways	355,111,302
Elevators	220,143,326
Motors	8,432,158
Schools	70,716,179
Churches	4,151,844
Hotels	53,026,498
Hospitals	129,072,974
Stables	8,165,704
Laundries	60,714,795
Fire Department houses	5,449,817
Sewer Department	4,855,059
Street Department	3,007,272
Parks Department	43,568,582
Stores, offices, shops, etc.	293,938,716
Unmetered water (estimated)	25,000,000

4,163,995,373

The quantity of water, in gallons, furnished during the year and for which no revenue is received was as follows:

Street flushing	50,000,000
Merrifield estate	26,570,093
Blow-off and hydrant flushing	21,228,717
Urinals	16,572,000
Watering troughs and drinking fountains	50,000,000

Water Department, for testing meters, etc. . .	1,385,383	
Estimated water used in testing sprinkler systems	3,250,000	
Miscellaneous purposes	7,000,000	
		<u>175,956,193</u>
Total		4,889,951,566

**DWELLINGS, PERSONS, FIXTURES, ETC., ASSESSED FOR WATER IN THE CITY
OF WORCESTER**

Dwellings	17,603	Water closets	52,543
Families	39,089	Hose	16,398
Stores	2,556	Boilers	7,753
Offices	2,198	Horses	4,085
Markets	143	Automobiles	3,544
Shops	972	Cows or oxen	863
Stables	1,820	Elevators	586
Persons using	187,292	Barber shops	167
Sinks	47,902	Hotels	31
Basins	38,150	Schools	92
Baths	33,579	Motors	42

The number of new meters set during the year was 512, making the total number now in use 20,518.

KINDS	SIZES										Total
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	
B. & F. Piston..	160	33			5						198
Columbia.....	2										2
Crown.....	6										6
Desper.....	116	7									123
Empire.....	2										2
Gamon.....	6										6
Gem.....	1		1		1	4	9	10		3	29
Hersey.....	652	69	9	13	22	8	4				777
" detector.....							11	47	2	1	61
" disc.....	4,168	14	6	3			1				4,192
Keystone.....	2										2
King.....	4,145	48									4,193
Lambert.....	17										17
Nash.....	82										82
Nilo.....					11	30	2				43
Torrent.....			1		11	18	4	3			37
Trident.....	196	3									199
Union Rotary..	8,974	559	323	236	270	132	32	9	1		10,536
Worthington...	13										13
Total.....	18,542	733	340	252	320	192	63	69	3	4	20,518

During the year, 1 B. & F. Piston, 1 Crown, 3 Gamon, 137 Hersey Rotary, 486 Hersey disc, 611 King, 1 Lambert, 6 Nash, 3 Torrent, 31 Trident, 1277 Union rotary and 2 Worthington meters have been taken off for repairs. Most of them have been repaired at the department shop without

cost to the owner. Total cost of repairs, \$8,118.12. One hundred and thirty-two (132) meters were condemned and replaced by others.

Table showing the monthly and average daily consumption of water, in gallons, for the fiscal year:

Month	Consumption per month	Average monthly consumption	Average daily consumption for the month	Average daily consumption for the year
December .	448,986,000		14,322,000	
January . . .	455,687,000		14,697,000	
February . .	424,719,000		15,168,000	
March	464,549,000		14,985,000	
April	437,051,000		14,568,000	
May	453,551,000		14,630,000	
June	457,571,000		15,252,000	
July	492,998,000		15,908,000	
August	511,462,000		16,498,000	
S'ptember . .	469,588,000		15,652,000	
October . . .	485,810,000		15,671,000	
Nov'mber . .	447,058,000		14,902,000	
		461,999,583		15,188,972

The maximum consumption for one day amounted to 19,414,000 gallons, and the average daily consumption per consumer for the year was 82.78 gallons.

Table showing the yearly, daily and per capita consumption of water, in gallons, for the past eleven years.

	Yearly consumption	Average daily consumption	Per capita daily consumption
1907	3,442,493,860	9,431,490	66.84
1908	3,315,538,545	9,058,848	64.41
1909	3,238,662,500	8,873,048	61.65
1910	3,897,828,000	10,678,981	72.27
1911	3,776,231,300	10,345,840	67.76
1912	4,057,322,880	11,115,953	70.44
1913	4,304,486,920	11,793,114	72.38
1914	4,497,125,340	12,320,891	74.14
1915	4,604,277,000	12,614,457	75.04
1916	5,161,678,000	14,141,583	81.02
1917	5,543,975,000	15,188,972	82.78

STATISTICS OF CONSUMPTION OF WATER

1. Total population (water census)	187,492
2. Population on pipe line (water census)	187,292
3. Population supplied (water census)	187,292
4. Total consumption for the year	5,543,975,000
5. Passed through meters	4,166,923,799
6. Percentage of consumption metered	75.16
7. Average daily consumption	15,188,972
8. Gallons per day to each consumer	82.78
9. Gallons per day to each tap	704.8
10. Revenue per capita	\$3.07
11. Cost of supplying water per million gallons figured on total maintenance expenses	\$29.16
12. Cost of supplying water per million gallons figured on total maintenance plus interest on bonds	\$65.55
13. Cost of supplying water per million gallons figured on contribution to sinking funds, interest and maintenance	\$77.34

The number of gallons sold at the different rates for the year 1917 was as follows:

10 cent rate	2,170,094,520
12 cent rate	18,543,530
15 cent rate	565,370,781
20 cent rate	1,384,986,542
Total	4,138,995,373

REVENUE

The increase in revenue for 1917 over 1916 is \$46,524.64, the second largest in the history of the department.

It would be unwise to figure on a like increase of the 1918 revenue because many of our young men are going to the war, many families are liable to consolidate their homes and the business outlook, while good at present, is in such an abnormal condition as to be uncertain.

Final disposition of the parks' and playgrounds' water bills was made by the City Council on recommendation of the Water and Finance Committees that:

ORDERED: That the Water Registrar under the direction of the Mayor be, and he is hereby authorized to abate, in the total sum of \$17,739.12 accrued bills for metered water furnished the Park Commissioners, Public Playgrounds and the Parks and Recreation Commission for use in the public parks and playgrounds of the city; said amount to include unpaid bills rendered the Parks Commission for metered water used in the years 1915 and 1916 and charged for water furnished the Park Commissioners, Public Playgrounds and Parks and Recreation Commission in 1917.

The reduction of water rates made in 1909 has been severely felt in the activities of this department. While all bills have been paid and balances carried over, there are many improvements which have been held back for lack of funds.

Records show that the writer vigorously opposed the reduction at the time and developments have shown that the rates should not have been reduced. It is to be hoped that necessity will not demand an increase in the water rates though such a contingency may arise.

DEPRECIATION FUND

There are no funds appropriated to take care of the depreciation of the water department plant which is surely going on.

It is considered sound practice in water works management to create a depreciation fund to cover the costs of necessary replacements, rather than to go along just making both ends meet and eventually facing a period when a big load of expense must be met in a limited period, rather than distributed over a period of years, as would be done by a depreciation account.

It is therefore recommended that in making appropriations for 1918, that a sum of not less than \$25,000.00 be transferred

to an account known as Water Department Depreciation Account.

Instead of reducing water rates, which have not been high, all resources should be used to put the department on a sound physical and financial basis.

Very respectfully,

GEO. W. BATCHELDER,
Water Registrar.

REPORT OF CITY ENGINEER

To the Honorable City Council of the City of Worcester.

Gentlemen: As required by ordinance, a report relative to the reservoir work of the city for the fiscal year ending November 30, 1917, is herewith respectfully submitted.

Continued work upon the Pine Hill reservoir dam throughout the season has carried the work into the hill on the northerly side of the location as far as it was possible until the structure was raised sufficiently high to care for the main stream of water by other means than through the artificial channel heretofore in use. One section of the dam between two expansion joints was raised only to the ground level, while the adjoining sections have been carried to greater height, and with dykes to lead the water to and from this low section the dewatering of the remaining excavations has been accomplished. The lower portion of the gate well has been built, and two sluice gates put in place together with the main draft pipe through the dam. These are sufficient in size to care for the ordinary flow of the stream, so that the low section in the dam can be raised without interference when the time arrives to do so.

It is now purposed to continue work in the northerly hill, and to employ the steam shovel to as low a level as it can conveniently be used. Railroad tracks, the necessary derricks and other apparatus have been arranged, and the winter months will be largely devoted to this work and the operations at the quarry. Due to our inability to procure the desired number of laborers to conduct all features of the work at the same time, it is necessary to prepare in advance considerable quantities of crushed stone and sand for the summer's use, and a number of the men will be employed for this purpose during the winter.

At times the amount of sand produced by the original plant was not sufficient to meet the demands of the concrete mixers, and to the sand plant was added a Telsmith Intercone Mill, which practically doubled the quantity of sand previously made. The lack of labor has reduced the amount of work hoped for at the beginning of the season, but the high quality of the work has been maintained.

Wood cut within the basin has been used for making steam whenever possible, but with the style of locomotives

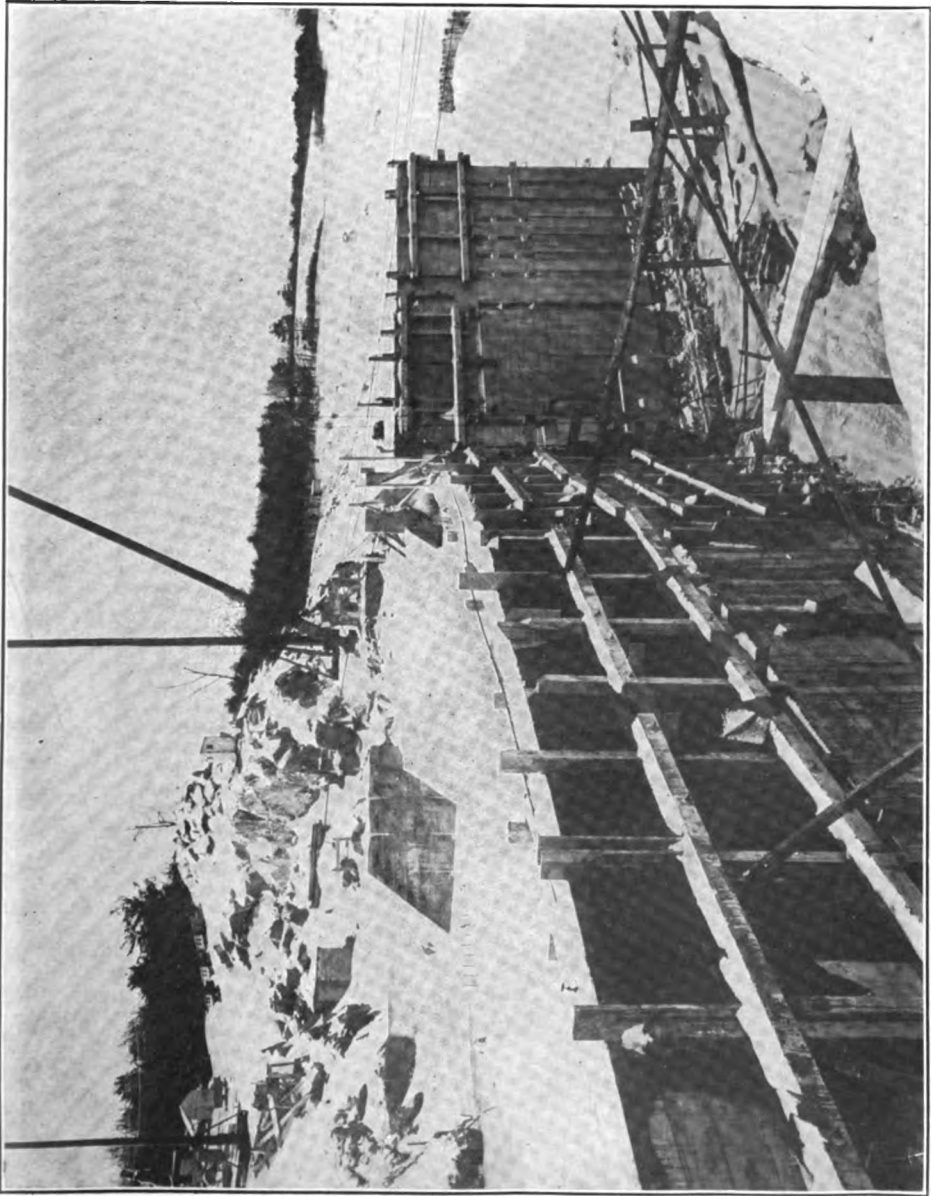
in use and for certain other boilers it has been necessary to use coal, which we have so far been fortunate enough to procure. We were also favored in obtaining sufficient cement to complete the concrete work for this year. These materials are forwarded to the nearest railroad siding in the town of Holden, and then transported by truck or motor to the railway line connected with the work. The far removal of the site of operations from the usual means of transportation adds materially to the task of conducting a work of this nature.

Repairs to the spillway at the Tatnuck Brook reservoir dam No. 2, made necessary by the action of ice and frost, were completed late in the season.

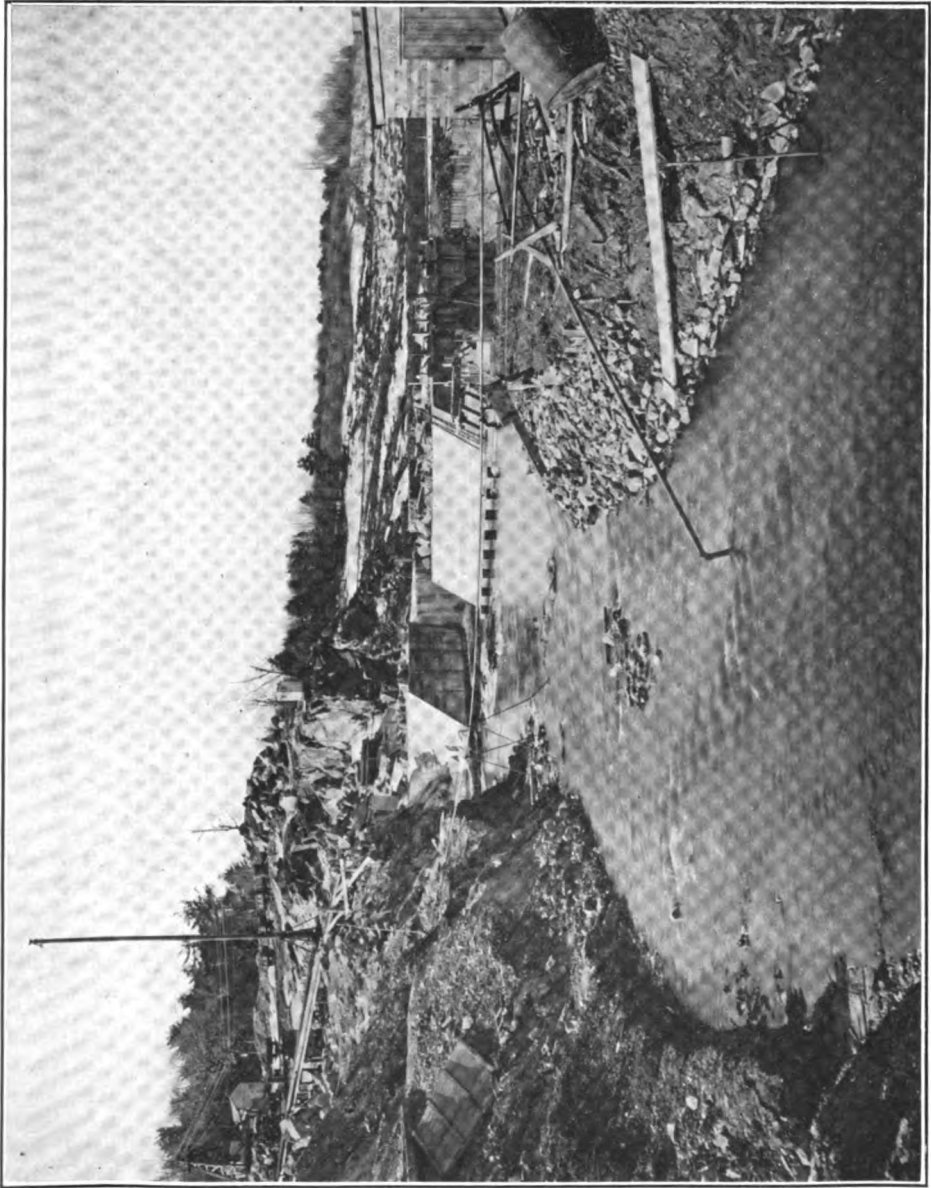
The remaining dams and reservoirs are apparently in good condition, lacking a few minor repairs to be made when opportunity offers.

A schedule of the property, stock and machinery in use on the work can be seen at the office of the Water Commissioner.

Respectfully submitted,
FRED'K A. McCLURE,
City Engineer.



SECTION SHOWN IN REPORT OF 1916 RAISED, WITH ADDITIONAL SECTION AND CHANNEL WALL.



DIVERSION OF BROOK THROUGH SECTION OF NEW DAM

On December 31, 1917, the following order, introduced by Councilman A. H. Moss, was passed by the City Council:

"CITY OF WORCESTER

In City Council, Dec. 31, 1917.

Ordered: That the City Engineer or other city officials who have in charge the construction of the Pine Hill water system embody in their annual report a comprehensive financial statement of the same, giving the original detailed estimate of amounts and costs, both of land and unit quantities, together with progress report as to amounts of unit quantities completed, such as excavation, earth excavation, stripping of basin, construction of R. R., cu. yds. of concrete or other masonry, etc. (or however said estimates may have been determined); totalling up same to show total amounts expended, balance still on hand, whether actual cost runs under or over estimated costs, and an estimate both as to cost and quantities for the completion of the work and probable time of same—in other words, a detailed engineer progress report.

Approved, Jan. 4, 1918.

PEHR G. HOLMES, Mayor,
W. HENRY TOWNE, City Clerk."

The first order of the City Council appropriating money for the further development of the Asnebumskit water supply preliminary to the construction of the Pine Hill dam and reservoir was passed by the City Council on December 29, 1913, appropriating the sum of \$50,000.00, with which operations were commenced for the carrying out of the order, by building a railway to the site of the work for the transportation of the machinery, materials, and all supplies and labor necessary to its building, and for the seizure of land bordering the main stream and the southerly portion of the land upon which the dam was to be erected.

From the beginning thus made appropriations for the work have been provided by the City Council, and additional lands seized and purchased as became necessary, or was deemed advisable for the proper maintenance and guarding of the completed work, together with additional machinery, tools, buildings and appliances for the work.

All expenditures of whatever nature have been published annually, but are herewith classified in units to the end of the fiscal year just closed, as follows:

EXPENDITURES PINE HILL RESERVOIR FROM NOV. 30, 1913, to NOV. 30, 1917	
Automobile—costs, maintenance, hire	\$4,376.06
Chauffeur	3,031.11
Basin—cutting and piling logs and wood, burning brush	10,452.90
Buildings—labor, constructing and maintenance ..	7,508.23
Clerical—labor and supplies	4,595.27
Cement—on hand	573.00
Dam:	
Diverting and care of water	\$9,874.42
Earth excavation, 9,100 cu. yds.	21,477.49
Rock excavation, 8,800 cu. yds.	42,478.64*

*Removed by picks and points to avoid disturbing foundation.

Drilling and grouting	5,716.79	
Concrete—Labor and materials, quarrying stone and placing	94,981.58	
Pipes, gates and fittings	3,063.65	177,592.57
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Dynamite and exploders—on hand	1,092.62	
Engineering	15,990.80	
Fuel—Coal and wood, and hauling and handling . .	12,714.73	
Incidental labor—Storehouse and repair men, etc. .	7,494.97	
Watchmen	11,817.44	
Incidental supplies—gasoline, grease, oil, paint, waste, packing, etc.	10,038.63	
Land—Purchased and maintained	20,960.40	
Lumber—Cost and handling	9,234.89	
Machinery and tools—Pipes, fittings, hardware, cost and maintenance	44,549.07	
Medical and Workmen's Compensation Act	1,191.00	
Quarry—Stripping and other work	15,243.59	
Railroad—Material, construction and maintenance 2.8 miles	14,991.94	
General operating and transportation	1,532.43	
Removing old dam	518.95	
Roadways and drives	538.88	
Telephone—Rental and cost of erecting lines	641.07	
Transportation—of workmen, car fares	17,234.48	
Trucking—Materials and supplies	673.16	
Vacations—Qualified workmen	5,606.76	
Water Supply—Tank, piping and pumping	6,003.48	
Water Damage and Expense—Noack case	5,629.06	
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Total	\$411,827.49	
Unexpended balance	\$201,123.14	

The unit costs of rock and earth excavations exceeded the original estimates.

In the above list of expenditures the cost of labor, which has been distributed in the items stated, amounted to \$253,510.30.

The above statement shows the expenditures which have been applied to the work so far accomplished, including a considerable part of the difficult foundation, and much other preliminary work before any of the actual building of the dam could proceed. It was not until the month of August, 1916, that any masonry of the dam was put in place because of the difficult foundation work, which in places exceeded forty feet in depth. With the foundation secured the work becomes simpler and less expensive as the height increases.

Other work of importance was the opening of the quarry, entailing the removal of large quantities of soft stone and sap unsuited for use before proper material was reached.

Much other work necessary not only to what has been accomplished but to future operations has been done,

such as the extension of the railroad system to all parts of the work and into the basin above the dam. A portion of the tracks so built simplified the getting of wood that had been cut within the flowage lines to the main steam plants. This wood is now being used when coal is unobtainable.

To date 170 acres have been cleared, mostly during the winter months when the temperature was too cold for building. Also the work of quarrying for production of the plums used in the main structure of the dam and the crushing of stone and making of sand for concrete uses, in order to supply the amount required during the building months.

In the matter of labor it has been impossible to obtain a sufficient number of men to push the work to the point desired. At no time has it been possible to engage more than about one-fourth the number of men needed, so that the work must be confined to certain limits without the advantage of doing many features at the same time, or to keep in continuous production the work being performed, making it necessary to shift operations of construction to preparatory work and back again. The Italian labor formerly employed has left us, the last few being lured to other employment by larger pay and less hours, so that the forces now engaged are to a large extent citizens, and this fact requires their transportation back and forth where formerly camps were used. These additional hours of transportation have proved a great handicap in procuring men in sufficient numbers. We have been favored, however, by retaining many of our skilled foremen, engineers, carpenters, machine and men of like character who have been employed in the department for many years and without whom it would have been impossible to proceed.

The final disposition of the main stream which has hitherto been a barrier to foundation work has been accomplished and further excavations are now proceeding. There remains about 163 lineal feet of this deep work yet to be done, but as it advances into the northerly hill the underlying stratum of mica schist appears to be more firm in its structure, and indicates less difficulty in preparation than similar material already passed through. From this point the excavations rapidly decrease both in depth and section. With the completion of the foundation the most difficult and expensive portion of the dam will be passed and the work will gain in evidence more rapidly.

The original estimate, made on somewhat tentative plans, in the years 1905-1906, was as follows:

Masonry rubble, 28,240 cu. yds. at \$3.50	\$98,840.00	
Overflow steps, 200 cu. yds. at \$25.00	5,000.00	
Gate house, No. 2, foundation, 65 cu. yds. at \$6.00	390.00	
Pipe line to outlet, 100 cu. yds. at \$6.00	600.00	
Total, 28,600 cu. yds.		\$104,830.00
Earth excavation, dam, 13,800 cu. yds. at \$.35	\$4,830.00	
Earth excavation, spillway, 10,200 cu. yds. at \$.60	6,120.00	
Total, 24,000 cu. yds.		10,950.00
Rock excavation, dam, 1,800 cu. yds. at \$1.50	\$2,700.00	
Rock excavation, spillway, 2,200 cu. yds. at \$1.50	3,300.00	
Total, 4,000 cu. yds.		6,000.00
Weir stone, 30 cu. yds. at \$30.00	900.00	
Rip-rap, causeway, 35,835 sq. yds.	9,000.00	
Town road, re-surfacing, 7,333 sq. yds. at \$.50	3,667.00	
Road (construction)	3,500.00	
Road, culvert	4,000.00	
Iron in dam, 102 tons at \$13.00	1,020.00	
Steps on face of dam	1,200.00	
Bridge over spillway	2,000.00	
Gate house, No. 1, superstructure	2,500.00	
Gate house, No. 2, superstructure	2,500.00	
Land, 400 acres at \$40.00	16,000.00	
Stripping, 310 acres at \$600.00	186,000.00	
Buildings	5,000.00	
Grading	3,000.00	
Fence, 4,000 lineal ft., at \$.20	800.00	
Fence (pipe rail), 850 lineal ft. at \$1.00	850.00	
36" cast iron pipe, 200 lineal ft. at \$13.00	2,600.00	
Valves and sluice gates	2,500.00	
Cableway	18,000.00	
Forms	3,000.00	
Water-proofing, granolithic, etc., 10,868 sq. ft. at \$.30	3,260.00	
Care of water	7,000.00	
Incidentals, engineering, machinery, tools, etc.	184,427.00	
Total		\$534,504.00

The original project was estimated at the time when the working day was of nine hours' duration, the cost of labor about one-half the present cost, transportation in part only was necessary, before the days of vacations for every qualified employee on the force, before the Workman's Compensation Act was placed upon the statute books, and before the price of materials, such as cement, steel and lumber, which are used in large amounts, had advanced to such extreme prices. It should be realized that a matter of

twelve years' interval of time between the first conception of its plan and the final undertaking gives a vague idea of comparative costs and proportions. It should also be remembered that the structure now building is very different in character and construction, and the capacity of the reservoir will be 50 per cent. greater than that first contemplated.

As to the quantities required for the completion of the work no estimate can be given before the completion of the foundation. The underlying ledge is at such depth that with the knowledge we now have of its character, it is impossible to prophesy the amount necessary to remove, the extent of drilling for grouting the remaining ledge, the water carrying seams to be encountered and dealt with, the extent and amount of sheeting and bracing that may be required, and other features that have to do with this most costly portion of the undertaking. These features vitally affect the probable time of completion and its costs, which together with the uncertainty of the labor problem make estimates of little value. Under the conditions now existing I can not place the element of time nearer than from three to five years, and a probable cost above the foundations of \$900,000.

Respectfully submitted,
FRED'K A. McCLURE,
City Engineer.

FORTY-SEVENTH ANNUAL REPORT

OF THE

TRUSTEES

OF THE

CITY HOSPITAL

WORCESTER, MASSACHUSETTS

FOR THE

YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS

WORCESTER, MASS.

1918

PERTINENT FACTS RELATING TO HOSPITAL

- Act of Legislature establishing hospital approved May 23, 1871.
- Hospital Ordinance passed by City Council June 28, 1871.
- Hospital opened October 23, 1871.
- First located in "Bigelow Mansion," corner Front and Church Streets.
- Number of beds in 1871, 12.
- George Jaques, benefactor, died August 24, 1872.
- Hospital removed to Jaques homestead, Wellington Street, January 20, 1874.
- Number of beds in 1874, 16.
- Hospital moved to present site, December 8, 1881.
- Training School for Nurses established September, 1883.
- Gill Memorial and Salisbury wards opened 1886.
- Knowles Maternity opened June, 1888.
- Out-patient Department opened March 17, 1890.
- Samuel Winslow Surgery opened July, 1896.
- Male surgical building opened October, 1896.
- Thayer Memorial Home for Nurses opened June, 1898.
- Heat, light and power plant completed in 1900.
- City Buildings, costing \$300,000, opened in 1904.
- Children's Ward opened in November, 1914.
- Number of buildings comprising present plant (1917), 26.
- Total amount of endowment \$286,073.31.
- Number of in-patients treated since opening of hospital, 99,916.
- Number treated in 1917, 6,811.
- Total expenditures in 1917, \$260,698.84.
- Number of beds in 1917, 360.
- Weekly per capita cost in 1917, \$14.80.

INVENTORY OF PROPERTY

394,505 feet of land at 25c. per foot.....	\$98,626.25
Buildings.....	562,874.94
Furniture, surgical instruments, etc.....	60,217.11
Nurses' Home, Thomas House, and Chandler Street Home.....	71,730.27
Nurses' Home Furniture.....	9,518.26
Heat, power and laundry plant.....	69,710.39
	<hr/>
	\$872,677.22

CITY HOSPITAL

TRUSTEES FOR 1917

Alderman—HARRY A. COOKE,
Councilmen—PHILIP D. WESSON, Resigned
JOSEPH W. LEYDEN
HOWARD A. NASH

At Large—DAVID A. SCOTT	Term expires 1918
SAMUEL E. WINSLOW,	“ “ 1919
MELVIN G. OVERLOCK,	“ “ 1920
MATTHEW J. WHITTALL,	“ “ 1921
CLIFFORD S. ANDERSON,	“ “ 1922
BURTON H. WRIGHT,	“ “ 1923

ORGANIZATION

President—SAMUEL E. WINSLOW
Vice-President—MELVIN G. OVERLOCK
Secretary—BURTON H. WRIGHT

Superintendent and Resident Physician
CHARLES A. DREW, M. D.

Assistant Resident Physicians
EDWARD P. DISBROW, M. D.
WILLIAM H. MACKAY, M. D., Resigned
JOSEPH C. LOVETT, M. D.
GEORGE H. CROFTON, M. D.

Commissioners of the Jaques Fund and Other Funds of the City Hospital

E. F. BISCO,	Term expires January, 1918
F. A. DRURY,	“ “ “ 1919
F. H. DEWEY,	“ “ “ 1920

MEDICAL STAFF

Consulting Physicians and Surgeons

SAMUEL B. WOODWARD, M. D. OLIVER H. EVERETT, M. D.
 MICHAEL J. O'MEARA, M. D. GEORGE O. WARD, M. D.
 JOHN C. BERRY, M. D. EDWARD SWASEY, M. D.
 *HOMER GAGE, M. D. EDW. H. TROWBRIDGE, M. D.
 LEMUEL F. WOODWARD, M. D.

Consulting Obstetricians

LEONARD WHEELER, M. D. WILLIAM H. ROSE, M. D.

Consultant in Contagious Diseases

CHARLES B. STEVENS, M. D.

VISITING STAFF

Physicians

RAY W. GREENE, M. D. WILLIAM J. DELEHANTY, M. D.
 G. ALSTON TRIPP, M. D. ALBERT M. SHATTUCK, M. D.

Assistant Physician

ROY J. WARD, M. D.

Surgeons

CHARLES D. WHEELER, M. D. ROYAL P. WATKINS, M. D.
 ARTHUR W. MARSH, M. D. JOHN M. W. FARNHAM, M. D.

Assistant Surgeons

GEORGE H. HILL, M. D. ERNEST L. HUNT, M. D.
 FRANK L. MAGUNE, M. D.

Obstetricians

*WILLIAM E. DENNING, M. D. JOHN E. TALBOT, M. D.

Oculists and Aurists

DAVID HARROWER, M. D. CHARLES T. ESTABROOK, M. D.

Assistant Oculists and Aurists

GORDON BERRY, M. D. JOHN E. RICE, M. D.

Pathologist

FREDERICK H. BAKER, M. D.

Assistant Pathologists

ERNEST L. HUNT, M. D. *EDWARD B. BIGELOW, M. D.

Laryngologists

ALBERT C. GETCHELL, M. D. CHARLES T. ESTABROOK, M. D.

Dermatologists

G. ALSTON TRIPP, M. D. GEORGE A. DIX, M. D.

Roentgenologist

PHILIP H. COOK, M. D.

Associate Roentgenologist

*FRANK W. GEORGE, M. D.

Neurologists

BENJAMIN T. BURLEY, M. D. WALTER C. HAVILAND, M. D.

Urologist

*HOWARD W. BEAL, M. D.

Orthopedists

GEORGE E. DEERING, M. D. *FRANK W. GEORGE, M. D.

Diseases of the Stomach

*MERRICK LINCOLN, M. D.

Dentists

ROY R. STIMPSON, D. D. S. JOHN G. PERMAN, D. D. S.

House Officers

EVERETT P. JEWETT, M. D.	FRANK E. HARRIMAN, M. D.
*EDWIN S. BRIDGES, M. D.	HUGH L. SIMMONS, M. D.
*WINTHROP ADAMS, M. D.	CLARENCE BAKER, M. D.
*LINWOOD H. JOHNSON, M. D.	ARTHUR J. RING, M. D.
FRANCIS D. HART, M. D.	CHARLES A. SALMON, M. D.
*WALTER L. PERRY, M. D.	DAVID BRIDGWOOD, M. D.
*FRANK T. OBERG, M. D.	JOHN C. WARD, M. D.
*GEORGE WATT, M. D.	

 OUT-PATIENT STAFF
*Physicians*TIMOTHY J. FOLEY, M. D. PHILIP H. COOK, M. D.
*GILBERT W. HAIGH, M. D.*Surgeons**WILLIAM E. DENNING, M. D. BENJAMIN F. ANDREWS, M. D.
CLAUDIUS J. BYRNE, M. D.

Supervising Oculist

CHARLES T. ESTABROOK, M. D.

Oculist

JOHN T. MCGILLICUDDY, M. D.

Assistant Oculists

JOHN E. RICE, M. D.

JOHN J. BRENNAN, M. D.

Gynecologists

ERNEST L. PARKER, M. D.

*WILLIAM E. DENNING, M. D.

ROY J. WARD, M. D.

ARTHUR W. BOYDEN, M. D.

Ear, Nose and Throat Department

JOHN E. RICE, M. D.

GORDON BERRY, M. D.

JOHN J. BRENNAN, M. D.

Dermatologists

G. ALSTON TRIPP, M. D.

GEORGE A. DIX, M. D.

Neurologists

BENJAMIN T. BURLEY, M. D.

WALTER C. HAVILAND, M. D.

Orthopedists

GEORGE E. DEERING, M. D.

*FRANK W. GEORGE, M. D.

Genito-Urinary Department

*HOWARD W. BEAL, M. D.

WALTER D. BIEBERBACH, M. D.

Assistants in Genito-Urinary Department

O. DRAPER PHELPS, M. D.

JOHN A. MACFADYEN, M. D.

Tuberculosis Department

GEORGE E. EMERY, M. D.

Electro-Therapeutic Department

FRANK E. STOWELL, M. D.

Masseuse

GERTRUDE R. DOYLE

*Apothecary***JAMES J. MATTIMORE****GEORGE B. DONOR, Kitchen Supervisor**
MRS. GEORGE B. DONOR, Kitchen Matron
MISS MARY T. HUNTER, Acting General Matron*Superintendent of Nurses***MISS IRENE V. B. VAN PELT***Dietitian***MISS SARA L. KEHOE**

*Enlisted in the Service.

ORGANIZATION OF THE MEDICAL STAFF**President—DR. RAY W. GREENE**
Secretary—DR. GEORGE A. DIX

ANNUAL REPORT OF THE TRUSTEES OF THE CITY HOSPITAL

*To His Honor Pehr G. Holmes, Mayor, and the City Council
of the City of Worcester:—*

The Trustees of the Worcester City Hospital hereby submit their annual report for the year ending November 30, 1917.

With crowded wards most of the time, steadily rising prices, a staff reduced because of response to the Nation's call for medical and nursing volunteers and a shortage of help, the work of City Hospital during the past year has been active in all departments.

In spite of unavoidable increased expenses, it has been the purpose of the Trustees that the quality of the service should not be lowered. The per capita cost for all bed patients in the hospital has been \$14.80, as against \$12.21 in 1916. The daily average number of patients has been 312.69, as against 324.44 in 1916. The average increased cost of hospital necessities since 1915 has run parallel to the increased cost of like items of living for the average family. But the cost of gauze, absorbent cotton and some other hospital supplies has about doubled since 1915. Surgeons gauze which cost under two cents per yard in 1915 now costs four cents per yard. Absorbent cotton which cost 13½ cents a pound in 1915, now costs 28 cents per pound. Coal, which cost City Hospital \$4.73 per ton in 1915 and \$5.50 per ton in 1916, has cost above \$8.00 per ton for most of 1917. Bandage cotton, which cost 4½ cents per yard in 1915 and 5¾ cents in 1916, has cost 11 cents or more per yard in 1917. Cut bandages, which cost 30 cents per pound in 1915 and 45 cents per pound in 1916, now cost 80 cents per pound. Beef which cost 12½ cents in 1915 and 13 cents in 1916 now costs 16 cents. Lamb which cost 16 cents in 1915 and 20 cents in 1916 now costs 26 cents. Ham which cost 14½ cents in 1915 and 23 cents in 1916 now costs 28 cents. Bacon has gone from 17½ cents in 1915 to 35 cents in 1917. Eggs from 30 cents in 1915 to 48 cents in 1917. Flour from \$6.70 in 1915 to \$13 in 1917. Sugar from \$5.55 per hundred in 1915 to \$9.25 in 1917. These comparisons with the necessary increase in wages tell the financial

side of the story. All indications point to still larger expenses for the current year.

Land with wooden buildings at 12, 14, 16 and 18 Queen Street and 68 Jaques Avenue was purchased in the spring through means generously provided by the City Government. These buildings are not well suited for permanent homes for nurses and employees of City Hospital, but the sites are necessary for new fire-proof buildings and some of these old wooden buildings can be made more suitable, temporarily, for employees than the quarters previously occupied.

A new flat work ironer has been installed in our laundry during the year; a new dormitory to provide accommodations for six male nurses has been built over Ward D of the men's surgical pavilion; and a new 300-horse-power boiler has been installed during the fiscal year. We greatly need a drying tumbler which we failed to obtain last year for the laundry. This will cost about \$1,800; and we also need for the laundry two steam pressers for shirts, nurses' waists and aprons which will cost about \$180 each. These pressers are labor saving devices that we cannot afford to be without.

The Trustees found that the cost of a new baking oven had increased so rapidly since estimates were made, that the appropriation asked for to build a new oven and store room for supplies was not sufficient. It was decided to try to make repairs on the old oven and wait for a time in the hope that the cost of these additions would be more reasonable.

The Trustees found that the provisional plans for an addition to the maternity pavilion for which an appropriation was granted last year, would not work out satisfactorily. It was thought not advisable to build until modified plans could be made to the satisfaction of the Trustees.

The Trustees believe that the City Hospital should be provided and equipped to serve all classes of citizens of the City of Worcester. Those citizens who can pay should certainly pay cost or a little more than cost. The poor who cannot pay should, of course, be well cared for free, or for such part of the cost of their care as they may be able to pay. Those who urge that a municipal hospital should not provide for those who are able to pay for private hospital services may not fully appreciate the stimulating influence which comes to a hospital which not only cares for the poor but for the most critical class of citizens. In the opinion of the Trustees, City Hospital has greatly benefited by caring for hundreds of the most intelligent and critical citizens

of Worcester. Occasionally one amply able to pay for private service in the beginning of a serious illness has found his means exhausted before his need of hospital care has ended. The City of Worcester has had some financial losses from such cases. But the indirect benefits of the public may outweigh these losses many times. The Trustees believe that City Hospital turns out better graduate nurses and better graduate physicians because these nurses and physicians have at times successfully cared for a highly intelligent and discriminating class of the citizens of Worcester. They believe it would be unwise and unfair to ask the visiting staff of physicians and surgeons to give of their services gratuitously to the poor people of Worcester and deny them suitable accommodations for their private patients who are willing to pay for private room service. At no time has the line been sharply drawn between "private" room and public ward patients. Eye cases, pneumonia cases, erysipelas cases, and all patients suffering from diseases somewhat contagious, as well as delirious cases and patients who are dying need private rooms as distinguished from the open wards. City Hospital has been greatly handicapped because of the limited number of these so-called "private" rooms. All the patients of a crowded ward are frequently disturbed throughout the night by the moans of a delirious or dying patient. Ward I has never had a suitable elevator. The sick patients who must be taken up and down stairs unless they are able to sit or stand must be carried up a winding stairway on a stretcher. If the patient is light and the robust men nurses are available all goes fairly well, but if the patient is heavy the situation becomes risky.

The Trustees recommend that a building with single rooms to be used for any patient needing a single room, be built north of the main corridor opposite Ward I, connected with Ward I and provided with a suitable elevator so that patients may be taken up and down stairs with safety and without discomfort. Such an addition would result in better balanced accommodations for all classes of patients. It would make the open ward service more comfortable and efficient by removing from the public wards delirious patients.

City Hospital is limited for land on which to build. In the near future, comprehensive plans must be made for a general expansion to meet increasing demands on City Hospital. Another year has only emphasized the statement made in our last year's report. "We cannot enlarge one department without increasing all the forces that ad-

minister to that department"; and "we cannot crowd more beds for patients into wards already overcrowded." The Trustees feel, however, that it is better, if possible, not to attempt the large additions needed while the cost of construction is so much above normal, and they pledge themselves to make the most of the present equipment until the urgent demands of humanity at large have been met and the war needs satisfied for which provision must be absolutely made now.

The Trustees respectfully submit a schedule of expenses of the past year and an estimate for the year 1918, realizing, indeed, that it is impossible to make a definite estimate as to what the demands for hospital service will be.

	Expended in 1917	
Administration expense.....	\$17,169.74	
Professional care of patients.....	20,909.79	
Medical supplies.....	10,267.50	
Surgical supplies.....	13,972.83	
Out-patient department.....	1,781.50	
Pathological department.....	2,254.73	
Apothecary department.....	2,168.88	
Nurses' Home.....	1,701.16	
Housekeeping.....	13,322.89	
Kitchen and dining room.....	14,508.05	
Laundry.....	7,975.46	
Food.....	92,138.74	
Heat, light and power plant.....	39,687.00	
Repairs for buildings.....	6,575.76	
Care of buildings and grounds.....	10,063.71	
Gas.....	527.09	
Water.....	2,266.78	
Insurance.....	1,422.25	
General expense.....	1,985.53	
Total expenditures for 1917.....	\$260,698.84	
Estimated increase for 1918.....	20,000.00	
Estimated expenditures for 1918.....	280,698.84	
Estimated revenue for 1918.....	120,024.81	
Balance.....		\$160,674.03
For the following repairs and improvements:		
Laundry machinery.....		2,100.00
Repairs and improvements on wooden houses on Queen Street and Jaques Ave.....		3,000.00
Making a total need for the coming year.....		\$165,774.03

The Trustees respectfully ask the City Council for an appropriation of \$160,674.03 for the current expenses of City Hospital for the year 1918, plus \$5,100 for repairs and improvements as per schedule, making a total of \$165,774.03.

Respectfully submitted,

SAMUEL E. WINSLOW,
MELVIN G. OVERLOCK,
MATTHEW J. WHITTALL,
BURTON H. WRIGHT,
DAVID A. SCOTT,
CLIFFORD S. ANDERSON,
HARRY A. COOKE,
JOSEPH W. LEYDEN,
HOWARD A. NASH,

Trustees.

REPORT OF THE SUPERINTENDENT TO THE TRUSTEES OF THE CITY HOSPITAL

SUMMARY OF THE YEAR'S WORK

Six thousand, five hundred and forty-two (6,542) bed patients were given 114,135 days' treatment at an expense of \$241,290.34.

Twenty-five thousand, seven hundred and forty-four (25,744) treatments were given in the out-patient department at an expense of \$12,619.54, or \$.49 per treatment.

Eight hundred and thirty-six (836) were treated in the accident room at an expense of \$1,980.37, or \$2.369 per patient.

There was a total of 114,135 days' treatment in the hospital proper, 25,744 treatments in the out-patient department and 836 treatments in the accident room at a total expenditure of \$260,698.84.

The average expenditure for each bed occupied continuously throughout the year was \$711.66, as against \$636.98 in 1916. This does not include the expenses of the out-patient department, or of the accident room, nor does it include interest on investment or depreciation of plant.

RECEIPTS	
Balance November 30, 1916	\$2,248.97
Appropriation from tax levy	145,637.98
Income from patients and sales	106,440.78
Income from funds	13,804.03
New public ward	47,000.00
Bakery addition	2,500.00
	\$317,631.71

EXPENDITURES	
General fund	\$262,952.77
Special funds	2,931.07
	265,883.84
General fund balance	0.00
Special fund balance	\$51,747.87
	\$51,747.87

The appended table shows the revenue from all sources for the past three years:

	1915	1916	1917
From board of patients	\$55,837.71	\$65,726.21	\$81,988.04
From sales	2,055.33	2,812.04	4,093.34
From towns and cities	11,124.86	10,382.39	9,694.58
From the Commonwealth	7,908.00	8,181.00	9,739.57
From services of nurses	357.31	470.66	705.25
From income of funds	13,202.65	13,539.76	13,804.03
	\$90,485.86	\$101,112.06	\$120,024.81

BILLS DUE THE HOSPITAL

For many years, bills for board and care which have proved not collectible during the year have been carried on the books and added each year to the sum of bad debts for many previous years. This evidence of an abiding faith and hope is in contrast to the method of many business corporations which transfer bad debts annually to the debit side of loss and gain account. The sum total of uncollected bills, many of which represent the bad debts of many previous years, amounted on November 30, 1917, to \$76,038.41.

PER CAPITA COST

The average cost of caring for patients has been \$14.80 per week, as against \$12.21 in 1916.

STATISTICS

There were admitted to the surgical wards, 2,407 patients, compared with 2,330 last year. The daily average cost of surgical patients was \$2.14, compared with \$1.821 last year.

There were 1,817 patients admitted to the medical wards, compared with 1,901 in 1916. The daily average cost of medical patients was \$1.929, compared with \$1.553 in 1916.

The number of children admitted was 685, compared with 755 in 1916. The daily average cost of the children was \$2.334, as against \$1.792 in 1916.

There were 836 minor accidents treated at a total expense of \$1,980.37, or \$2.369 per treatment, compared with \$1.914 last year.

The number of patients admitted to the maternity service was 571, compared with 512 last year. There were 535 births, as against 493 in 1916. The average daily cost of this department, including infants as patients, was \$1.882, compared with \$1.578.

The average number of beds occupied during the year was 312.69, while the average last year was 324.44.

The average duration of residence in the hospital of free and paying patients was 16.75, compared with 17.24 last year. The number of days' treatment was 114,135 as against 118,421 the previous year.

The largest number in the hospital in any one day was 372, compared with 377 last year, and the smallest number was 272, compared with 261 in 1916.

The total cost of subsistence supplies was \$91,484.88, or \$292.55 for each bed occupied, while last year the total was \$77,343.92 and the cost per bed was \$238.53. (The receipts

from the sale of grease, swill, etc., \$653.86, was deducted from the cost of food.)

Of the patients treated, 4,322 were classified as pay patients and paid their expenses all, or in part, as compared with 3,598 in 1916; 2,942 in 1915; 2,845 in 1914; 2,885 in 1913. The remaining 2,489 were classified as free patients, but of this number 197 were town patients, and reimbursement to the extent of \$12.00 per week was made to the city, while 484 were state patients and were charged to the Commonwealth at the rate of \$7 per week. The number of town patients in 1916 was 323 and the number of state patients was 551.

The average amount charged paying patients was \$13.63 a week. The average amount charged in 1916 was \$13.26.

REJECTIONS

During the year 92 applicants were refused admission to the hospital, compared with 90 last year. Of this number 8 were suffering from chronic, contagious and venereal diseases; 20 had no settlement in Worcester; 53 were refused for lack of beds; and 11 were referred to physicians outside.

OUT-PATIENT DEPARTMENT

There were admitted to the Department 5,478 new patients compared with 6,074 in 1916. They were divided among the different clinics as follows: Medical, 984; surgical, 1,930; eye, 630; ear, nose and throat, 774; dermatological, 304; gynecological, 163; neurological, 52; orthopedic, 110; genito-urinary, 193; lung, 42; massage, 77; dental, 70; electro-therapeutic, 149.

Last year there were 6,074 patients admitted to all clinics, or 596 more than this year. The total number of visits this year was 25,744, as compared with 25,725, an increase of 19.

The visits among the different divisions were divided as follows: medical, 2,476; surgical, 12,057; eye, 1,903; ear, nose and throat, 2,120; dermatological, 693; gynecological, 815; neurological, 149; orthopedic, 509; genito-urinary, 1,821; lung, 130; massage, 1,383; dental, 85; electro-therapeutic, 1,423.

The daily average treated was 84.68, as compared with 84.35 in 1916.

In admitting patients to this department, each applicant is questioned carefully as to his or her ability to pay. Only those are admitted who cannot afford to pay a physician for his services. In questioning applicants as to their ability and desire to pay for services, no fixed rules are followed, but the desire for independence and self-reliance is

stimulated so that many who come for free treatment volunteer to go to physicians outside the hospital rather than accept charity.

In cases of sudden sickness, or recent accident, relief is given immediately without preliminary investigation. The applicant is always given the benefit of any doubt.

PERSONS EMPLOYED

The average number of persons employed was 260.38 as against 272.62 last year; the average number of persons boarded, other than patients, was 242.66, as against 253.18 in 1916. The total number of days' board furnished patients and employees was 202,764, as against 210,835 last year. The daily cost of food was \$0.45, compared with \$0.366 last year.

PRIVATE PATIENT SERVICE

The number of patients occupying private rooms for the year was 545, compared with 598 last year.

During the past year the average cost of caring for patients was \$2.755 a day, compared with \$2.385 in 1916. The average price charged for rooms was \$21.17 exclusive of special nursing, compared with \$20.08 in 1916. The total income derived from this source, including special nursing was \$23,874.45.

PATIENTS ENTITLED TO FREE TREATMENT

There has always been more or less misunderstanding as to the class of people which the City Hospital accepts as free patients. The admitting officers of the hospital are required to explain daily, several times over, just why applicants for free treatment are rejected.

The only patients eligible for free treatment in this hospital according to the ruling of the Trustees, are those who have gained a legal settlement in the City of Worcester, and who require relief during temporary sickness. Patients, though legally settled in Worcester, are expected to pay when able to do so.

Patients legally settled in other cities and towns, failing to pay their hospital bills, are charged to those cities and towns wherein they have settlements.

Applicants who have no legal settlement in the Commonwealth are accepted and charged to the state, providing they are not physically able to travel to the State Hospital at Tewksbury. If they are able to undertake the journey, we are compelled to reject them as free patients.

Many unsettled cases apply for treatment each year, who have absolutely no claim on Worcester. When refused admission as free patients, they cannot understand the reason for their rejection and are likely to resent it, frequently appealing to influential outside friends.

ADMISSION OF PATIENTS AT NIGHT

Some provision should be made for patients admitted during the night hours. The arrival of a patient in a ward at night tends to disturb the patients already there. Since the night transfer ambulance was put on by the Police Department, the admissions after 8 o'clock in the evening have materially increased. Frequently patients put off coming to the Hospital until evening, because they do not like to have the police ambulance call at their homes in the daytime. This, under the present conditions, is unfair to the hospital and to the patients.

CHANGES IN THE MEDICAL STAFF

RESIGNATIONS

Dr. E. H. Trowbridge resigned as surgeon in the House in January.

Dr. Homer Gage resigned as surgeon in the House in January.

Dr. Roy J. Ward resigned as physician in the Out-patient Department in June.

Dr. Lemuel F. Woodward resigned as surgeon in the House in July.

Dr. W. Irving Clark resigned as surgeon in the Out-patient Department in September.

APPOINTMENTS

Dr. Ernest L. Hunt was appointed assistant surgeon in the House in January.

Dr. Frank L. Magune was appointed assistant surgeon in the House in January.

Dr. Roy J. Ward was appointed assistant physician in the House in January.

Dr. Claudius J. Byrne was appointed to the surgical staff of the Out-patient Department in March.

Dr. Frank E. Stowell was appointed to the electro-therapeutic clinic in Out-patient Department in March.

Dr. Benjamin F. Andrews was appointed surgeon on the Out-Patient Staff in April.

Dr. John J. Brennan was appointed assistant in the eye service of the Out-patient Department in September.

Dr. John A. MacFadyen was appointed assistant in the genito-urinary service of the Out-patient Department in November.

CHANGES IN THE EXECUTIVE STAFF

RESIGNATIONS

Miss Clara M. Thurston resigned as assistant superintendent of nurses in October.

Miss Lillian Mackintosh resigned as head nurse in the maternity ward in July.

Miss Dora Cady resigned as anesthetist in August.

Miss Gertrude I. Allison resigned as night superintendent of nurses in April.

Miss Helen M. Westwood resigned as head nurse in the maternity ward in December.

Miss Florence Larson resigned as anesthetist in February.

Miss Myrma Millett resigned as instructor of probationers in October.

Miss Bessie Fleming resigned as surgery nurse in January.

APPOINTMENTS

Miss Minnie M. Schofield, graduate of the Worcester City Hospital class of 1907, was appointed head nurse in surgery in January.

Miss Grace E. Merritt, graduate of the Worcester City Hospital class of 1915, was appointed general assistant in February. Miss Merritt was appointed instructor of probationers in September.

Miss Lillian Mackintosh, graduate of the Maine General Hospital, was appointed head nurse in the maternity ward in February.

Miss Dora Cady, graduate of the Mary Hitchcock Memorial Hospital, was appointed anesthetist in February.

Miss Alice T. Riddle, graduate of the Nason Hospital of Roaring Spring, Penn., was appointed night superintendent in April.

Miss Marion Dunham, graduate of the Worcester City Hospital in the class of 1915, was appointed general assistant in June.

Mr. Martin Cassidy, graduate of the Worcester City Hospital in the class of 1917, was appointed surgery nurse in September.

Miss Anna M. Henderson, graduate of the Pennsylvania Hospital in the class of 1913, was appointed general assistant in September.

Miss Elizabeth I. McDermott, graduate of the Worcester City Hospital, class of 1917, was appointed head nurse in the maternity ward in October.

Miss Estelle Murley, graduate of the Worcester City Hospital class of 1913, was appointed assistant Superintendent of nurses in November.

TRAINING SCHOOL FOR NURSES

The number of graduates this year was 43, while in 1916 there were 39. There were 60 probationers received this year, compared with 80 last year, of this number 44 have been accepted.

There are now connected with the school:

Superintendent of nurses.....	1
Assistant Superintendent of nurses.....	1
Night Superintendent of nurses.....	2
Instructor of probationers.....	1
Emergency assistants.....	2
Instructor of male nurses.....	1
Maternity supervisor.....	1
Children's supervisor.....	1
Surgery supervisor.....	1
Anesthetist.....	1
Pupil nurses.....	117
Male nurses.....	12
Probationers.....	27

168

The average cost to the Hospital for each nurse in the Training School was \$1.778, as compared with \$1.333 a day last year. Therefore the cost of training a nurse for three years, which is the duration of the prescribed course, is about \$1,900.

Doctors Denning and Talbot have continued the practical lectures and quizzes on obstetrical nursing.

The lectures of Dr. Hunt on bacteriology and Dr. Lincoln on chemistry have been repeated for the instruction of each class.

During the year the Superintendent of Nurses and her assistants have held 575 recitations and given 690 demonstrations.

The number of applications received this year from nurses desiring to enter the school was 273, compared with 308 in 1916. Of this number 96 have been accepted as candidates for admission and their names placed on file.

The Thayer Fund for Nurses, so generously donated, still continues to give "comfort and pleasure" to the nurses. The "Home" is frequently the scene of much enjoyment, and many dainty lunches have been provided from this fund.

KINDERGARTEN COURSE

Mrs. Mary H. Barker, Director of Kindergartens of the public schools, has continued her lectures as usual.

The observation of kindergarten methods in the various schools was continued as in previous years, and our nurses continue to enjoy this part of their course and find it very helpful.

MOCK OPERATIONS

The method of training nurses in surgical detail and technique, by means of mock operations and other demonstrations, has been continued along the same lines as in previous years, with items of interest added to make the course still more interesting to the pupil nurses. We find this course very practical and necessary before the nurse is allowed to take her training in the operating room.

We are under obligation to Dr. L. F. Woodward, who has made this course especially interesting.

Dr. Woodward has also added to the scope and subject matter of the lectures which he has annually given to the City Hospital nurses.

Doctors Trowbridge and Wheeler have also given additional lectures to the nurses on surgical technique. To Doctors Berry, Getchell, Harrower, Baker and Greene and those other physicians of Worcester who have given time and painstaking preparation to their lectures for the City Hospital nurses, we continue appreciative and grateful.

ADDITIONAL COURSE IN DIETETICS

Additional instruction in the preparation of diets for the sick under the instruction of Miss Kehoe, Hospital Dietitian, will be given advanced student nurses.

MALE NURSES

For several years Worcester City Hospital has offered a two years' course of training for men nurses which will be continued the coming year. Men student nurses are not trained to care for women and children or to become experts in the diet kitchen, but, excepting the maternity service, the children's service and the Isolation Hospital where the patients are largely children, the lectures and instructions are similar to those given women nurses. For a

broader discussion of the male nurse problem, those interested are referred to City Hospital report for 1909 and 1910, in which is printed a report of the Training School Committee of the Trustees covering this subject.

OBLIGATIONS

The hospital has been the recipient of a large number of donations such as books, magazines, newspapers, pictures, toys, flowers, Christmas presents for the children, etc. A list of these, together with the name of the donors, is published in another part of this report. The gifts, though usually inexpensive have added much to the comfort and pleasure of the hospital patients, particularly the children.

Different church choirs have sung for the patients a few Sunday afternoons, which has been greatly enjoyed.

The Worcester Employment Society did a large amount of sewing for the Hospital during the year.

The clergymen of the city have responded cheerfully and promptly to the numerous calls sent out by the Hospital. We are under obligations to them for much valuable assistance.

The services rendered the hospital by its staff, officers and employees during the past twelve months have been fully up to the standard of former years.

Respectfully submitted,

CHARLES A. DREW,
Superintendent.

**WORCESTER CITY HOSPITAL
COST STATEMENTS
DECEMBER 12, 1917**

**COOLEY & MARVIN Co.,
Tremont Building, Boston, Mass.**

December 12, 1917.

To the Trustees of Worcester City Hospital, Worcester, Massachusetts:

Dear Sirs:—In accordance with instructions, we have prepared statements of the total cost of the operations of the Worcester City Hospital for the fiscal year ended November 30, 1917, together with statements showing the results of apportioning such costs for the various departmental functions of the hospital. The results of this apportionment locate all of the costs of the year to some such function of the hospital.

We submit herewith two exhibits and nine schedules as listed hereinafter. These statements have been prepared from data as shown by the books and records of the hospital without further verification other than ascertaining that the statistics presented were correctly represented in the general ledger and that the balance sheet, after making the necessary entries distributing the costs of the year, was in accordance with the controlling records of the City Auditor of Worcester as at November 30, 1917. Other statistical records of the hospital as maintained throughout the year have been used as bases in apportioning the cost of operations to the various departmental divisions as shown in the accompanying exhibits and schedules.

Very truly yours,

COOLEY & MARVIN Co.

EXHIBIT A

WORCESTER CITY HOSPITAL

CONDENSED COMPARATIVE STATEMENT OF COST OF OPERATION

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917	1916
Cash disbursements for year.....	\$262,952.77	\$226,962.01
<i>Deduct:</i>		
Amount paid on account of option on Joynes property.....		\$400.00
Cash refunds to cost of operations, 1916-1917.....	\$4,808.59	3,282.70
	<hr/> 4,808.59	<hr/> 3,682.70
Adjustment of inventories:		
Inventory of 1916, \$13,009.84; 1915, \$9,808.56	<hr/> \$258,144.18	<hr/> \$221,679.31
Inventory of 1917, 15,268.77; 1916, 18,009.84	2,258.98	3,206.28
	<hr/> \$255,890.25	<hr/> \$218,473.08
Total cost of operation, Exhibit B.....		
Administration expense.....	\$16,544.69	\$15,252.67
Professional care of patients.....	44,562.61	42,695.85
Department expenses.....	132,854.74	116,469.20
General house and property expense.....	61,928.21	44,055.31
	<hr/> \$255,890.25	<hr/> \$218,473.08
Total operation expense, Schedule 1.....		

EXHIBIT B
WORCESTER CITY HOSPITAL
SUMMARY OF APPORTIONMENT OF COSTS TO ITEMS OF SERVICE

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916		Total Cost	Patient Days	Average Cost	Total Cost	Increase
	Number	Average Cost	Number	Average Cost					
Medical wards.....	32,853	\$1.929	37,052	\$1.553	\$57,538.18		\$0.876		
Surgical wards.....	44,268	2.141	43,084	1.821	78,458.08		.320		
Maternity wards.....	15,768	1.882	15,039	1.578	23,723.67		.304		
Private wards.....	9,135	2.755	8,893	2.385	21,217.04		.370		
Children's wards.....	12,111	2.334	14,353	1.792	25,730.10		.542		
Out-patient department.....	25,744*	0.490	25,725*	.391	10,068.93		.099		
Accident department.....	836	2.369	910*	1.914	1,742.08		.455		
Total cost of operation, Exhibit A.....					\$255,890.25			\$218,473.08	

*Treatments.

SCHEDULE 1

COMPARATIVE STATEMENT OF COSTS OF OPERATIONS

FOR THE YEARS ENDED NOVEMBER 30, 1917, AND 1916

	1917	1916	Increase or Decrease
<i>Administration Expense:</i>			
Salaries—officers and clerks	\$12,720.80	\$11,477.81	\$1,242.99
Stationery, printing and postage	2,831.94	2,733.07	38.87
Telephone and telegraph (including wages).....	991.95	981.79	10.16
Total administration expense to Exhibit A...	\$16,544.69	\$15,252.67	\$1,292.02
<i>Professional Care of Patients:</i>			
Salaries and wages:			
Superintendent of nurses, assistants and in-			
structors.....	\$6,534.46	\$5,981.82	\$603.14
Nurses	9,406.52	9,917.13	490.61
Orderlies	4,263.56	4,046.41	217.15
	\$20,204.54	\$19,894.86	\$309.68
<i>Medical supplies:</i>			
Drugs	\$8,227.49	\$8,509.74	\$282.25
Alcohol, wines and liquors	732.46	491.24	241.22
Rubber goods	82.40	81.52	49.18
Miscellaneous	814.85	694.97	119.88
	\$9,807.20	\$9,777.47	\$29.73

SCHEDULE 1 (Continued)

Surgical supplies:				
Gauze.....	\$4,186.01		\$9,257.46	\$928.55
Bandages.....	1,641.07		1,494.24	146.83
X-ray supplies.....	1,174.66		1,129.11	45.55
Apparatus and instruments.....	1,722.72		1,237.08	485.64
Absorbent cotton.....	751.38		462.10	289.28
Ether.....	953.68		838.81	114.87
Rubber goods.....	494.85		390.31	104.54
Miscellaneous.....	1,845.00		2,150.41	305.41
				<hr/>
Out-patient department:		\$12,769.37		\$10,959.52
Salaries and wages.....		1,781.50		2,064.00
				<hr/>
Total professional care of patients to Exhibit A.....		\$44,562.61		\$42,695.85
				<hr/>
Department Expenses:				
Pathological laboratory:				
Salaries and wages.....	\$1,890.51		\$1,552.39	\$338.12
Supplies.....	185.22		680.71	495.49
				<hr/>
Apothecary department:		\$2,075.73		\$2,238.10
Salaries and wages.....		2,168.83		2,514.28
Nurses' Home:				
Salaries and wages.....		1,701.16		1,847.29
				<hr/>
				353.87

SCHEDULE 1 (Continued)

Housekeeping:			
Salaries and wages.....	\$1,181.01	\$1,009.04	\$171.97
Dry goods.....	5,109.98	8,154.05	3,044.07
Soap.....	610.57	628.44	15.87
General supplies.....	6,182.49	8,598.10	2,584.39
			<hr/>
	\$13,084.05		\$18,887.63
			*\$308.58
Kitchen and dining room:			
Salaries and wages.....	\$11,452.67	\$9,809.20	\$2,143.47
Supplies.....	2,971.96	2,987.27	15.31
			<hr/>
	\$14,424.63		\$12,296.47
			<hr/>
			\$1,378.46
			804.51
			<hr/>
			\$568.95
Laundry:			
Salaries and wages.....	\$6,164.52	\$4,791.06	
Supplies.....	1,750.94	2,555.45	
			<hr/>
			\$7,915.46
Food:			
Butter.....	\$10,838.69	\$10,073.70	\$764.99
Cereal, rice, meals, etc.....	979.57	695.06	284.51
Coffee, tea, cocoa and chocolate.....	2,249.97	1,642.50	607.47
Eggs.....	7,495.15	6,048.13	1,447.02
Fish.....	3,163.60	2,481.61	781.99
Flour.....	4,716.47	8,021.32	1,695.15
Fruit.....	5,268.89	5,360.12	91.23
*Decrease.			

SCHEDULE 1 (Continued)

Meat.....	21,781.28	18,060.65	8,720.58
Milk.....	16,081.27	12,828.13	8,258.14
Potatoes.....	2,211.60	8,427.05	1,215.45
Poultry.....	8,674.75	8,385.12	289.63
Sugar.....	8,527.46	8,197.28	930.18
Sundries.....	4,770.15	8,368.22	1,406.98
Vegetables.....	4,726.08	8,810.08	916.05
	<u>\$91,484.88</u>		<u>\$14,140.96</u>
Total department expense to Exhibit A.....	\$132,854.74	\$77,848.92	\$16,386.54
<i>General House and Property Expense:</i>			
Heat, light and power plant:			
Salaries and wages.....	\$6,338.81	\$5,632.44	\$700.87
Coal.....	26,261.84	15,141.19	11,120.15
Electrical supplies.....	874.54	766.94	107.60
Repairs and renewals.....	5,605.76	1,394.89	4,211.87
Oils, waste, etc.....	323.85	292.95	30.40
	<u>\$39,398.80</u>		<u>\$16,170.89</u>
Repairs to buildings:			
Salaries and wages.....	\$3,261.94	\$3,077.66	\$204.28
Supplies.....	3,249.82	8,068.71	186.11
	<u>\$6,581.76</u>		<u>\$390.39</u>

SCHEDULE 1 (Continued)

Care of buildings and grounds:				
Salaries and wages.....	\$9,647.88	\$7,976.21	\$1,671.67	
Supplies.....	811.75	206.86	104.89	
	<hr/>			
Gas.....	\$9,959.68	\$8,188.07	\$1,776.56	
Water.....	527.09	468.61	58.48	
Insurance.....	2,266.78	2,225.41	41.37	
Conveyances.....	1,422.25	1,797.45	375.20	
General expense.....	974.82	905.34	69.48	
	847.58	1,106.15	258.57	
	<hr/>			
Total general house and property expense to Exhibit A.....	\$61,928.21	\$44,055.31	\$17,872.90	
	<hr/>			
Total operation expense to Exhibit A.....	\$255,890.25	\$218,473.08	\$37,417.22	

SCHEDULE 2

COST OF OPERATION OF MEDICAL WARDS

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Patient Day	Amount	Per Patient Day
Food.....	\$11,851.82	\$0.360	\$10,381.97	\$0.281
Kitchen and dining room expense.	3,939.01	.120	3,184.05	.086
House officers.....	622.45	.019	586.66	.016
Nurses, Schedule 9.....	18,477.58	.562	17,671.13	.477
Orderlies.....	2,881.38	.088	2,444.75	.066
Housekeeping salaries and wages.	322.12	.010	298.14	.008
Laundry.....	4,007.08	.122	3,256.88	.088
Medical supplies.....	2,578.67	.078	2,819.25	.076
General supplies.....	1,800.54	.055	1,174.22	.032
Dry goods.....	1,366.34	.040	2,303.58	.062
Gas.....	57.59	.001	38.63	.001
Water.....	152.77	.005	178.81	.005
Pathological department.....	1,191.18	.036	1,128.99	.030
Apothecary.....	619.73	.018	780.69	.021
Care of building.....	3,719.22	.113	2,958.96	.079
Heating and ventilating.....	1,877.84	.057	1,112.71	.030
Electric lighting.....	487.05	.015	288.65	.008
Insurance.....	198.76	.006	251.39	.007
Repairs to buildings.....	1,125.38	.034	1,104.09	.030
Administration.....	5,113.57	.155	4,745.73	.128
General expense.....	1,001.80	.035	823.90	.022
Total.....	\$63,391.88	\$1.929	\$57,533.18	\$1.553

In 1917, 32,853 Patient Days—Average Cost, \$1.929 per day
 In 1916, 37,052 Patient Days—Average Cost, 1.553 per day

Increase in Average Cost, \$.376 per day

SCHEDULE 3

COST OF OPERATION OF SURGICAL WARDS

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Patient Day	Amount	Per Patient Day
Food.....	\$15,969.82	\$0.361	\$12,072.14	\$0.281
Kitchen and dining room expense.	5,307.63	.120	3,703.37	.086
House officers.....	916.35	.021	861.77	.020
Nurses, Schedule 9.....	23,572.71	.533	20,661.04	.480
Orderlies.....	3,416.16	.077	2,635.14	.061
Housekeeping, salaries and wages.	434.05	.009	346.68	.008
Laundry.....	6,168.36	.140	4,599.91	.107
Medical supplies.....	3,474.68	.078	3,278.22	.077
Surgical supplies.....	9,414.26	.212	8,979.11	.208
General supplies.....	2,426.17	.055	1,365.39	.032
Dry goods.....	1,841.06	.041	2,678.61	.062
Gas.....	77.60	.002	44.96	.001
Water.....	205.72	.004	207.94	.005
Pathological department.....	1,605.07	.036	1,312.80	.030
Apothecary.....	835.10	.019	907.78	.021
Care of buildings.....	5,683.22	.129	4,521.51	.105
Heating and ventilating.....	2,869.51	.065	1,700.33	.039
Electric lighting.....	403.94	.009	239.39	.005
Insurance.....	307.53	.007	388.94	.009
Repairs to buildings.....	1,617.75	.036	1,476.68	.034
Administration.....	6,890.31	.155	5,518.33	.128
General expense.....	1,349.83	.032	958.04	.022
Total.....	\$94,786.83	\$2.141	\$78,458.08	\$1.821
In 1917, 44,268 Patient Days—Average Cost, \$2.141 per day				
In 1916, 43,084 Patient Days—Average Cost, 1.821 per day				

Increase in Average Cost,

\$.320 per day

SCHEDULE 4

COST OF OPERATION OF MATERNITY WARDS

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Patient Day	Amount	Per Patient Day
Food.....	\$5,688.36	\$0.359	\$4,213.93	\$0.280
Kitchen and dining room expense.	1,890.55	.120	1,292.45	.086
House officers.....	363.09	.023	342.21	.023
Nurses, Schedule 9.....	6,075.01	.385	5,448.04	.362
Housekeeping, salaries and wages.	154.61	.010	121.00	.008
Laundry.....	3,396.28	.216	2,634.99	.175
Medical supplies.....	1,237.63	.078	1,144.30	.076
Surgical supplies.....	930.69	.060	476.62	.031
General supplies.....	864.18	.059	476.61	.031
Dry goods.....	494.94	.030	894.85	.059
Gas.....	27.64	.002	15.64	.001
Water.....	73.32	.005	72.58	.005
Pathological department.....	571.72	.035	458.24	.031
Apothecary.....	297.45	.020	316.87	.021
Care of buildings.....	2,449.53	.156	1,948.96	.130
Heating and ventilating.....	1,236.74	.078	732.87	.049
Electric lighting.....	218.40	.014	129.44	.008
Insurance.....	128.20	.008	161.86	.011
Repairs to buildings.....	640.44	.040	581.56	.039
Administration.....	2,454.29	.155	1,926.24	.130
General expense.....	480.80	.029	334.41	.022
Total.....	<u>\$29,673.87</u>	<u>\$1.882</u>	<u>\$23,723.67</u>	<u>\$1.578</u>

In 1917, 15,768 Patient Days—Average Cost, \$1.882 per day

In 1916, 15,039 Patient Days—Average Cost, 1.578 per day

Increase in Average Cost,

\$.304 per day

SCHEDULE 5

**COST OF OPERATION OF PRIVATE PATIENT WARDS
FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917**

	1917		1916	
	Amount	Per Patient Day	Amount	Per Patient Day
Food	\$5,716.19	\$0.626	\$4,795.10	\$0.540
Kitchen and dining room expense .	1,899.80	.208	1,470.70	.165
House officers.....	311.22	.034	293.33	.033
Nurses, Schedule 9.....	5,285.40	.579	5,390.69	.606
Orderlies.....	822.28	.090	643.26	.072
Housekeeping, salaries and wages .	89.57	.010	71.55	.008
Laundry.....	2,759.32	.302	1,876.77	.211
Medical supplies.....	717.01	.078	676.66	.076
Surgical supplies.....	788.80	.086	443.88	.050
General supplies.....	500.65	.055	281.82	.031
Dry goods.....	458.87	.050	723.53	.081
Gas.....	16.01	.002	9.25	.001
Water.....	42.48	.005	42.93	.005
Pathological department.....	331.22	.034	270.97	.031
Apothecary.....	172.32	.018	187.37	.021
Care of buildings.....	1,842.52	.202	1,465.95	.165
Heating and ventilating.....	930.11	.102	551.22	.062
Electric lighting.....	228.06	.026	135.17	.015
Insurance.....	119.04	.013	150.24	.017
Repairs to buildings.....	434.95	.050	399.82	.045
Administration.....	1,421.86	.155	1,139.04	.128
General expense.....	278.53	.030	197.74	.022
Total.....	\$25,166.21	\$2.755	\$21,217.04	\$2.335

In 1917, 9,135 Patient Days—Average Cost, \$2.755 per day

In 1916, 8,893 Patient Days—Average Cost, 2.335 per day

Increase in Average Cost,

\$.370 per day

SCHEDULE 6

**COST OF OPERATION OF CHILDREN'S WARDS
FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917**

	1917		1916	
	Amount	Per Patient Day	Amount	Per Patient Day
Food.....	\$4,368.94	\$0.361	\$4,021.71	\$0.280
Kitchen and dining room expense.	1,452.04	.120	1,233.49	.086
House officers.....	311.22	.026	298.38	.020
Nurses, Schedule 9.....	6,357.78	.525	6,121.54	.426
Housekeeping, salaries and wages.	118.75	.010	115.48	.008
Laundry.....	2,523.72	.208	2,544.91	.178
Medical supplies.....	950.59	.078	1,092.10	.076
Surgical supplies.....	513.15	.042	385.18	.023
General supplies.....	663.76	.055	454.87	.032
Dry goods.....	310.65	.025	662.98	.047
Gas.....	21.22	.002	14.99	.001
Water.....	56.32	.005	69.27	.005
Pathological department.....	439.21	.036	437.34	.030
Apothecary.....	228.46	.019	302.40	.021
Care of buildings.....	4,248.00	.351	3,379.78	.235
Repairs of buildings.....	849.22	.070	826.16	.058
Heating and ventilating.....	2,145.01	.177	1,270.92	.089
Electric lighting.....	274.45	.023	162.66	.011
Insurance.....	184.67	.015	233.52	.016
Administration.....	1,885.08	.156	1,838.37	.123
General expense.....	369.31	.030	319.15	.022
Total.....	\$28,271.55	\$2.334	\$25,730.10	\$1.792

In 1917, 12,111 Patient Days—Average Cost, \$2.334 per day
 In 1916, 14,353 Patient Days—Average Cost, 1.792 per day

Increase in Average Cost, \$.542 per day

SCHEDULE 7

COST OF OPERATION OF OUT-PATIENT DEPARTMENT

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Treatment	Amount	Per Treatment
Officers and assistants	\$1,230.50	\$0.049	\$1,492.00	\$0.058
Food	347.99	.013	311.86	.012
Kitchen and dining room expense	115.66	.004	95.65	.004
House officers	363.09	.014	342.21	.013
Nurses, Schedule 9	2,269.24	.088	1,632.41	.063
Orderlies	681.89	.026	532.54	.021
Housekeeping, salaries and wages	53.71	.002	48.87	.002
Laundry	385.27	.016	205.21	.008
Medical supplies	783.00	.030	697.70	.027
Surgical supplies	944.69	.040	535.08	.021
General supplies	300.23	.012	192.50	.007
Dry goods	82.05	.003	90.11	.003
Gas	23.06	.001	33.83	.001
Water	15.36	.000	26.83	.001
Care of buildings	647.87	.025	572.00	.022
Heating and ventilating	2,166.68	.084	1,283.77	.051
Electric lighting	516.04	.020	305.85	.012
Insurance	117.57	.004	148.40	.006
Repairs to buildings	551.00	.020	609.06	.024
Administration	852.65	.033	777.98	.030
General expense	166.99	.006	135.07	.005
Total	\$12,619.54	\$0.490	\$10,068.93	\$0.391

In 1917, 25,744 Treatments—Average Cost, \$0.490 per treatment
 In 1916, 25,725 Treatments—Average Cost, 0.391 per treatment

Increase in Average Cost, \$0.099 per treatment

SCHEDULE 8
 COST OF OPERATION OF ACCIDENT DEPARTMENT
 FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Treatment	Amount	Per Treatment
House officers.....	\$17.32	\$0.020	\$18.20	\$0.020
Nurses, Schedule 9.....	444.95	.534	436.39	.480
Orderlies.....	64.60	.077	55.66	.061
Housekeeping, salaries and wages.	8.20	.010	7.32	.008
Medical supplies.....	65.62	.078	69.24	.076
Surgical supplies.....	177.78	.213	189.65	.208
General supplies.....	45.82	.055	28.84	.031
Dry goods.....	34.77	.041	56.57	.062
Water.....	3.89	.005	4.39	.005
Apothecary.....	15.77	.020	19.17	.021
Care of buildings.....	481.49	.575	383.07	.421
Heating and ventilating.....	243.06	.291	144.05	.159
Electric lighting.....	88.91	.106	52.69	.058
Insurance.....	45.54	.055	57.51	.063
Repairs to buildings.....	87.05	.105	82.50	.091
Administration.....	130.12	.154	116.55	.128
General Expense.....	25.48	.030	20.23	.022
Total.....	\$1,980.37	\$2.369	\$1,742.03	\$1.914

In 1917, 836 Treatments—Average Cost \$2.369 per treatment
 In 1916, 910 Treatments—Average Cost, 1.914 per treatment

Increase in Average Cost, \$.455 per treatment

SCHEDULE 9
COST OF NURSES

FOR THE YEARS ENDED NOVEMBER 30, 1916, AND 1917

	1917		1916	
	Amount	Per Nurse Day	Amount	Per Nurse Day
Salaries and wages:				
Supt. of nurses and assistants...	\$5,946.46	\$0.169	\$5,343.32	\$0.125
Instructors	588.00	.016	588.00	.013
Nurses	9,406.52	.268	9,917.18	.231
Food for above	23,354.76	.665	21,768.68	.506
Kitchen and dining room expense .	7,762.13	.221	6,676.10	.155
Laundry	2,295.51	.064	1,604.60	.038
Dry goods	186.69	.005	299.37	.007
Gas	18.40	.001	16.68	.....
General supplies	191.71	.006	250.29	.006
Water	121.45	.004	89.84	.002
Care of buildings	1,701.16	.048	1,347.29	.031
Heating and ventilating	2,769.49	.079	1,641.05	.038
Electric lighting	597.21	.016	353.93	.008
Repairs to buildings	828.16	.024	778.59	.018
Insurance	174.90	.005	221.12	.005
Administration	5,468.79	.156	5,508.86	.128
General expense	1,071.83	.031	956.89	.022
Total	\$62,432.67	\$1.778	\$57,361.24	\$1.333

In 1917, 35,134 Nurse Days—Average Cost, \$1.778 per day

In 1916, 43,010 Nurse Days—Average Cost, 1.333 per day

Increase in Average Cost,

\$.445 per day

	1917	1916	1917	1916
Medical wards.....	10,890	13,250	Nurse days, \$18,477.58	\$17,671.13
Maternity wards.....	3,416	4,085	Nurse days, 6,075.01	5,448.04
Private wards.....	2,972	4,042	Nurse days, 5,285.40	5,390.69
Children's wards.....	3,575	4,590	Nurse days, 6,357.78	6,121.54
Out-patient dept.....	1,276	1,224	Nurse days, 2,269.24	1,682.41
*Surgical wards.....	13,505	15,819	Nurse days, 23,572.71	20,661.04
Surgical wards.....	44,268	43,084	Patient days, .....	.....
Accident dept.....	836	910	Treatments, 444.95	436.39
			\$62,482.67	\$57,361.24

*Includes accidents.

INVENTORIES

	1917	1916
Administration Expense:		
Stationery and Printing.....	\$250.00	\$200.00
		\$250.00
Medical Supplies:		\$200.00
Drugs.....	\$2,892.39	\$2,307.05
Alcohol, wines and liquors....	773.00	725.85
Miscellaneous.....	234.82	231.33
		\$3,900.21
Surgical Supplies:		\$3,264.23
Gauze.....	\$858.15	\$270.25
Bandages.....	271.78	177.06
Absorbent cotton and waste..	253.82	79.53
Ether.....	71.75	91.00
Apparatus and Instruments..	676.02	797.29
Rubber Goods.....	79.38	101.38
Miscellaneous.....	673.32	400.39
		\$2,834.22
Pathological Laboratory:		\$1,916.90
Supplies.....	\$61.50	\$37.40
		\$61.50
Housekeeping Department:		\$37.40
Dry goods.....	\$1,970.60	\$2,548.48
General supplies.....	906.00	1,222.89
Soap.....	291.62	277.13
		\$3,168.22
Kitchen and Dining Room:		\$4,048.50
Supplies.....	\$1,010.25	\$622.30
		\$1,010.25
Laundry:		\$622.30
Supplies.....	\$194.15	\$155.37
		\$194.15
		\$155.37

Food:

Butter	\$165.13	\$47.80
Cereals, rice, meals, etc.....	45.52	34.94
Coffee, tea, cocoa and chocolate	53.94	40.48
Flour	108.28	70.00
Fruit	403.55	519.00
Meat	842.10	193.27
Potatoes	32.00	29.40
Vegetables	688.24	373.08
Sugar	36.00	15.50
Sundries	359.22	159.63

	\$2,733.98	\$1,488.10
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Heat, Light and Power Plant:

Coal	\$520.00	\$907.50
Electric Supplies	17.15	97.89
Repairs and renewals	23.70	22.40
Oils, waste, etc.....	46.32	68.25

	\$607.17	\$1,096.04
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Repairs to Buildings:

Supplies	\$454.07	\$186.00
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	\$454.07	\$186.00
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	\$15,263.77	\$13,009.84
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STATISTICAL INFORMATION

ADMISSION, ETC., SINCE 1871

18 months ending Nov. 30	Admitted	Accidents	Daily average	Days in Hospital	Death rate	Out- patients	Accident room
1872	176	35	8.5	18.3	.118	...	...
Year ending							
1873	162	34	8.9	18.6	.21	...	...
1874	174	54	11.34	22.3	.075	...	...
1875	198	33	11.2	19.	.056	...	...
1876	191	52	17.1	18.	.055	...	...
1877	248	52	17.11	22.6	.077	...	...
1878	210	42	14.	20.7	.074	...	...
1879	206	61	16.5	27.	.073	...	...
1880	225	65	15.75	19.43	.12	...	...
1881	246	81	17.	19.43	.08	...	...
1882	294	87	19.43	23.3	.11	...	...
1883	371	94	26.45	23.3	.069	...	...
1884	354	115	26.09	23.6	.10	...	...
1885	441	141	32.9	24.2	.076	...	...
1886	509	108	35.9	22.9	.055	...	...
1887	795	122	48.7	18.9	.065	...	...
1888	817	217	46.6	19.	.066	...	...
1889	1,111	246	50.2	14.02	.058	...	...
1890	957	252	51.7	18.02	.067	534	...
1891	1,210	112	59.18	15.3	.072	921	...
1892	1,461	495	60.67	14.	.075	1,387	...
1893	1,389	430	60.94	19.	.06	1,588	...
1894	1,306	450	63.14	16.6	.062	2,102	...
1895	1,520	600	66.8	15.3	.053	2,426	...
1896	1,709	673	68.98	14.	.06	2,787	...
1897	1,582	183	95.01	21.03	.064	2,688	...
1898	1,739	278	94.17	18.4	.064	2,205	...
1899	1,777	400	96.23	19.28	.074	2,551	629
1900	2,085	422	103.11	17.41	.073	2,916	589
1901	2,142	413	100.7	15.89	.073	2,327	555
1902	2,427	114	119.27	17.94	.08	2,661	516
1903	2,955	123	144.94	17.90	.09	3,601	482
1904	3,245	96	166.9	13.	.08	4,655	637
1905	3,891	67	198.14	17.37	.059	4,444	761
1906	4,200	25	196.09	16.32	.053	5,116	789
1907	5,014	...	227.62	16.56	.066	5,716	933
1908	4,534	...	217.	17.47	.072	5,708	629
1909	4,343	...	197.57	16.60	.063	4,496	861
1910	4,459	...	208.16	17.03	.061	4,302	811
1911	4,380	...	218.42	18.02	.061	4,396	718
1912	4,854	...	228.6	17.19	.058	4,334	917
1913	5,390	...	248.47	16.82	.06	5,446	1,069
1914	5,615	...	267.05	16.71	.053	6,137	1,007
1915	5,924	...	237.67	17.00	.064	7,000	1,003
1916	6,588	...	324.44	17.24	.057	6,074	910
1917	6,542	...	312.69	16.75	.05	5,478	836
	99,916					104,441	14,662

Admitted: males, 3,796; females, 2,746; medical, 2,716, including 498 births; surgical, 3,255; maternity, 571	6,542
Treated (free 2,484; pay, 4,322)	6,811
Accident room cases not sent to wards	836
Out-patients	5,478
Total patients treated	13,125
Daily average number: Males, 178.15; females, 134.54	312.69
Average days in hospital, 16.75, total days' treatment	114,135
Deaths	576
Patients dead within 48 hours after admission	235
Mortality rate, .087; or deducting 235 moribund cases .....	.05
Visits of out-patients (medical, 2,476; surgical, 12,057; eye, throat, skin, etc., 11,211)	25,744
Number of prescriptions to out-patients	6,625

BIRTHPLACES OF PATIENTS ADMITTED

Worcester	1,922
Other towns in Massachusetts	1,010
Other states	877
Other countries	2,558
Unknown	85

AGES OF PATIENTS ADMITTED

Under 5 years	895	Between 40 and 50 years	847
Between 5 and 10 years	285	Between 50 and 60 years	516
Between 10 and 15 years	219	Between 60 and 70 years	331
Between 15 and 20 years	456	Over 70 years	199
Between 20 and 30 years	1,585	Unknown	47
Between 30 and 40 years	1,162		

RESIDENCES OF PATIENTS ADMITTED

Worcester	5,736
Other towns in Massachusetts	742
Other states	47
Unknown	17

CIVIL CONDITION

<i>Males</i>		<i>Females</i>	
Single	2,025	Single	1,064
Married	1,422	Married	1,488
Widowers	251	Widows	239
Unknown	40	Unknown	13

OCCUPATIONS

Female

Assemblers.....	2	Minors.....	601
Bookkeepers.....	6	No occupation.....	134
Clerks.....	31	Nurses.....	61
Cooks.....	17	Operatives.....	85
Cashiers.....	3	Stenographers.....	3
Domestics.....	201	Seamstresses.....	10
Housewives.....	1,471	Teachers.....	3
Inspectors.....	3	Telephone operator.....	1
Laundresses.....	21	Unknown.....	22
Laboratory Assistant.....	1	Weavers.....	8
Managers.....	2	Waitresses.....	18

Male

Agents.....	8	Draftsmen.....	8
Assemblers.....	5	Dresser.....	1
Attendants.....	8	Decorators.....	2
Accountants.....	2	Druggists.....	3
Bookkeepers.....	16	Designers.....	2
Bell boy.....	1	Engravers.....	2
Bakers.....	13	Elevator men.....	7
Barbers.....	14	Editor.....	1
Butchers.....	11	Engineers.....	3
Bartenders.....	12	Electrician.....	20
Baggagemen.....	1	Expressmen.....	3
Clerks.....	83	Farmers.....	57
Chauffeurs.....	23	Foremen.....	37
Cooks.....	14	Firemen.....	40
Contractors.....	5	Forgers.....	4
Carbonizer.....	1	Gardeners.....	16
Chemist.....	1	Grocers.....	4
Compositor.....	1	Helpers.....	23
Coopers.....	5	Hostlers.....	17
Canvasser.....	1	Inspectors.....	19
Clergymen.....	2	Janitors.....	25
Collectors.....	3	Laborers.....	587
Cutters.....	5	Leather workers.....	43
Chefs.....	2	Linemen.....	6
Chiropodist.....	1	Letter carrier.....	1
Caretaker.....	1	Lawyers.....	2
Drivers.....	7	Masons.....	37
Dentists.....	4	Musicians.....	7
Dyers.....	16	Milkmen.....	9
Deputy.....	1	Metal workers.....	455

Minors.....	883	Roofer.....	1
Messengers.....	3	Surveyor.....	1
Managers.....	7	Steeple jack.....	1
Manufacturers.....	13	Soldiers.....	19
Merchants.....	2	Sailors.....	2
Operatives.....	301	Stenographers.....	3
No occupation.....	143	Superintendents.....	6
Nurses.....	20	Salesmen.....	41
Opticians.....	8	Students.....	16
Overseers.....	4	Shippers.....	22
Printers.....	14	Storekeepers.....	5
Painters.....	54	Teamsters.....	87
Physicians.....	12	Tailors.....	14
Policemen.....	9	Telegraphers.....	2
Porters.....	10	Truckmen.....	16
Peddlers.....	21	Teachers.....	2
Polishers.....	16	Timekeeper.....	1
Packers.....	12	Unknown.....	61
Pressmen.....	9	Undertakers.....	3
Paperers.....	1	Weavers.....	12
Railroad employees.....	48	Woodworkers.....	90
Repairmen.....	8	Waiters.....	13
Reporters.....	1	Watchmen.....	18

DISCHARGED DURING THE YEAR

	Medical	Surgical	Maternity	Total
Well.....	.....	.....	470	470
Relieved.....	1,527	2,857	510	4,894
Not relieved.....	176	150	33	359
Not treated.....	46	23	0	69
Transferred.....	92	44	13	146
Died.....	315	176	88	574

COMPARATIVE STATEMENT OF DISBURSEMENTS FOR PAST 5 YEARS

Year ending Nov. 30.	ADMINISTRATION EXPENSE.		PROFESSIONAL CARES OF PATIENTS.		DEPARTMENT EXPENSE.		GENERAL HOUSE AND PROPERTY EXPENSE.		Average annual total cost per bed occupied, less out-patient, accident room and extraordinary expenses.	Average weekly total cost per bed occupied, less out-patient, accident room and extraordinary expenses.
	Total cost.	Average cost per bed occupied.	Total cost.	Average cost per bed occupied.	Total cost.	Average cost per bed occupied.	Total cost.	Average cost per bed occupied.		
1913	10,808.67	48.50	30,784.60	123.75	77,499.81	311.91	85,865.49	144.85	577.89	11.08
1914	11,577.18	43.35	32,511.56	121.37	88,842.85	332.69	97,888.81	184.89	591.67	11.84
1915	12,980.18	44.94	38,758.37	134.78	99,421.42	342.62	39,570.52	137.55	614.78	11.78
1916	15,726.17	48.48	44,238.14	136.33	117,517.88	365.29	44,278.54	136.51	636.98	12.21
1917	17,169.74	54.26	46,931.62	150.09	134,069.36	428.76	62,528.12	199.97	771.66	14.80

REPORT OF THE PATHOLOGICAL DEPARTMENT

During the past year the work of the laboratory has been actively carried on in the usual chemical, bacteriological and pathological divisions.

The statistical list of the different lines of laboratory investigations is detailed below:

Surgical specimens, histological diagnosis.....	1,635
Bacteriological cultures, organism identified.....	778
Blood cultures.....	39
Bacterial counts of milk.....	315
Bacterial vaccines made and standardized.....	24
Salvarsanized blood serum for spinal injection.....	39
Wassermann tests for syphilis.....	1,788
Complement fixation tests.....	80
Wassermann test of spinal fluid.....	96
Spinal fluid examination by culture.....	35
Globulin test.....	56
Post mortem examinations (including medico-legal).....	60

In addition to the above list many special examinations have been made of stools and urines for typhoid bacilli, animal inoculations to determine the nature of infections, colloidal gold test and cell counts of spinal fluids.

The laboratory is well equipped for the rapid diagnosis of syphilis by the dark field illumination, by the staining of smears and by staining Treponema in tissue. The examinations for gonorrhoeal infection are made by the usual smears, by culture and by the complement fixation test.

Examinations are being made to differentiate the types of the pneumococcus as they occur in pneumonia, so that patients may receive specific treatment.

SEROLOGICAL INVESTIGATION

The laboratory has continued its serological work along the lines of the past few years. In addition to the regular hospital work the Wassermann test and complement fixation test for gonorrhoea have been done for the Worcester Health Department. We feel more strongly than ever that these valuable tests should be used more extensively by the hospital and by the physicians throughout the city.

RECOMMENDATIONS

We would again respectfully call the attention of the Board of Trustees to the following suggestions, which were incorporated in the last annual report:

(1) That a Pathological Fund be established to increase the usefulness of the laboratory in the diagnosis and treatment of disease. Furthermore, it would make possible the encouragement of undertaking various lines of research work. Many important discoveries in medicine have been made outside of large medical centres. The fund could be secured if the possibilities of its great value should be called to the attention of the citizens of Worcester.

(2) That patients occupying private rooms be charged a moderate fee for the laboratory examinations. This custom prevails in many hospitals.

(3) That as soon as possible a Pathological House Officer be appointed to the laboratory staff, and if necessary, be paid a moderate salary; such a worker would more intimately connect the laboratory with the various departments of the hospital.

(4) That a Resident Pathologist be employed who shall give his entire time to this laboratory.

We again desire to recognize the faithful work and enthusiasm of our laboratory assistant, Miss Mills. Throughout the year her work, as formerly, has been of the greatest value to the hospital.

Miss Astrid Gustafson and Miss Mildred Hardy have rendered valuable assistance in carrying on the routine work of the laboratory.

In July, 1917, Dr. Edward B. Bigelow, Assistant Pathologist, enlisted in the medical corps of the army. He is now a major stationed at Camp Cody, New Mexico, being chief medical officer of that cantonment. The loss of his service in this laboratory has been keenly felt, for throughout his connection in this department his work has been of unusual merit.

Respectfully submitted,

FREDERICK H. BAKER, M. D.,
Pathologist.
ERNEST L. HUNT, M. D.,
Assistant Pathologist.

REPORT OF THE ROENTGEN DEPARTMENT

This department may now claim to have attained a standard of reasonable efficiency. In April the much desired centralization of its work was brought about by the taking over of a room in the administration building, near the Roentgen operating room. Here were installed a dark room with a three compartment developing tank; shelves sufficient for the filing of at least a year's plates; and everything else pertaining to the clerical side of the work. As a result of these changes, serial examinations of the gastro-intestinal tract can for the first time be properly carried out; a call for a plate three months old does not necessitate a trip to the Ward K attic; the arrival of a late case for examination does not upset all the darkroom routine; and in general the whole work of the department is carried on at an agreeably lessened level of nervous tension. Credit for much of the increased smoothness of the routine is due to the careful and efficient work of Miss Catherine Devlin, the technician, who now does the great bulk of the technical work. Drs. MacKay and Crofton have also rendered much appreciated assistance by doing work outside of the regular hours for the department.

The departure of Dr. George, who joined the colors early in June, threw some additional work upon the house force; the amount of work done is steadily increasing, but with the improved facilities it is readily taken care of.

The Roentgen apparatus, after a serious breakdown in September, which necessitated complete overhauling, is working well; an overhead trolley system for the lead wires adds to its efficiency. Up-to-date treatment work, however, cannot be done until a Coolidge tube is installed. This will require in addition a ray-proof booth for the operator.

Respectfully submitted,

PHILIP H. COOK,
Roentgenologist.

CASES TREATED AND THEIR RESULTS
FROM NOVEMBER 30, 1916, TO NOVEMBER 30, 1917
SURGICAL

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917	
		Males	Females	Total	Relieved	Not Relieved	Not Treated	Transferred	Eloped	Died	Total		
Abscess, alveolus		3	1	4	4							4	
Abscess, axillary		5	1	6	6							6	
Abscess, breast	1	13	19	32	30	1		1				32	
Abscess, cervical		11	3	14	13		1					14	
Abscess, ischio-rectal	2	6	3	9	9							9	
Abscess, inguinal		11	3	14	13		1					14	
Abscess, lower extremity		6	3	9	9							9	
Abscess, vulvo-vaginal			4	4	4							4	
Abscess, other parts	4	12	8	24	21	1						22	2
Abscess, retro-peritoneal		1		1	1							1	
Adenitis	1	15	8	24	21	1	1	1				24	
Adhesions		7	10	17	14	2						16	1
Appendicitis, acute	7	99	72	178	162					6		168	10
Appendicitis, chronic	2	20	48	70	67		2			1		70	
Arthritis	1	19	2	22	12	4		4				20	2
Bladder, calculi			1	1	1							1	
Bladder, cystitis		3	2	5		1				3		4	1
Bladder, incontinence		1		1			1					1	
Bladder, retention		13		13	10	1		1		1		13	
Burns			1	1	1							1	
Bursitis		6	2	8	8							8	
Cellulitis		4		4	4							4	
Carbuncle	1	7		8	7							7	1
Carcinoma		1	1	2	1			1				2	
Carcinoma, bladder		5	4	9	4	3		1		1		9	
Carcinoma, breast			12	12	10	1				1		12	
Carcinoma, intestines		1	2	3	1					1		2	1
Carcinoma, lip		2		2	2							2	
Carcinoma, liver			1	1								1	
Carcinoma, prostate		1		1						1		1	
Carcinoma, stomach		4		4		3				1		4	
Carcinoma, uterus	1		5	6	2	2				1		5	1
Carcinoma, other parts		7	1	8	3	3				1		7	1
Cholecystitis		5	1	6	5					1		6	
Cholelithiasis	2	3	16	21	16	2				2		30	1
Concussion of brain		16	3	19	16					2		18	1
Dislocation, lower ex- tremity		2		2	2							2	
Dislocation, upper ex- tremity	2	5	2	9	8							8	1
Dislocation, other parts		2		2	2							2	
Empyema	1	10	2	13	8	1				3		12	1
Epididymitis		15		15	13	2						15	
Fracture, lower jaw		3		3	3							3	

SURGICAL.—Continued

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917
		Males	Females	Total	Relieved	Not Relieved	Not Treated	Transferred	Eloped	Died	Total	
Fracture, lower extremity	31	162	42	235	191	6	...	1	...	2	200	35
Fracture, multiple	2	...	...	2	1	1	...	...	...	...	2	...
Fracture, rib	1	18	2	21	17	...	...	...	...	3	20	1
Fracture, skull	3	32	3	38	17	...	...	...	...	19	36	2
Fracture, spine	1	5	...	6	3	...	...	1	...	...	4	2
Fracture, upper extremity	3	52	16	71	67	3	...	...	...	...	70	1
Fracture, other parts	...	8	...	8	4	...	...	1	...	1	6	2
Gangrene	1	9	3	13	6	1	...	1	...	4	12	1
Genu varum	1	...	1	2	1	1	...	...	...	...	2	...
Goitre	...	...	1	1	1	...	...	...	...	...	1	...
Hernia, femoral	2	2	4	8	8	...	...	...	...	...	8	...
Hernia, inguinal	7	146	6	159	146	5	2	...	...	...	153	6
Hernia, strangulated	...	4	7	11	7	...	...	...	4	...	11	...
Hernia, umbilical	1	2	1	4	4	...	...	...	...	...	4	...
Hernia, ventral	...	8	4	12	11	1	...	...	...	...	12	...
Hydrocele	1	16	...	17	16	...	...	...	...	...	16	1
Intestinal obstruction	...	5	4	9	3	2	...	1	...	3	9	...
Kidney, calculi	...	8	3	11	6	5	...	...	...	...	11	...
Kidney, hydronephrosis	...	2	...	2	2	...	...	...	...	...	2	...
Kidney, pyelitis	...	...	3	3	3	...	...	...	...	...	3	...
Kidney, pyonephrosis	...	1	1	2	2	...	...	...	...	...	2	...
Kidney, rupture	...	1	2	3	3	...	...	...	...	...	3	...
Lipoma	1	2	...	3	3	...	...	...	...	...	3	...
Mastitis	...	...	2	2	2	...	...	...	...	...	2	...
Onychogryposis	1	...	...	1	1	...	...	...	...	...	1	...
Osteomyelitis, lower extremity	2	22	2	26	20	2	...	1	...	...	23	3
Osteomyelitis, upper extremity	...	7	3	10	8	1	...	...	...	...	9	1
Osteomyelitis, other parts	...	1	1	2	2	...	...	...	...	...	2	...
Ovary, cyst	2	...	4	6	5	...	...	...	...	...	5	1
Paraphimosis	...	9	...	9	9	...	...	...	...	...	9	...
Peritonitis	...	2	2	4	1	...	...	...	3	...	4	...
Phimosi	...	20	...	20	19	1	...	...	...	...	20	...
Phlebitis	...	2	2	4	2	...	...	...	2	...	4	...
Pilo-nidal sinus	...	2	...	2	2	...	...	...	...	...	2	...
Prostate, abscess	...	1	...	1	...	...	...	...	1	...	1	...
Prostate, hypertrophied	...	18	...	18	6	4	...	...	5	...	15	3
Rectum, fistula in ano	1	9	4	14	11	2	...	1	...	...	14	...
Rectum, hemorrhoids	1	28	9	38	39	...	...	...	...	...	37	1
Rectum, prolapse	...	3	...	3	2	1	...	...	...	...	3	...
Sacro-iliac strain	...	8	4	12	10	1	...	...	...	...	11	1
Salpingitis	1	40	4	41	32	2	...	1	...	1	36	5
Sarcoma	...	7	1	8	5	...	...	...	2	...	7	1
Scoliosis	...	...	1	1	1	...	...	...	...	...	1	...
Sepsis, lower extremity	...	26	8	34	29	1	...	...	3	...	33	1
Sepsis, upper extremity	3	61	10	74	66	...	...	...	4	...	70	4
Sepsis, other parts	...	6	3	9	9	...	...	...	...	...	9	...

SURGICAL.—Continued

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged						In Hospital Nov. 30, 1917	
		Males	Females	Total	Relieved	Not relieved	Not treated	Transferred	Eloped	Died		Total
Sprain	3	20	3	26	25	1					26	...
Synovitis		7	2	9	9						9	...
Syphilis		12	3	15	8	4		2		1	15	...
Tetanus		2		2	1					1	2	...
Traumatic amputation, upper extremity		15	1	16	14					1	15	1
Traumatic amputation, lower extremity	1	4		5						1	4	1
Tubercular hip	1	2	3	6	3	1	1				5	1
Tubercular kidney		2	3	5	1	3				1	5	...
Tubercular knee		7		7	5	2					7	...
Tubercular peritoneum		1	1	2	2						2	...
Tubercular spine	1	7	4	12	8	7				1	11	1
Tubercular, other parts		14	4	18	13	4		1			18	...
Tumor, breast		1	4	5	5						5	...
Tumor, back			1	1	1						1	...
Tumor, other parts		5	8	13	7	4		1		1	13	...
Ulcer, gastric		2	1	3	3						3	...
Ulcer, leg		4	20	29	14	3				6	23	6
Ulcer, duodenal		11	1	12	8	1				3	12	...
Urethra, stricture		6		6	5						5	1
Urethritis	1	7		8	6	2					8	...
Uterus, antifixion			1	1	1						1	...
Uterus, dysmenorrhoea	1		4	5	5						5	...
Uterus, endometritis	1		26	27	25					1	26	1
Uterus, extra-uterine pregnancy	1		7	8	6					1	7	1
Uterus, fibroid	3		11	14	9	1				4	14	...
Uterus, lacerated cervix			6	6	6						6	...
Uterus, menorrhagia			1	1		1					1	...
Uterus, metorrhagia			2	2	2						2	...
Uterus, miscarriage	6		122	128	122	1	1	1		1	126	2
Uterus, polypus			1	1	1						1	...
Uterus, retained secundias			2	2	2						2	...
Uterus, prolapse			5	5	5						5	...
Uterus, retroversion			14	14	13	1					14	...
Uterus, sepsis			12	12	4					8	12	...
Vaginal, lacerated peri- neum			2	2	2						2	...
Volvulus		2		2						1	1	1
Varicose veins			1	1	1						1	...
Varicocele		14		14	14						14	...
Wounds, bullet		11	1	12	10					2	12	...
Wounds, contusions		69	13	82	79						79	3
Wounds, gunshot	2	11		13	9					3	12	1
Wounds, incised		4		4	2					2	4	...

SURGICAL.—Continued

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged						In Hospital Nov. 30, 1917	
		Males	Females	Total	Relieved	Not relieved	Not treated	Transferred	Eloped	Died		Total
Wounds, lacerated.	1	89	15	105	97	...	...	...	...	5	102	3
Wounds, punctured. ....	...	4	1	5	4	...	...	...	...	...	4	1
Wounds, stab.	2	7	...	9	9	...	...	...	...	...	9	...
Wounds, scalp. ....	...	4	...	4	3	...	...	...	...	1	4	...
Other diseases.	10	228	141	379	285	23	11	21	...	28	368	11
<i>In 1916, 1917, 1918, 1919, 1920.</i> Total surgical cases ...	30	1659	882	2671	2184	128	19	42	...	167	2540	131

MEDICAL

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917
		Males	Females	Total	Relieved	Not relieved	Not treated	Transferred	Eloped	Died	Total	
Alcoholism	8	273	35	316	287	6	1	2		14	310	6
Anaemia		1	3	4	4						4	
Anaemia, pernicious	1	5	3	9	8	2	1			2	8	1
Appendicitis		10	2	12	4	2		6			12	
Arthritis		65	20	85	69	5	1	1		1	77	8
Asthma	4	4	11	19	17						18	1
Bronchitis	6	39	15	60	54	1				4	59	1
Burns	5	36	21	62	45	3	1	2		6	57	5
Carcinoma, various parts		17	11	28		15				12	27	1
Cardio-renal	12	33	23	68	35	2	1	2		17	57	11
Convulsions			2	2	2						2	
Cerebral concussion		2		2	2						2	
Cerebral hemorrhage	3	32	20	55	9	3				37	49	6
Cerebral thrombosis		1		1						1	1	
Cholecystitis		3	9	12	8	2		1		1	12	
Chorea		3	3	6	5			1			6	
Constipation		9	2	11	11						11	
Cystitis		2	2	4	1	1		2			4	
Cholelithiasis		1	5	6	4	1		1			6	
Furunculosis			1	1	1						1	
Dermatitis		8	2	10	8			1		1	10	
Diphtheria			1	1				1			1	
Diabetes mellitus	4	5	6	15	6	2				6	14	1
Dysentery	1	3	1	5	3	1				1	5	
Eczema	5	9	3	17	13	2					15	2
Endocarditis	3	78	33	114	76	4	3			29	112	2
Empyema		6		6			1	4			5	1
Enteritis		3	4	7	7						7	
Epilepsy	1	30	8	39	35	3					38	1
Erysipelas		36	16	52	44			2		6	52	
Feeding cases		16	10	26	25						25	1
Gastritis		26	24	50	48	1					49	1
Gastro-enteritis		16	24	40	23	1				16	40	
Gastro-neurosis		2	2	4	3	1					4	
Gastroptosis		1		1	1						1	
Goitre			2	2	1			1			2	
Heat prostration		10	3	13	11					2	13	
Hysteria		2	17	19	18	1					19	
Influenza		26	15	41	41						41	
Mania á potu		5		5	1	1		3			5	
Malnutrition		3	3	6		2				3	5	1
Meningitis		9	2	11	6			1		3	10	1
Meningitis, tubercular		6	3	9		1	1			7	9	
Morphinism	1	5		6	5	1					6	
Myocarditis		6	8	14	7					7	14	
Measles		2	3	5	5						5	
Myelitis	1		1	2		1					1	1
Nephritis, acute		12	10	22	16	2				4	22	
Nephritis, chronic	1	26	11	38	17		1			16	34	4

MEDICAL—Continued

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917	
		Males	Females	Total	Relieved	Not Relieved	Not Treated	Transferred	Eloped	Died	Total		
Neurasthenia	1	8	16	25	15	8						23	2
Neuritis	2	4	6	12	10	1						11	1
Phlebitis			1	1	1							1	
Pleurisy, dry		11	8	19	19							19	
Pleurisy, with effusion	2	12	3	17	16					1		17	
Pneumonia, broncho	2	17	12	32	16	3	1			11		31	1
Pneumonia, lobar	3	132	39	174	109	1	3	2		56		171	3
Poisoning, potash		1		1	1							1	
Poisoning, arsenic			2	2	2							2	
Poisoning, bichloride		1	3	4	3							3	1
Poisoning, carbolic			2	2	2							2	
Poisoning, chloroform			1	1	1							1	
Poisoning, Creolin		1	2	3	3							3	
Poisoning, carbon-dioxide		7	5	12	11					1		12	
Poisoning, lead		1		1	1							1	
Poisoning, ptomaine		2	1	3	3							3	
Poisoning, strychnine			1	1						1		1	
Poisoning, wood alcohol		2	1	3	1					2		3	
Psychosis	5	5	5	15	5	4		3		1		13	2
Pyelitis	1		2	3	3							3	
Rheumatism		24	10	34	28			1				29	5
Septicaemia		2	1	3						3		3	
Senility	1		7	8		6				1		7	1
Sciatica		5	2	7	7							7	
Smallpox			1	1				1				1	
Syphilis	5	63	21	89	56	28		2		2		88	1
Sarcoma		2		2	2		1			1		2	
Tumor		1	1	2	2							2	
Tumor of brain			1	1	1							1	
Tabes dorsalis		6	1	7	3	1		2				6	1
Tapeworm			2	2	1	1						2	
Tetanus		1		1						1		1	
Tonsilitis			2	2	2							2	
Toxaemia of pregnancy			12	12	10	1				1		12	
Tuberculosis, miliary		1		1	1							1	
Tuberculosis, pulmonary		33	13	46	14	5	4	5		12		40	6
Tubercular, peritonitis			1	1						1		1	
Tubercular, spine		1		1		1						1	
Tubercular, other parts		2	1	3	1	1		1				3	
Typhoid fever	3	23	10	36	28					4		32	4
Uraemia		3	4	7	3		1	1		2		7	
Ulcer, duodenal		2	3	5	3	1	1					5	
Ulcer, gastric	8	36	12	56	38	8	2	5		2		55	1
Ulcer, varicose		7	9	16	13	2						15	1
Ulcer, leg		1	1	2	1	1						2	
Unclassified	11	144	97	252	144	30	23	30		12		239	13
Total medical cases	101	1435	719	2255	1527	176	46	92		315		2156	99

EYE, EAR, NOSE AND THROAT

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917
		Males	Females	Total	Relieved	Not relieved	Not treated	Transferred	Eloped	Died	Total	
Adenoids and tonsils, hypertrophied.....		179	151	330	320	...	1	...	...	...	329	1
Abscess, retro-pharyngeal.....		...	1	1	1	...	...	...	...	...	1	...
Abscess, alveolar.....		2	...	2	1	1	...	...	...	...	2	...
Blepharitis.....		1	...	1	1	...	...	...	...	...	1	...
Cataract.....	2	32	16	50	42	7	...	...	...	...	49	1
Conjunctivitis.....		12	4	16	15	...	...	...	...	...	15	1
Corneal ulcer.....		16	4	20	17	2	...	...	...	...	19	1
Dacro-cystitis.....		1	1	2	2	...	...	...	...	...	2	...
Deviated septum.....		5	1	6	6	...	...	...	...	...	6	...
Epistaxis.....		5	2	7	7	...	...	...	...	...	7	...
Enucleation of eye.....		4	...	4	4	...	...	...	...	...	4	...
Ethmoiditis.....		1	...	1	1	...	...	...	...	...	1	...
Foreign body in eye.....	1	23	...	24	24	...	...	...	...	...	24	...
Foreign body in larynx.....		...	1	1	1	...	...	...	...	...	1	...
Glaucoma.....		7	1	8	6	1	...	...	...	...	7	1
Hare lip.....		1	...	1	1	...	...	...	...	...	1	...
Iritis.....		18	1	19	19	...	...	...	...	...	19	...
Keratitis.....		3	3	6	5	1	...	...	...	...	6	...
Mastoiditis.....	1	21	13	35	31	...	...	...	...	3	34	1
Ophthalmia.....		1	1	2	2	...	...	...	...	...	2	...
Ophthalmia, gonorrhoeal.....		3	2	5	5	...	...	...	...	...	5	...
Otitis media.....	1	15	20	36	35	1	...	...	...	...	36	...
Pterygium.....		1	...	1	...	...	...	...	...	...	...	1
Peritonsillar abscess.....		7	1	8	8	...	...	...	...	...	8	...
Pharyngitis.....		...	2	2	1	1	...	...	...	...	2	...
Strabismus.....		4	3	7	6	1	...	...	...	...	7	...
Syphilis.....		...	2	2	...	1	...	...	1	...	2	...
Tonsilitis.....	2	14	20	36	36	...	...	...	...	...	36	...
Tumor of eye.....		2	...	2	2	...	...	...	...	...	2	...
Unclassified.....	4	54	18	76	58	7	2	1	...	5	73	3
Wounds of eye.....		9	...	9	9	...	...	...	...	...	9	...
Total eye, ear, nose and throat.....	11	441	268	720	673	22	4	2	...	9	710	10

MATERNITY

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917
		Males	Females	Total	Relieved	Not relieved	Not treated	Transferred	Eloped	Died	Total	
Confinements, normal . . .	12	379	391	373	2						375	16
Confined outside		16	16	15							15	1
Eclampsia, ante-partum . . .		7	7	2						4	6	1
Eclampsia, post-partum . . .		6	6	4						2	6	
Hemorrhage, ante-partum . . .		1	1							1	1	
Mitral regurgitation		1	1							1	1	
Not confined		34	34	33			1				34	
Operative, breech		9	9	9							9	
Operative, Caesarian section . . .		17	17	16			1				17	
Operative, craniotomy		1	1	1							1	
Operative, footling		2	2	2							2	
Operative, high forceps		15	15	14							14	1
Operative, low forceps	1	30	31	26			1				27	4
Operative, mid-forceps		21	21	21							21	
Operative, prolapsed cord		5	5	5							5	
Operative, version		4	4	4							4	
Phlebitis		1	1	1							1	
Placenta praevia	1	3	4	3						1	4	
Placenta adherent		1	1	1							1	
Pneumonia, lobar		2	2				1			1	2	
Pyelitis		1	1				1				1	
Ruptured uterus		1	1							1	1	
Toxaemia of pregnancy		2	2	1						1	2	
Twins		12	12	12							12	
Total women	14	571	585	510	33	7	1	12	562	23		

MATERNITY

DISEASES	In Hospital Dec. 1, 1916	Admitted			Discharged							In Hospital Nov. 30, 1917
		Males	Females	Total	Well	Not relieved	Not treated	Transferred	Eloped	Died	Total	
Abscess of neck	1			1				1			1	
Broncho pneumonia		3	1	4						4	4	
Cerebral hemorrhage			2	2						2	2	
Congenital heart disease		3	2	5						5	5	
Congenital atelectasis			1	1						1	1	
Enteritis		1	1	2						2	2	
Esophageal stenosis (con- genital)		1		1						1	1	
Infancy	12	231	237	468	458			5			463	17
Premature		17	16	33	12					20	32	1
Stillborn		20	16	36						36	36	
Total infants	13	276	276	552	470			6		71	547	18

TOTAL NUMBER OF DEATHS

FROM DEC. 1, 1916, TO NOV. 30, 1917, INCLUSIVE

Abortion, incomplete with uterine hemorrhage	2	Endocarditis, acute	3
Abscess of brain, with meningitis	1	Endocarditis, chronic	25
Alcoholism	8	Erysipelas, facial	3
Anemia, pernicious	1	Erysipelas, body with right leg	2
Aortic regurgitation	3	Esophageal stenosis	1
Aortic stenosis	1	Epidemic cerebro-spinal meningitis	1
Appendicitis, acute, with peritonitis	5	Fractured skull	19
Arterio-sclerosis	10	Fractured tibia and fibula (right)	1
Bronchitis	2	(Embolus in heart and vessels)	
Bronchitis chronic	1	Gangrene of intestine	1
Bullet wound of abdomen, with general peritonitis	1	Gangrene of hands and feet	1
Bullet wound of brain	1	Gangrene of foot, with septicemia	1
Burns of body	6	Gastric ulcer, perforated	3
Carcinoma of breast	2	Gastro-enteritis	9
Carcinoma of intestines	3	General paresis	3
Carcinoma of oesophagus	1	Gunshot wound of abdomen	1
Carcinoma of prostate	1	Hemorrhage following abortion	1
Carcinoma of rectum	1	Hernia, strangulated, inguinal	2
Carcinoma of stomach	11	Hernia, strangulated, ventral	1
Carcinoma of uterus	3	Heat prostration	2
Carcinoma of soft palate	1	Hemopneumothorax	1
Cardio-renal disease	31	Hysterectomy	2
Cerebral hemorrhage	44	Illuminating gas poisoning	1
Cholelithiasis	1	Inanition due to gastritis	1
Cholecystitis	1	Inanition due to congenital malformation	1
Congenital atalectasis	1	Intestinal obstruction	5
Congenital heart disease	2	Intestinal obstruction intussusception	2
Chronic cystitis with chronic pyelonephritis	2	Intestinal perforation	1
Cyst of ovary multilocular	1	Inanition	1
Diabetes mellitus	6	Lymphatic leukemia acute	1
Diarrhoea and enteritis	15	Lymphosarcoma of neck	1
Diphtheria	1	Meningitis, cerebrospinal, epidemic	1
Dysentery acute	1	Meningitis, tubercular	6
Eclampsia, post partum	1	Meningitis, streptococcic	2
Eclampsia, ante partum	3	Myocarditis, acute	2
Ectopic gestation with internal hemorrhage	1	Myocarditis, chronic	11
Empyema	2		

Mitral regurgitation.....	6	pharyngeal abscess.....	1
Mastoiditis.....	1	Septicemia following operation for prostatectomy.....	1
Myelogenous leukaemia.....	1	Septicemia following mastoi- ditis.....	1
Nephritis, acute.....	4	Septicemia following septic leg	3
Nephritis, chronic.....	27	Shock with intestinal paraly- sis.....	1
Oedema of brain.....	2	Shock following trauma.....	1
Peritonitis, tubercular.....	5	Shock following hysterectomy for fibroids.....	2
Peritonitis.....	4	Shock following strangulated hernia.....	2
Puerperal septicemia.....	6	Shock following traumatic am- putation right arm.....	1
Pernicious anemia.....	1	Shock following prostatomy.	1
Pneumonia, broncho.....	15	Shock following intestinal ob- struction.....	1
Pneumonia, lobar.....	68	Streptococcus septicaemia fol- lowing compound fracture index finger.....	1
Pneumonia, hypostatic.....	4	Stab wounds, multiple.....	1
Prematurity.....	20	Syphilis.....	1
Pleurisy with effusion.....	1	Suicide by hanging.....	1
Prostatectomy.....	2	Streptococcus septicaemia....	1
Placenta praevia with hemorrhage	2	Tetanus.....	3
Post partum hemorrhage.....	1	Tuberculosis, miliary.....	1
Pulmonary oedema.....	2	Tuberculosis, pulmonary.....	10
Poisoning, wood alcohol.....	1	Typhoid fever.....	3
Poisoning, creolin and strych- nine.....	1	Traumatic meningeal hemor- rhage.....	1
Rupture of uterus during labor	1	Toxemia of pregnancy.....	1
Splenic anaemia.....	1	Unknown following explora- tory laporatomy.....	1
Sarcoma of left thigh.....	2		
Sarcoma of omentum.....	1		
Septic uterus following child- birth.....	1		
Septic gall bladder.....	1		
Septic uterus following mis- carriage.....	1		
Septicemia following septic left arm.....	3		
Septicemia following retro-			

OPERATIONS

FROM DEC. 1, 1916, TO NOV. 30, 1917, INCLUSIVE

HEAD AND FACE

Tubercular Sinus of neck....	1	Tumor, excision.....	2
Fracture of skull.....	3	Fractured jaw.....	1
Wen.....	4	Osteomyelitis of jaw, curettage	1
Abscess, incision.....	29	Carcinoma of jaw.....	1
Lacerated wounds, repair....	5	Ligation sup. thyroid.....	1
Scalp, repair of lacerations...	2	Ligation temporal artery....	1
Trephine, fractured skull....	5	Abscess of jaw, incision and drainage.....	1
Sepsis, incision.....	5		

NOSE, THROAT AND MOUTH

Epithelioma of lip.....	1	Cleft palate, repair.....	2
Fractured nose, reset.....	1	Submaxillary abscess, incision and drainage.....	2
Tonsils and adenoids, removal	295	Dental sac of antrium, incision and drainage.....	2
Lacerated wound of nose, re- pair.....	1	Extraction of tooth.....	2
Alveolar abscess, incision and drainage.....	1	Growth on lip.....	1
Sinusitis, drainage.....	1	Goitre.....	1

EYE AND EAR

Laceration eye lid.....	1	Needling for impaired vision.	6
Cataract, excision.....	36	Tenotomy for strabismus....	4
Enucleation of eyeball.....	9	Glaucoma, radical cure.....	1
Foreign body in eye, removal	4	Curetting mastoid.....	3
Iridectomy.....	15	Pterygian.....	1
Mastoidotomy.....	36		

BREAST

Abscess, incision and drainage	12	Excision of carcinoma.....	1
Excision of benign tumor....	7	Amputation of breast.....	10

CHEST

Empyema, thoracotomy.....	14	Bullet in chest.....	3
Laceration, repair.....	1		

UPPER EXTREMITY

Tuberculosis, ribs, curettage..	1	Lacerated wound of hand, re- pair.....	4
Ganglion.....	1	Fracture, reduced.....	4
Osteomyelitis of finger.....	2	Necrosis of phalanges, curet- tage.....	3
Amputation, fingers.....	7	Lipoma of shoulder, excised..	4
Amputation, arm.....	4	Sarcoma of axilla.....	2
Amputation, hand.....	2	Nerve suture.....	1
Axillary abscess, incision and drainage.....	8	Necrosis of metacarpal, curet- tage.....	2
Lumbar abscess.....	1	Ankylosis of shoulder, manip- ulation and cast.....	1
Foreign body in hand, removal	3	Dislocated shoulder.....	2
Fractured carpal bone, reduced	2	Dislocated elbow.....	1
Fractured both bones of fore- arm, reduced.....	12	Open reduction of humerus..	1
Fractured humerus, reduction..	3	Osteomyelitis of forearm, cu- rettage.....	3
Fractured elbow, reduction..	2	Osteomyelitis radius.....	1
Lacerated fingers, repair.....	8	Osteomyelitis of thumb.....	4
Lacerated wounds of arm, re- pair.....	3	Tumor of left axilla.....	1
Sepsis, incision and drainage.	64		
Skin graft.....	1		

ABDOMEN

Appendectomy, acute	160	rupture of stomach	1
Appendectomy, incidental	3	Exploratory laparotomy for in-	
Appendectomy, chronic	69	testinal rupture	2
Appendectomy, subacute	10	Incision and drainage of abscess	1
Cholecystostomy	21	Incision and drainage of appen-	
Cholelithotomy	5	diceal abscess	4
Cyst, ovarian, removed	1	Incision and drainage of in-	
Enterostomy	2	guinal abscess	3
Gastric ulcer, perforation, re-		Colostomy, exploratory, inci-	
pair	9	sion	1
Duodenal ulcer, perforation,		Postoperative hemorrhage	1
repair	3	Hernia, umbilical	3
Gastro-enterostomy	16	Hernia, femoral	7
Exploratory laparotomy	14	Hernia, inguinal	167
Exploratory laparotomy for in-		Hernia, strangulated	5
testinal obstruction	5	Hernia, ventral	9
Exploratory laparotomy for car-		Hernia, in scar, repair	2
cinoma of stomach	1	Resection of intestine	4
Exploratory laparotomy for		Sinus in appendix scar, repair	1
general carcinoma	1	T. B. peritonitis, radical cure .	4
Exploratory laparotomy for		Peritonitis, incision and drain-	
adhesions	7	age	2
Exploratory laparotomy for		Perinephritic abscess	2

LOWER EXTREMITY

Tenosynovitis, dissection and		Dislocation of hip, compound .	1
removal	1	Crushed foot	1
Necrosis metatarsal, excision	1	Osteomyelitis of femur, ream-	
Bone plate in thigh removed .	1	putation	1
Abscess, incision and drainage	14	Osteomyelitis of femur, curet-	
Abscess, gluteal	6	tage	9
Abscess, leg	5	Osteomyelitis of foot, curettage	2
Hematoma of thigh, incised . .	1	Osteomyelitis of tibia, curet-	
Laceration of thigh	1	tage	3
Bullet in foot	1	Osteotomy, pescaevus	4
Amputation of foot	7	Onychocryptosis	1
Amputation of leg	4	Periostitis of tibia, incision and	
Amputation of toes	4	drainage	1
Dislocation of metacarpal,		Repair of lacerated wounds . .	1
open reduction	1	Sepsis, incision and drainage . .	24
Knee, cartilage, removal	1	Fractured tibia and fibula	5
Synovitis of knee, aspiration .	2	Fractured compound, reduc-	
Foreign body in knee	1	tion	1
Fractured patella	3	Fractured compound, open re-	
Laceration of foot	4	duction	3

Fracture of femur	4	Fracture patella, open reduction	1
Traumatic amputation of leg	2	Varicose veins, excision	2
Traumatic amputation of foot	1	Gunshot wound, repair	2
Foreign body in foot	1	Pylonidal abscess	1
Aspiration of hip	1	Bullet in knee, removal	1
Fracture of great trochanter, wiring and plaster	1	Genu-varum osteotomy	1
Spur of calcaneum, removal	1	Spur on os calcis	1
Septic thigh, incision and drainage	1	T. B. tarsus, exploratory	1

MISCELLANEOUS

Abscess of back, incision and drainage	1	Skin graft	2
Salvarsan-intravenous injection	82	Transfusion	2
Skin graft	6	Removal of bullets	1
Carbuncle on neck	3	Bone plate	1
Ether examination	3	Sinus of hip, exploration	1
Abscess, incision and drainage	1	Bullet in lumbar region	1
Onychocryptosis, radical cure	3	Psoas abscess, incision and drainage	1
Removal of bone plate	3		

NECK

Abscess, incision and drainage	16	Cervical adenitis, incision and drainage	3
Excision, epithelioma	2	Ligation of sup. thyroid artery	3
Excision, carbuncle	5	Cyst of neck, removal	1
Ligation of jugular vein	1		
Thyroidectomy	1		

G. U.

Cystoscopic examination	60	Varicose veins, excision	1
Abscess prostate, incision and drainage	1	Varicocele, excision	20
Circumcision	31	Nephrolithotomy	2
Epididymectomy	5	Exploratory incision in testicle	1
Hydrocele, excision	25	Undescended testicle, radical cure	1
Nephrotomy	5	Suprapubic cystotomy	2
Orchidectomy	4	Sepsis, incision and drainage	1
Perinephritic abscess, incision and drainage	3	Foreign body in bladder	1
Calculi, ureteral	1	Peri urethral abscess, incision and drainage	1
Urethrotomy, internal	3	Urethral repair	1
Urethrotomy, external	2	Prostatectomy	5

GYNECOLOGICAL

Resection of cervix.....	1	Ventral fixation.....	15
Abscess, incision and drainage	5	Ventral suspension.....	7
Amputation of cervix.....	1	Extra-uterine pregnancy.....	2
Caesarian section.....	21	Myomeotomy.....	1
Carcinoma of cervix, section for diagnosis, curettage....	1	Cystocele and rectocele, repair	2
Colporrhaphy, anterior.....	2	Vaginal examination.....	3
Dilatation and curettage.....	152	Imperforate hymen-division..	1
Hysterectomy.....	24	Vulvo vaginal abscess, in- cision and drainage.....	2
Oophorectomy.....	14	Vaginal varix, removal.....	1
Perineorrhaphy.....	21	Cyst of labia minora.....	1
Salpingectomy.....	27	Bartholinitis, excision.....	1
Trachelorrhaphy.....	13		

RECTUM AND ANUS

Bimanual examination....	1	Hemorrhoids, excision.....	1
Abscess, ischiorectal, incision and drainage.....	25	Prolapse of rectum, cau- terization.....	3
Fistula in ano, excision....	11	Lynch operation.....	1
Hemorrhoids, clamp and cautery.....	49	Perineal abscess, incision and drainage.....	3

CHARLES B. STEVENS, M.D.,
 JOHN E. RICE, M.D.,
 CHARLES T. ESTABROOK, M.D.,
 GEORGE H. HILL, M.D.,
 GORDON BERRY, M.D.,
Committee on Reports.

DONATIONS

FLOWERS

G. H. Piper, Mr. C. Gilman, Dr. Savage, Mrs. Freeman Brown, Royal Worcester Corset Co., Mrs. J. Allen, Mrs. Martin Greene, Mrs. Fred Wellington, Mrs. H. M. Moody, Mr. Harry Randall, J. A. Clough, Carl Bonney, C. E. Anderson, Andrew Hanson, Mrs. Carroll R. Trusdell, Jessie P. Taber, Walter E. Carey, Mrs. A. H. Burton, Woods Woman Shop, Mrs. John McGrath, James Gaunt, W. E. Norcross, J. E. Tilson, Grand Theatre, William H. Cowan, John Erickson, Mr. Caleb Inett, Mrs. Edwin Moody, Mrs. M. J. Whittall, St. Mark's Church, Henry Hendrick, M. Gross, First Baptist Church, Grafton.

MAGAZINES

Miss McGrath, Salvation Army, P. R. Batchelder, N. O. Hayes, Mrs. Gould, Mrs. S. E. Winslow, Mrs. Daniel Kent, Mrs. J. M. W. Farnham, Mrs. Francis Doran, George Booth, Mrs. Hazen, Dr. R. W. Swan, Franklin Dickie, Worcester Musicians Association, Mrs. Walter Adams, Miss Margaret Daley, Dr. Philip H. Cook, Lillian Bernie, Royal Worcester Corset Co., Mr. A. K. Leonard, Albert Hayward, Louise Foster, Mrs. J. Vernon Butler, William Derrick, Mrs. Pauline Gould, Miss Larner, Mrs. George Fuller, Dr. O. D. Phelps, Rev. W. M. Gardner, Mrs. Powers, Mrs. McGrath, G. A. R. Post 10, W. E. Norcross, Mrs. J. F. Donohue, Mrs. H. P. Sawtell, All Saints Church, Walter Brooks, Albin Bloom, Mrs. William Denholm, Miss E. Phillips, Miss Johnson, Hazel Head, Mrs. F. H. Doran, Miss Drury, Miss Alice Greenwood, Mrs. W. H. Sawyer, Jr.

MISCELLANEOUS

Books for children, Miss Trulson; books and cards for children, Miss Edith Berg; Christmas cards, Miss Ella A. Putnam; scrapbooks and post cards, Mrs. Mary Brigham, of Westboro; one box of oranges, L. E. Patterson and family, of Webster; one case of holly, W. N. Gleason Co.; Christmas cards and gifts for the children, Abbott Street School Grades 2 and 3; books, toys and magazines for children, Eleanor Phillips; toys for children, Worcester Evening Post; paper dolls, Ethel Aiken, of Berlin, Mass.; gifts for children, Plymouth Sunday School Boys Class; Christmas gifts for children, Central Church Sunday School; Christmas gifts for children, First Church of Christ,

Sunshine Club; Christmas cards for children, Donald Congdon; picture books for children, Barbara Hunt; Christmas basket and comforts for old people, Mrs. Arthur W. Marsh; toys and books, Dr. P. H. Cook and Mrs. George O. Ward; pin for little girl and picture cards, Miss Alice Tatterson; toys and books, Miss Corey; valentines for children's ward, Mrs. Trulson; books, beads, candy and magazines, Miss Eleanor Collie; baby clothes, First Unitarian Church; scrapbook, Elizabeth Towne, Washington, D. C.; Easter articles for children, Bancroft School; May baskets for children, Mrs. E. W. Jacobs; victrola for children's ward, Marcellus Roper Co.; wheel chair, Mrs. D. P. Ravel; books, Mrs. E. Reed; toys for children, Charles A. Tyler; cards for children, Williams Book Store; books on operations, Dr. Robert Souther, Boston; books, American Field Service of Boston; books, Daniel Kent; dolls, Mrs. William Woodward.

NEWSPAPERS

The Worcester Telegram, Our Dumb Animals, an Armenian Publication, Messenger, The Scandinavia, The Holy Cross Purple.

ADMISSION OF PATIENTS, ETC.

Application for the admission of patients should be made to the Superintendent at the Hospital on each day of the week (Sundays excepted) between 9 a. m. and 4 p. m.

Whenever able the patient should apply in person. When not able to appear in person, application may be made by a friend.

Persons carried to the hospital from the place of accident are admitted immediately and at all hours.

No person having any contagious disease can be admitted and no person can be admitted whose case is judged to be incurable, unless temporarily, for urgent symptoms which are deemed capable of being relieved.

The ordinary charge per week for accommodations in the wards is \$12, which includes medical and surgical attendance, together with medicine, nursing and washing. Persons who are unable to pay, and whose place of legal settlement is Worcester, are admitted as free patients; all other free patients are charged to the state, or to the towns where they belong. Patients in private rooms are charged \$17.50 or more per week, according to the requirements of the case.

No person shall visit any part of the premises, except on business, or at such times as may be fixed for the reception of visitors, without the permission of the Superintendent, or some of the Trustees.

Visitors to the patients will be admitted Sundays, Tuesdays, Thursdays and Saturdays between 3 and 4 o'clock p. m.; Mondays, Wednesdays and Fridays between 6.45 and 7.30 o'clock p. m.

No ward patient shall receive more than two visitors on the same day. In all cases, however, the Trustees or Superintendent may exercise discretionary power as to excluding or admitting visitors.

All patients in the Knowles Maternity may receive one visitor each day after confinement day. Visits are to be limited to one-half hour during the first five days after confinement, and to one hour thereafter. No male visitors other than husband, father or brother will be admitted without a special permit from the Superintendent.

In admitting patients to the out-patient department on Chandler Street each applicant is questioned carefully as to his or her ability to pay. Only those are admitted who cannot afford to pay a physician for his services. In questioning applicants as to their ability and desire to pay for services, no fixed rules are followed, but the desire for independence and self-reliance are stimulated, so that many who come for free treatment volunteer to go to physicians outside the hospital rather than accept charity.

In case of sudden sickness or recent accident relief is given immediately without preliminary investigation. The applicant is always given the benefit of any doubt.

No visitor shall be allowed to give any article of food or drink to a patient unless by permission of the nurse, and any article sent to the patient shall be left with the Superintendent of Nurses.

WORCESTER TRAINING SCHOOL, CITY HOSPITAL

The Worcester Training School for nurses was opened in 1883 for a two years' course of study and training in the art of nursing. The course has now been extended to three years. The school is a department of the City Hospital, which contains 360 beds for patients, and has a large, active and varied service, treating annually in all its departments from 14,000 to 15,000 patients, and affording exceptional advantages for obstetrical training. In addition to this service, and as part of the course, the Isolation Hospital offers to all our nurses the opportunity of practical experience in the care of contagious diseases.

Those wishing to receive this course of instruction must apply by letter or personally to the Superintendent. Letters of application should contain a brief personal history with the names and addresses of two responsible persons, not relatives, to whom the applicant has been known for a number of years, and a statement from a physician certifying to sound health and unimpaired faculties. Pupils are required to have been successfully vaccinated within two years. Applicants are reminded that a thorough English education is essential, and that women of superior education and cultivation will be preferred. The acceptable age for candidates is between twenty-one and thirty years. They must be of average height and weight and of strong physique.

Applications to enter this school (which must be made in writing on blanks which are furnished on request) are placed on file as received. Approved candidates will receive due notice and printed instructions as to necessary preparation for coming. Classes are formed every four months. A certain number of names are kept on an "emergency list," and these candidates may be sent for on short notice. The period of probation is six months, during which time pupils are examined as to their education, physical strength, endurance, adaptability to the work, powers of observation, judgment, etc. On the satisfactory completion of two months' probation they assume the uniform of

the school. At the end of six months they are examined upon the work gone over, and if this examination and their records are both satisfactory, they are allowed to continue, and they sign an agreement to conform to all the requirements imposed upon the pupils, if not, they are dropped. The same is true as to the examinations at the end of the first and second years.

The instruction comprises, during the first three or four months, a preliminary training in the elementary principles of nursing. Daily demonstrations and practice lessons are given in the classroom and nurses' laboratory.

Bedside clinical instruction and special lectures are included in the preparatory course.

The hours off duty are especially arranged for the preparatory course. During the remainder of the course two or three hours weekly are allotted for class work, as the schedule may require.

The pupils do the work of nursing in the hospital, and in return they receive their board, and laundry, and the instruction of the school; and after the first month of probation an allowance of \$6.00 per month to provide uniforms and textbooks.

Should a pupil be ill, she is cared for without charge, but is required to make up time lost. In addition to the daily time, a part of Sunday and one afternoon weekly are allowed for rest and recreation. A vacation of two weeks is allowed the first year, and three weeks the second and third years.

Constant effort is directed towards the improvement of the curriculum by the introduction of new educational features, but radical departures from the plan in vogue in the past have for the most part been avoided. Among the more recent modifications of the system of teaching are the concentration of the purely theoretical work into the first year of the course, with a great deal of personal instruction during this important period, a very considerable increase in laboratory work, and bedside instruction when suitable illustrative cases are obtainable. A well-qualified graduate nurse instructs the probationers and supervises their ward work during the first four months, spending five or six hours daily with them, and a considerable part of the remainder of her day is occupied preparing systematically for the next day's work in order that the pupil may get the most instruction with the least expenditure of time and energy. A well-equipped laboratory is now at the disposal of the school, and is largely for demonstration work.

Special attention is given to training nurses in surgical detail and technique by means of mock operations and

other demonstrations. Not until after they have been thoroughly instructed in this work are they allowed to assist in the operating rooms.

The course of training in the nursing of contagious diseases varies from ten to twelve weeks.

In 1906 arrangements were made whereby a short course in kindergarten methods was offered as part of the school curriculum, and Mrs. Mary H. Barker, director of the kindergartens of the public schools, kindly consented to give a short course of lectures. These very instructive lectures are supplemented by the observation of practical work in the kindergartens of the city. We believe that the nurse who has taken this course is better qualified to care for and to entertain children than she would otherwise have been.

Nurses are subject in all particulars to the rules of the hospital and the discipline of the school. They are under the authority of the superintendent of the hospital and the superintendent of nurses, who have full power to decide as to the propriety of retaining or rejecting a candidate on probation. Pupils will not be allowed during their course of instruction to nurse sick relatives at home, or to absent themselves for any other personal reasons. Absences are not allowed except for extreme cause.

Candidates, when called, are expected to report promptly and to bring with them the means of returning to their homes should they not successfully pass their probationary term. Any change of plan or of address on the part of the candidate whose name is on the waiting list should be immediately reported to the superintendent of the Training School.

When the full term of three years is ended and the final examinations have been successfully passed, the nurses thus trained will receive the diploma of the school, and are allowed to wear the badge of the school.

CURRICULUM

FIRST YEAR LECTURES, 1917-1918.

DR. JOHN C. BERRY.

September 27—Ethics in Nursing. Relation of nurse to hospital, to training school, to patients in private practice and in hospital.

DR. R. J. WARD.

November 23.—I. Carbohydrates, fats and proteids.

November 30.—II. Digestion.

December 7.—III. Treatment and management of diseases of the digestive system.

DR. E. L. HUNT.

In a course of six lectures supplemented by demonstration of cultures, microscopical preparations, lantern-slides and by practical exercises in simple culture and staining methods, the subject of bacteriology is presented as follows:

December 14.—I. The cellular basis of organic life. The phenomena of inflammation. The bacteria. Methods of study.

Dec. 21.—II. Classification of biological characteristics. Infection. Immunity. Methods of preventing infection and inhibiting the development of bacteria (asepsis, antiseptics, disinfection).

December 28.—III. The surgical bacteria.

January 4.—IV. Tuberculosis. Pneumonia.

January 11.—V. Diphtheria and other contagious diseases.

January 18.—VI. Typhoid, cholera, and the Colon group, dysentery.

DR. J. M. W. FARNHAM.

January 25.—Anaesthetics, preparation for administration, after care.

March 4.—Hemorrhage. Constitutional symptoms and treatment. Amputations. Surgical emergencies. Practical demonstration of arrest of hemorrhage.

DR. G. E. DEERING.

March 11.—Care and treatment of orthopedic cases.

March 18.—Practical demonstration of appliances used in orthopedic surgery, and their mode of application.

DR. R. J. WARD.

- June 7.—I. Carbohydrates, fats, proteids.
 June 14.—II. Digestion.
 June 21.—III. Treatment and management of diseases of the digestive system.

SECOND YEAR LECTURES.

DR. WILLIAM E. DENNING.

- September 14.—Anatomy of female pelvis.
 September 21.—Physiology and hygiene of the pregnant woman.
 September 28.—Pathology of pregnancy.
 October 5.—Physiology and management of labor and of the puerperium.
 October 12.—Obstetric operations.

DR. JOHN E. TALBOT.

- October 19.—The care of infants. The newly born infant. General phenomena.
 October 26.—The treatment of asphyxia and care of the new born. Treatment of premature and delicate infants. The incubator.
 November 2.—Hygiene and management of the newly born. Tendency to disease.
 November 9.—Infant feeding in health and disease. Methods. Milk modified feedings. Artificial foods.
 November 16.—Feeding in intestinal disorders. Diseases due to faulty nutrition and treatment. Weaning.

DR. L. F. WOODWARD.

- February 1.—History of nursing.
 February 8.—The principles of aseptic and antiseptic surgery. Wound healing.
 February 15.—Instruments and appliances. Care and methods of use.
 February 22.—Care of patients before, during and after operations. Nursing in special operations.
 March 1.—General quiz.

DR. A. W. MARSH.

- March 8.—Surgical anatomy of extremities. Fractures, symptoms and care.
 March 15.—Clinical demonstration of fractures.

DR. A. M. SHATTUCK.

- March 22. } —Diseases of children.
 March 29. }
 April 5.—Hydrotherapy.
 April 12.—Typhoid fever. Cause, symptoms, care of typhoid cases. Complications.
 April 19.—Malaria. Cause, symptoms, treatment. Rheumatism.

DR. GEO. A. DIX.

April 26. }
 May 3. } —Syphilis.
 May 10. }

DR. P. H. COOK.

May 17.—X-ray diagnosis and light therapy.

DR. ROY J. WARD.

May 24.—Poisons.

May 31.—Effects and treatment.

MRS. MARY H. BARKER.

In a course of six lectures on children's literature and kindergarten hand employments, also other devices for amusing and employing crippled and convalescent children.

March 25.—A review of the field of children's literature.

April 1.—The use and place of the Story in a child's life. Illustrated by typical stories.

April 8.—Myths, legends, fables and realistic story.

April 15.—Simple kindergarten occupations for very little children.

April 22.—Hand crafts for older children.

THIRD YEAR LECTURES

DR. G. A. TRIPP.

September 10.—The skin. Care in health and disease.

September 17.—Common skin diseases. Treatment. Burns. Treatment.

DR. BENJAMIN T. BURLEY.

September 24.—The special management of neurological cases.

DR. C. D. WHEELER.

October 1.—Erysipelas, septicaemia, pyaemia. Care and treatment of patients suffering from these diseases.

DR. CHARLES T. ESTABROOK.

October 8.—Eye nursing.

October 15.—The ear. Diseases. Operation. Care and treatment.

DR. DAVID HARROWER.

October 22.—The eye. Diseases. Operations. Care and treatment.

DR. HOMER GAGE.

October 29.—Surgical anatomy of abdomen. Diseases and injuries affecting this region.

November 5.—Operations on abdomen. Duties of nurse.

DR. A. C. GETCHELL.

November 12.—Anatomy of throat and nose. Diseases affecting these organs.
Treatment.

November 19.—Tuberculosis. Cause, treatment, care.

DR. E. H. TROWBRIDGE.

November 26.—Gynecology. Special preparation of patient for examination.
Treatment and care of gynecological cases.

DR. R. W. GREENE.

December 3.—Pneumonia. Cause, treatment, care, complications.

December 10.—Lungs and heart. Diseases affecting these organs.

DR. R. P. WATKINS.

December 17.—Surgical. Quiz.

DR. C. B. STEVENS.

January 7. } —Contagious diseases.
January 14. }

DR. W. D. BIBBERBACH.

January 21. } —Urinary diseases.
January 28. }

DR. O. D. PHELPS.

February 4. } —Diseases of the blood and circulatory system
February 11. }

DR. F. H. BAKER.

Autopsies. Pathology. Bacteriology.

DR. BENJAMIN F. ANDREWS.

First Aid to the Injured.

DR. E. P. DIBBROW.

DR. JOSEPH C. LOVETT

Lectures, demonstrations and recitations throughout the year.

In addition to the above lectures by the staff, and practical instruction, recitations and demonstrations by the Superintendent of Nurses and other Graduate Nurses, there is provided a four months' preliminary course of instruction for probationers.

COURSE OF PROBATIONERS

In this course the pupil is given a great amount of personal attention and is not permitted to do the simplest work pertaining to the wards, or patients, until she has been properly instructed in the best methods, and then only under the supervision of the instructor. Daily reviews and quizzes keep the work already covered fresh in mind.

FIRST WEEK

CLASS WORK

Hospital etiquette, general ward work, care of nurses' rooms, appearance and behavior of nurses on and off duty, conduct in dining room, bed making, care of nurses' own health, careful use of disinfectants. Economy in the use of supplies. Each nurse has an examination in reading, dictation and arithmetic. They also have a physical examination by the assistant resident physician.

WARD WORK AND DEMONSTRATION

First week's work consists of care of refrigerators and bread boxes, making empty beds, washing bedsteads, combing hair, carbolizing rubbers, bedsteads, mattresses, folding blankets, sweeping and dusting wards, setting trays, serving meals, clearing trays after meals, care of flowers, fixing patients for the night, care of patients' backs, care of lavatories, giving entrance and cleansing baths, care of nails, proper use of solutions, feeding helpless patients, use and care of heaters and ice caps, giving liquids, care of mouths, care of linen rooms and ward silver, and use of disinfectants.

SECOND WEEK

CLASS WORK

Pneumonia jackets, swathes, bandages and surgical dressings are made. Instructed in strength and use of solutions, are taught abbreviations, tables of weights and measures, are told how to prepare patients for physical examination, take care of syringes, typhoid clothes and utensils, how to boil instruments.

WARD WORK AND DEMONSTRATIONS

Pupils are shown how to apply swathes, make up unoccupied beds, and other beds, give low enemata, allowed to wait on typhoid patients and take care of their bedding and utensils, are taught the use and care of air rings, sputa cups, etc.

THIRD WEEK

CLASS WORK

One hour is given to a talk on drugs in common use, the nurses taking notes.
One hour is given to weights and measures.
One hour is given to temperature, pulse and respiration.
One hour is given to enemata.
One hour is given to anatomy quiz.

WARD WORK AND DEMONSTRATIONS

They are taught how to boil instruments, give douches, prepare patients for physical examination of the heart, lungs, abdomen, back, arm, etc. Taught to make cream of tartar water, albumin water, rice water, etc.; shown the various supply closets.

FOURTH WEEK

CLASS WORK

One hour is given to drugs, particularly disinfectants.
 One hour is given to measuring liquids.
 One hour is given to poultices, hot fomentations, mustard paste.
 One hour is given to explanation of charts.

WARD WORK AND DEMONSTRATIONS

Moving convalescent patients in bed, use of extra pillows, placing cradles in bed, taught to measure liquid remedies, covering splints, fomentations, mustard paste, taught to make egg-nog, orangeade, lemonade, applying roller bandages, many-tailed bandages, slings, etc.

FIFTH WEEK

CLASS WORK

One hour is given to drugs.
 One hour is given to solutions.
 One hour is given to temperature, pulse and respiration. Taking each other's pulse.
 One hour is given to charting.
 Two hours are given to anatomy quiz.

WARD WORK AND DEMONSTRATIONS

After having learned to read thermometers in class, and having taken each other's pulse, they begin to take temperature, pulse and respiration in ward, and fill in charts. Taught to make milk shake, cocoa shake, etc.

SIXTH WEEK

CLASS WORK

Two hours given to drugs.
 One hour is given to enemata and care of syringes.
 One hour given to making poultices, etc.
 Two hours to anatomy quiz.

WARD WORK AND DEMONSTRATIONS

Different kinds of enemata, hot packs, moving sick patients in bed, putting on and taking off patient's nightdress. Taught to prepare any drinks that may be ordered.

SEVENTH WEEK

CLASS WORK

Two hours on drugs.
 One hour on enemata and douches.
 One hour making poultices.
 Two hours anatomy quiz.

WARD WORK AND DEMONSTRATIONS

Moving patients from one bed to another, from chair to bed, from bed to wheel-chair and back to bed, use of and placing of head-rest. Preparing patients for operation, giving temperature baths, hot-air baths, cold packs, etc.

EIGHTH WEEK

CLASS WORK

Two hours spent on drugs.
 One hour on necessity of sterilization.
 One hour on disinfectants.
 Two hours anatomy quiz.
 Supply and sterilizing rooms in operating pavilion.
 Making dressings; learning the principles of sterilization.

NINTH WEEK

CLASS WORK

Two hours on drugs, particular care being given to hypodermic injections.
 One hour given to hypodermic injections and care of syringes before and after use.
 One hour given to making fomentations and mustard paste.
 Two hours anatomy quiz.

WARD WORK AND DEMONSTRATIONS

Care of ether patients after minor operations, care of fracture cases, making use of sand bags, cradles, etc., use and care of hard rubber syringes, preparing patients for ether, minor duties in making ward rounds. Placing patients in various positions (Sims, dorsal, etc.).

TENTH WEEK

CLASS WORK

Two hours spent on drugs.
 One hour spent on care of ether patients.
 One hour care necessary in catheterization.
 Two hours anatomy quiz.
 Instruction in diet kitchen.
 Later in course spends five weeks in the diet kitchen.

ELEVENTH WEEK**CLASS WORK**

Two hours spent on drugs.
One hour necessary care of different cases.
One hour on preparation for aspiration, intravenous injections and on care of hypodermic syringes.

WARD WORK AND DEMONSTRATIONS

Care of ether cases. Begin to give medicines regularly, prepare patients for operations, and carry out baking treatment. Give hot packs and air baths when necessary. Catheterizing.
Giving hypodermic injections, temperature baths, small surgical dressings, care of patients' clothes closets, etc.

TWELFTH WEEK**CLASS WORK**

One hour is spent on precautions to be observed in aspirating and giving intravenous injections.
One hour on particular care given to different cases.
One hour on catheterizing.
One hour on drugs.
Two hours on anatomy quiz.

WARD WORK AND DEMONSTRATIONS

Preparation for intravenous injections, aspirations, applying bandages, giving bladder irrigations.
Preparation of rooms for fumigation.

THIRTEENTH WEEK**CLASS WORK**

Two hours on drugs.
Two hours on applying roller bandages.
Two hours anatomy quiz.
One hour general work in ward.

WARD WORK AND DEMONSTRATIONS

Taught to wash and dress a baby, taught to apply liniments in cases of rheumatism, etc., how to use a cautery. Care of the bed.

FOURTEENTH WEEK**CLASS WORK**

Two hours on drugs.
Two hours on anatomy quiz.
One hour on mending rubber goods.
One hour on bandaging.

WARD WORK AND DEMONSTRATIONS

Taking patients to etherizing room, giving as many subcutaneous injections as possible, preparing for plaster work.

FIFTEENTH WEEK

CLASS WORK

Two hours on drugs.
Two hours on anatomy quiz.
Two hours on bandaging.

WARD WORK AND DEMONSTRATIONS

Pillow splints, bandaging, use and care of various appliances.

SIXTEENTH WEEK

CLASS WORK

Two hours on drugs.
Two hours anatomy quiz.
Two hours on bandaging.
In addition to the above, Dr. E. L. Hunt, assistant pathologist, will give six lectures on bacteriology and Dr. Roy J. Ward will give six lectures on elementary chemistry.

WARD WORK AND DEMONSTRATIONS

Anything that a nurse may have missed in the course of ward work.
The lecture course and the regular class work are not included in this schedule. Physiology and anatomy are taught by Dr. Edward P. Disbrow.

OUTLINE OF CLINICAL COURSE

Given in 1917 by Dr. Joseph C. Lovett

The course to be given this year will be conducted along the same general lines as were followed last year. As before, the general idea is not in any way to make a diagnostician of the nurse, but to increase her efficiency as an assistant by impressing constantly upon her how important, both to the doctor and his patient, does the prompt and intelligent observation of certain phenomena often become.

To secure this desirable object the class is divided into two small sections of six or eight, and a series of short clinics (averaging one hour each) given throughout the year. In these clinics the important phenomena of the various common diseases are demonstrated, the nurses making personal examination of the patients shown, and frequently being called upon to criticise the accuracy of each other's observation. Free discussion of each case is encouraged, all doubtful points being referred to the instructor for settlement. From time to time, during the course, a number of more or less unimportant phenomena are introduced, both to stimulate interest and bring into marked contrast conditions of greater significance.

It may be deducted from the above explanation that the aim constantly borne in mind is to give the pupil-nurse a good working knowledge of:

- How to observe.
- What to observe.
- How to make practical use of her observation.

In furtherance of this scheme, then clinics are held on:

1. Examination of the patients in general.
Methods of draping the patients.
Proper position desirable in examining the various regions and organs of the body.
Stigmata.
Recognition and significance of normal phenomena.
Palpation, percussion, auscultation demonstrated.
2. The pulse.
What the pulse is and knowledge to be gained from its study.
Correct methods of examining the pulse.
Demonstrations of radial, temporal, facial, brachial, carotid, dorsalispedis and other available pulse.
Volume and tension, rate, rhythm, etc.
Effects of exercise, baths, emotions, drugs, shock and hemorrhage.

Several cases of arterio-sclerosis are shown, the arteries palpated and cause of findings explained.

3. The blood.
Demonstration under the microscope; fresh and stained specimens.
Preparation of blood smears from various secretions.
Demonstration of malarial parasites in the blood.
Hoemoglobin estimation, use of the Tahlquist scale.
Anaemia. Primary. Secondary. Pernicious.
Chlorosis; nature, wonderful effect of iron.

4. Respiration affections—pneumonia.

After a short talk on its nature, the nurses assemble about a pneumonia patient and are expected to note the face, expression, flush, herpes, dilatation of nares, etc.

Respiration, rate and character.
Cough.
Sputum.
Crisis and lysis explained and charts shown.

5. Respiratory affections (concluded).
Asthma—its phenomena.
Tuberculosis.

This very important disease is treated of in a separate clinic. Much time is given to the preliminary talk. The importance of prophylaxis is insisted upon, especially the lines along which it may be efficiently carried out. Pulmonary, bone and peritoneal cases are shown.

6. Cardiac phenomena.
Locating heart's apex.
Tremor.
Thrills.
Murmurs.
Oedema.
Use of digitalis. Danger of digitalis.

7. Typhoid fever.

As in the clinic on tuberculosis, considerable time is spent in talking about the cause of the disease, including a brief description of bacteria in general. Several cases are shown and the following points of interest explained:

Fecies.
Rose spots.
Enlarged spleen felt.
Temperature charts examined and changes in temperature and pulse explained.

- Serious complications of typhoid and their danger signals.
 Importance of prophylaxis insisted upon. Efficient means of carrying out the same, both in city and in country.
 Bacillus typhosus demonstrated under the microscope.
 Widal test briefly explained.
8. Rheumatism.
 Acute and chronic cases shown.
 Untoward effects of so-called anti-rheumatic drugs, warning against them.
 Fixation of joints and other methods of relief of pain.
9. Skin affections.
 Erysipelas.
 Cause, the bacteria being demonstrated under the microscope.
 Its contagiousness.
 Prophylaxis.
 Scabies.
 Cause. Recognition.
 Eczema.
 Common cases. Various types. Cases shown as available.
 Psoriasis.
 Nature of the disease.
 Contrasted with eczema.
 Herpes.
 Zoster and labialis, several cases being available last year.
 Urticaria.
 Causes. Recognition.
 Dermatitis.
 Causes. Varieties.
10. Syphilis.
 Both secondary and tertiary cases are shown.
 The macular rash, headache, sorethroat, enlarged glands, etc., demonstrated.
 A congenital case shown.
 Hutchinsonian teeth.
 Importance of prophylaxis and long-continued treatment.
11. Kidney disease.
 Acute and chronic cases shown.
 General methods of treatment shown.
 Elementary tests of albumen and sugar.
12. Systematic diseases.
 Cancer.
 Various manifestations.
 Rickets.
 Nature of the disease. Treatment in general.
 Diabetes.
 Nature of the disease. Treatment in general. Diet.
 Sepsis.
 Nature of the disease. Treatment in general. Explanation of charts.
13. Nervous diseases.
 Apoplexy.
 Tabes dorsalis.
 Meningitis.
 Infantile paralysis.
14. X-ray clinic.
 Explanation of the phenomena.
 Use of the Roentgen rays in various diseases.
 Photographs of fractures, etc., explained.
 Dangers of over-exposures to the rays.

In addition to the above the following phenomena were shown during the past year:

Jaundice	Exophthalmic goitre
Erythema	Aspirating chest
Ascites	Hydrocephalus
Tache cerebral	"Shingles"
Knee jerk	Incoördinate movements
Ankle clonus	Pupils reflexes
Lead line	Argyll-Robertson pupil
Visible peristalsis	Ecchymosis
Lymphangitis	Arcus senilis
Club fingers	Cheyne-Stokes breathing
Uraemic coma	Pipe stem arteries
Gangrene	Dyspnoea
Bed sores	Cachexia
Varicose veins	Leukaemia
Abscesses	False membrane of fauces
Herniae	Tape worm
Stigmata	Delirium cordis

HOSPITAL LEGACIES

In order that persons interested in the City Hospital may have in convenient form a list of the institution's benefactions and the conditions attached to the same, the following extracts from the donors' wills and bequests are reproduced. In another part of this report, under the caption, "Report of the Commissioners of the Jaques and Other Funds of the City Hospital," are presented the amounts of the funds December 1, 1916, receipts during the year, payments during the year, and the amounts on hand at the close of our financial year.

GEORGE JAUQUES FUND

Worcester, Mass., May 29, 1872.

Ninth. All the rest, residue and remainder of my estate, real, personal or mixed, not herein otherwise disposed of, of which I may die seized and possessed or to which I may in any way be entitled at the time of my decease, whatever the same may be, wherever it may be or be situated, or however it may be known, designated or described, I give, devise and bequeath unto the City of Worcester. In trust, however, to be by the city applied to the sole and particular use and benefit of the institution established and known as Worcester City Hospital, and to no use or purpose other than that whatsoever. While I would not wish to give any particular direction to the bequest, nor incur the risk of defeating the purpose I have in view, in making it, by imposing any limitation or condition as to the manner of its use, still I should prefer to see it set apart as a separate fund, and the income thereof applied only to the support and maintenance of said hospital, if such a course shall commend itself to the wisdom of those having it in charge. (*Extract from will.*)

ISAAC DAVIS FUND

Worcester, Mass., May 26, 1873.

Doct. F. H. Kelley:

I propose to give to the City Hospital of Worcester a bond of one thousand dollars (\$1,000) drawing 8 per cent. interest, upon the following restrictions, limitations and conditions:

1st. The principal and interest to accumulate until the sum amounts to two thousand dollars (\$2,000), then it is to be kept a separate fund forever, to be called the Isaac Davis Fund and the income of which is to be applied for the support of poor and destitute persons who are admitted to the hospital and are unable to pay their expenses while there.

2nd. The said Davis reserving the right for himself and children, in case of sickness of any servant or domestic in their families, to send them to the hospital, and their expenses to be deducted from the income of said fund.

Yours truly,

ISAAC DAVIS.

(Signed)

ALBERT CURTIS FUND

Mr. Curtis sent a communication to the Trustees March 10, 1875, in which he expressed a desire to provide permanently for replenishing the medical and surgical library, and enclosed \$1,000 as a fund. Whereupon the Trustees passed the following vote: "Resolved, that the trustees of the City Hospital do hereby, as said trustees, accept and receive from Albert Curtis, Esq., the sum of \$1,000, to be held under the name of the Curtis Fund by them, ex-officio, and their successors in said office, in trust for the uses, trusts and purposes touching the same, declared by said Albert Curtis in and by his letter to the trustees of date of March 10, 1875, to be herewith recorded in the records of the trustees."

JOHN B. SHAW FUND

Second. After the death of my said wife, I give, devise and bequeath to the city of Worcester for the City Hospital, one-fifth part of the property that may remain at the death of my said wife, to support and pay the expenses thereof.

Third. After the death of my said wife, I give, devise and bequeath to each of the following persons, to wit: Oran A. Kelley, Jr.; Eliza Maria Eaton; wife of A. M. Eaton; and Emma Louise Houghton, wife of Dana Houghton; their heirs and assigns forever, one full fifth part of the property, real, personal and mixed, to each of said grantees, one-fifth.

Fourth. I devise and bequeath to Sarah D. Mackintire, wife of Russell R. Mackintire, one full fifth part of said property, real, personal or mixed, to her sole and separate use, notwithstanding her marriage without the intervention of trustees, to have and to hold to her sole use for and during her natural life, after the death of said Mary Ann Shaw.

Fifth. After the death of Sarah D. Mackintire, wife of Russell R. Mackintire, above named, I devise and bequeath the residue and remainder of said property, real, personal or mixed, to said City of Worcester forever, to hold to them and their successors, to defray the expenses of said hospital forever.

(Seal)

JOHN B. SHAW.

ELBRIDGE G. PARTRIDGE FUND

Section 16. To the City Hospital of Worcester the sum of one thousand dollars to be expended and used in the discretion of the trustees for needs of said hospital. (*Extract from will.*)

JOSEPH A. TENNEY FUND

Fifteenth. I give and bequeath unto the City Hospital of Worcester, aforesaid, the sum of five thousand dollars. (*Extract from will. Will dated December 2, 1879.*)

STEPHEN SALISBURY FUND

I give and bequeath to the City Hospital of Worcester three thousand dollars, on condition that the Trustees of the hospital shall provide three free beds in that hospital in perpetuity for the treatment of suitable patients unable to make payment therefor, and that my son Stephen shall have the right to offer candidates for the occupation of these beds. (*Extract from will.*)

Voted, that the trustees of the City Hospital gratefully accept the bequest of \$3,000 from the late Stephen Salisbury, to provide for the support of three free beds in the hospital, and that they put this sum into the hands of the treasurer of the funds, which are in charge of the commissioners of the hospital, directing that it be set aside and kept separately and designated as "The Salisbury Fund," the principal to remain intact, and that the income be added to the principal, except as it may be drawn in conformity to the conditions of the bequest, or as it may be deemed proper by the trustees.

JOSEPH SARGENT FUND

Worcester, Mass., Jan. 4, 1886.

To His Honor, Mayor Samuel Winslow:—

My dear Sir:—The subscriber, at the close of his fourth term as trustee at large of the Worcester City Hospital, respectfully declines re-election.

And as a testimonial of his constant regard for the excellent institution and of his desire to promote its interests, he begs the City Council, in behalf of the hospital, to accept and take charge of the enclosed sum of (\$500) five hundred dollars, to be added to the one thousand dollar Albert Curtis fund, the principal to remain intact, and the income to be under the exclusive control of the trustees of the hospital and their successors, for the purpose specified in the gift of Mr. Curtis, namely, for the purchase of standard books in medicine and surgery, to be kept always at the hospital for convenient reference by the staff of the Hospital.

Very respectfully,

JOSEPH SARGENT.

HELEN C. KNOWLES FUND

City of Worcester,

In City Council, Dec. 13, 1886.

Ordered, that whereas the trustees of the City Hospital have notified the Mayor that the executors of the will of the late Mrs. Helen C. Knowles have communicated to said trustees their readiness to pay over to the City the legacy of twenty-five thousand dollars, given in trust for the purpose of the maintenance of a ward in the hospital to be devoted to the treatment of poor women and children, who are afflicted with incurable diseases, or for lying-in purposes, and said trustees have signified their election that said fund be devoted to lying-in purposes.

Now, therefore, the city gratefully accepts the generous bequest of Mrs. Knowles; and it is directed that the same be applied under the direction of the trustees of the City Hospital, to lying-in purposes, according to the terms of said will.

Approved December 16, 1886.

A copy. Attest:

SAMUEL WINSLOW.

E. H. TOWNE.

City Clerk.

EDWIN CONANT FUND

Worcester, Mass., April 11, 1892.

To the Honorable Mayor and City Council of the City of Worcester:—

Gentlemen:—Under item thirty-fifth of the will of the late Edwin Conant, the sum of one thousand dollars was left for the use and benefit of the City Hospital in the City of Worcester, to be applied "in such departments of its work and for such purposes as the trustees for the time being shall determine to be most wise and expedient."

I shall be ready shortly to pay this amount to you, and will you please officially accept this bequest and authorize some person to give an acquittance for the same?

Very truly yours,

HENRY EVELETH HILL.

MARY E. D. STODDARD FUND

15 Ashland St., Worcester.

To His Honor Francis A. Harrington, Mayor:—

My Dear Sir:—I desire to give to the City of Worcester in trust for the City Hospital, two certificates of stock, valued at the present time at about five thousand dollars, consisting of twenty-five shares of the New York Central and Hudson River Railroad, and thirteen shares of the Boston and Maine Railroad.

It is my wish that the said stocks, or proceeds therefrom, if sold, be constituted a separate fund forever, the income thereof to be expended by the trustees for the benefit of the patients in said hospital, especially in providing delicacies, flowers, drives, clothing or other comforts which would not otherwise be generally furnished.

Very truly yours,

MARY E. D. STODDARD.

Worcester, Mass., Sept. 28, 1892.

FOURTH OF JULY FUND

"The committee (who raised the money for the Fourth of July celebration, of which \$724.49 was left over) decided to pass it over to the City Hospital, and to place it in the hands of the Trustees for the use and benefit of that institution. It has been, accordingly, sent by the treasurer of that committee, at the suggestion of the Trustees, to the City Treasurer, who has been requested to keep and account for it as a separate fund." (*Extract from Annual Report of Trustees for 1892.*)

DAVID McINTIRE FUND

12th. To the City of Worcester the sum of two thousand dollars, in trust always, the income thereof to be applied, under the direction of the trustees of the City Hospital, for the maintenance of a ward or wards in that institution to be devoted to the free treatment of poor women and children who are afflicted with incurable diseases, as provided by the bequest of the late Helen C. Knowles. (*Extract from will.*)

CITY OF WORCESTER

In City Council, Worcester, Mass., Nov. 16, 1896.

Ordered, that the City Council of Worcester hereby accepts from the estate of the late David M. McIntire of Worcester, under his will, the legacy of \$2,000, given in trust, with the interest thereon, and \$500 out of the residuum of said estate, also given in trust, and whatever sum may hereafter be paid from said estate as a further payment out of the residuum under the trust of the will, for the free treatment of poor women and children afflicted with incurable diseases, and charges the City Treasurer with the custody and care of the same; the income, thereof, under the provisions of the will of said David M. McIntire, to be applied under the direction of the trustees of the City Hospital.

Ordered, that the treasurer invest and reinvest said sums and such other sums as may thereafter be paid in from the same source for the same purpose, and disburse the income for the purpose of the trust as from time to time required by the trustees of the City Hospital.

Approved, November 18, 1896.

A. B. R. SPRAGUE, *Mayor*.

BENJAMIN WALKER FUND

This fund given by Mrs. Charlotte E. W. Buffington, was received November 28, 1898. Mrs. Buffington expressed a desire that the fund, amounting to \$1,000, be set apart as a separate fund, to be forever known as the Walker Trust Fund, in memory of her father, the principal to be kept intact, and the income only used for the general purposes of the hospital.

LEWIS BARNARD FUND

Worcester, Mass., Jan. 28, 1899.

Hon. Rufus B. Dodge, Jr., Mayor of the City of Worcester:—

My Dear Sir:—I enclose a check for one thousand dollars (\$1,000), in payment of a bequest made to the city of Worcester by my father, the late Lewis Barnard, to be applied to the support and maintenance of the City Hospital, as appears by item six in his will which is as follows:

"I give and bequeath unto the city of Worcester the sum of one thousand dollars (\$1,000), to be applied to the support and maintenance of the City Hospital, in said city, under the direction of the trustees of that institution for the time being, and in such way and manner as they may deem wise."

Sincerely yours,

MARY F. BARNARD,
Administratrix.

MARIA G. WILSON FUND

"2. The legacy given to the Children's Aid Society of Boston by the fourth paragraph of my will is revoked, and the fund therein set apart to secure an annuity to my aunt Charlotte Coes. I direct my trustees to distribute after her death one-half to the Children's Aid Society and one-half to the Worcester City Hospital." (*Extract from the codicil of the will of Maria G. Wilson.*)

BURNSIDE FUND

The fund, given by Miss Harriet P. F. Burnside, was received March, 1904. The terms of the bequest are as follows:

"I give the City Hospital of Worcester three thousand dollars, to be used to establish a free bed."

Voted, that the trustees of the City Hospital, Worcester, gratefully accept the most generous bequest of the late Harriet P. F. Burnside of \$3,000, "To be used to establish a free bed," in the City Hospital; that this be made a separate fund, to be called the Burnside Fund, the income of which only shall be used in accordance with the provisions made in Miss Burnside's will; and that a copy of this vote be sent to the executors of the will.

JULIA B. THAYER FUNDS

"To the City Hospital of Worcester, the sum of \$20,000."

"To the trustees of the Nurses' Home of Worcester, Mass., the sum of \$10,000, the income thereof to be used for the comfort and pleasure of the nurses who are inmates thereof."

ALICE TAFT FARNUM FUND

"To the city of Worcester in said County any balance of the sum so placed and held in trust that may remain unexpended at the time of the decease of my said son, the same to be held by the City Treasurer of said city and to be expended by and under the direction of the Trustees of the City Hospital and the City Treasurer is hereby authorized to pay out said money upon vouchers which shall have been duly audited by the said Trustees of the City Hospital, or auditors thereof; payments so made to fully release and discharge him from all liability for the expenditure of the same." (*Extract from will.*)

ALFRED M. HEINSHEIMER FUND

Mr. Heinsheimer donated to the Hospital through the Chairman of the Board of Trustees \$1,000 on October 18, 1912, the income of which is to be used to defray expenses of any person not able to pay his or her bill for board and care.

HARRIET B. BROWN FUND

"22. To the City Hospital located in Worcester, Massachusetts, I bequeath the sum of \$3,000 to be used for the assistance and care of needy and worthy girls and women as patients at the Hospital." (*Will dated Dec. 13, 1912.*)

HENRY F. HARRIS FUND

"To the city of Worcester, but in trust nevertheless, the same to be safely invested and the income only to be expended by the city treasurer for such special purposes and in such special ways as the trustees of the Worcester City Hospital may from time to time by vote direct, the sum of \$5,000.

"It is my wish in this connection that none of the income from the above provided principal shall ever be used for the support and maintenance of the hospital, but rather for special needs which often arise for which there seems to be no special provision made. The uses to which the 'Fourth of July' fund, so-called, were put, are such as I have in mind." (*Extract from will.*)

LUCY W. RICE FUND

"8th. I give to my said sister, Julia A. Thayer, five thousand (5,000) dollars; to my aunt, Lucy W. Rider, five thousand (5,000) dollars, and to said Memorial Home for the Blind the sum of five thousand (5,000) dollars to be used and applied for the purposes and objects of said Society; I also give to said Memorial Hospital the sum of five thousand (5,000) dollars and to the City Hospital in Worcester the sum of five thousand (5,000) dollars; said sums to be taken, held and invested by said two institutions respectively as permanent funds and the income only thereof to be used and applied for the benefit of indigent patients." (*Excerpt from the will of Lucy W. Rice.*)

SOLOMON B. WOLFE FUND

"I give, devise and bequeath to Worcester City Hospital the brick building at 89, 91 and 93 Green St., to city of Worcester and the six tenement frame building in the rear of said brick building and on the same lot." (*Extract from will.*) The buildings were sold and the fund amounts to \$5,851.26.

ROLL OF TRUSTEES

The following is a list of the past and present officers and members of Board of Trustees of Worcester City Hospital, together with their terms of service:

PRESIDENTS.

Dr. F. H. Kelley,	1871 to 1882
Albert Curtis,	1882 to 1889
Dr. Thomas H. Gage,	1889 to 1902
Dr. Albert Wood,	1902 to 1910
Samuel E. Winslow,	1910, still in office.

Dr. Melvin G. Overlock,	1903, still in office.
Henry F. Harris,	1908 to 1913
Charles F. Mann,	1911 to 1912
Burton H. Wright,	1913, still in office.
Arthur J. Young,	1913 to 1914
Matthew J. Whittall,	1914, still in office.

VICE-PRESIDENTS.

Dr. Albert Wood,	1902
Samuel E. Winslow,	1902 to 1910
Henry F. Harris,	1910 to 1915
Dr. Melvin G. Overlock,	1915, still in office

SECRETARIES.

George Jaques,	1871 to 1872
Stephen Salisbury,	1872 to 1889
Charles F. Mann,	1889 to 1912
Burton H. Wright,	1913, still in office

AUDITORS.

Lewis Barnard,	1875 to 1876
George F. Hewett,	1875 to 1876
Albert Curtis,	1876 to 1883
Sumner Pratt,	1876 to 1878
William Dickinson,	1878 to 1879
Henry A. Marsh,	1879 to 1880
Charles G. Reed,	1880 to 1884
James C. Coffey,	1883 to 1885
John R. Thayer,	1884 to 1887
James Early,	1885 to 1886
M. D. Gilman,	1886 to 1887
E. B. Crane,	1887 to 1888
Charles F. Mann,	1887 to 1888
George M. Woodward,	1888 to 1889
William O'Connell,	1888 to 1889
George C. Whitney,	1889 to 1890
D. F. Fitzgerald,	1889 to 1891
J. L. Ellsworth,	1890 to 1891
A. F. Gates,	1891 to 1892
C. D. Pinkham,	1891 to 1892
F. W. Grout,	1892 to 1894
J. J. Murphy,	1892 to 1894
George M. Rice,	1894 to 1895
Frank J. Houston,	1894 to 1895
Henry Brannon,	1895 to 1896
Edward F. Murray,	1895 to 1896
Samuel E. Winslow,	1896 to 1903
Henry F. Harris,	1896 to 1903
James Logan,	1903 to 1908

ALDERMEN.

H. H. Chamberlain,	1871 to 1873
Emory Banister,	1873 to 1874
Lewis Barnard,	1874 to 1876
Sumner Pratt,	1876 to 1878
William Dickinson,	1878 to 1879
Henry A. Marsh,	1879 to 1880
Charles G. Reed,	1880 to 1884
John R. Thayer,	1884 to 1887
E. B. Crane,	1887 to 1888
Francis A. Harrington,	1888 to 1889
George C. Whitney,	1889 to 1890
J. Lewis Ellsworth,	1890 to 1891
A. Frank Gates,	1891 to 1892
Francis W. Grout,	1892 to 1895
Henry Brannon,	1895 to 1897
A. M. Thompson,	1897 to 1899
C. A. Vaughn,	1899 to 1901
Louis J. Kendall,	1901 to 1902
George M. Wright,	1902 to 1903
Julian F. Bigelow,	1903 to 1904
John H. Connelly,	1904 to 1906
George F. Brooks,	1906 to 1909
Waiter L. Mellen,	1909 to 1910
George H. Coates,	1910 to 1912
James L. Harrop,	1912 to 1913
Jesse P. Taber,	1913 to 1914
David A. Scott,	1914 to 1915
Alfred M. VanDusen,	1915 to 1916
Harry A. Cooke,	1916, still in office.

COUNCILMEN.

Sumner Pratt,	1871 to 1872
Charles S. Childs,	1871 to 1872
L. J. Knowles,	1872 to 1873
J. S. Rogers,	1872 to 1875
Henry Goddard,	1873 to 1875
Hamilton E. Staples,	1875 to 1876
George F. Hewett,	1875 to 1876
Benjamin Walker,	1876 to 1878
John R. Thayer,	1876 to 1880
Albert A. Lovell,	1878 to 1879
Loring Coes,	1879 to 1881
Francis Plunkett,	1880 to 1881

Frederick W. Ward, 1881 to 1883
 John J. O'Gorman, 1881 to 1882
 James C. Coffey, 1882 to 1885
 George C. Batchelder, 1883 to 1884
 Benjamin W. Childs, 1884 to 1885
 M. D. Gilman, 1885 to 1887
 James Early, 1885 to 1888
 Charles F. Mann, 1887 to 1888
 George M. Woodward, 1888 to 1889
 William O'Connell, 1888 to 1889
 Cephas N. Walker, 1889 to 1890
 D. F. Fitzgerald, 1889 to 1891
 Rockwood Hoar, 1890 to 1891
 Charles H. Pinkham, 1891 to 1892
 David F. O'Connell, 1891 to 1892
 George M. Rice, 2nd, 1892 to 1896
 John J. Murphy, 1892 to 1894
 Frank J. Houston, 1894 to 1895
 Edward F. Murray, 1895 to 1896
 Albert H. Chaffee, 1896 to 1897
 Eugene L. Bellisle, 1896 to 1898
 Fred D. Johnson, 1897 to 1900
 J. R. O'Leary, 1898 to 1899
 Bernard H. McMahon, 1899 to 1900
 Nelson H. Davis, 1900 to 1902
 John H. Connelly, 1900 to 1904
 William J. Bragg, 1902 to 1903
 John M. Kendall, 1903 to 1906
 Herbert A. Booth, 1904 to 1905
 John P. Holmgren, 1905 to 1907
 Charles G. Goodell, 1906 to 1908
 Patrick J. Moynihan, 1907 to 1908
 Maurice V. Fitzgerald, 1908 to 1911

Clifford S. Anderson, 1915, still in office.

Frederick H. Lucke, 1908 to 1909
 Frank P. Barnard, 1909 to 1911
 Louis B. Glikman, 1911 to 1912
 Robert A. Mason, 1911 to 1914
 N. Henry O'Brien, 1912 to 1915
 John C. Ware, 1914 to 1916
 Michael J. Fitzgerald, 1915 to 1916
 Frederick S. Clark, 1916 to 1917
 John H. Murphy, 1916 to 1917
 Philip D. Wesson, 1917 to 1917
 Joseph W. Leyden, 1917, still in office.
 Howard A. Nash, 1917, still in office.

AT LARGE.

Dr. F. H. Kelley, 1871 to 1882
 Stephen Salisbury, 1871 to 1889
 George Jaques, 1871 to 1872
 Dr. Joseph Sargent, 1871 to 1886
 Albert Curtis, 1872 to 1889
 Dr. Thomas H. Gage, 1883 to 1902
 Dr. Albert Wood, 1886 to 1912
 Charles F. Mann, 1889 to 1912
 Henry A. Marsh, 1889 to 1902
 Henry F. Harris, 1896 to 1915
 Samuel E. Winslow, 1896, still in office.
 Dr. Melvin G. Overlock, 1902, still in office.
 James Logan, 1902 to 1908
 Matthew J. Whittall, 1908, still in office.
 Burton H. Wright, 1912, still in office.
 Arthur J. Young, 1912 to 1914
 George N. Jeppson, 1914 to 1915
 David A. Scott, 1915, still in office.

ROLL OF PAST MEMBERS OF THE STAFF

Joseph Sargent, M. D., 1871 to 1886
 Merrick Bemis, M. D., 1871 to 1873
 F. H. Kelley, M. D., 1871 to 1883
 Rufus Woodward, M. D., 1871 to 1883
 George A. Bates, M. D., 1871 to 1883
 Oramel Martin, M. D., 1871 to 1889
 Henry Clark, M. D., 1871 to 1880
 Joseph N. Bates, M. D., 1871 to 1883
 Thomas H. Gage, M. D., 1871 to 1886
 J. Marcus Ries, M. D., 1871 to 1901
 Emerson Warner, M. D., 1871 to 1905
 George E. Francis, M. D., 1871 to 1912
 Albert Wood, M. D., 1871 to 1886
 Henry Y. Simpson, M. D., 1871 to 1872
 John G. Park, M. D., 1871 to 1872
 John O. Marble, M. D., 1872 to 1912
 Bernard D. Eastman, M. D., 1873 to 1879
 Lewis S. Dixon, M. D., 1874 to 1888
 Wm. H. Workman, M. D., 1876 to 1886
 J. Bartlett Rich, M. D., 1879 to 1896
 Charles A. Peabody, M. D., 1880 to 1881

Wesley Davis, M. D., 1881 to 1906
 Oliver H. Everett, M. D., 1881 to 1896
 M. H. Danforth, M. D., 1887 to 1889
 John G. Park, M. D., 1887 to 1890
 Charles H. Ferry, M. D., 1889 to 1890
 William S. Miller, M. D., 1889 to 1898
 Edward A. Welch, M. D., 1890 to 1890
 Walter T. Clark, M. D., 1890 to 1908
 W. R. Gilman, M. D., 1891 to 1902
 Frank A. Rogers, M. D., 1893 to 1894
 L. C. Miller, M. D., 1897 to 1898
 Raymond S. Wilder, M. D., 1895 to 1896
 Edwin D. Boynton, M. D., 1899 to 1901
 Charles D. Wilkins, M. D., 1902 to 1908
 Michael F. Fallon, M. D., 1905 to 1907
 Alfred W. Southgate, M. D., 1908 to 1910
 Roy A. Bush, D. D. S., 1908 to 1911
 Frank P. Barnard, D. D. S., 1911 to 1915
 Foster H. Carey, M. D., 1903 to 1916
 W. Irving Clark, M. D., 1908 to 1917
 Dennis F. O'Connor, M. D., 1905 to 1917

ORDER OF APPOINTMENT

CONSULTING, VISITING AND OUT-PATIENT STAFFS

1872	November, Leonard Wheeler, M. D.	1904	August, Benjamin T. Burley, M. D.
1888	June, Samuel B. Woodward, M. D.	1905	January, Philip H. Cook, M. D.
1885	December, David Harrower, M. D.	1905	*January, Merriek Lincoln, M. D.
1888	June, Albert C. Getchell, M. D.	1905	August, Ernest L. Parker, M. D.
1888	June, Ray W. Greene, M. D.	1905	*November, Howard W. Beal, M. D.
1889	*October, Homer Gage, M. D.	1906	January, John T. McGillicuddy, M. D.
1889	October, George O. Ward, M. D.	1906	May, George E. Deering, M. D.
1890	March, Lemuel F. Woodward, M. D.	1907	February, Walter C. Haviland, M. D.
1890	March, William J. Delehanty, M. D.	1908	April, Frank L. Magune, M. D.
1890	August, Edward H. Trowbridge, M. D.	1908	*November, Frank W. George, M. D.
1898	January, Edward Swasey, M. D.	1908	December, Walter D. Bieberback, M. D.
1894	January, Michael J. O'Meara, M. D.	1908	December, Roy R. Stimpson, D. D. S.
1894	January, Frederick H. Baker, M. D.	1910	*February, William E. Denning, M. D.
1896	January, Charles D. Wheeler, M. D.	1910	March, John E. Rice, M. D.
1896	January, Charles B. Stevens, M. D.	1910	March, Roy J. Ward, M. D.
1896	June, Royal P. Watkins, M. D.	1911	*January, Edward B. Bigelow, M. D.
1898	January, Arthur W. Marsh, M. D.	1911	January, Gordon Berry, M. D.
1898	January, John C. Berry, M. D.	1913	May, O. Draper Phelps, M. D.
1898	July, G. Alston Tripp, M. D.	1915	March, George E. Emery, M. D.
1901	May, Albert M. Shattuck, M. D.	1915	August, John G. Perman, D. D. S.
1902	January, William H. Rose, M. D.	1916	January, John J. Brennan, M. D.
1902	January, John M. W. Farnham, M. D.	1916	April, Arthur H. Boyden, M. D.
1902	April, Timothy J. Foley, M. D.	1916	*July, Gilbert W. Haigh, M. D.
1902	April, George A. Dix, M. D.	1917	March, Claudius J. Byrne, M. D.
1902	April, George H. Hill, M. D.	1917	March, Frank E. Stowell, M. D.
1902	August, Charles T. Estabrook, M. D.	1917	April, Benjamin F. Andrews, M. D.
1908	November, Ernest L. Hunt, M. D.	1917	November, John A. MacFadyen, M. D.
1904	February, Oliver H. Everett, M. D.		

*Enlisted in the service.

ADDRESSES OF THE GRADUATES OF THE TRAINING SCHOOL

1901	Allen, Susan C.,	Private nurse,	Uxbridge, Mass.
1914	Allison, Gertrude I.,	Private nurse,	Worcester, Mass.
1900	Allwood, Alice C.,	Mrs. J. Garside,	Apponaug, R. I.
1906	Allen, E. Maude,	Asst. Supt. Nurses,	Manhattan Eye & Ear Hos- pital, New York City Georgia.
1892	Ambler, Mary F.,	Mrs. H. Hopkins,	85 Whitney St., Providence
1897	Arnold, Bertha S.,	Mrs. L. Morris,	190 Park Ave., Worcester
1911	Arnold, J. Hazel,	Private nurse,	188 Peel St., Montreal, Can.
1909	Ayling, Percy J.,	Salesman,	40 Richland St., Worcester
1887	Atkinson, Mary S.,	Mrs. Riordan,	New Brunswick, Can.
1909	Arneson, Sadie H.,	Private nurse,	Central Bellville, N. S.
1916	Babin, Anna C.,	Private nurse,	Worcester, Mass.
1911	Baggolini, Pauline K.,	Mrs. Thomas Beatty,	
1909	Baird, Laura H.,	Private nurse,	
1916	Balsley, Leola,	Mrs. Irving W. Frain,	Waltham, Mass.
1907	Baker, Courtland,	Private nurse,	
1907	Ball, Mary A.,	Private nurse,	
1904	Ballis, Mary E.,	Private nurse,	
1916	Barnes, Charles F.,	Private nurse,	
1907	Barr, Elizabeth W.,	Head nurse,	Hale Hospital, Haverhill, Mass.
1916	Barras, Leah,	Private nurse,	299 Lincoln St., Worcester
1909	Barron, Frank,	Private nurse,	Boston, Mass.

1914	Bartlett, Leah H.,	Graduate nurse,	Wyandotte Emergency Hospi- tal, Wyandotte, Michigan
1916	Bassett, Harry F.,	Nurse.	
1915	Baus, Emily,	Mrs. Harold P. Kayser,	Base Hospital, Nogales, Ariz.
1887	Beckwith, Florence E.,	Mrs. James W. Clark,	815 Main St., Worcester
1911	Beecher, Phoebe E.,	Mrs. A. D. Windle,	West Millbury, Mass.
1909	Bennette, Alice,	Mrs. William Gibbons.	
*1916	Benoit, Lillian G.,	Private nurse,	Hacker St., Worcester
1914	Benoit, Marie A.,	Mrs. Harrison,	Springfield, Mass.
*1909	Bergstrand, Hanna,	Private nurse,	Worcester
1908	Black, Ada M.,	Mrs. R. Q. Hamilton,	St. Johnsbury, Vt.
1887	Blanchard, Elizabeth S.,	At home,	Waterbury, Vt.
1885	Blood, Frances S.,	Deceased.	
*1907	Bolles, Charlotte E.,	Private nurse,	299 Lincoln St., Worcester
1917	Bonney, Viola M.,	Private nurse,	Leominster, Mass.
1915	Bonning, Arthur,	Nurse,	Goodrich Rubber Co., Chicago, Ill.
*1905	Borg, Ida L.,	Private nurse,	4 Wellington St., Worcester
1911	Borg, Helga,	Private nurse,	4 Wellington St., Worcester
1912	Bottomly, Contence,	Mrs. A. H. Boyden,	875 Main St., Worcester
1899	Bournot, Alma	Private nurse.	
1895	Bowker, Bessie,	Mrs. Hiram Williamson	236 Main St., Worcester
1916	Bowker, Pearl,	Private nurse,	23 Gates St., Worcester
1906	Boyer, Ethyl,	Army nurse,	England
1911	Boynton, Arthur W.,	Instructor,	City Hospital, Worcester
1890	Bradley, Nellie C.,	Mrs. J. P. Grannis.	
1917	Brett, Hattie M.,	Private nurse,	Chatham, N. B.
1904	Bridges, Mabel F.,	Mrs. O. E. Carter,	Santa Catalina Is., Cal.
1898	Bridges, Viola G.,	Mrs. A. G. Woodman,	Santa Catalina Is., Cal.
1911	Brierly, Margretta,	Private nurse,	15 Dorrance St., Worcester
1900	Broad, Maria L.,	Mrs. Taylor,	Seattle, Wash.
1909	Brogan, Mary A.,	Visiting and School nurse	Marion, Mass.
1909	Brooks, Ethel G.,	Private nurse.	
1890	Brown, Gladys L.,	Mrs. F. Hotchkiss.	
1914	Brown, Mary E.,	Private nurse,	2 Wyman St., Worcester
1908	Browning, Charlotte E.,	Mrs. William Foster.	
1896	Brownlee, Jennie A.,	Private nurse,	22 Dean St., Worcester
1899	Bruyea, Sarah A.,	Deceased.	
*1906	Bryant, Fannie E.,	Private nurse,	165 Holden St., Worcester
1908	Buchanan, Margaret,	Mrs. McFarlane,	Moncton, N. B.
1917	Buckley, Marguerite,	Private nurse,	31 Main St., Spencer
1904	Burden, Ellen L.,	Mrs. H. S. Kingale,	Spencer, Mass.
1908	Burgess, Claudia M.,	Mrs. Frank Keinale,	Chicago, Ill.
1912	Burke, Grace,	Private nurse,	56 South St., Worcester
1885	Burkholder, Anna Z.,	Private nurse.	
1905	Burnham, Alice C.,	Supervisor,	Julia F. Burnham Hospital, Champaign, Ill.
1916	Burns, Catherine,	Private nurse,	14 Waller Ave., Worcester
1911	Burnette, Jennie M.,	Mrs. H. V. Hendricks,	Traverse City, Mich.
1910	Buttrick, Ellen C.,	Mrs. V. R. Harris,	118 Quincy St., Medford Hill- side, Mass.
1909	Butterfield, Nancy A.,	Mrs. Arthur Ellis Thatcher,	Bar Harbor, Maine
1902	Buzzo, Mary A.,	Mrs. F. E. Stowell,	8 Greenleaf Ter., Worcester
*1915	Byrne, Ellen,	Private nurse,	23 Gates St., Worcester
1914	Cadegan, Paul F.,	Private nurse,	54 West Newton St., Boston
1916	Cahill, Mary A.,	Private nurse,	7 Border St., Whitinsville, Mass.

1890	Caldwell, Myra F.,	Mrs. W. L. Merrill.	
1907	Caldwell, Helen L.,	Married.	
1898	Cameron, Lydia E.,	Mrs. G. E. Webb,	Milwaukee, Wis.
*1915	Cameron, Catherine E.,	Private nurse.	
1898	Cameron, Ruby L.,	Private nurse,	88 Elm St., Worcester
*1906	Cann, Jessie M.,	Superintendent,	Muhlenburg Hospital, Plain- field, N. J.
1912	Canning, Rebecca,	Private nurse,	20 Charlesgate, Boston, Mass.
1913	Cantwell, Katherine E.,	Private nurse,	299 Lincoln St., Worcester
1914	Card, Bessie M.,	Private nurse,	15 Magnolia St., Dorchester, Mass.
*1913	Carpenter, Fayette,	Private nurse,	299 Lincoln St., Worcester
1918	Carpenter, Hazel A.,	Memorial Hospital,	West 106th St., New York City
1897	Carroll, Elizabeth B.,	Private nurse,	39 Kingsbury St., Worcester
1913	Carter, Nettie W.,	Mrs. W. E. Thayer,	12 Ivanhoe Road, Worcester
1917	Carey, Ellen,	Private nurse,	8 Hillside St., Worcester
1909	Carey, Ella N.,	Private nurse.	
1916	Case, Rena M.,	Private nurse,	8 Irving St., Worcester
1905	Casey, Helen A.,	Private nurse,	5 Forestdale Rd., Worcester
1894	Casey, Mary A.,	Mrs. H. S. Newton,	10 Newbury St., Worcester
1908	Casey, Sarah E.,	Private nurse,	Southbridge, Mass.
1917	Cassidy, Martin,	Surgery nurse,	City Hospital, Worcester
1915	Chagnon, Rose,	Private nurse,	23 Gates St., Worcester
1905	Chamberlain, Ebenezer E.,	Tuberculosis Hospital,	Worcester, Mass.
1894	Chamberlin, Ermina L.,	Private nurse,	299 Lincoln St., Worcester
1899	Charteris, Minnie A.,	Physician,	15 Irving St., Worcester
1915	Claffey, Grace E.,	Private nurse,	33 Beaver St., New Britain, Conn.
1897	Clark, Clemmie J.,	Deceased.	
1890	Clark, Elizabeth M.,	Mrs. J. B. Lannon,	San Francisco, Cal.
1910	Clark, Josephine,	Private nurse,	24 Kilby St., Worcester
1902	Cleveland, Vernet E.,	Deceased.	
1893	Clute, Mary E.,	Mrs. F. A. Walker,	39 Forbes St., Worcester
1899	Connor, M. N.,	Private nurse,	541 Pleasant St., Worcester
1917	Cobb, Ethel,	Supervisor,	Whitinsville Hospital, Whitins- ville, Mass.
1894	Cook, Bertha J.,	Deceased.	
1898	Cooper, Edward,	Physician,	15 Midland St., Worcester
1898	Cooper, Herbert,	Physician,	1607 So. 22nd St., Philadelphia, Penn.
1900	Cooper, William,	Private nurse,	17 Wellington St., Worcester
1899	Corey, Elizabeth H.,	Private nurse,	31A Irving St., Worcester
1917	Cormier, Georgina,	Private nurse,	75 Wellington St., Worcester
1908	Cositt, Ethel J.,	At home,	Jaggin Bridge, Digby Co., N.S.
1915	Costello, Dorothy P.,	Mrs. William McLaren,	Chicago, Ill.
1896	Courtney, M. E.,	Mrs. Hugh C. Durning,	53 Irving St., Worcester
1899	Crampton, Carrie K.,	Mrs. George Dolan,	Los Angeles, Cal.
1913	Crepeau, Regina M.,	Private nurse,	Worcester
1909	Crocker, Myrtice E.,	Mrs. W. S. Simonds,	Madison, Maine
1897	Cronkite, Mary J.,	Private nurse.	
*1914	Croshere, Angelina L.,	Private nurse,	32 Blossom St., Leominster
1916	Crotty, Elizabeth,	Private nurse,	13 Wyman St., Worcester
1915	Crotty, Mary,	Private nurse,	Preston St., Worcester
1914	Crouse, Laura,	Asst. Supt. Nurses,	Worcester State Hospital
1916	Crowley, Mae V.,	Mrs. E. P. Jewett,	Gardner, Mass.
1915	Crue, Ella P.,	Mrs. Arthur Bonning,	Chicago, Ill.
1912	Cue, Evelyn,	Mrs. Charles Wolcott,	866 Pleasant St., Worcester
1908	Cullen, Katherine A.,	Private nurse,	390 Millbury St., Worcester

1900	Cunningham, Annie B.,	Private nurse,	299 Lincoln St., Worcester
1910	Cupulo, Isabelle,	Private nurse,	New York
1915	Curran, John,	Private nurse,	9 Harvard Ave., Dorchester, Mass.
1904	Currier, Clara N.,	Private nurse,	Magog, Quebec, Can.
1913	Currier, Hazel M.,	Mrs. Fred McLeroy,	North Leominster, Mass.
1914	Cutter, Gertrude A.,	Private nurse,	14 Dover St., Worcester
1905	Dalton, Helen B.,	Private nurse,	25 Gardner St., Worcester
1910	Danielson, Esther,	Married,	Texas
1907	Davis, Clara L.,	Private nurse,	81 Russell St., Worcester
1905	Davis, Lucy C.,	Private nurse.	
1899	Daley, Julia E.,	Private nurse.	
1911	Dalsell, Fannie S.,	Private nurse,	299 Lincoln St., Worcester
1917	Dee, Katherine C.,	Private nurse,	14 Ormond St., Worcester
1892	Delaney, Annie M.,	Private nurse,	Brookfield, Mass.
1916	Delaney, Elizabeth,	Private nurse,	Worcester
1909	DeMunn, Grace I.,	Private nurse.	
1917	Depatie, Emma,	Private nurse,	9 Tainter St., Worcester
1916	Develin, Mary,	Private nurse,	53 Granite St., Worcester
1909	Dickson, Cecelia A.,	Mrs. H. W. Hersey,	Winchester, Mass.
1901	Dolan, Francis L.,	Private nurse,	Newark, N. J.
1909	Donnelly, Katherine,	Private nurse,	Burlington, Vt., 215 So. Pros- pect St.
1898	Donovan, Frances A.,	Mrs. J. Hartigan.	
1906	Dorgan, Elizabeth V.,	Mrs. Hartnett.	
1916	Douglas, Ethel M.,	Mrs. R. B. Spencer,	Lisbon, N. H.
1899	Dowd, Jessie F.,	Private nurse,	7 Kilby St., Worcester
1902	Downey, J. Francis,	Private nurse,	Cherry Valley, Mass.
1888	Doyle, Hannah A.,	Private nurse,	27 Mt. Pleasant St., Worcester
1896	Doyle, Leonora M.,	Deceased.	
1908	Doyle, Julia M.,	Private nurse.	
1911	Doyle, Madge E.,	Mrs. William Matthews	190 Willard St., Berlin, N. H.
1916	Drohan, Elizabeth,	Private nurse,	Goulding St., Worcester
1904	Drohan, Elizabeth A.,	Private nurse,	22 Main St., Whitinsville, Mass.
1907	Dubrau, Agnes A.,	Mrs. A. S. Fletcher,	Supt. Clinton Hospital, Clin- ton, Mass.
1914	Duckers, John S.,	Private nurse.	
1914	Duckers, Maurice M.,	Private nurse.	
1916	Duguid, Barbara,	Private nurse,	No. Grafton, Mass.
1915	Dunham, Marion,	Social Service Worker,	City Hospital, Worcester
1901	Dunnell, Harriet K.,	Mrs. H. E. Nelson,	8 Arcadia St., Worcester
1885	Durning, Abbie W.,	Mrs. F. H. Barker.	
1905	Eastman, Elizabeth B.,	Mrs. C. A. Barton,	Uxbridge, Mass.
1897	Elliott, Emily,	Mrs. R. D. Southwell,	Reading, Mass.
1895	Emory, Gertrude S.,	Private nurse.	
1895	Evans, Edna A.,	Mrs. W. F. Stevens.	
1910	Ewen, Marion,	Mrs. J. H. Woodruff,	Barre, Vt.
1917	Fanning, Anna C.,	Private nurse,	9 Maple St., Whitinsville, Mass.
1910	Faulkner, Carrie A.,	Mrs. Robert Dinnie,	307 Washington St., Quincy, Mass.
1915	Fairbanks, Gladys,	Private nurse,	63 Lincoln St., Worcester
1894	Farley, Anna C.,	Private nurse.	
1909	Farnham, Daisy B. M.,	Mrs. H. G. Fontaine,	177 Russell St., Worcester
1889	Farquhar, Jeanette B.,	Deceased.	
*1906	Ferguson, Lydia R.,	Army nurse,	France
1893	Flake, Lydia G.,	Private nurse.	

1915	Flagg, Sarah,	Private nurse,	Rochdale, Mass.
1915	Flagg, Effie,	Private nurse,	198 Pleasant St., Worcester
1916	Fleming, Bessie,	Private nurse.	
1914	Fletcher, Caro,	Mrs. John Tidman,	719 Southbridge St., Worcester
1916	Fletcher, Bessie M.,	Private nurse.	
1912	Flodquist, Corrine,	Mrs. B. M. Stevens,	12 Clark St., Worcester
1914	Flynn, Theresa,	Mrs. Thompson,	77 Clarendon St., St. John, N. B.
1915	Folsom, Jennie,	Private nurse.	
1890	Forrest, Annie,	Private nurse,	
1911	Forsman, Esther,	Private nurse,	Worcester, Mass.
1917	Footer, Robert,	Private nurse,	
1908	Frary, Edith M.,	Mrs. E. Shay,	Greenfield, Mass.
1907	Fraser, Maude E.,	Mrs. G. P. Grant,	45 Ballou St., Woonsocket, R. I.
1910	Frayne, Lillian,	Private nurse,	728 14th Ave., Alberta, Can.
*1910	Freeman, Gertrude,	Army nurse,	France
1914	Fuller, Verna M.,	Private nurse,	28 Water St., Putnam, Conn.
1917	Gaffney, Grace S.,	Private nurse,	84 Orchard St., Worcester
1913	Gaffney, Mary E.,	Private nurse,	84 Orchard St., Worcester
1908	Gaines, Mabelle H.,	Private nurse,	American Optical Co., South- bridge, Mass.
1894	Gardner, Ella F.,	Mrs. H. Billings,	Lincoln, N. H.
1917	Gealt, Anna,	Private nurse,	1013 No. Marshall St., Phila- delphia, Penn.
1908	George, Frank S.,	Private nurse,	167 Vernon St., Worcester
1900	Gerrish, Mary A.,	Private nurse.	
1908	Gerrish, Louise N.,	Private nurse,	25 Farwell St., Melrose, Mass.
1888	Gillis, Cora L.,	Mrs. F. A. Wilmarth.	
1903	Girling, Isabel,	Mrs. E. L. Hunt,	120 Lovell St., Worcester
1891	Gleason, Odie J.,	Letter carrier,	1 Laselle St., Worcester
*1901	Glidden, Harriet B.,	Private nurse,	760 Pleasant St., Worcester
1909	Glynn, Katherine E.,	Private nurse,	888 Main St., Clinton, Mass.
1916	Goddard, Clara E.,	Private nurse,	Grafton, Mass.
1911	Goddard, Nabby,	Private nurse,	172 Apricot St., Worcester
1907	Goodnow, Ruth B.,	Mrs. Howard Frost,	16 Norton St., Worcester
1909	Goodwin, Frances E.,	Private nurse.	
1902	Gordon, Bertha S.,	Private nurse,	Vancouver, B. C.
*1897	Gordon, Laura J.	Red Cross Nurse,	France.
1907	Gorman, Margaret N.,	Private nurse,	167 Pleasant St., Worcester
*1913	Gotro, Agnes,	Private nurse,	63 Lincoln St., Worcester
1909	Gotro, Emma,	Mrs. L'Esperance,	575 Fairmount St., Fitchburg, Mass.
1909	Grabert, Katherine J.,	Mrs. L. A. Lamson,	51 Stafford St., Worcester
1909	Graham, Gertrude,	Mrs. Morgan,	785 Pleasant St., Worcester
1913	Gray, Hattie,	Private nurse.	
1910	Greene, Juliet A.,	Private nurse.	
1900	Gridley, Albert A.,	Salesman.	
1900	Gridley, Louis A.,	Salesman,	Springfield, Mass.
1914	Grobby, Catherine A.,	Private nurse.	
1894	Guernsey, Clara J.,	Mrs. O. A. Grow,	Orleans, Vt.
1895	Gulfford, Rose F.,	Mrs. W. Knapp.	
1902	Gustin, Cora,	Private nurse.	
1901	Guthrie, Mary F.,	Private nurse,	23 Stoneland Rd., Worcester
1913	Guthrie, Della M.,	Private nurse,	23 Stoneland Rd., Worcester
1908	Hackett, Grace M.,	Private nurse,	69 Arlington St., Fitchburg
*1914	Hadley, Lexina J.,	Mrs. Cecil D. Wilson,	Wrighttown, N. J.
1909	Hagerstrom, John,	Worcester, Mass.	
1916	Haines, Florence,	Private nurse,	72 Hudson St., Worcester
1909	Hallows, Adella G.,	Mrs. H. D. Abbott,	94 Woodland St., Worcester

1912	Hallows, Sarah,	Private nurse,	26 Monadnock Rd., Worcester
1917	Hammar, Edna,	Private nurse.	161 Conant St., Gardner
1917	Hatch, Jennie L.,	Mrs. William Gagnon,	520 Mass. Ave., Boston
1918	Hatfield, Jane T.,	Private nurse,	63 Lincoln St., Worcester
1916	Haynes, Velma A.,	Private nurse,	42 Park Ave., Worcester
1916	Hayward, Sarah E.,	Private nurse,	471 N. Central St., East Bridgewater, Mass.
1907	Hamm, Ora R. O.,	Mrs. A. S. Jacobs,	Gladstone, Manitoba.
1910	Hanney, Bridget F.,	Private nurse.	
1904	Hawley, A. A.,	Deceased.	
1907	Heath, Mabel,	Private nurse,	Hudson, Mass.
1902	Heffern, Abigail L.,	Married.	
1898	Heffern, C. E.,	Mrs. E. F. Hunt,	3 Robertson Rd., Worcester
1909	Heiser, Hazel R.,	Mrs. Gilman Chase,	260 Church St., Clinton, Mass.
1912	Hemphill, Bertha,	Graduate nurse,	General Hospital, Houlton, Me.
1915	Hennessey, Margaret M.,	Private nurse,	9 Gilbert Lane, St. John, N. B.
1915	Hickox, Alicia F.,	Private nurse.	
1899	Hickox, Ida M.,	Private nurse.	
1914	Hill, Florence M.,	Private nurse,	24 Porter St., Malden, Mass.
1912	Hillier, Ada,	Private nurse,	51 Wellington St., Worcester
1899	Hillier, A. C.,	Mrs. Edward Cooper,	15 Midland St., Worcester
1911	Hillier, Marion A.,	Mrs. William Cooper,	33 Wellington St., Worcester
1908	Hillier, Eliza M.,	Mrs. M. A. Henebery,	587 Cambridge St., Worcester
1918	Hinsley, Edith,	Private nurse,	62 College St., Worcester
1907	Hirtle, Beatrice M.,	Mrs. Wolfred A. Curtis,	Westminster, Mass.
1908	Hodsmyth, Annabelle M.,	Mrs. L. H. Pibus,	Knowlton, P. Q.
1917	Hoglund, Hulda E.,	Private nurse,	142 Washington St., Gardner
1911	Holden, Tena B.,	Private nurse,	Spencer, Mass.
1918	Holden, Ruth E.,	Private nurse,	141 Chandler St., Worcester
*1918	Holmes, Agda P.,	Private nurse,	30 Olga Ave., Worcester
1901	Hopkins, Margaret L.,	Deceased.	
1902	Hooker, William A.,	Entomologist,	U. S. Dept. Agriculture, Wash- ington, D. C.
1892	Howe, Cora B.,	Deceased.	
1889	Howe, Harriet B.,	Private nurse,	Holden, Mass.
1912	Howell, Victoria,	Private nurse.	
1888	Howland, Mary B.,	Private nurse,	29 Walnut St., Fairhaven, Mass.
1895	Hubbard, Katherine W.,	Private nurse,	638 Pleasant St., Worcester
1899	Hubbard, Mary A.,	Mrs. M. H. Darling,	Sunderland, Mass.
1914	Huddleston, Laura E.,	Private nurse,	4160 Sherbrook, West, Mon- treal, Canada
1898	Hunt, C. S.,	Physician,	352 West 51st St., New York
1907	Irish, Lavinia D.,	Private nurse.	
1915	Jacques, Aleda O.,	Private nurse,	23 Lincoln St., Greenfield, Mass.
1890	James, Margaret A.,	Deceased.	
1906	Janes, G. Florence,	Private nurse.	
1889	Jaquith, Lou F.,	Supt. Memorial Hospital,	Worcester, Mass.
1917	Jarvis, Jessie A.,	Private nurse,	Truro, N. S.
1892	Jessamine, Hannah,	Mrs. Charles Pratt.	
1911	Johnson, J. Christine,	Scand. All. Mission,	Pinliang, Kansu, China.
1917	Johnson, Edith,	Mrs. Mason Barnard,	90 Burncoat St., Worcester
1907	Johnson, Julia G.,	Mrs. Howe,	Worcester, Mass.
1917	Jodoin, Alda,	Private nurse,	8 Chrome St., Worcester
1918	Joyce, Thomas,	Student,	Clark College, Worcester
1915	Kavanaugh, Jennie M.,	Private nurse,	167 Stadacona St., Montreal, Canada

1909	Kearney, Katherine Y.,	Mrs. Harry C. Boutelle, 14 Putnam St., Danvers, Mass.
1912	Keegan, Mary,	Private nurse, 41 Eastern Ave., Worcester
1912	Keegan, Mildred,	Private nurse, Shrewsbury, Mass.
1906	Kehoe, Elizabeth A.,	Private nurse, 1044 Main St., Worcester
1900	Kellogg, Carrie M.,	Mrs. John G. McLaughlin, 1056 Arlington Ave., Plainfield, N. J.
1910	Kenney, Mary A.,	Supt. Nurses, Henry Heywood Hospital, Gardner, Mass.
1913	Kerwin, Charles M.,	Physician, 201 East Rosedale Ave., West Chester, Penn.
1901	Kidder, Marie L.,	Private Nurse, Watertown, Mass.
1917	Killam, Annie M.,	Private nurse, Tusket, N. S.
1916	Kimball, Gladys M.,	Private nurse, Worcester, Mass.
1911	King, Elizabeth C.,	Private nurse, Grand Falls, N. B.
1910	King, Gladys R.,	Asst. Supt. Nurses, Muhlenberg Hospital, Plain- field, N. J.
1904	Kirby, Cora K.,	Private nurse, Paxton, Mass.
1901	Kittredge, Mary A.,	Private nurse, Hamminieca Rest, Grafton, Mass.
1913	Klebart, Minnie A.,	District nurse, 29 William St., Worcester
1893	Knapp, Rhoda A.,	Mrs. A. Entwistle, Winsted, Conn.
*1909	Knowlton, Gertrude I.,	Private nurse, North Grafton, Mass.
*1914	Lafamme, Mary R.,	Private nurse, Regan St., Gardner, Mass.
1906	Lambert, Beatrice M.,	Superintendent, Children's Hospital, Portland, Maine
1912	Lane, Gertrude M.,	Private nurse, New London, Conn.
1916	Larson, Florence M.,	Nurse, Cottage Hospital, Holden, Mass.
1901	Lathrop, Jennie L.,	Mrs. Fred Coburn, Homestead Ave., Woonsocket, R. I.
1911	Lavene, Bessie P.,	Mrs. F. H. Hanson, 765 Main St., Worcester
1908	Law, Edith M.,	Married.
1910	Law, Samuel,	Washington Seminary, Washington, D. C.
1915	Lawlor, Agnes M.,	Private nurse, 36 St. Patrick's St., St. John, N. B.
1893	Lawson, Rhoda M.,	Mrs. E. K. Watson, 1160 Main St., Worcester
1907	Lawson, Edna F.,	Private nurse, 23 Gates St., Worcester
1898	Lawton, Carrie M.,	Private nurse.
1917	Leamy, Eva J.,	Private nurse, 185 Nichols St., Gardner
1911	Leary, Margaret M.,	Etherizer, Mass. Eye & Ear Infirmary, Boston, Mass.
1909	Leland, Harriet L.,	Private nurse,
1902	L'Esperance, Oscar R.,	Physician, 100 Boylston St., Boston
1892	Lewis, Cora E.,	Private nurse, 383 Edgewood Ave., New Haven, Conn.
1917	Lindberg, Ellen S.,	Private nurse, 299 Lincoln St., Worcester
1917	Lindselt, Cecelia I.,	Private nurse, 169 Conant St., Gardner
1894	Lister, Mary,	Private nurse, 335 Ashburnham St., Fitch- burg, Mass.
1893	Litch, Lucy M.,	Private nurse, 21 First St., Lowell, Mass.
1883	Little, Floy A.,	Mrs. S. Cochrane, Columbia, South Dakota,
1897	Littlefield, Eva A.,	Private nurse, 6 Kendall St., Worcester
1895	Loring, Lucy M.,	Private nurse.
1916	Love, Grace A.,	Private nurse, 23 Gates St., Worcester
1898	Lowe, Mary M.,	Mrs. C. M. Ford, 19 William St., Worcester
1912	Lundaedt, Hilda,	Private nurse, 227 Lagamore St., Manchester, N. H.
1914	MacAuley, Lena,	Private nurse, 453 Millbury St., Worcester

1915 Mackay, Anna S.,	Private nurse,	102 Tilton Ava., Brockton, Mass.
1911 MacKenzie, Marguerite F.,	Mrs. John E. Mariner,	16 Newhall St., Lynn, Mass.
*1914 MacLean, Hazel,	Asst.	City Hospital, Worcester
*1916 Mader, Muriel R.,	Private nurse,	210 So. Main St., Andover, Mass.
1900 Maguire, Katherine A.,	Private nurse,	60 Vernon St., Worcester
*1918 Mahar, Edna L.,	Private nurse,	210 Austin St., Worcester
1901 Malley, Julia E.,	Mrs. W. F. Brooks,	154 Queen St., Worcester
1896 Mallane, M. E.,	Deceased.	
1902 Malley, Mary F.,	Deceased.	
1914 Maloney, Helen M.,	Mrs. J. F. Curran,	505 Pleasant St., Worcester
1904 Maloney, Mary,	Mrs. M. M. Kimmnett,	18 Wisteria St., Salem, Mass.
1905 Manley, Clara L.,	Mrs. G. M. Floyd,	Hawthorne, Florida
1885 Mantar, Estelle,	Deceased.	
1895 Marcham, Rose,	Deceased.	
1892 Marcy, Mary A.,	Private nurse,	65 Florence St., Worcester
1895 Mariner, Rachel A.,	Mrs. Osgood,	Colorado
1918 Martin, Isabel V.,	Mrs. Bradford Pellett,	Virginia
1895 Martin, Mary E.,	Mrs. S. B. Blood.	
1898 Mather, Alice R.,	Mrs. William Bennett,	Freeland, Michigan
1905 Matthews, Susan,	Private nurse,	Alberton, P. E. I.
1901 Matthews, Harriet J.,	Private nurse,	Alberton, P. E. I.
*1917 Maynard, Helen D.,	Nurse with Harvard Unit,	France
1912 McCahey, Mary E.,	Private nurse,	184 Peabody St., Gardner, Mass.
1914 McCarthy, Helen I.	Private nurse.	
1911 McCarthy, Mary A.,	Private nurse,	45 Crescent St., Middletown, Conn.
1899 McCourt, Margaret,	Mrs. J. H. Woods,	81 Grand St., Worcester
1917 McDermott, Elizabeth L.,	Head nurse,	City Hospital, Worcester
1891 McDermott, Elizabeth J.,	Private nurse.	
1910 McDermott, Mary A.,	Private nurse,	214 West St., Worcester
*1917 McDonald, Katherine,	Private nurse,	23 Chelmsford St., Methuen, Mass.
1917 McDonald, Isabelle,	Private nurse,	48 Belmont St., Worcester
1900 McDonald, Margaret A.,	Deceased.	
1898 McDonald, Mary E.,	Mrs. J. D. Stoops,	1033 Park St., Grinnell, Iowa
1901 McGillicuddy, Nora A.,	Private nurse.	
1897 McGirl, Mary A.,	Deceased.	
1895 McGourty, Alice G.,	Private nurse,	84 Chamberlain Parkway, Worcester
1906 McIver, Katherine A.,	Mrs. G. W. Kay,	98 Allan Pl., Hartford, Conn.
*1913 McKay, Jessie,	Private nurse,	63 Lincoln St., Worcester
1910 McKay, Marion,	District Nurse,	Lisbon, N. H.
1918 McKenna, Ellena,	Private nurse,	Cherry Valley, Mass.
1917 McKinnon, Ruth,	Private nurse,	New Glasgow, N. S.
1898 McLachlan, Mary A.,	Mrs. S. D. Smythe,	Quinnebaug, Conn.
1910 McLean, Dolma	Mrs. William E. Prue,	198 Central St., Springfield, Mass.
*1916 McLean, Helen,	Anesthetist,	City Hospital, Worcester
1901 McLeod, Helen,	Mrs. Noyes,	22 Providence St., Worcester
1905 McMahan, Annie E.,	Private nurse,	Worcester, Mass.
1901 McPhail, Adeline M.,	Private nurse,	Topsheld, Maine.
1910 McWilliams, Frances E.,	Private nurse,	610 West 115th St., N. Y. City
*1917 Melvin, Alma J.,	Red Cross nurse,	Texas
1915 Merritt, Grace E.,	General Assistant,	City Hospital, Worcester
1889 Metcalfe, Rachel A.,	Supt. Central Maine General Hospital,	Lewiston, Me.

*1914	Mayette, Florence,	Private nurse,	Base Hospital No. 2, Fort Bliss, Texas.
1900	Millett, Marie L.,	Mrs. Sampson,	Montford, Quebec
1894	Miller, Christine,	Deceased.	
1891	Millerick Elizabeth,	Private nurse,	20 Alma St., Providence, R. I.
1907	Mills, Leila L.,	Private nurse,	40 Harvard St., Worcester
1900	Milne, Christine,	Private nurse,	1319 Chicago Ave., Evanston, Ill.
1895	Monahan, Ellen H.,	Private hospital,	1920 Race St., Philadelphia, Pa.
1913	Morrisette, Pauline S.,	Private nurse,	Westminster St., Worcester
1917	Morrison, Theresa L.,	Private nurse,	26 Cumberland St., Brun- swick, Maine
*1913	Morse, Alice D.,	Private nurse,	299 Lincoln St., Worcester
1911	Moulton, Lily M.,	Private nurse.	
1911	Munro, Florence M.,	Mrs. R. W. Williams,	48 Chester Ave., Newark, N. J.
1913	Murley, Estelle,	Asst. Supt. nurses,	City Hospital, Worcester
1913	Mullin, Harry J.,	Private nurse.	
1917	Mulvey, Nellie G.,	Private nurse,	West Brimfield, Mass.
1916	Murphy, Katherine,	Private nurse,	7 Blanche St., Worcester
1905	Murray, Bessie L.,	Private nurse.	
1911	Murray, Catherine A.,	Private nurse,	45 Crescent St., Middletown, Conn.
1917	Myrahall, Frances L.,	Graduate nurse,	Henry Heywood Hospital, Gardner, Mass.
1906	Nardi, Delya E.,	Supt. nurses,	Rutland State Sanatorium, Rutland, Mass.
1907	Nelson, Rose,	Married.	
1917	Newton, Lulu J.,	Private nurse,	32 Superior Rd., Worcester
1908	Nickerson, Lloyd G.,	Graduate nurse,	Vandergrith, Pa.
1891	Neilson, Ada E.,	Mrs. Haggood,	120 Belmont St., Worcester
1902	Newcomb, Annie J.,	Private nurse,	917 Main St., Worcester
1892	Norrish, Hattie J.,	Mrs. Arthur Douglas,	2640 Blanchard Ave., Victoria, B. C.
1912	Norton, Emily,	Graduate nurse,	Goodyear Rubber Co., Akron, Ohio
1893	Nourse, Sarah L.,	Deceased.	
1911	Nyquist, Signe,	Supt. nurses,	Isolation Hospital, Worcester
1916	O'Brien, Helen E.,	Burbank Hospital,	Fitchburg, Mass.
*1914	O'Connor, Katherine G.,	Private nurse,	16 Washington St., Fitch- burg, Mass.
1916	O'Connor, Marcella V.,	Private nurse,	8 Wayne Ter., Worcester
1908	O'Donnell, Ava B.,	Private nurse,	New York
1913	O'Keefe, Abbie A.,	Private nurse,	237 Central St., Leominster
1913	O'Keefe, Mary E.,	Private nurse,	Munroe St., Fitchburg, Mass.
1899	Oldham, N. A.,	Private nurse,	California
*1905	O'Malley, Annie L.,	Private nurse,	22 May St., Worcester
1917	O'Neil, Agnes,	Graduate nurse,	Rutland Sanatorium, Rut- land, Mass.
1915	O'Neil, Margaret R.,	Private nurse,	45 Chatham St., Worcester
1888	Orup, Bertha J.,	Mrs. Norina.	
1891	Osborne, Carrie A.,	Physician,	145 Woodland St., Worcester
1894	Packard, Flora B.,	Deceased.	
1908	Packard, Helena G.,	Mrs. W. H. Cook,	24 Massasoit Road, Worcester
1911	Park, Emma F.,	Mrs. H. F. Gerald,	2441 Brown St., Omaha, Neb.
1914	Parker, Maud M.,	Private nurse,	15 Magnolia St., Dorchester, Mass.

1885	Partridge, Kate F.,	Worcester
1913	Partridge, Ruth,	Augusta, Maine
1886	Patenaude, Annie E.,	Private nurse.
1914	Pattee, Grace E.,	Mrs. Roy T. Munger, Fanwood, N. J.
1899	Pearce, Emma,	Private nurse, 203 Tremont St., Orange, N.J.
1895	Peltier, John A.,	Deceased.
1906	Pellett, Annie M.,	Mrs. George W. Mann, Phillippine Islands
*1915	Pennington, Pearl W.,	Private nurse, Presque Isle, Maine
1893	Perry, Annie,	Private nurse.
1917	Perry, Helen A.,	Private nurse, 121 Seventh St., Leominster
1899	Pine, Mildred M.,	Mrs. J. H. Frates, 101 St. Paul St., Brookline, Mass.
1908	Pine, Emily,	Superintendent, Frost Hospital, Chelsea, Mass.
1914	Pinkham, Beatrice,	Night Supervisor, Dover, N. H.
1905	Pinkham, Marcella M.,	Private nurse, 15 Goulding St., Worcester
1899	Pirie, Harriet A.,	Private nurse, Worcester
1910	Platt, Adah J. S.,	Private nurse, 414 Chandler St., Worcester
1916	Poole, Mary R.,	Private nurse, Westmoreland Rd., St. John, New Brunswick
1914	Pratt, Anna,	Mrs. John W. Odlin, Torrey Fort Lane, Worcester
1893	Pratt, Lizzie J.,	Private nurse, R.F.D., No. 18, Jefferson, Mass.
1905	Pritchard, Dolores,	Mrs. F. W. George, 756 Pleasant St., Worcester
1909	Prue, William E.,	Nurse, 198 Central St., Springfield, Mass.
1891	Pryde, Jennie,	Married, Boston
1892	Quirk, Katie A.,	Mrs. J. J. Murphy, 6 Glenwood St. Worcester
1897	Rand, Ethel A.,	Married, St. Luke's Hospital, New York City
1898	Randall, J. L.,	Private nurse.
1912	Ray, Maude L.,	Mrs. H. L. MacLaren.
1911	Read, Helen,	Private nurse, 299 Lincoln St., Worcester
1904	Reed, Ida M.,	Private nurse, New York City
1907	Reeves, Alice M.,	Mrs. William Fales, 40 Freeland St., Worcester
*1913	Regan, Lillian,	Private nurse, 299 Lincoln St., Worcester
1908	Renaud, Anna F. M.,	Married.
1916	Richards, Frances K.,	Private nurse, 4 State St., Brewer, Maine
1902	Richardson, Frances A. P.,	Private nurse, 68 Merrick St., Worcester
1911	Richardson, Charles E.,	Private nurse, Boston, Mass.
1902	Ridley, Maude L.,	Private nurse, 17 Hollywood St., Worcester
1900	Ridley, Winifred M.,	Private nurse.
1898	Rinehardt, Agnes M.,	Mrs. Charles Howland, Gardner, Mass.
1911	Rivers, Lena,	Mrs. Hamilton Bunce, Atlanta, Georgia.
1909	Roberts, Katherine M.,	Mrs. George Webster, Dayville, Conn.
1898	Rockwell, Ellen M.,	Mrs. Eugene A. Wheelock, 159 Austin St., Worcester
1898	Rockwood, Annie E.,	Private nurse, 21 Kilby St., Worcester
1909	Rockwood, Bessie L.,	Mrs. Mitchell, Shrewsbury, Mass.
1897	Ronayne, Margaret L.,	Mrs. Maher, Chatham St., Worcester
1901	Rose, Annie B.,	Private nurse.
1917	Rowley, Ruth F.,	Nurse, Burbank Hospital, Fitchburg, Mass.
1911	Royce, Annie E.,	Private nurse.
1893	Sadler, Addie S.,	Mrs. L. H. Scott, 17 Russell St., Worcester
1908	Samuelson, Augusta W.,	Mrs. George Perry, 20 Catharine St., Worcester
1909	Sargent, Alline M.,	Married.
*1915	Sargent, Marion,	Private nurse, Merrimac, Mass.
1905	Sawyer, Virginia	Mrs. F. C. Martin, 722 Pleasant St., Worcester
1888	Scott, Annie G.,	Mrs. D. Rougie, 655 Grafton St., Worcester

1907 Schofield, Minnie ^r M.,	Surgery nurse,	City Hospital, Worcester
1915 Seagrave, Edith K.,	Private nurse,	Uxbridge, Mass.
1910 Shaw, Ethel B.,	Private nurse,	Whitinsville, Mass.
1899 Shaw, Lottie P.,	Deceased.	
1915 Shaw, Margaret ^r L.,	Private nurse,	130 Hyde Park Ave., Jamaica Plain, Mass.
1899 Shaw, Sarah A.,	Private nurse,	Springvale, Maine
1917 Shea, Marion G.,	Private nurse,	30 Winfield St., City
1915 Sheen, Mae V.,	Private nurse,	53 Trumbull St., Worcester
1905 Sheldon, Lillian M.,	Office nurse,	2420 Harney St., Omaha, Neb.
1916 Sidener, Mary T.,	Mrs. G. H. Abercrombie	405 Parkway Building, Phila- delphia, Pa.
1890 Silver, Mary E.,	At home,	Windsor, Vt.
*1916 Sincusky, Josephine,	Head nurse,	City Hospital, Worcester
1896 Skinner, Florence L.,	Mrs. Reed,	Fitchburg, Mass.
1907 Sloat, Mary E.,	Married,	Holton, Maine
1890 Smith, Addie J.,	Private nurse.	
1910 Smith, Elizabeth,	Private nurse.	
*1917 Smith, Helen A.,	Nurse,	U. S. Navy, Newport, R. I.
1900 Smith, Maude M.,	Mrs. C. B. Moore.	
*1910 Smith, Isabel I.,	Married,	Base Hospital, Nogales, Ariz.
1906 Smith, Harold W.,	Physician,	Groton, Mass.
1887 Smythe, Minnie E.,	Mrs. J. E. Durston,	R. D., Lamson, N. Y.
1891 Snure, Rose,	Deceased.	
1897 Spaulding, Carrie L.,	Mrs. Blanchard,	Peterboro, N. H.
*1907 Stakelum, Mary L.,	Private nurse.	
1916 Stanley, Maude A.,	Night Supervisor,	Henry Heywood Memorial Hospital, Gardner, Mass.
1917 Stevens, Mildred,	Private nurse,	254 Pearl St., Manchester, N. H.
1902 Stevens, Katherine L.,	Private nurse,	299 Lincoln St., Worcester
1907 Steeves, Della V.,	Mrs. C. O. Coburn,	Manchester, Mass.
1908 Steeves, Olivia K.,	Mrs. E. A. Schoch,	20 Dufferin St., Monston, N.B.
1902 Street, Mary A.,	Mrs. Thomas Joslyn.	
1899 Strong, Annie B.,	Private nurse,	677 Tremont St., Boston, Mass.
1905 Stuart, Nellie E.,	Private nurse.	
1898 Stump, Jean L.,	Private nurse.	
*1910 Sullivan, Catherine,	Army nurse,	Base Hospital, Nogales, Ariz.
1916 Sweet, Maude I.,	Private nurse,	47 Ash St., New Bedford, Mass.
1908 Sweetser, Dora M.,	Mrs. E. R. Molt.	
1886 Swift, Elizabeth F.,	At home,	Andover, Mass.
1910 Symonds, Margaret,	Private nurse,	343 Aashburnham St., Fitch- burg, Mass.
1894 Taber, Ida H.,	Private nurse,	81 Florence St., Worcester
1906 Toothaker, Helena M.,	Supt. of nurses,	Manhattan Eye & Ear Hospi- tal, New York City
1902 Toothaker, Mary I.,	Private nurse,	190 Park Ave., Worcester
1907 Thompson, Louise M.,	Supt. nurses,	Muhlenberg Hospital, Plain- field, N. J.
1914 Tilton, Ruth A.,	Private nurse,	Plum Tree Rd., Springfield, Mass.
1907 Tougas, Emma C.,	Mrs. William Hanna,	Brainerd, Minn.
1911 Treadwell, Annie ^r L.,	Private nurse,	866 Pleasant St., Worcester
1911 Trout, Ida C.,	Mrs. Harold N. Williams	24 Chester Apts., Brockton, Mass.
1898 Tucker, Henrietta ^r K.,	Private nurse,	385 Aashburnham St., Fitch- burg, Mass.
1897 Turner, Peter L.,	Deceased.	

1912 Twaddle, Arthur	Private nurse.	
1910 Underwood, Bessie A.,	Private nurse,	5 King St., Worcester
1901 Underwood, Maude L.,	Private nurse,	5 King St., Worcester
1900 Upham, Mary F.,	Private nurse,	Leicester, Mass.
*1916 Vail, Gertrude M.	Private nurse,	26 Gates St., Worcester
1907 Veitch, Mary A.,	Married,	Clinton
1914 Vigeant, Annie,	Private nurse,	15 Magnolia St., Dorchester
*1915 Vigus, Lillian M.,	Private nurse,	68 Lincoln St., Worcester
*1915 Vinton, Frances D.,	Private nurse,	68 Lincoln St., Worcester
1910 Walden, Susan,	Private nurse,	18 Forest Park Ave., Spring- field, Mass.
		Pittsfield, Maine
1905 Walker, Elizabeth,	Private nurse,	
1900 Wagner, Amelia L.,	Deceased.	
1911 Wahlquist, Walfred,		203 Scott St., Bennington, Vt.
1891 Wallace, Minnie J.,	Deceased.	
1911 Walsh, Helen M.,	Private nurse,	27 Hitchcock Rd., Worcester
1889 Warren, Lydia A.,	At home,	West Auburn, Mass.
1911 Warren, Mabel L.,	Private nurse,	6 Freeland St., Worcester
1904 Webb, Gertrude B.,	Resident nurse,	Worcester Academy, Worcester
1911 Wedderburn, Ethel,	Private nurse,	Hampton, N. B.
1910 Weid, Maud A.,	Private nurse,	1 Northampton St., Worcester
1909 Welch, Mary A.,	Private nurse,	22 Pond St., Clinton, Mass.
1916 Westwood, Helen M.,	Private nurse.	
1904 Wheaton, Eliza A.,	Private nurse,	Newbury, Vt.
1904 Wheelock, Nancy M.,	Married.	
1908 Whippe, Hattie M.,	Mrs. Ward,	45 Oak St., Waterville, Me.
1912 Whitecher, Emma,	Private nurse.	
1908 Whitcomb, Nettie J.,	Mrs. Edward Jerome,	Leicester, Mass.
1913 White, Amelia,	Nurse,	Corey Hill Hospital, Boston
1905 White, Esther O.,	District nurse,	Leicester, Mass.
1909 White, Ida M.,	Private nurse,	Gildersleeve, Conn.
1897 Whitney, Mary L.,	Supt.,	Ware Hospital, Ware, Mass.
1915 Whiton, Ida I.,	Graduate nurse,	Rufus S. Frost General Hospi- tal, Chelsea, Mass.
		51 Cherry St., Spencer, Mass.
1904 Withrow, Minnie A.,	Private nurse,	406 Massachusetts Ave., Bos- ton, Mass.
1909 Wilbur, Ethel A.,	Private nurse,	299 Lincoln St., Worcester
		Truro, N. S.
*1914 Weir, Ruth E.,	Private nurse,	727 Pleasant St., Worcester
1917 Whidden, Mary D.,	Private nurse,	299 Lincoln St., Worcester
1911 Williams, Annie L.,	Mrs. Peter Fleming,	
1913 Williams, Grace E.,	Private nurse,	
1913 Wixon, Augustus,	Student.	
*1917 Wolcott, Charles J.,	Nurse,	U. S. Army
1896 Wood, Ada F.,	Mrs. G. W. Hastings,	5 Rexhame Rd., Worcester
*1914 Woodworth, Harriet R.,	Private nurse,	23 Gates St., Worcester
1906 Wray, Margaret A.,	Mrs. Cook.	
1911 Wright, Annie R.,	Mrs. J. B. Doyle,	Canal Zone, Panama
1911 Wright, Emma,	Asst. Supt. Nurses,	State Hospital, Worcester
1914 Wright, Delia,	Private nurse,	45 Chatham St., Worcester
1912 Wright, Grace,	Married,	Akron, Ohio
1911 Wyman, Ellen G.,	Married,	Worcester, Mass.
1903 Young, Emma E.,	Private nurse,	1359 Grafton St., Worcester
1908 Young, Anna,	Private nurse,	76 Belmont St., Worcester
1911 Young, Ethel,	Mrs. E. W. Aldrich,	12 Crystal St., Worcester

*Enlisted in the Service.

LIST OF PHYSICIANS WHO HAVE SERVED AS HOUSE
OFFICERS

1913	Charles R. Abbott,	Clinton	1896	Charles D. Gildersleeve,	Norwich, Conn.
*1917	Winthrop Adams,	Charlestown Navy Yard	1915	Jeremiah A. Greene,	Cambridge
1916	Benjamin F. Andrews,	Worcester	1886	Ray W. Greene,	Worcester
1915	Henry G. Armitage,	Haverhill	*1914	S. Carlton Gwynne,	Worcester
1913	Charles E. Ayers,	Worcester	*1912	Gilbert W. Haigh,	Worcester
1891	Frederick H. Baker,	Worcester	1902	Downey L. Harris,	St. Louis, Mo.
1908	Gordon Berry,	Worcester	1917	Francis D. Hart,	Worcester
*1907	Edward B. Bigelow,	Worcester	1911	Henning V. Hendricks,	Traverse City, Mich.
1912	George F. H. Bowers,	Worcester	1910	Harold W. Hervey,	Winchester
1910	Arthur H. Boyden,	Worcester	1914	William F. Holzer,	Winchendon, Mass.
1894	Edwin H. Boynton,	Deceased	1908	Park R. Hoyt,	Laconia, N. H.
1914	Daniel C. Brennan,	Akron, Ohio	1903	Ernest L. Hunt,	Worcester
*1917	Edwin S. Bridges,	France	1909	Hjorleifur T. Kristjanson,	Providence, R. I.
1905	Charles S. Bridgham,	Tacoma, Wash.	1917	Everett P. Jewett,	Gardner
1901	Frederick H. Bryant,	Worcester	*1917	Linwood H. Johnson,	Charlestown Navy Yard
1913	George A. Buckley,	Brockton	1890	Lyman A. Jones,	North Adams, Mass.
1910	Edson B. Buker,	Bethel, Maine	1910	Clarence G. Lane,	Woburn
1909	Edward A. Bullard,	Brooklyn, N. Y.	1902	William E. Leighton,	St. Louis, Mo.
1903	Benjamin T. Burley,	Worcester	1910	Forrest L. Leland,	South Hadley Falls, Mass.
*1915	Arthur W. Burnham,	Norwich, Vt.	1887	George W. H. Libby,	Deceased
1912	Claudius J. Byrne,	Worcester	*1913	George C. Lincoln,	Worcester
1901	William Campbell,	Deceased	1912	Serafin M. Loreda,	Deceased
*1909	Arthur W. Carr,	Bridgewater	1905	W. Russell MacAusland,	Boston
1908	Gilman L. Chase,	Clinton	1883	H. Goodwin MacKaye,	Deceased
1915	Harold A. Chamberlin,	No. Abington	1899	William C. Mackie,	Boston
1888	Leonard B. Clark,	Waverly	1906	Frank L. Magune,	Worcester
1889	Walter T. Clark,	Deceased	*1908	John B. Manning,	Seattle, Wash.
1896	Charles F. Connor,	New Bedford	1899	Fred D. McAllister,	Lawrence
1907	Clarence O. Coburn,	Manchester, N. H.	1893	Robert J. McKenzie,	Cambridge
1904	Philip H. Cook,	Worcester	1901	William W. McKibbin,	Worcester
*1911	George P. Corcoran,	Springfield	1914	Arthur O. McLaughlin,	Haverhill
1914	John F. Curran,	Worcester	1911	Alexander J. McRae,	Wilkesbarre, Pa.
1897	Edward F. Curry,	Fall River, Mass.	1888	Rufus Moulton,	Deceased
*1913	Edmund J. Daley,	Bayonne, N. J.	1890	Clarence W. Pelton,	Deceased
1894	Charles A. Davenport,	Newton	1913	Ralph S. Perkins,	Exeter, N. H.
1905	George E. Deering,	Worcester	1897	Roscoe D. Perley,	Melrose
1900	George A. Dix,	Worcester	1909	Sherman Perry,	Tewksbury
1885	Franklin M. Eaton,	Calais, Maine	*1917	Walter L. Perry,	U. S. Army
*1896	Richard D. Eaton,	Kings Park, N. Y.	1894	Appleton H. Pierce,	Leominster
1893	Louis Edmonds,	Deceased	1895	Frank R. Plummer,	Malden
*1906	Herbert W. Ellam,	Gardner, Mass.	1908	Lucius B. Pond,	Easthampton
*1915	James H. Erlenbach,	Hartford, Conn.	*1904	Ernest F. Pope,	Spokane, Wash.
1895	John M. W. Farnham,	Worcester	*1917	Arthur O. Raymond,	English Army
1906	George B. Fenwick,	Chelsea, Mass.	1911	Arthur S. Reebel,	Deceased
1909	Arthur S. Fletcher,	Deceased	1911	Thomas E. Reilly,	Marlborough
1892	Carlton S. Francis,	Brookline	1908	Carl E. Richardson,	Franklin
*1916	Irving W. Fraim,	Waltham	1903	Albert J. Roberts,	Deceased
1907	F. Leon Gage,	Lowell	1899	Albert W. Rounds,	Providence, R. I.
*1904	Frank W. George,	Worcester	*1916	Roger W. Schofield,	Worcester
1911	Herbert F. Gerald,	Omaha, Neb.			
1884	Albert C. Getchell,	Worcester			

1911	Otis F. Simonds,	Dorchester	1886	Herbert A. True,	Boston
*1915	Edward B. Simmons,	Worcester	1889	Edward R. Utley,	West Newton, Mass.
1898	Richard D. Small,	Portland, Maine	1906	William H. Walker,	Hartford, Conn.
*1916	Ernest E. Smith,	Webster, Mass.	1898	William J. Walton,	Boston
1907	Alfred W. Southgate,	Deceased	1891	William F. Whitmarsh,	Bridgewater
1898	Fred M. Spaulding,	Boston	1892	Raymond S. Wilder,	Cambridge
1914	William D. Sproat,	Deceased	1900	Charles D. Wilkins,	New Orleans, La.
1902	Albert E. Steele,	Roslindale	1887	Frederick A. Wilmarth,	Deceased
1900	Henry F. Swift,	Hathorne	1910	John H. Woodruff,	Barre, Vt.
1905	William L. Thompson,	New York City	1917	Woodward, Leroy A.,	Worcester
1906	Harold F. Thompson,	Deceased	1909	Walter H. Young,	Dedham, Mass.
1895	George A. Tripp,	Worcester			

*Enlisted in the Service.

REPORT OF THE COMMISSIONERS OF THE JAQUES FUND AND OTHER FUNDS OF THE CITY HOSPITAL OF WORCESTER, MASS.

To the Honorable City Council, Worcester, Mass.:—

Gentlemen: In compliance with the provisions of Chapter 14, Section 6, of the Revised Ordinances of 1909, the undersigned, Commissioners of the Jaques Fund and other funds of the City Hospital, have carefully examined the assets and liabilities belonging to said funds and beg to submit the following report of their transactions on account of the aforesaid funds in their charge for the financial year ending November 30, 1917, together with a detailed account of the different trust funds held by them on the above date.

Balance November 29, 1916.....	\$286,073.31
New Funds established.....	5,851.26
Receipts for the year.....	13,804.03
	\$305,728.60
Payments for the year.....	13,804.03
	\$291,924.57
Balance November 30, 1917.....	\$291,924.57

Respectfully submitted,

FRANCIS H. DEWEY,
FRANK A. DRURY,

*Commissioners of the Jaques Fund and other funds of the
City Hospital.*

Worcester, December, 1917.

REPORT OF THE TREASURER OF TRUST FUNDS OF THE CITY HOSPITAL

Office of the City Treasurer,
Worcester, Mass., Dec., 1917.

To the Commissioners of the Jaques Fund and other funds of the City Hospital:—

Gentlemen: As Treasurer of your Board, the undersigned submits the following statement in detail of the City Hospital Trust Funds at the close of the financial year, November 30, 1917.

Loans on real estate.....	\$243,447.10
Deposited in Savings Banks.....	38,098.25
Deposited in National Banks.....	2,779.22
13 shares B. & M. R. R. stock*.....	1,300.00
33 shares, N. Y. C. & H. R. R. R. stock.....	3,300.00
Boston Elevated St. Ry. 5's.....	3,000.00
	\$291,924.57

*This stock was a part of the original bequest and has always since been carried at its par value of \$100 a share.

During the fiscal year just ended the funds of the City Hospital have been increased by the following bequests:

Under will of Solomon Wolfe, \$5,851.26.

The following is a detail of the Funds represented by above investments, also receipts and expenditures for the year ending November 30, 1917.

Name of Fund	Created	Amount	Receipts	Expenditures
Isaac Davis	1873	\$5,000.00	\$200.00	\$200.00
George Jaques	1874	192,833.31	9,491.88	9,491.88
Albert Curtis	1876	1,000.00	40.00	40.00
John B. Shaw	1877	2,000.00	80.00	80.00
Joseph A. Tenney	1881	5,000.00	200.00	200.00
Stephen Salisbury	1884	5,500.00	220.00	220.00
Joseph Sargent	1886	500.00	20.00	20.00
Edwin Conant	1892	1,500.00	60.00	60.00
Mary E. D. Stoddard	1892	5,117.90	185.68	185.68
Elbridge G. Partridge	1894	1,500.00	60.00	60.00
David M. McIntire	1896	5,150.00	206.00	206.00
Benjamin Walker	1898	1,000.00	40.00	40.00
Lewis Barnard	1899	1,500.00	60.00	60.00
Maria G. Wilson	1902	6,500.00	260.00	260.00
Harriet P. F. Burnside	1904	3,000.00	150.00	150.00
Julia B. Thayer Nurses' Home	1906	9,847.25	490.00	490.00

Julia B. Thayer	1906	19,694.50	957.90	957.90
Alice Taft Farnum	1912	430.35	17.20	17.20
Alfred Heinsheimer	1913	1,000.00	40.00	40.00
Harriet D. Brown	1914	8,000.00	381.09	381.09
Lucy W. Rice	1915	5,000.00	250.00	250.00
Henry F. Harris	1916	5,000.00	250.00	250.00
Solomon Wolfe	1917	5,851.26	144.28	144.28
		<hr/>	<hr/>	<hr/>
		\$291,924.57	\$13,804.03	\$13,804.03

Respectfully submitted,

H. C. SMITH,
Treasurer.

JAQUES FUND AND OTHER HOSPITAL FUNDS

Detail of Bank Deposits

	Mechanics National	Worcester Bank and Five Cents Trust Co.	Worcester Savings	Wor. Co. Institution for Savings	Mechanics Savings	People's Savings
Isaac Davis			1,000.00	1,000.00		3,000.00
George Jaques	1,786.21					
Albert Curtis				1,000.00		
John B. Shaw						2,000.00
Joseph A. Tenney			1,500.00	1,500.00	1,000.00	1,000.00
Stephen Salisbury			1,000.00	1,000.00	1,000.00	2,500.00
Joseph Sargent					500.00	
Edwin Conant						1,500.00
Mary E. D. Stoddard						517.90
Elbridge G. Partridge				1,000.00		500.00
David M. McIntire			500.00	2,150.00	1,000.00	1,500.00
Benjamin Walker					1,000.00	
Lewis Barnard			1,000.00			500.00
Maria G. Wilson						6,500.00
Thayer Nurses' Home	47.25					
Thayer Hospital	994.50					
Alice Taft Farnum						430.35
Alfred Heinsheimer					1,000.00	
Harriet D. Brown						
Lucy W. Rice						
Henry F. Harris						
Solomon Wolfe		851.26				
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	1927.96	851.26	5,000.00	7,650.00	5,500.00	19,948.25

ANNUAL REPORT
OF
**Parks and Recreation
Commission**

OF
WORCESTER, MASS.

1917

WITH STATEMENT OF RECEIPTS AND
EXPENDITURES

FOR THE

YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

To the Honorable the City Council of the City of Worcester:—

Gentlemen: I have the honor to submit, herewith, the report of the Parks and Recreation Commission for the year 1917. This is the first annual report of this board.

This board came into being on May 15th, 1917 and took over the work of the board of Park Commissioners and the Playground Commission, which were abolished in pursuance of an Act of the Legislature contained in Chapter 204 of the Acts of 1917.

It is no reflection on the former boards, of which this board is, in effect, a consolidation, to say that the wisdom of the consolidation has been amply demonstrated in the seven months in which this board has been in existence. There has been more work done on the Park and Playground system this year than before in a single year. The grounds and the buildings have been put into better condition than they have been for a long while. Efficiency is being put into the several departments and the business management of Mr. Holland, our director, is becoming clearly manifest.

Green Hill mansion has had the special attention of the Commission. The exterior of the mansion, with building, sheds and stables, has been painted, tin roofs and gutters have been repaired, new ceilings have been put into the hall, custodian's office, and in two rest rooms, and other necessary work done on the interior of the building. Green Hill mansion to-day is in a better condition than it was when it was taken over by the city or has been at any time since it has been in the city's possession.

East Park, being on the highway through Worcester, between Boston and New York, has not been creditable in appearance to a city of the standing of Worcester. The erection of 560 feet of iron fence planned by the old board of Park Commissioners, which we have erected at a cost of \$1,400.00, the reshingling and painting of all buildings on the Park, the planting of flowers and shrubs, and a general tidying up, has made a noticeable improvement.

A proper wading pool, with a two foot concrete wall the entire distance around it, has been built at Crompton Park. This will do away with the unfortunate condition existing in this Park in the past where the wash from the oiled streets and surface water from the entire Park formerly ran into the wading pool. This sediment settling in the bottom of the pool has been anything but sanitary for the thousands of children using that pool during the summer.

The installing of 378 feet of 8-inch sewer pipe, four catch

basins with the proper sewer connections, will give much better drainage and do away with the long delay in using the athletic fields in this much congested portion of the city after a heavy rain.

Three hundred and ninety-eight feet of iron fence has been erected on the Cambridge Street side of the South Worcester playground, which has added greatly to the appearance of the field as well as a protection to the people who have had many narrow escapes in running from this playground into the street which has a large automobile traffic.

A modern wading pool with a concrete wall has been constructed at University Park, doing away with the unsanitary condition which formerly prevailed at the swimming pool in this Park, from which there formerly had been many complaints.

A hot water heating plant has been installed in the recreation building at Beaver Brook. It gives excellent satisfaction and makes the building comfortable for public uses as a community center.

The buildings in Institute Park, which were in bad condition, have been repaired, reshingled, and painted; in fact practically every building on the parks and playgrounds has been painted this year, some of which have not received this attention for over ten years.

The Zoo at Lake Park has been put in better condition by having new yards with proper wire fencing, which is an improvement both in appearance and for safety, and water connections have been made to the yards, adding both to the comfort of the animals and lessening the burdens of the caretakers.

On many of the parks and playgrounds there has been a general planting of shrubs and bulbs which will be apparent in the beautifying of these places next year.

These few instances will serve to show the character of the activities of the department in maintenance and construction work this year.

The most important work which should be undertaken for the coming year, outside of maintenance, is the building of new sanitary lavatories in our parks and playgrounds. It is a disgrace to the city of Worcester that on some of our parks there is slight provision made for toilets of any kind, and on the few parks where we have sanitary lavatories they are in bad condition both in materials and construction. These buildings should be removed and replaced with better and more modern appliances. Where there are not sanitary lavatories they should be built. Our public parks

and playgrounds are being used more and more each year by the people and it is imperative that there be proper sanitary conveniences.

The stone tower at Institute Park is closed to the public as it is so badly in need of repair as to be a danger. This tower could be put in condition at a cost of about \$800.00, which must be done at once or otherwise the structure will be a ruin. The bridge connecting the small Island at Institute Park is also closed to the public as dangerous. The underpinnings of one of the stone piers has settled and is about to topple over and unless this work is done this spring it will entail a much greatly increased cost.

The old brick dwelling house at Burncoat Park is a splendid type of the old Colonial house. The interior should be put in repair and the house either rented or fitted up as a museum or for other city purposes.

The same should be done with the old farmhouse at Boynton Park which now has the windows and doors boarded up. The entire place has the appearance of an abandoned farm. In this condition it is of no use. With a few repairs this house could be used in the summertime by some charitable organization doing Fresh Air work among the tired mothers and the ill-nurtured children and enough revenue obtained for at least the upkeep of the buildings.

The shelter at Vernon Hill playground has never had proper sewer connections. The present cesspool should be done away with. It is hoped this can be done this year. Other work is necessary at Vernon Hill, both for the development and the beautifying of this splendid tract of land which provides park and recreation features for a large territory.

A combination wading and swimming pool has been recommended for South Worcester playground. During the summer the total average attendance of this playground was 419. This refers to children only and not to the large numbers of grownups who used this playground for recreation purposes. Crompton Park is the only playground in the city showing a larger daily attendance. In the absence of shade trees this playground should by all means have a place where the children could romp and splash in the hot weather, both for their own enjoyment and for sanitary effect.

Besides the parks there were thirteen playgrounds and two swimming beaches in use during the season of 1917. The average attendance on the playgrounds of children was 4,955; on the swimming beaches, 1,754. The entire enrollment on playgrounds and swimming beaches was 6,949. The largest attendance on the two swimming beaches was

Thursday, August 20th, when there were 6,320 in the water that day. The largest attendance on playgrounds on any one day was on Wednesday, August 8th, with an attendance of 6,494.

The forestry work has been well carried on this year and proper attention paid to this important work for beautifying the city and for the comfort of its people. Sixty acres of parks and playground land were used for garden purposes by the people of the city. Excellent results in these gardens were obtained. The lots varied in size from 2,000 to 4,000 feet. The popularity of the gardens is evidenced by the inquiries for the same reservations for another year.

Slight increases in wages to most of the employees of the department have been necessary and just. This additional expense should not be overlooked in making the appropriation of the department. Increases in labor alone will amount to \$4,000 more than last year.

The department has under its control the two bathing beaches, one at Indian Lake and the other at Bell Pond, where it maintains bathhouses for both men and women, at which places it employs men and women instructors in swimming. It also maintains a bathing beach at Lake Park, at Lake Quinsigamond. There is a demand that there should be an instructor at that point which we will consider for next year.

This department does not control the bathhouses of the city for men and women between the causeway and Regatta Point. These bathhouses are under the control of the Board of Health. They were put under the control of that board at the time they were established because there was no other body at that time that could properly take care of them or to whom they could naturally be assigned. The Board of Health desires that the Parks and Recreation Board take over these bathhouses as they can be administered better by this department charged with that special form of work than they can by the Board of Health to whom they are naturally a burden.

This department believes these bathhouses should come under its control and recommends to your Honorable Body that such transfer be made.

Respectfully submitted,
BOARD OF PARKS AND RECREATION
COMMISSION,
GEORGE F. BOOTH, *Chairman.*

REPORT OF PARKS AND RECREATION COMMISSION

*To the Honorable Mayor and City Council of the City of
Worcester:—*

In accordance with the requirements of the City Ordinances, the Parks and Recreation Commission herewith submit their financial report of receipts and expenditures for the year ending November 30, 1917.

RECEIPTS

BALANCES, NOVEMBER 30, 1916

Park Appropriation Account.....	\$9.05	
Wm. A. Richardson Park Fund.....	372.45	
Golf Account.....	29.33	
Boynton Park Fund.....	77.53	
Option Account.....	445.00	
Forestry Appropriation.....	418.06	
	\$1,851.42	\$1,851.42

APPROPRIATIONS

Annual Appropriation for Parks.....	\$40,000.00	
Forestry Appropriation.....	6,500.00	
Transfer, Golf Account.....	2,000.00	
	\$48,500.00	\$48,500.00

REVENUE

Wm. A. Richardson Park Fund.....		\$8,862.05
Edw. L. Davis Lake Park Fund.....		1,086.05
Forestry Appropriation Account		
Forestry Special and City Department Work....	\$1,107.58	
Rent of automobile.....	405.04	
	\$1,512.62	\$1,512.62
Golf Account, clubhouse and refectory returns.....		1,890.98

Park Appropriation Account:

Sale of waterfowl.....	2.00	
Sale of plants, Greenhouse.....	31.10	
Sale of cobblestones, Green Hill Park.....	204.00	
Sale of standing grass and grass seed, Green Hill Park.....	111.78	
Sale of posts, Green Hill Park.....	1.00	
Sale of wood, Hadwen Park.....	45.00	
Sale of scrap rubber and gasoline.....	1.15	
Sale of catalogues, Green Hill Mansion Museum...	5.10	

Permit fees, Green Hill Mansion	78.00	
Check Room fees, etc., Elm Park	59.75	
Boathouse returns, Green Hill Park	149.05	
Refectories: Green Hill, Institute, Lake	3,876.89	
Wages unclaimed returned . . . . .	.73	
Damages to bubbler, Elm Park	3.26	
Credit, electric fixtures, Green Hill Mansion	45.42	
Rent of automobile	458.32	
Rent of camp site, Green Hill Park . . . . .	.38	
	<hr/>	
	\$5,072.88	5,072.88
Total Receipts		<hr/>
		\$68,276.00

EXPENDITURES

Superintendence	\$1,726.84
Clerical service	1,830.53
Labor, pay roll	84,698.60
Labor, bills payable	82.63
Amphitheatre, Elm Park (contract)	237.77
Annual report	153.93
Bird houses	25.13
Boats	557.02
Bond of superintendent	5.40
Books and periodicals	10.65
Bulbs and seeds	636.05
Car tickets	24.50
Cement and sand	41.67
Civil engineering	152.92
Damages and injuries	76.20
Drinking water equipment	28.45
Electric wiring	451.31
Fence, Draper Field (contract)	1,400.00
Fertilizer and loam	190.78
Flags and poles	115.35
Fuel	834.49
Hardware, glass, etc	436.56
Insurance	93.84
Landscape architect	606.57
Lights maintenance	2,236.35
Live stock	14.45
Lumber	624.80
Motor gasoline and oil	572.17
Motor hire	1,710.97
Motors cost and miscellaneous supplies	1,256.22
Office supplies	278.94
Oiling drives	463.73
Paints and oils	293.42
Park animals, feed	762.09
Photographs and maps	194.23
Piping and plumbing	376.15
Printing and publishing	59.45
Registry of deeds	20.00
Rent and taxes of golf links	643.26
Salable supplies, refectories	5,457.11
Sanitary supplies	95.22

Signs and uniforms	170.70	
Sports, equipment and supplies	100.70	
Street sprinkling	2,739.33	
Team hire	1,222.11	
Telephone	164.58	
Tools	1,011.33	
Travelling expenses	141.10	
Vehicles and harness	108.80	
Veterinary, horse shoeing, etc.	95.13	
Working animals, feed	460.70	
Work. Equipment and supplies, buildings	623.91	
	<hr/>	
	\$27,634.40	27,634.40
		<hr/>
Total Expenditures		\$66,364.70

PARK EXPENDITURES, 1917

Park	Amount	Maintenance	Improvement
Boynton	\$137.83	\$89.78	\$48.05
Burncoat	3,414.98	2,317.88	1,097.05
Chandler Hill	3,334.92	1,568.90	1,766.02
Common	2,766.83	2,608.55	158.28
Crompton	1,204.61	1,182.49	22.12
Dodge	152.53	152.53	.....
Elm	5,987.81	5,178.79	809.02
Golf Links	4,325.65	4,325.65	.....
Grant Square	87.74	87.74	.....
Green Hill Park	6,770.78	4,838.89	1,931.89
Green Hill Boathouse	666.89	109.87	557.02
Green Hill Mansion	2,206.86	2,206.86	.....
Green Hill Toboggan	2,718.99	2,567.31	151.68
Refectories	3,656.50	3,656.50	.....
Hadwen	1,578.66	1,546.10	32.56
Institute	1,742.02	1,411.37	330.65
Lake	3,985.83	3,537.07	448.76
North Shore Reservation	36.54	2.34	34.20
Salisbury	556.27	556.27	.....
University	2,077.01	1,925.19	151.82
Shade Trees	3,848.58	3,848.58	.....
Forestry, Special and City Department			
Work	631.88	631.88	.....
Nursery	1,600.71	1,600.71	.....
Greenhouse	972.16	972.16	.....
General Labor and Equipment	1,541.65	1,218.25	323.40
Vacations	1,095.56	1,095.56	.....
Motor Vehicles	2,081.13	2,081.13	.....
Working Animals	875.13	875.13	.....
Park Supplies	2,193.54	2,193.54	.....
Annual Report	153.93	153.93	.....
Bond of Superintendent	5.40	5.40	.....
Superintendence	1,726.84	1,726.84	.....
Clerical Service	1,830.53	1,830.53	.....
Car Tickets	17.00	17.00	.....
Office Supplies	216.20	216.20	.....

Printing and Publishing	37.51	37.51	.....
Travelling Expenses	127.75	127.75	.....
Total Expenditures, 1917	\$66,864.70	\$58,502.18	\$7,862.52

RECAPITULATION

Total Receipts, 1917			\$68,276.00
Total Expenditures, 1917			66,864.70
Balance, November 30, 1917.....			\$1,911.30
Divided as follows:			
Park Appropriation.....	\$100.00		
Wm. A. Richardson Park Fund.....	473.86		
Option Account	445.00		
Edw. L. Davis Lake Park Fund.....	571.76		
Golf Account	6.60		
Forestry Appropriation.....	314.08		

Respectfully submitted,

PARKS AND RECREATION COMMISSION,

GEORGE F. BOOTH,

CHARLES L. ALLEN,

JOHN J. MCCOY,

HARRY WORCESTER SMITH,

JAMES LOGAN,

GEORGE S. BARTON,

ADRIAN VANLEEUVEN.

By GEORGE F. BOOTH, *Chairman.*

**FINANCIAL REPORT, SHOWING RECEIPTS AND EXPENDITURES
FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1917
PLAYGROUND DEPARTMENT**

RECEIPTS

Balance, December 1, 1916.....		\$89.00	
Appropriation for 1917.....		24,000.00	
Revenue:			
Tennis nets destroyed.....	\$9.00		
Rent of tenements.....	207.50		
Returned cement bags.....	11.84		
Deposits for gardens.....	80.00		
Sale of volley ball.....	4.75		
Sale of loam.....	10.00		
Sale of filling.....	2.75		
Wages returned, error.....	2.42		
For labor and material used in getting football and soccer fields ready for high school games.....	46.14		
Sale of old boat.....	5.00	379.40	
Total Receipts.....			\$24,468.40

EXPENDITURES FOR MAINTENANCE AND ACTIVITIES

Automobile (new).....	\$154.70
Automobile hire.....	22.50
Automobile upkeep.....	284.16
Automobile garage rent.....	60.00
Brown-tail moth extermination.....	25.60
Carfares and travelling.....	106.58
Compensation, Kerrigan.....	320.00
Equipment, special.....	235.95
Equipment, general.....	191.82
Expense, general.....	201.84
Fertilizer.....	25.75
Fuel.....	63.89
Gardens, plowing, etc.....	90.50
Insurance.....	85.74
Light, metered.....	18.48
Office supply and expense.....	254.33
Photography.....	30.75
Printing, annual report.....	105.94
Repairs to equipment.....	36.79
Repairs, general and paints.....	2,283.27
Salaries and wages:	
Caretakers.....	3,202.14
Directors and assistants.....	4,626.47
Extra labor.....	2,036.89
Janitors and watchman.....	298.00
Stenographer and extra office help.....	759.05
Supervisor and director.....	2,180.15
Shop rent.....	25.00
Spring baseball.....	123.80
Supplies:	
Athletic.....	300.54
Basketry.....	159.94

Medical.....	17.96
Music.....	14.55
Sand.....	132.50
Sewing and knitting.....	235.66
Street watering.....	118.28
Team labor.....	143.51
Telephones.....	9.90
Trucking and express.....	127.87
Water, metered.....	3.00
Winter recreation.....	73.00

Total Expenditures for Maintenance and Activities.....	\$19,186.80
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EXPENDITURES FOR CONSTRUCTION AND PERMANENT IMPROVEMENTS

Beaver Brook.....	\$889.82
Greenwood (purchase of land, \$307.75)...	837.75
Kendrick Field.....	3.55
South Worcester.....	1,161.52
Vernon Hill.....	49.05
Crompton.....	1,102.96
University.....	448.37

Total Expenditures for Construction and Permanent Improvements.....	4,493.02
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Total Expenditures.....	23,679.82
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Balance.....	\$788.58
Outstanding Bill, Balance on Heating Contract.....	84.45
Net Balance.....	\$704.13

Respectfully submitted,

PARKS AND RECREATION COMMISSION,

GEORGE F. BOOTH,
 CHARLES L. ALLEN,
 JOHN J. McCOY,
 HARRY WORCESTER SMITH,
 JAMES LOGAN,
 GEORGE S. BARTON,
 ADRIAN VANLEEUVEN.

By GEORGE F. BOOTH, *Chairman.*

REPORT
OF THE
Chief of Police

FOR THE
YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF THE CHIEF OF POLICE

OFFICE OF THE CHIEF OF POLICE,
Worcester, Mass., Dec. 1, 1917.

To the Honorable City Council of the City of Worcester:—

Gentlemen: I have the honor to submit my annual report for the fiscal year ending November 30th, 1917.

During the year, the following improvements have been made in the service:

1. The establishment of Precinct Four at 44 Grove Street on March 22, 1917.
2. The appointment of twenty additional patrolmen, and two policewomen.
3. Contracts made for modern police signals at Precincts One and Four.
4. Placing of twenty-five additional "Silent Police" traffic signals at intersecting streets.
5. The purchase of a new engine for motorboat at Lake Quinsigamond.

I would recommend the following improvements for the year 1918:

1. The purchase of two patrol wagons to replace two which were bought in 1911 and which are becoming expensive to maintain in the service.
2. The addition of twenty patrolmen to better police outlying districts and extend the traffic zone.

Respectfully submitted,

GEORGE H. HILL,
Chief of Police.

BOOKKEEPER'S REPORT

	SALARIES ACCOUNT.	MISCELLANEOUS ACCOUNT.	CLOTH ACCOUNT.	NEW STATION
Balances unexpended Nov. 30, 1917.....	\$1,047.88	\$44.46	\$2.57	\$104,775.98
Annual appropriation for 1917.....	280,000.00	24,000.00	.....	.....
Additional appropriations.....	7,500.00	4,000.00	.....	.....
Loans.....	.....	.....	.....	85,000.00
Revenue received in 1917.....	20,219.26	2,147.85	1,006.59	199.67
Total amounts appropriated.....	\$308,767.14	\$30,192.31	\$1,009.16	\$189,975.65
Total amounts expended.....	307,572.81	30,182.90	975.76	106,355.57
Balances unexpended Nov. 30, 1917.....	\$1,194.33	\$9.41	\$38.40	\$83,620.08
Balance unexpended in Salaries Account.....	\$1,194.33			
Balance unexpended in Miscellaneous Account.....		9.41		
Balance unexpended in Cloth Account.....			38.40	
Balance unexpended in N. P. Sta. Account.....				83,620.08

NEW APPOINTMENTS DURING YEAR 1917

RANK	NAME	APPOINTED
Patrolman	James J. McTiernan	December 18, 1916
Patrolman	William P. Finneran	July 2, 1917
Patrolman	Jeremiah F. Shea	July 2, 1917
Patrolman	Leon F. Moody	August 14, 1917
Patrolman	John F. Welch	October 8, 1917
Reserve Patrolman	Levi C. R. Ekstrom	October 8, 1917
Reserve Patrolman	George B. Murray	October 8, 1917
Reserve Patrolman	John J. O'Connor	October 8, 1917
Reserve Patrolman	Wm. J. Fitzgerald	October 8, 1917
Reserve Patrolman	Maurice J. Wall	October 8, 1917
Reserve Patrolman	Andrew F. O'Brien	October 8, 1917
Reserve Patrolman	Daniel F. Carroll	October 8, 1917
Reserve Patrolman	Aldo Cederlund	October 8, 1917
Reserve Patrolman	Wm. J. McGrath, Jr.	October 8, 1917
Reserve Patrolman	Henry Henrickson	October 22, 1917
Reserve Patrolman	Alfred A. Rodier	October 22, 1917
Reserve Patrolman	Thomas F. Ruane	October 22, 1917
Reserve Patrolman	John J. O'Connor	October 22, 1917
Reserve Patrolman	Walter R. O'Day	October 22, 1917
Reserve Patrolman	James Mulvey	October 22, 1917
Reserve Patrolman	Albin V. Spongberg	October 22, 1917
Reserve Patrolman	Michael F. O'Reilly	October 22, 1917
Reserve Patrolman	Oscar W. Johnson	October 22, 1917
Reserve Patrolman	David T. Porrell	October 22, 1917
Reserve Patrolman	James F. Nagle	November 26, 1917
Policewoman	Mary E. Tracey	April 23, 1917
Policewoman	Jennie M. Rice	April 23, 1917
Surgeon	Robert J. Northridge	November 1, 1917

LOSS TO THE DEPARTMENT

Patrolman	Albert T. Wall	Resigned Oct. 12, 1917
Patrolman	Thomas W. Welch	Resigned Oct. 20, 1917
Reserve Patrolman	Leslie L. Akers	Resigned Nov. 2, 1917
Surgeon	Joseph A. Smith	Resigned Nov. 1, 1917
Patrolman	James O'Connor	Pensioned June 21, 1917
Patrolman	John Dunn	Pensioned June 21, 1917
Patrolman	Joseph S. McCarthy	Pensioned July 2, 1917

ON LEAVE OF ABSENCE DURING WAR

Patrolman	Thomas F. Foley	Patrolman	Evald G. Jacobson
Patrolman	Timothy J. Kelley	Patrolman	Philip D. Bergstrom
Patrolman	Maurice A. Kelliher	Patrolman	Emmanuel J. Johnson
	Reserve Patrolman	Albin V. Spongberg	
	Reserve Patrolman	Levi C. R. Ekstrom	
	Patrolman	Chas. W. P. Friend	

ON THE POLICE PENSION PAYROLL

NAME	RANK WHEN RETIRED	DATE RETIRED
David A. Matthews	Chief	March 13, 1913
Amos Atkinson	Deputy Chief	June 12, 1912

NAME	RANK WHEN RETIRED	DATE	RETIRED
Matthew J. Walsh	Lieutenant	June	27, 1912
John O'Connor	Patrolman	October	23, 1913
James J. Tierney	Patrolman	October	10, 1912
James Donahue	Patrolman	March	13, 1914
Edson Fairbanks	Patrolman	June	18, 1912
Michael J. Foley	Patrolman	June	22, 1912
John Keyes	Patrolman	June	18, 1912
John B. Legasey	Patrolman	June	22, 1912
Frank W. Millett	Patrolman	May	22, 1912
Patrick F. Ryan	Patrolman	June	12, 1912
Herbert N. Streeter	Patrolman	June	22, 1912
Michael F. Cody	Patrolman	October	23, 1913
Genery T. Darling	Patrolman	November	13, 1913
Michael G. Donahue	Patrolman	October	23, 1913
John Walker	Patrolman	January	6, 1914
James O'Connor	Patrolman	June	21, 1917
John Dunn	Patrolman	June	21, 1917
Joseph S. McCarthy	Patrolman	July	2, 1917
Alfred A. Sanderson	Ambulance Attendant	June	29, 1914
Daniel E. Burbank	Janitor	December	31, 1915

COMMENDED FOR EXCELLENT POLICE DUTY DURING THE YEAR 1917

Aubertin, Howard A.	January	12, 1917
Bianchi, John L.	January	12, 1917
Butcher, Edwin C.	January	12, 1917
Foley, Thomas F.	January	12, 1917
Fogarty, Patrick J.	January	12, 1917
Hanlon, Arthur F.	January	12, 1917
Herman, Benjamin	September	20, 1917

COMMENDED FOR EXCELLENT POLICE DUTY PREVIOUS TO YEAR 1917

George H. Hill	April	4, 1895
Ernest Proctor	May	6, 1907
James B. McKenna	April	9, 1909
Thomas P. Carey	November	19, 1909
James J. Casey	December	11, 1909
Fred P. Good	December	11, 1909
Thomas F. Beatty	April	12, 1910
Gustaf Fyrberg	May	17, 1910
Thomas F. O'Donnell	February	1, 1913
Thomas E. Brennan	March	21, 1915
Gustaf Fyrberg	May	23, 1915
James H. Dolan	July	17, 1915

COMPENSATION

Number	Rank	Per Annum
1	Chief of Police	\$3,000.00
1	Deputy Chief of Police	2,300.00
4	Captains of Police	1,800.00
6	Lieutenants of Police	1,600.00
8	Detective-Lieutenants	1,600.00
18	Sergeants of Police	1,400.00

Number	Rank	Per Annum
3	Surgeons	1,400.00
2	Matrons	700.00
240	Patrolmen, rate of pay as follows:	
	First 6 months,	\$17.75 per week
	Next 12 months,	\$19.50 per week
	After 18 months,	\$21.25 per week
	After 30 months,	\$23.00 per week

TRAFFIC SIGNS IN VARIOUS PARTS OF CITY

NUMBER	LOCATION	NUMBER	LOCATION
5	Central Street	5	Austin Street
5	Exchange Street	4	Chatham Street
3	Waldo Street	4	Pleasant Street
5	Foster Street	5	Pearl Street
6	Front Street	5	Elm Street
5	Mechanic Street	4	Maple Street
3	Bridge Street	5	Walnut Street
4	Spring Street	11	Main Street
6	Myrtle Street	1	Lincoln Square
4	Federal Street	3	Semaphores for Main Street
4	Madison Street		
6	Southbridge Street	—	
5	Chandler Street	108	Total

POLICE SIGNAL BOXES

PRECINCT ONE

No. of Box	LOCATION
222	Convenience Station
21	City Hall
15	Austin and High streets
321	Park Avenue and Chandler
322	Pleasant and Fruit streets
35	Tatnuck Square
51	Mechanic and Commercial streets
52	Washington Square
53	Shrewsbury and East Central streets
54	Lake Quinsigamond
55	Shrewsbury and Putnam Lane
512	Front and Spring streets
521	Plantation and Wells streets
522	Locust Avenue and Anna Street
531	Trumbull Square

PRECINCT TWO

7	Hope Avenue and Southbridge Street
12	Harlem and Sterling streets
13	Gold and Sargent streets
14	Greenwood and Upland streets
15	Southbridge and Southgate streets
16	Quinsigamond Avenue and Canton Street
121	Stearns Square
122	Cambridge and Washburn streets
123	Quinsigamond Avenue and Millbury Street
124	Millbury and Maxwell streets
125	Millbury and Falmouth streets

No. OF BOX	LOCATION
134	Upsala and Louise streets
144	Opposite 44 Esther Street
131	Millbury and Endicott streets
132	Providence and Winthrop streets
133	Granite Street Orphanage
134	Vernon Square
136	Perry Avenue and Suffield Street
141	Grafton Street and Farrar Avenue
142	Green and Gold streets
143	Suffolk and Norfolk streets
513	Grafton Square
521	Union Square

PRECINCT THREE

12	Canterbury and Grand streets
212	Main and Crystal streets
213	Webster Square
214	Cambridge and Camp streets
223	Grandview Avenue and Abington Street
25	Park Avenue and Maywood Street
26	Circuit Avenue and Lisbon streets
22	Chandler and Irving streets
23	Beacon and Lagrange streets
24	May and Woodland streets
221	Madison Square
231	Tainter and Gardner streets

PRECINCT FOUR

31	Lincoln Square
32	North and Grove streets
33	Precott Street and Redding Ct.
34	Highland and Lancaster streets
312	Park Avenue and Salisbury Street
313	Highland and Russell streets
314	Fruit and Dayton streets
323	Newton Square
42	Lincoln and Catherine streets
43	Hanover and Glen streets
44	Belmont and Elizabeth streets
45	Vinson Street and Santon Avenue
413	Brittan Square
451	West Boylston and Brooks streets
41	Main and Central streets
412	Prospect Street and Eastern Avenue
421	Summer Street and East Central Street

DETECTIVE BUREAU

GEORGE H. HILL, *Chief of Police*:—

Dear Sir: I submit the following report of the Detective Bureau for the year ending November 30, 1917.

One thousand four hundred and eighty cases have been reported to this department from our Worcester citizens and other police departments throughout the country and a lot of minor cases not herewith noted.

The Detective Bureau has made two hundred and thirty-seven arrests.

The value of the lost and stolen property reported to us, \$118,893.26; amount recovered and returned, \$97,478.76.

Respectfully submitted,

PATRICK O'DAY,
Captain of Detectives.

SURGEON'S REPORT

GEORGE H. HILL, *Chief of Police*:—

Dear Sir: We have the honor to submit the following report of services performed by this department for the year ending November 30, 1917.

EMERGENCY AMBULANCE

Taken to	December	January	February	March	April	May	June	July	August	September	October	November	Total
City Hospital..	61	60	43	72	67	52	60	73	78	51	55	39	711
Home.....	23	29	7	20	16	13	26	25	38	39	14	21	271
Morgue.....	7	5	12	3	6	5	7	11	19	2	7	8	92
St. Vincent's...	4	3	3	1	2	..	3	9	4	3	..	4	36
Memorial.....	...	2	1	2	1	1	2	...	1	1	..	1	12
Station One...	15	18	5	18	9	12	13	16	12	7	12	12	149
State Hospital.	1	2	..	...	...	1	...	1	...	...	..	1	6
No Service....	2	2	2	1	...	4	...	...	...	1	..	..	12
Totals.....	113	121	73	117	101	88	111	135	152	104	88	86	1289

TRANSIENT EMERGENCY CASES

Treated at	December	January	February	March	April	May	June	July	August	September	October	November	Total
Station One.....	78	77	75	90	58	70	65	106	98	70	67	52	906

Total number of cases handled, 2,195.

Emergency, 1,289

Transient, 906

Respectfully submitted,

RICHARD J. SHANNAHAN, M. D.,

LOUIS R. CASSELS, M. D.,

ROBERT J. NORTHRIDGE, M. D.

CRIMES.	Males.	Females.	Juveniles.	Totals.
Abandoning	1			1
Accessory before the Fact, breaking, enter- ing and larceny	1			1
Accessory before the fact, rape	1			1
Accosting	1			1
Adultery	31	24		55
Aiding prisoner to escape	2			2
Allowing minors in pool room	2	1		3
Arson	4			4
Assault and battery	276	14	2	292
Assault with intent to kill	4			4
Assault with weapon	14	1		15
Assault on officer	1			1
Assault with intent to rob	2			2
Bail bond	2			2
Begetting with child	30			30
Bigamy	2			2
Blackmail, attempt at	1			1
Breaking and entering	62		57	119
Breaking and entering, attempt at	3		3	6
Breaking glass	10	1	4	15
Capias	10			10
Carrying dangerous weapon	48	2	5	55
Concealing mortgaged property	1			1
Contempt of Court	2			2
Cruelty to animals	16			16
Defacing building	1			1
Defrauding hotel	3			3
Delivering articles to prisoners	2			2
Deserter	10			10
Desertion	8	2		10
Disturbing meeting	1			1
Disturbing the peace	294	37	16	347
Disturbing theatre	1		1	2
Driving away team	2		4	6
Disorderly house	5	4		9
Drunkenness	6,802	347	8	7,157
Drunk capias	1			1
Embezzlement	1			1
Escaped prisoner	39	7	26	72
Evading hackney fare	2			2
Evading railroad fare	7		1	8
False weight	3			3
Forging birth certificate		1		1
Forgery			1	1
Fornication	29	34	1	64
Fugitive from Justice	8	1	2	11
Gaming, or present at	199		7	206
Gambling	32		1	33
Grand larceny	1			1
Incest	1			1
Indecent assault	1			1
Indecent exposure	11			11
Indecent language	2		1	3
Illegal practice of medicine		3		3

CRIMES—Continued.	Males.	Females.	Juveniles.	Totals.
Insane.....	20	7		27
Interfering with railroad signal.....	3			3
Keeping liquor.....	19	6		25
Keeping common nuisance.....	2			2
Keeping open shop.....	2	2		4
Keeping unlicensed dog.....	8	1		9
Keeping unlicensed stable.....	1			1
Keeping pawnshop without license.....	1			1
Larceny.....	261	42	72	375
Larceny, attempt at.....	7		2	9
Larceny from person.....	3	1		4
Lewdness.....	1	1		2
Lewd and lascivious cohabitation.....	19	17	2	38
Loitering in depot.....	2			2
Maintaining lottery.....	6			6
Malicious mischief.....	7		6	13
Murder.....	5	1		6
Neglect to assist police officer.....	1			1
Neglected children.....			40	40
Neglect to support.....	131	2		133
Night walker.....		1		1
Non-payment of wages.....	1			1
Operating automobile while under the influence of liquor.....	25			25
Operating motorcycle while under the influence of liquor.....	1			1
Obcene pictures.....	2			2
Obstructing doorway.....	1			1
Peddling without license.....	6			6
Polluting lake.....	1			1
Polygamy.....	1			1
Promoting lottery.....	1			1
Rape.....	9			9
Rape, attempt at.....	1			1
Receiving stolen goods.....	16		1	17
Riding freight without permit.....	8			8
Riding street car without permission.....	3			3
Robbery.....	15	2		17
Robbery, attempt at.....	6			6
Runaway.....	11	3	61	75
Selling cigarettes to minors.....	2	1		3
Selling conditional property.....	1			1
Selling snuff to minors.....	1			1
Selling horse unfit for work.....	1			1
Selling tobacco to minors.....	1			1
Setting bonfire.....	6			6
Sharing proceeds of prostitute.....		1		1
Sodomy.....	1			1
Stragglers from U. S. Army.....	14			14
Stubborn child.....	6	4	16	26
Surrendering bail bond.....	2			2
Suspicious person.....	4		1	5
Superior Court capias.....	12	3		15
Taking automobile.....	7		2	9
Truant.....			23	23

CRIMES—Continued.	Males.	Females.	Juveniles.	Totals.
Trespass	16		6	22
Threatening	2	1		3
Vagrants	128	23	5	156
Violation of				
Alien law	1			1
Automobile law	550	6	5	561
Bail bond	2			2
Boat light law	1			1
Bicycle law	1			1
City Ordinance	93	3	19	115
Coal law	1			1
Drug law	1			1
Drug law (Chap. 386)	1			1
Fertilizer law	1			1
Food law	10	7		17
Game law	10			10
Labor law	14			14
Light law	49		-4	53
Milk law	3			3
Park rule	9	1	1	11
Parole	6		3	9
Pool room law	3			3
Probation	28	4	14	46
Rule of Board of Health	11			11
School law	10	4	1	15
Sundry law	4			4
Traffic rule	262	2	1	265
Theatre law	2			2
U. S. Uniform law	2			2
Weights and measures	8			8
Walking on railroad	14	4	9	27
Wayward child			1	1
Witness	2			2
Total				10,967
REPORT OF COURT OFFICERS				
Arrests	9,908	629	485	10,967
Arrests on bail bond	1			1
Arrests on capias	28	2	1	31
Arrests on warrants	622	85	34	741
Arrests without warrants	9,252	542	400	10,194
Discharged without arraignment	5,162	207	3	5,372
Discharged without complaint	10		4	14
Discharged on examination	277	39	15	331
Paid fines	1,381	51	26	1,458
Placed on file	665	73	63	801
Taken on probation	229	25	115	369
Committed to				
Insane hospital	36	9	1	46
House of Correction	636	86		672
Reformatory for men	3		1	4
Reformatory for women		3		3
Jail	8			8

CRIMES—Continued	Males.	Females.	Juveniles.	Totals.
Jail, on bail bond	1			1
State farm	440	38		478
Worcester County Truant School			2	2
State Board of Lunacy and Charity			26	26
State Industrial School for Boys			3	3
State Industrial School for Girls			2	2
Lyman School			7	7
Training School			15	15
Died in cell	1			1
Died in City Hospital	2			2
Held for Grand Jury	176	8	9	193
Appealed to Superior Court	644	93	28	765
Appealed and bailed	4			4
Dismissed	1			1
Delivered to out-of-town officers	165	18	86	269
Continued	9	21	23	53
Delivered to Superior Court	11	2		13
Defaulted	37	6		43
Sent home	5		6	11
Officers as witnesses				3,032

PATROL SERVICE

Called	8,687	Sick or injured	117
Miles	20,351½	Traffic lights	9
Arrests	5,689	Dead bodies	7
Station 1	539	Investigations	2
Jail	603	Seizure	7
Fire	317	State Hospital	31
False fire alarms	3	Superior Court	5
Police business	657	Depot	182
Disturbance	33	Witness	23
Ropes	10	Home Farm	1
Lost children	4	No service	438
Stolen property	10		

AMBULANCE SERVICE

Called	3,918	Dead bodies	73
Miles	12,452½	Prisoners	7
Sick	2,560	No service	161
Injured	1,117		

MISCELLANEOUS DUTIES OF OFFICERS

Accidents reported	5
Burglaries reported	24
Buildings found open	819
Disturbances suppressed	1
Disorderly house	1
Defect in street	111
Defect in sidewalk	642
Defective waterpipe	5
Defective sewers	4

Fire alarms given.....	2
Fire extinguished without alarm.....	1
Lost children restored.....	15
Gas not burning at.....	26
Electric not burning at.....	464
Notices served.....	186
Water running to waste.....	3

APPARATUS

	Prec. 1	Prec. 2	Prec. 3	Prec. 4
Motor Patrol Wagons	3	1		
Motor Ambulance	1			
Motor Truck	1			
Touring Car	1			
Motorcycles	3	2	1	2

The sub-station at Lake Quinsigamond is equipped with a motorboat and boat-house for same, also two rowboats, and a bicycle.

ARRESTS FOR DRUNKENNESS FOR THE PAST
TWENTY-NINE YEARS

1889 License.....	2,981	1903 License.....	3,481
1890 No license.....	2,054	1904 License.....	3,669
1891 License.....	2,894	1905 License.....	3,581
1892 No license.....	2,719	1906 License.....	3,860
1893 License.....	3,275	1907 License.....	4,014
1894 License.....	2,747	1908 No license.....	2,497
1895 License.....	2,738	1909 No license.....	2,485
1896 License.....	3,158	1910 License.....	3,764
1897 License.....	3,158	1911 License.....	4,617
1898 License.....	3,010	1912 License.....	4,850
1899 License.....	3,375	1913 License.....	5,513
1900 License.....	3,781	1914 License.....	5,432
1901 License.....	3,524	1915 License.....	5,638
1902 License.....	3,326	1916 License.....	6,318
		1917 License.....	7,157

Respectfully submitted,

GEORGE H. HILL,
Chief of Police.

REPORT OF TRUSTEES

OF

Independent

Industrial Schools

FOR THE

YEAR ENDING NOVEMBER 30, 1917



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

TRUSTEES

GEORGE I. ALDEN,
JOHN M. BUCKLEY,
CHARLES F. MARBLE, } Terms expire January 1, 1918.

LOUIS H. BUCKLEY,
CORNELIUS J. CARMODY,
GEORGE N. JEPSON, } Terms expire January 1, 1919.

THOMAS J. LYNCH,
JOHN B. MOSS,
WILLIAM WATTIE, } Terms expire January 1, 1920.

ORGANIZATION

President, LOUIS H. BUCKLEY

Vice-President, GEORGE I. ALDEN

Clerk, CHARLES F. MARBLE

COMMITTEE ON RULES

GEORGE N. JEPSON

GEORGE I. ALDEN

CHARLES F. MARBLE

FINANCE COMMITTEE

LOUIS H. BUCKLEY, *Ex-Officio*

CHARLES F. MARBLE

CORNELIUS J. CARMODY

COMMITTEE ON INSTRUCTORS

LOUIS H. BUCKLEY, *Ex-Officio*

GEORGE I. ALDEN

JOHN B. MOSS

JOHN M. BUCKLEY

WILLIAM WATTIE

COMMITTEE ON GIRLS' SCHOOL

CHARLES F. MARBLE

CORNELIUS J. CARMODY

WILLIAM WATTIE

COMMITTEE ON BUILDING TRADES

JOHN M. BUCKLEY

THOMAS J. LYNCH

JOHN B. MOSS

COMMITTEE ON EVENING CLASSES

GEORGE I. ALDEN

GEORGE N. JEPSON

JOHN B. MOSS

INSTRUCTORS

BOYS SCHOOL—DAY

ALBERT J. JAMESON.....	Director
JOHN P. CASEY.....	Machine Shop Instructor
GUSTAF A. JOHNSON	}
GUSTAF E. ANDERSON	
JOSEPH B. DOBIE	
FRANCIS E. LAVERTY	
HARRY A. MANN	}
MILAN G. TWICHELL.....		Wood Shop Instructor
WILMOT A. KNOLLIN	}
SAMUEL HOLT	
HENRY P. MILLS		Wood Shop Practice
ALPHONSE J. SANGUINET	}
JOHN D. O'DRISCOLL.....		Paint Shop Instructor
HARRISON B. FOSKETT.....	Printing Instructor
MICHAEL J. KANE	}
DAVID G. MONAHAN		Electrical Instructors
WALTER E. SEWARD	}
HENRY PHILLIPS	
LOREN A. JACOBS		Steam Engine Practice
HOMER E. COMTOIS	}
FRED B. MOODY		Mechanical Drawing
JOHN D. COONEY.....	Civics and Cost Accounting
EDGAR P. NEAL.....	Mathematics and Science
G. ADOLPH JOHNSON.....	Drawing
JOHN E. MURRAY.....	English
ANSON M. VIBBERT.....	Mathematics and Drawing
ANNA L. METCALF.....	Registrar and English and History
ANNA W. LONG.....	Assistant in English
BERTHA M. NICHOLS.....	Librarian and Assistant in English
JOHN E. RILEY.....	Physical Instructor

BOYS SCHOOL—EVENING

LOREN A. JACOBS.....	Supervisor
G. ADOLPH JOHNSON.....	Assistant Supervisor and Drawing
CARL G. FLYGARE	}
CHARLES J. HULTMAN	
GUSTAF A. JOHNSON	
GUSTAF E. ANDERSON	
FRANCIS E. LAVERTY	
JOSEPH DOBIE	
MILTON FREEMAN	}
ELBRIDGE D. TURNER.....		Assistant to Machine Shop Instructor
SAMUEL HOLT	}
WILMOT A. KNOLLIN	
HENRY P. MILLS	
ALPHONSE J. SANGUINET	
BENJAMIN WAINWRIGHT.....		Assistant to Wood Shop Instructor
DAVID G. MONAHAN	}
ANSON M. VIBBERT	
MICHAEL J. KANE		Electrical Work
PAUL L. SAFFORD.....	Assistant to Electrical Instructor
HARRISON B. FOSKETT	}
MARTIN HURLEY		Print Shop Instructors
WALTER E. SEWARD	}
HERBERT F. PUTNAM		Gas Engine Practice
ROBERT J. BUTLER.....	Assistant to Gas Engine Practice
HENRY PHILLIPS	}
MARTIN SHEARY	
HOMER E. COMTOIS		Steam Engine Practice
FRED B. MOODY	}
JASPER RUSTIGIAN.....		Mechanical Drawing
JASPER RUSTIGIAN	}
CHARLES H. KINGSTON	
WALTER E. SHOEBER.....		Estimating and Drawing for Brick Layers
JOHN S. ALLEN.....	Architectural Drawing
BERTHA M. NICHOLS.....	Shop Mathematics
	Radio and Buzzer Operator
	Registrar

INSTRUCTORS IN GIRLS SCHOOL—DAY

HELEN R. HILDRETH.....	Director
MIRIAM ABBOT	}
FLORENCE E. RICHARDSON	
BEATRICE C. CLARKE	
SVEA BOSON		Assistants
GERTRUDE M. BROWN	}
MARGARET LOVELL.....		Academic Subjects
FRANCES HEALEY.....	Art
	Physical Education

EASTER I. HAMILTON	}	Cooking
M. GERTRUDE QUINN			
FRANCES M. GOGGIN			
EFFIE A. BAILEY	}	Millinery
LUCY A. OSBORNE			
HARRIET A. MOREY	}	Power Machine Operating
CLARA B. ROBERTS			
ELLEN E. FERNANE			
BLANCH MARCHESSEAU			
EVELYN LAFOND			
HENRIETTA A. CORLISS			
MARY A. MCMANUS			
MABEL C. WHITTIER	}	Sewing
MARY A. DOOLEY			
DOROTHY M. CLARKE			
ANNIE MASSON			
ETTA L. KEHOE	}	Homemaking
FLORENCE E. MOSS			

INSTRUCTORS IN GIRLS SCHOOL—EVENING

GERTRUDE M. BROWN	Assistant Supervisor	
DOROTHY M. GORMAN	}	Millinery
RUTH KRONOFF			
ELIZABETH THOMPSON			
CATHERINE SULLIVAN			
MARY A. WILLIAMS			
FLORENCE E. ALLEN	}	Sewing
ANNIE T. BATTLE			
AGNES F. DUCEY			
MARGARET C. EAGAN			
KATHERINE FLYNN			
MARGARET HALLEY			
NELLIE E. HENNIGAN			
MARY T. LANDERS			
MRS. HELEN D. LANE			
MRS. JOSEPHINE E. LELAND			
STASIA POWER			
MARY T. REARDON			
ABIGAIL A. SULLIVAN			
MRS. ANNIE L. SULLIVAN			
MRS. ELIZABETH G. WELCH			
EASTER I. HAMILTON	}	Cooking
MRS. JESSICA H. ROBERTS			

ADVISORY COMMITTEE—BOYS SCHOOL

JOHN A. CREAMER
ALDUS C. HIGGINS

FREEMAN M. SALTUS

ALBERT E. NEWTON
WILLIAM H. ROSE

ADVISORY COMMITTEE—GIRLS SCHOOL

OPERATING DEPARTMENT

MR. ERNEST P. BENNETT
MR. HARRY S. GREEN
MISS ANNIE BREATHER
MILLINERY
MR. NILS BJORK
MR. ALFRED S. LOWELL
MISS JULIA F. KILLELEA

TRADE COOKING DEPARTMENT

MR. CURTIS R. BLANCHARD
MR. PAUL MCHALE
MISS ADDIE F. YEATON
GENERAL COMMITTEE
MRS. CHARLES F. MARBLE
MRS. ROBERT K. SHAW
MRS. REGINALD WASHBURN

DRESSMAKING DEPARTMENT

MISS RUTH E. BEAN

MRS. ANNA B. FORSBERG
MISS MARY A. GUIDER

REPORT OF TRUSTEES OF INDEPENDENT INDUSTRIAL SCHOOLS

To the Honorable City Council of the City of Worcester:

In accordance with Section III of the ordinance relative to the Independent Industrial Schools, we have the honor to submit the following report for the year ending November 30, 1917.

The Trade Schools have followed during the past year the same general plan as in previous years, with such modifications in details as would best meet changed conditions. The principles upon which the schools were founded have proved sound after several years' experience and continue to meet the approval of the Trustees and of those engaged in educational work who have given close study to industrial or trade training.

Comparatively little equipment has been added the past year, as prices have been high, deliveries on machines and apparatus difficult to obtain, and appropriations limited. We hope that as soon as conditions shall have become more normal, money may be available to provide additional equipment for the trades now being taught, as well as for others which would prove of great benefit to Worcester boys and girls.

Because the appropriations for 1917 were much less than our estimates of expenses, the Trustees decided early in the year to give up the summer session at both the Boys and Girls Schools, so that no regular sessions were held during either July or August; had we been able to foresee the needs created by the entrance of this country into war with Germany, different action would have been taken, and it is expected that summer courses will be held during the coming year. The machinery and equipment of the shop at the Boys School can be used to excellent advantage in producing material for Government requirements, and the work of the Girls School will be most helpful for the needs of the Red Cross and kindred work, in addition to being of value to the pupils themselves.

The necessity of providing new and larger accommodations for the Girls School was referred to in our last year's report, and the Trustees are deeply appreciative of the appropriation of \$65,000 made by the City Council on April 9,

1917, towards the purchase of a site for a new Girls Trade School Building. After a careful study and consideration of many possible sites, the Trustees agreed unanimously on the property on the northwest corner of High and Chatham Streets, comprising two lots, viz:—the Rogers or Kennedy estate containing about 23,829 sq. ft. and the Aldrich property of 23,700 sq. ft. The combined area of 47,529 sq. ft. is open to streets on three sides, with a frontage of 201 ft. on Chatham St., 215 ft. on High Street and 229 feet on Aldrich Place. Many citizens have expressed most hearty approval of the site chosen.

The Rogers or Kennedy property was taken by the City Council July 23, 1917, and Aldrich property October 29, 1917.

Very soon after the site had been secured, a most generous proposition was made to the city by one of its loyal and public spirited citizens, Mr. David H. Fanning, placing at its disposal the sum of \$100,000 toward the erection of the building for the Girls School. The offer of Mr. Fanning and the action of the City Council thereon on November 26th, were as follows:

DAVID H. FANNING having presented the City of Worcester \$100,000 to aid in the erection of a permanent home for the Trade School for Girls, we acknowledge with gratitude his gift and commend the public spirit which prompted it. It is by such enduring evidences of interest in a City's welfare that it is given distinction. Fortunately, Worcester's many public institutions show that it has not lacked in benefactors.

In selecting the Trade School for Girls as the object of his generosity, we recognize in Mr. Fanning's choice an especial fitness. Women in industry have contributed much to his business success, and he has done much for their well-being. In helping to better equip the girls of to-day for their tasks of tomorrow Mr. Fanning is crowning his long life of usefulness in an appropriate way that deserves the gratitude of all our people.

WHEREFORE be it ORDERED: that the City Council of the City of Worcester hereby accepts the gift of one hundred thousand dollars (\$100,000), to be applied towards the erection, construction and equipment of a Trade School for Girls, in accordance with the communication of David H. Fanning, dated November 7, 1917, said communication being in the following form, to wit:

“Worcester, Mass., November 7, 1917.

To Mayor Pehr G. Holmes,
and the City Council,
of Worcester.

Sirs:—

Whereas the city of Worcester is maintaining as one of its institutions an Industrial School, known as the Trade School for Girls and whereas I desire to contribute financial assistance to aid and increase the facilities and purposes of said school, I hereby submit the following proposition:

That I will give to the City of Worcester the sum of One Hundred Thousand Dollars (\$100,000) to be applied towards the erection, construction and equipment of a suitable building by the City, for the purposes of said School.

This proposition and payment of said gift is made subject however, and upon the express condition that said school shall be named and known as the "*David Hale Fanning Trade School for Girls*," the name to appear in suitable form over the main entrance to the school building.

Upon the formal acceptance by the City of Worcester of said gift upon said condition, said gift shall then be payable not later than the first day of March nineteen hundred and eighteen.

Respectfully yours,

DAVID H. FANNING."

In Board of Aldermen,
November 26, 1917.
Order adopted by a rising vote.
Set down for Concurrence,
W. HENRY TOWNE, *Clerk*.
In Common Council,
November 26, 1917.
Concurred by a rising vote.
S. HAMILTON COE, *Clerk*.
Approved, November 28, 1917.
A copy. Attest:

PEHR G. HOLMES, *Mayor*.
W. HENRY TOWNE, *City Clerk*.

The Trustees have endeavored to express to Mr. Fanning in fitting terms their heartfelt appreciation of his gift. The amount given by Mr. Fanning will no doubt be supplemented by an appropriation by the City Council to enable the Trustees to erect a building large enough for our needs, which shall be dignified and impressive, and in every way worthy the name of its generous benefactor.

In an estimate for expenses for the coming year we have included an item of \$5,000 to cover the preliminary expenses of plans for the new building, and we trust that this amount will be placed at our disposal at an early date, so that mature consideration can be given to their preparation. Whether it will seem advisable to begin the construction work on the new building, in view of the present crisis in national affairs and the high cost of materials and labor, can only be determined later. The lease of the property at 2 State Street, now used by the Girls School has been extended to July 1, 1919.

The house on the Rogers property proved to be in good condition so it has been wired for electricity by the boys in the electrical classes of the Boys School and made available for afternoon and evening classes in food conservation, cooking, sewing, etc. By its use we will relieve the crowded condition of the State Street Building. The Aldrich house is rented so it will bring some return in revenue to the city.

The work of the home making department has been continued at 63 Grove Street and excellent work in training girls in the care and duties of the home is being done. Dur-

ing the past year the front tenement on the second floor has been renovated and refitted and is now in excellent condition. Nearly all of this work has been done by pupils in various departments of the Boys School, thus giving them excellent practice in their respective trades and at the same time greatly lessening the expenses of remodeling.

Previous to this year, the graduating exercises of both the Boys and Girls Schools had been held jointly, but as the classes in 1917 were larger than before, and the seating capacity of our hall would allow but very few tickets for the friends of the graduates if joint exercises were held, separate programmes were arranged for the two schools. The graduating exercises of the Boys School were held in Higgins Hall on Tuesday evening, June 26th, 1917, and those of the Girls School in the same place on Thursday evening, June 28th.

The programmes and list of graduates were as follows:

BOYS TRADE SCHOOL

Selection,	W. T. S. Orchestra
Introductory Address	Mr. Louis H. Buckley President Board of Trustees
Address of Welcome	Robert J. Butler
Class History	F. Edward St. Andre
Oration	Carl W. Larson
Class Prophecy	William J. Mahoney
Selection	W. T. S. Orchestra
Address	Mr. Charles Burbank Supervisor of Administration, State House, Boston
Presentation of Class Picture	Osborne A. Cully
Acceptance of Gift and Presentation of Class	Mr. A. J. Jameson, Director
Presentation of Diplomas	Mayor Pehr G. Holmes
Song, "The New America"	(Audience requested to join)
	Class Motto
	"Effort is the Price of Success"

GRADUATES OF BOYS TRADE SCHOOL

MACHINE WORK

Edward Carl Anderson	Carl Wilhelm Larson
Harold Dewey Bryant	Francis Aloysius McGinn
George Herbert Burgoyne	George Craig Nichols
Ernest Oscar Carlson	Philip Samuel Stuart
John Francis Downey	Forrest William Samuel Stone
	Louis Edwin Gauthier

MECHANICAL DRAFTING

Leo Benedict Deery	Raymond Andrew O'Malley
Raymond Douglas Hull	Edwin Harold Peterson
Helmer Carl Hult	Willard James Redstone
Herbert Edward Johnson	Francis Edward St. Andre
Joseph Laplante	Clifford Henry Stott
William Joseph Mahoney	Elzear Henry William Willett

ARCHITECTURAL DRAFTING

Herbert Cedric Andrews	Walter Arthur Peinze
	John Lynch Mitchell

STEAM ENGINE PRACTICE

Robert Joseph Butler	Michael James Kelley
John Rudolph Carlson	Francis Harris Litchfield
Milton Oliver Gordon	Alfred Elmer Lowell
Roy Leonard Keizer	Harold La Verne Ramsey

CARPENTRY

Runo Louis Dahlstrom	Warren Dana Tucker
	Alfred John Fitton

CABINET MAKING

Joseph Edwin Boudreau	Oscar Albin Pearson
	Roger Hathaway Doane

PATTERN MAKING

Robert Frederick Adams	Richard Rudolph Erickson
Walter Leroy Brown	Albert George Mitchif
Fridolph Carl Carlson	Harold Ferderick Mosby
Albert Edward Clarkson	Adelard Emile Poire

PRINTING

Dona Louis Cormier	James Joseph McDermott
	George Anthony Kane

ELECTRICAL WORK

Otis Ray Bennett	William John Murphy
Osborne Ambrose Cully	David George Nelson
Reginald John Lepire	Ralph George Taft
	James Francis Morrill

GRADUATION EXERCISES OF
GIRLS TRADE SCHOOL

Processional, "March! March!"

Arthur Farwell

School and Graduates

Introductory Address

Mr. Charles F. Marble
Chairman Girls School Committee, Board of Trustees

Address

Mr. Robert O. Small
Deputy Commissioner of Education

Song, "The Flower of Liberty"

School

W. H. Neidlinger

Reports on "Conservation" as taught at the Girls Trade School
Members of the Graduating Class

Solo, "Song of the Flag,"

Blanche Belisle

Reginald DeKoven

Address, "Ideals of Conservation,"

Mrs. Florence A. Warner

Director of Home Economics, Worcester County Farm Bureau

Presentation of Graduates

Helen R. Hildreth, Director

Presentation of Diplomas

Mayor Pehr G. Holmes

Song, "America" (first and last verses)

Audience will please join in singing

GRADUATES OF GIRLS TRADE SCHOOL

DRESSMAKING

Abigail Taft Adams	Agavny Mary Koobatian
Victoria Frances Aharonian	Laura Etta Leary
Elizabeth Mary Anderson	Gertrude Elvira H. Lund
Margaret Mabel Aalanian	Carrie Adelaide Meade
Rose Blanche Belisle	Gladys Miller
Cora Margaret Bigelow	Lillie Charlotte Mork
Esther Elizabeth Bjurman	Elsie Otilia Nelson
Marion Lizetta Burkhardt	Evelyn Liantine Oberg
Edith May Converse	Lillian Margaret Ogren
Agnes Mae Cully	Edith Gertrude Scarlett
Olive Madeline Damon	Mildred Theodora Svedberg
Gladys Louise Erickson	Agnes Elvera Wiberg
	Vincentia Evelyn Grady

HOMEMAKING

Bertha Margaret Bergstrom	Gertrude Evelyn Nelson
Anna Cleora Bigelow	Astrid Ingeborg Nylan
Clara Johanna Erikson	Marie Virginia O'Malley
Alma Ruth Haas	Melida Irene Rheume
Marjorie Elizabeth Hager	Evelyn Teel Richardson
Arline Harriette Marshall	Esther Gertrude Weintraub

MILLINERY

Lillian Blanche Baker	Catherine Teresa Franciella Donahue
Florence Evelyn Brumm	Anna Patricia Rita Mason
	Mary Isabella Conlon

POWER MACHINE OPERATING

Fannie Sennia Annala	Mary Ellen McGillicuddy
Alma Matilda Fors	Josephine Cecelia Romanowski
Flora Susie Lowd	Daisy Alissa Smith

REIMBURSEMENT FROM THE STATE

During 1917 the city of Worcester received from the state the sum of \$24,429.38 for the Boys School account, and \$13,566.12 for the Girls School account, making a total of \$37,995.50; this being one-half the net maintenance expenses of both schools for the year ending September 1st, 1916.

During 1918 the city should receive from the state \$24,735.53 on account of the Boys School, and \$13,169.73 on account of the Girls School, a total of \$37,905.26, the state's share of the expenses for twelve months to September 1, 1917.

We include as a part of our report, reports from the directors of both the Boys and Girls Schools, giving further details of their work.

REPORT OF THE DIRECTOR OF THE BOYS TRADE SCHOOL

In reviewing the work of the past year, it is very gratifying to note, notwithstanding the very numerous and unusual conditions which exist, the satisfactory results of our efforts in all departments of our school. While our numbers are less than last year, yet they are larger than might have been anticipated in the midst of so great business prosperity and the call for young men for national service. We have not suffered, however, so great a diminution in numbers as have many schools of a similar type. The exceptional opportunities offered at our institution have doubtless helped us to maintain so creditable a registration.

As the war continues, there is a constantly increasing demand for young men trained for industrial work. Many of our pupils have been obliged to leave school because of other members of their families being called to the colors, others have been attracted by the unusually large compensation offered, and many have enlisted in the service of the Government. Our service flag at this time contains sixty-seven stars, and this number will undoubtedly increase, until the tide of events has turned. With the thorough training they have received at the school, we feel confident that those who have enlisted will render commendable service to their country. With the return of normal conditions we hope there will come the beginning of a reconstruction period in educational effort.

The success of these graduates encourages us to believe

that the thorough and practical courses of shop training and correlated work we offer will fit any ambitious young man to take a creditable part in the industrial world.

The industrial opportunities open to our graduates at the present time are undoubtedly beyond anything heretofore offered and they have lost no time in taking advantage of them. The majority of the graduates, we are glad to state, have remained with the Worcester industries, where opportunities are as good, if not better than in many outside places.

The quality and quantity of products turned out during the past year have been very marked; all of these are of a commercial nature, which adds greatly to the efficiency of training.

The necessary high standards of workmanship have been maintained to meet the requirements of our customers. This is an indispensable factor in the proper training of the boys, since in this way they are trained under practical commercial conditions, which they will be prepared to meet upon entering the industries.

A considerable portion of our equipment which has been completed by various departments of the school forms a very substantial exhibit of the school product, and is much admired by the numerous visitors.

At the opening of the classes for the year 1917-1918 there were 369 applicants for admission. The number attending was 342.

The year 1916-1917 opened with a total of 420 applicants, and the number attending was 382. The number this year is a trifle below that of last year. It is quite likely that during the year the number of pupils will approximate the number last year.

The table below gives the number of applicants and number enrolled for the different trades in the school at the present.

1917-1918	No. Applicants	No. Enrolled
Machinists,	127	125
Carpentry,	12	11
Pattern Making,	35	35
Cabinet Making,	30	30
Printing,	14	14
Drafting-Mech. & Arch.	57	53
Steam Engine Practice,	28	28
Electrical Work,	42	40
Painting and Decorating,	1	1
	<hr/> 346	<hr/> 337

The graduating class of 1916-1917 included 55 promising young men. Their average age was 19 years 2½ months. Their trade, location and occupation at the present time are as follows:

Trade Taken	No.	Location	Occupation		
Machinist	11	Worcester	8	At trade	6
		Sterling	1	Farming	1
		U. S. Service	1	School	2
		No record	1	U. S. Service	1
				No record	1
Mechanical Drafting	12	Worcester	7	At trade	9
		Quincy	1	U. S. Service	3
		Norfolk Navy Yard	1		
		U. S. Service	3		
Architectural Drafting	3	Worcester	2	Trade	2
		U. S. Service	1	U. S. Service	1
Steam Engine Practice	7	Worcester	4	Trade	3
		U. S. Service	3	Machinist	1
Carpenter	3	Worcester	1	U. S. Service	3
		U. S. Service	1	Trade	2
		Charlton	1	U. S. Service	1
Cabinet	3	Worcester	2	Trade	2
		U. S. Service	1	U. S. Service	1
Pattern	7	Worcester	6	Trade	6
		U. S. Service	1	U. S. Service	1
Printing	2	Worcester	2	Trade	1
				School	1
Electrician	7	Worcester	6	Trade	6
		Schenectady	1	School	1

We appreciate the new equipment which we were able to obtain during the past year; this was distributed among the various departments of the school and added largely to their efficiency. The superiority of our school in this respect is always noticed by the numerous visitors, who favorably comment upon this.

Great care is exercised in providing suitable safety appliances on our machinery and apparatus, to guard against accidents to the students. We are glad to report that no serious accidents have happened during the past year, and this reflects great credit on the part of our instructors.

The usual practice of having students visit the different manufacturing plants in and out of the city has been continued, and these visits have proved most interesting and instructive. In all cases the students are accompanied by our instructors, who carefully instruct them in their particular line of work. Manufacturers have been generous in providing these opportunities, for which we wish to express our appreciation, as such visits are of great value in increasing the interest and knowledge of the pupils in their work.

Our financial requests for the coming year are very modest and we hope will receive favorable consideration. If we are favored in this respect, it will enable us to add to our facilities for conducting this important educational work, and maintain Worcester's commendable position in this field.

No difficulty has been experienced in obtaining a suitable line of work for the proper training of the boys, and the manufacturers of our city and elsewhere have been considerate in furnishing a very generous amount.

Our Annual exhibition of school products was held in the gymnasium during the month of June, and offered the people of our city and elsewhere a splendid opportunity to carefully inspect the work of our students. This product was purely representative, and was taken from the regular run of work. The exhibit attracted about one thousand people, who expressed their appreciation of the generous provision made by the city for the development of the Trade Schools.

Our gymnasium and athletic work continue to be a source of interest and profit to the students. As the gymnasium work is part of the regular course, it affords a splendid opportunity for physical development, and adds largely to the capacity of each pupil. This work requires two hours per week, and is adjusted to meet the condition of the boys, thereby insuring proper results.

The athletic work is managed by the pupils with an Advisory Committee of the Faculty, and forms an attractive feature of the student life.

Students' assemblies are conducted every Monday for one hour in Higgins' Hall, and are a source of great interest and instruction to both students and faculty. The exercises usually consist of orchestral music, singing and an address. The speakers are generally people of our city, who have been most kind in giving their time and thought towards making these gatherings profitable; for their co-operation we express appreciation.

Our evening school continues as usual and forms an important part of our institution. The opportunities offered are attractive, and enable many men to gain the requisite skill to meet the needs of manufacturers for trained workmen. A detailed statement is given in the evening school report.

Among the gifts received during the year, we would mention especially that of a 12" x 30" Corliss Engine from Hon. Channing Smith, Leicester, Mass., and a Steam Engine Indicator from the Crosby Steam Gage & Valve Company, Boston, Mass. Various other gifts of catalogues,

literature, books and samples have been made and suitably acknowledged. For all these, and also for the kind and generous consideration of the City Council and the public we are deeply grateful.

Respectfully submitted,
ALBERT J. JAMESON,
Director.

REPORT OF THE SUPERVISOR OF EVENING CLASSES AT THE BOYS TRADE SCHOOL

Mr. Jameson, Director:

Dear Sir: The evening classes for the year 1916-1917 were organized September 25, 1916, with an enrollment of 707. The total number of applicants during the term was 1260 of whom 875 attended at some time during the term. The school closed Friday evening, March 23, 1917, with an entertainment in Higgins Hall.

The programme was as follows:

March, "The Bridal Rose"		Lavalle
	W. T. S. Orchestra	
Introductory Remarks	Mr. Albert J. Jameson	
	Director Worcester Trade School	
Illustrated Lecture, "Around the World with the Atlantic Fleet"	Chaplain George E. T. Stevenson, U. S. N.	
Selection, "Shadowland"	W. T. S. Orchestra	Gilbert
Moving Pictures of Bluejackets and Naval Cadets at Inaugural		
Selection, "Steel King"	W. T. S. Orchestra	St. Claire

Certificates were issued to 275 men who had attended the required number of hours. The largest classes as usual were those in Machine Shop Practice, Mechanical Drawing and Gas Engine Practice.

There was an abundance of good practical work in all departments and we believe all who attended faithfully derived a great deal of benefit from the instructions given.

We had a large waiting list of applicants for the class in Machine Shop practice and even at the close of the year there were a considerable number who had not been able to enter.

The classes for the present year were organized Sept. 24th, 1917, with 800 applicants, of whom 700 were assigned to classes and the balance put on the waiting list which was

made up as usual of applicants for the Machine Shop course. We have been able to accommodate a few of these to fill vacancies caused by men leaving, but the waiting list even now totals over 100 men, enough to make two shifts for a shop the size of our present one.

The electric department in its new location, in what was previously the lunch room, is much better suited for evening work than formerly and its equipment is much more complete.

The gas engine department has replaced several obsolete types of engines for more modern types.

The course in the power plant department has been much strengthened by the addition to its equipment of a 12 x 30 Harris Corliss Engine, the gift of Hon. Channing Smith, of Leicester.

NEW CLASSES

Class for Radio or Buzzer operators.

At the request of the Federal Board for Vocational Education we have started a class for the training of radio or buzzer operators for service in the U. S. Signal corps. This class when first started November 19th had a membership of 40 men, but has since lost some members on account of men leaving to enlist or because they found they were unfitted for the work; the class now numbers about 25 who are doing fine work. As soon as the lists are received from the second draft, we hope to increase this number.

Respectfully submitted,

L. A. JACOBS,

Supervisor of Evening Classes.

REPORT OF THE DIRECTOR OF THE GIRLS TRADE SCHOOL

NEW BUILDING

The most important event in the history of the Girls Trade School took place April 10, 1917 when his Honor, the Mayor, Pehr G. Holmes, signed the order appropriating the sum of \$65,000 to the account of the Independent Industrial School for Girls. This money has enabled the Trustees of the Independent Industrial Schools to purchase two lots—formerly the Rogers and the Aldrich property—fronting on Chatham and High Streets and containing a little less than 50,000 sq. ft. This gives a location un-

surpassed and sufficient land to erect a building which may have a suitable setting.

To this generosity of the City Council has been added a Gift of \$100,000 by David Hale Fanning for a building, which will be honored by bearing his name over its main entrance—The David Hale Fanning Trade School for Girls. This gift means much to us financially, but of still greater value is the stamp of approval thus set upon our endeavor by a man who has devoted his life to the improving of the conditions of working women. It is hoped that the dread conditions of war will soon so change that it will be possible for us to begin the joyful task of putting up the new building.

In the meantime the old Rogers house is being used for several lines of extension and conservation study. With little expense the house was put into usable condition and since the middle of October, millinery and cooking classes from the Evening Trade School have met there. Also classes in different phases of conservation have assembled there under the direction of the Worcester County Farm Bureau and the City Federal Conservation worker. Until the old house must be torn down it will make a convenient center for many gatherings and we hope will add much to the Home Economic activities of Worcester women.

DAY SCHOOL

The dressmaking, millinery, power operating and home making departments and the allied subjects have continued as before, with adjustment of details to meet the new demands in food and clothing conservation made by the unusual conditions of the day.

The second floor apartment at 63 Grove Street has been furnished in an attractive manner and, by careful planning on the part of the pupil homemakers, the expense was kept down to the amount used in the first apartment—about \$200—even under war prices.

The first floor rear has been remodelled for Club rooms, but nothing has been done toward furnishing them as the money was needed elsewhere.

In co-operation with the Health Committee of the Worcester Woman's Club a class in the care of the baby has begun with a selected group of the home making pupils. The Club furnished a special equipment and the instructor needed for this work and the school provided the room and pupils. It is hoped that this is the forerunner of similar classes in many parts of the city.

The lunch room at the Boys Trade School run by a teacher and pupils of the Girls Trade School was discontinued the last of March. The teacher was ill, the Boys School needed the room for its own classes and the girls' training could be cared for at the Girls School Building, so it seemed best for all concerned to store the lunch room and kitchen equipment for the time being. It has since been installed in the Rogers House and is being put to efficient use there.

EVENING SCHOOL

Last winter the evening classes consisted of the usual short units in millinery and the various steps in dress-making. Six hundred fifty-four women were enrolled during 1916-1917. With the opening of classes this fall there was a demand along conservation lines and so practical cooking subjects were added and the making over of old garments. Up to the time of this report there have been registered 292 in dressmaking, 143 in millinery, and 66 in cooking.

Miss Caroline E. Nourse who assisted in the supervision and direction of the Evening Classes was asked to go to the State Board of Education as agent in charge of the State Evening Work. She resigned October 1st. We were sorry to have her leave us, but the state work is more far-reaching than the work of one city and the opportunities more extensive. Miss Gertrude M. Brown, one of the day teachers, is assisting in the nightly supervision and the clerical work is being carried by the office staff.

SUMMER SCHOOL

We economized last summer by having no classes for the young girls. The kitchens were used by Red Cross Dietetic classes and, in the late summer, wholesale or community canning was carried on in them. Two of the Trade School teachers assisted at the lectures given in the Conservation Tent on the Common and much of the equipment used there was loaned by the school.

RED CROSS ACTIVITIES

With the increased demand upon the Red Cross last spring, groups of the Trade School graduates gave one night each week to some kind of work for it. This continued throughout the summer. In the fall, with the opening of school, the girls in attendance decided to spend the last two hours every Wednesday in some kind of Red Cross work allied to the course they are taking.

In this way we have been able to make since September:

42	Surgical shirts	46	Pillows
13	Pajamas	150	Gun Wipes
18	Convalescent Gowns	2	Afghans
61	Bed Socks	1	Helmet
23	Shoulder Wraps	1	Pair Socks
18	Slings	14	Sweaters
50	Head Dresses	9	Mufflers
9	Wristers	32	Wash Cloths

In June all the graduating class had earned Red Cross membership pins, by selling tickets for an entertainment given by the school. All the girls now in school are members through the generosity of a citizen of Worcester whose donation to the Red Cross was given over to the school for memberships. This makes us a regular Auxiliary, not a Junior one. Our training is such that we can do a greater variety of work than is assigned to the Junior or Public School Auxiliaries.

LIBERTY BONDS

The Girls Trade School did its "bit" also, in connection with the Liberty Bond issued. One \$50 bond of the first loan was bought from the "Building Fund"—a sum of money accumulated from many sources—entertainments and the like. Money for a second was raised by a special entertainment. A third one is being paid for now on the installment plan. The interest from these funds will be used for some school purpose, to be voted upon by the girls from time to time as need arises.

PROFESSIONAL IMPROVEMENT

The State Board of Education is now requiring all day and evening teachers to hand in before September 1st subject matter to show they have done some kind of professional improvement during the year. A topic is chosen by each teacher and submitted for approval early in the year and then she works along that line in connection with her regular work. A very creditable set of papers was sent in last September. Each teacher worked up some point bearing on the course in her department or unit. This year the notes from a set of lectures will be submitted.

CONFERENCES

Last winter a conference of a few of the leaders in Vocational Education for Women and Girls was held at our Home Making House. Some of them had not seen home

making projects at first hand, but after a night spent in our attractive apartments at 63 Grove St., with meals prepared and served by the home making pupils, the ladies had much faith in our way of preparing a girl for her future business in a home.

In May the home making teachers of Massachusetts attended meetings in Worcester. The morning program was at the Girls Trade School; luncheon and the afternoon session were at the Bancroft Hotel. The visitors went away feeling that Worcester had given them a new inspiration for their work.

GIFTS

Besides our one big gift for the new building, we have received during the year the following:

Machine charts, from Singer Co.

Cook stove, from Barstow Stove Co., previous loan.

Silk Flag and Standard, "Class of 1917."

6 match safes, Norton Co.

3 carving knife sharpeners, Norton Co.

3 pocket knife sharpeners, Norton Co.

Respectfully submitted,

HELEN R. HILDRETH,

Director.

We append an itemized list of expenditures during the year ending November 30, 1917, taken from the city auditor's books.

Respectfully submitted,

CHARLES F. MARBLE,

Clerk of Trustees.

1916-1917

BOYS SCHOOL MAINTENANCE

Salary, director, Albert J. Jameson	\$3,100.00
Salary, director's pension to Commonwealth	100.00
Salary, janitors	2,080.39
Pay roll, instructors	86,222.13
Pay roll, instructors' pension to Commonwealth	559.12
Pay roll, engineer	1,279.80
Advertising	56.63
Automobile hire	10.00
Books and subscriptions	319.03
Carfare	17.40
Castings and patterns	1,391.75
Cleaning	101.25
Coal	2,303.00
Cordage, waste and packing	243.87

Disinfectants	56.60
Drawing materials	492.97
Electric light	152.17
Electric power	592.09
Electric supplies and repairs electric machinery	2,481.96
Engine, machinery, belting and repairs	509.25
Express, freight and trucking	296.90
Extra labor	138.01
Flags, flagstaff and repairs	9.40
Furniture, fixtures and repairs	197.58
Gas	118.49
Graduation expense	33.35
Gymnasium apparatus and repairs	368.27
Hardware, tools and repairs	2,388.51
Insurance	7.50
Iron and steel	1,484.27
	<hr/>
	\$57,111.71
Janitorial supplies	286.33
Laundry work	9.64
Lecture and moving picture expenses	29.33
Lumber and carpentering	2,281.28
Materials for automobile instruction	75.84
Medical and surgical supplies	30.48
Miscellaneous supplies and expenses	10.50
N. E. Tel. & Tel. Co., rental and service	61.22
Oil, illuminating and gasoline	120.72
Oil, lubricating and grease	274.34
Paints and oils	297.91
Photographs and photographic supplies	179.85
Physical examination	248.00
Pipe and fittings	296.68
Printing, stationery, stamps and supplies	566.41
Printing supplies	1,085.75
Refreshments	1.00
Removing snow, ashes, and rubbish	24.00
Rent of piano	101.00
Repairs, buildings	975.61
Repairs, heating apparatus	458.22
Services stenographer	4.25
Shop supplies	189.48
Sprinkling streets	51.88
Telephone tolls and telegrams	7.60
Traveling expenses	230.83
Water rates	223.32
Flag decoration, Spanish War statue decoration	75.00
	<hr/>
	\$65,308.18

SERVICE TRANSFER—SUNDRY DEPARTMENTS

Oversleeves	\$16.15
Removing snow	38.53
Stationery, stamps and supplies	76.35
	<hr/>
	\$181.03
	<hr/>
	\$65,439.21

BOYS SCHOOL—EVENING SCHOOL MAINTENANCE

Salary, supervisor	\$390.00
Pay rolls, instructors	7,308.75
Pay rolls, janitors	156.00
Coal	179.67
Electric light	161.23
Electric power	155.30
Electric supplies	10.73
Hardware, tools and repairs	72.12
Iron and steel	143.92
Materials for automobile instruction	309.00
Printing, stationery, stamps and supplies	2.40
Moving picture expenses	1.65
Water rates	24.27
Advertising	20.65
	<hr/>
	\$8,935.69
	<hr/>
	\$74,374.90

EQUIPMENT BOYS SCHOOL

Belting	\$7.38
Electric supplies and electric machinery	1,531.44
Furniture and fixtures	174.04
Gymnasium apparatus and supplies	1.28
Hardware and tools	921.38
Laboratory apparatus and supplies	34.08
Machinery and pumps	1,810.97
Materials for auto instruction	125.00
Printing	509.65
Stationery and supplies	75.00
1 flag	10.80
2 printing presses	289.10
Express, freight and trucking	18.55
	<hr/>

\$5,508.67

CONSTRUCTION

Ventilator	\$7.35
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GIRLS SCHOOL MAINTENANCE

Salary, director, Helen R. Hildreth	\$2,700.00
Pay rolls, instructors	20,590.42
Pay rolls, instructors' pension to Commonwealth	248.25
Pay rolls, janitor	1,836.60
Books and subscriptions	79.27
Carfares	23.18
Cleaning	165.80
Coal	1,041.64
Cooking supplies	2,416.86
Drawing materials	35.80
Electric light	86.05
Electric power	32.99
Electric repairs	18.16
Express, freight and trucking	73.51
Furniture, fixtures and repairs	52.85
Gas	124.78

Graduation expenses	7.20
Gymnasium supplies	1.40
Hardware, tools and repairs	28.65
Ice	30.83
Insurance	5.40
Janitorial supplies	214.65
Labor on grounds, seeds, etc.	7.10
Laundry work	71.02
Medical and surgical supplies	3.11
Millinery supplies	178.05
Miscellaneous supplies and expenses	90.97
N. E. Tel. & Tel. Co., rental and service	18.15
Paints and oils	5.37
Photographs	32.45
Printing, stationery and stamps	193.50
Removing ashes, rubbish and snow	28.27
Repairs, building	121.44
Repairs, heating apparatus	39.00
Sewing machines, belting and repairs	48.26
Sewing supplies	2,010.34
Traveling expenses	83.03
Victrola supplies	1.00
Water rates	67.53
Services stenographer	4.25
Refreshments	43.00

SERVICE TRANSFERS—SUNDRY DEPARTMENTS

Drawing materials	21.90
Extermination moths and beetles	3.40
Printing, stationery and stamps	159.40
Removing snow	24.64

\$33,069.52

GIRLS EVENING SCHOOL MAINTENANCE

Salary, supervisor	\$409.53
Pay rolls, instructors	3,421.00
Pay rolls, janitors	233.00
Books	1.10
Carfares	1.40
Coal	218.09
Cooking supplies	72.11
Electric lights	74.19
Electric power	1.70
Electrical repairs	1.80
Millinery supplies	7.31
Miscellaneous supplies and expenses	9.15
Printing, stationery and supplies	18.34
Sewing supplies	103.60
Gas	2.95
Janitorial supplies	5.25

SERVICE TRANSFERS—SUNDRY DEPARTMENTS

Printing, stationery and stamps	33.32
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\$37,733.36

CONSTRUCTION

Electrical supplies.....	\$3.90
Remodeling tenement	63.34
Rent of property, H. N. Wetherell estate	1,050.00
Taxes (Wetherell property).....	630.51
Land, High Street, Ellen F. Kennedy	45,000.00
Recording deeds	8.01
Taxes, part (Kennedy Property).....	420.52
Land, High Street, Aldrich property	25,000.00

SERVICE TRANSFERS—SUNDRY DEPARTMENTS

17.87

\$72,194.15

EQUIPMENT

Cooking apparatus and supplies	\$7.00
Electrical work	50.00
Furniture and fixtures	16.23
Insurance	13.50
Sewing supplies	7.00
Adding machine (Wales).....	181.87

\$275.60

ANNUAL REPORT
OF THE
STREET COMMISSIONER
OF THE
CITY OF WORCESTER
FOR THE
YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

COMMITTEE ON STREETS

Alderman VINCENT E. TOMLINSON

Alderman WILLIAM T. MITCHELL

Alderman JAMES A. GALLAGHER

Councilman WINFRED H. WHITING

Councilman JOHN C. WARE

Councilman OLOF F. OHLSON

Councilman JOSEPH W. LEYDEN

Street Commissioner

ALBERT T. RHODES

Assistant Street Commissioner

JAMES C. BLAKE

REPORT OF STREET COMMISSIONER

To the Honorable City Council, of the City of Worcester:

Gentlemen: In accordance with the provisions of the revised ordinances of the city of Worcester, Chapter 40, Section 7, I have the honor to submit herewith the annual report of the Street Commissioner for the financial year ending November 30, 1917.

SALARIES AND CLERICAL SERVICE

EXHIBIT A

Balance, December 1, 1916, brought forward	\$180.80
Annual appropriation	12,000.00
	\$12,180.80
<i>Total resources</i>	
<i>Expenditures:</i>	
Salary, Street Commissioner	\$3,000.00
Salary, Ass't. Street Commissioner	2,000.00
Salary, clerks	6,997.46
	\$11,997.46
<i>Total expenditures</i>	\$11,997.46
Balance November 30, 1917	183.34

BRIDGES AND REPAIRS

EXHIBIT B

Balance, December 1, 1916, brought forward	\$827.24
Annual appropriation	1,600.00
	2,427.24
<i>Total resources</i>	2,427.24
<i>Expenditures, as per schedule 1</i>	1,485.73
	\$941.51
Balance November 30, 1917	\$941.51

CONSTRUCTION

EXHIBIT C

Balance, December 1, 1916, brought forward	\$14,352.51
Annual appropriation	10,000.00
Transferred from Street Betterment Assessments.	35,874.02
	\$60,226.53
<i>Total resources</i>	\$60,226.53
<i>Expenditures</i>	\$52,085.14
Less transfers and refunds	120.86
	\$52,206.00
<i>Net expenditures as per schedule 2</i>	\$52,206.00
Balance November 30, 1917	\$8,020.53

EXHIBIT D

MAINTENANCE

Balance, December 1, 1916, brought forward		\$24,922.90
Annual appropriation		149,222.91
Transferred from street railway excise tax		40,074.18
<i>Receipts:</i>		
From sundry persons, corporations, etc.	\$38,181.18	
From sundry departments	14,173.36	\$52,354.54
Total resources		\$266,574.53
<i>Expenditures:</i>		
Repairs	\$116,927.15	
Less transfers and refunds	41.16	
Net expenditures as per schedule 3	116,885.99	
Outside work for other departments, corporations and individuals	57,678.72	
Less transfers and refunds	1,246.50	
Net expenditures as per schedule 4	56,432.22	
Yard accounts	280,856.11	
Less transfers and refunds	206,566.00	
Net expenditures as per schedule 5	74,290.11	
General expenses	12,524.49	
Net expenditures as per schedule 6	12,524.49	
Total net expenditures		\$260,132.81
Balance November 30, 1917		\$6,441.72

EXHIBIT E

PAVING

Balance, December 1, 1916, brought forward		\$8,532.00
Annual appropriation		25,000.00
Appropriation by loan		30,000.00
Total resources		\$63,532.00
<i>Expenditures</i>	\$53,895.16	
Less transfers and refunds	2,109.73	
Net expenditures as per schedule 7		51,785.43
Balance November 30, 1917		\$11,746.57

EXHIBIT F

MACADAM PAVING

Balance, December 1, 1916, brought forward		\$2,357.19
Annual appropriation		8,000.00
Total resources		\$10,357.19
<i>Expenditures</i>	\$10,012.13	
Less transfers and refunds	723.89	
Net expenditures as per schedule 8		9,288.24
Balance November 30, 1917		1,068.95

SIDEWALKS AND CROSSWALKS		EXHIBIT G
Balance, December 1, 1916, brought forward		\$8,236 .27
Annual appropriation		5,000 .00
Transferred from sidewalk assessments		20,734 .40
Total resources		\$33,970 .67
<i>Expenditures</i>	\$33,984 .32	
Less transfers and refunds	127 .24	
Net expenditures as per schedule 9		33,807 .08
Balance November 30, 1917		\$163 .59

STREET CLEANING		EXHIBIT H
Balance, December 1, 1916, brought forward		\$1,713 .62
Annual appropriation		90,000 .00
Appropriation from public institution tax		4,000 .00
Total resources		\$95,713 .62
<i>Expenditures</i>	\$95,568 .49	
Less transfers and refunds	349 .76	
Net expenditures as per schedule 10		95,218 .73
Balance November 30, 1917		\$494 .89

STREET SPRINKLING		EXHIBIT I
Balance, December 1, 1916, brought forward		\$1,874 .06
Transferred from street sprinkling assessments	\$78,222 .33	
Less transfers and refunds	141 .14	
Total resources		\$78,081 .19
<i>Expenditures</i>	80,294 .60	\$79,955 .25
Less transfers and refunds	876 .58	
Net expenditures as per schedule 11		79,418 .02
Balance November 30, 1917		\$537 .23

The following table shows the length and square yards, exclusive of street railway tracks, or various kinds of pavement laid in this city to December 1, 1917:

ASPHALT				
DATE	STREET	LENGTH	SQ. YDS.	LOCATION
1917	Central	222.0	896.7	Commercial to Union
1917	Exchange	296.5	871.5	" " "
1917	Grafton	1,520.0	3936.4	Hale to Rice Sq.
1915	Grafton Sq.	267.4	1,012.5	Hamilton St., westerly
1916	Harding	594.9	2,638.0	Harrison to Green Sta.
1917	Lincoln Sq.	180.4	1,358.9	E. of E. line, Union St.
1902-3	Mechanic	1,222.0	4,878.4	Norwich to Bridge St.
1915	Merrick	690.8	2,499.2	Pleasant to Elm

1910-11	Park Ave.	1,525.2	7,278.8	Elm to Highland
1917	Pleasant	2,751.9	7,687.8	Park Ave to Newton Sq.
1916	Salem	461.7	1,146.8	Myrtle St., southerly
1915	Southbridge	2,085.0	2,632.8	E. Side, College Sq. to Malvern Rd.
1915	West Boylston	4,401.8	6,240.8	E. Side, Groves St. to Millbrook St.
1917	West Boylston	543.5	1,569.9	Millbrook to Wildey Ave.
		16,713.1	44,626.5	

ASPHALTINA

1897	Foster,	340.0	1,898.4	Main to Waldo Sta.
1897	Mechanic,	293.0	978.5	Main to Norwich Sta.
1896	Plymouth,	503.8	1,288.8	Green St., westerly.
1897	Sever,	637.0	2,081.9	Pleasant to Elm Sta.
1897	Waldo,	469.0	1,443.8	Foster to Exchange Sta.
		2,282.8	7,641.4	

BRICKS ON CONCRETE FOUNDATION

1897	Bowdoin,	158.0	555.5	Harvard to Chestnut Sta.
1911	Burncoat,	256.9	636.0	Barnard Rd., southerly.
1897	Chestnut,	60.5	235.6	Opposite Pearl St.
1904	Church,	334.1	996.8	Front to Mechanic Sta.
1909	Elm,	85.0	387.0	At Russell St.
1896	Exchange,	285.5	848.6	Main to Waldo Sta.
1907-8	Foster,	1,174.2	4,526.6	Waldo to Bridge Sta.
1906	Highland,	40.0	145.2	Park Ave., easterly.
1896	Pearl,	601.0	2,110.8	Main to Chestnut Sta.
	Russell,	45.0	300.0	Opposite Cedar St.
1904	Temple,	48.9	141.1	Opposite St. John's Church.
1912	West,	50.5	246.7	Intersection of Elm St.
1909	Wyman,	347.7	1,288.2	Hollis, northerly.
		3,485.8	12,417.6	

COBBLES

	George,	155.0	275.0	Eden St., easterly.
	Tremont,	112.6	172.0	Front St., northerly.
		267.6	447.0	

GRANITE BLOCKS (NEW), ON CONCRETE FOUNDATION, WITH JOINTS AND SURFACES GROUTED WITH CEMENT

DATE	STREET	LENGTH	SQ. YDS.	LOCATION
1909	Austin,	222.8	624.7	Main to High Sta.
1911	Austin,	420.6	1,206.9	High to Irving Sta.
1916	Beacon,	280.0	699.3	Southbridge to Madison Sta.
1910	Brittan Square,	49.3	54.8	Around watering trough.
1907-8	Cambridge,	249.3	597.0	Main to Nixon Ave.
1911	Canal (New Harding St.)	192.5	1,801.8	Front to Cherry Sta.
1911	Chandler,	46.0	212.6	Intersection Piedmont.
1915	Cherry,	98.8	176.6	Bartlett to Vine St.
1908	Commercial,	1,030.2	3,909.4	Front to Exchange Sta.
1916	Commercial,	656.5	2,499.1	Exchange to Thomas Sta.
1913	Crescent,	566.2	2,115.3	Webb's office, northerly.
1912	E. Worcester,	81.6	281.0	Shrewsbury St., easterly.
1914	Ellsworth,	387.3	1,147.6	End, 1905 paving, easterly.
1908	Exchange,	161.7	450.3	Waldo to Commercial Sta.
1914	Federal,	454.5	1,513.2	Main to Portland.
1908	Foster,	154.7	944.2	N. side Waldo to Commercial.
1909	Foster,	548.2	3,018.4	Bridge to Summer.
1912	Foundry,	401.3	1,119.5	Vine to Harding Sta.
1905-13	Franklin,	785.1	2,446.7	Main to Salem Sta.
1897	Franklin,	430.0	1,154.0	Salem St. to Trumbull Sq.
1897				
1911	Franklin,	1,164.0	3,018.4	Green to Grafton Sta.
1912				
1913	Franklin,	1,008.7	3,155.9	Grafton St., easterly.
1904	Front,	1,902.5	9,704.0	Main to Washington Sq.
1909	Gardner,	448.5	1,662.9	Tainter to Canterbury.

1915	Grafton Square,	194.6	984.0	Houghton St. S. easterly.
1911-12	Grafton St.,	914.4	2,768.0	Washington Sq. to Winter.
1907	Grafton St.,	897.9	1,002.8	So. side Union Sq. to Penn Ave.
1914-15	Grafton St.,	450.9	2,080.8	Penn Ave. to Barclay St.
1914	Grafton St.,	630.4	2,017.7	Grafton Sq. to Hale St.
1912	Green,	628.2	2,326.9	Trumbull Sq. to Winter.
1908-16	Green,	1,468.6	5,668.8	Winter St. to Vernon Sq.
1910	Grove,	1,126.1	8,400.1	Armory Sq. to Wire Mill.
1908	Grove,	2,187.9	5,615.8	Wire Mill to North.
1914	Grove,	1,440.0	2,222.6	W. S. North St. to Park Ave.
1910-11	Hammond,	404.0	1,204.5	Southbridge to Canterbury.
1911	Harding			
	(See Canal St.)			
1911-12	Harding,	847.7	1,333.0	Cherry to Franklin Sta.
1912	Hermon,	815.2	8,421.8	Southbridge to Lamartine.
1914	Highland,	667.5	1,091.9	N. side Boynton to W. line West St.
1911	Irving			
	(See South Irving)			
1910				
1911	Lincoln Sq.,	260.4	2,280.2	W. of East line, Union St.
1917				
1905	Lincoln,	1,221.6	8,745.7	Lincoln Sq. to Sawyer's Yard.
1912-13	Lincoln,	1,124.7	8,809.6	Catharine to Perkins.
1900	Madison Sq.,	66.2	311.0	East side.
1914-15	Madison St.,	477.9	2,618.9	Main St. to Southbridge St.
1912	Madison,	802.3	3,466.6	Southbridge to Gold.
1900-3	Main,	5,268.0	23,588.3	Lincoln Sq. to Wellington.
1906	Main,	2,487.0	7,116.8	Wellington to Hammond.
1909	Main,	1,821.4	6,076.8	Hammond to Hawthorne.
1910	Main,	3,915.9	13,458.4	Hawthorne to Cambridge.
1915	Main,	478.0	2,150.7	Webster Sq. to Curtis St.
1914	Main,	570.2	2,687.0	Curtis St. to Curtis St.
1915	Main,	237.9	867.2	Curtis St. to Lakewood St.
1907-8	Main,	895.5	2,143.2	Lakewood to Montague St.
1911	Main,	1,484.4	2,269.7	No. side, Montague to Gates Lane.
1909	Mercantile,	215.7	829.8	Front to Mechanic.
1910	Mercantile,	261.5	1,164.1	Mechanic to Foster.
1910	Mill,	354.3	708.0	Main to Beaver Brook.
1910-11	Millbury,	1,518.9	8,346.1	Vernon Sq. to Endicott.
1911	Millbury,	1,875.0	2,054.7	W. side Endicott to Quinsigamond Ave.
1910	Millbury,	185.8	234.0	W. side at Quinsigamond Ave.
1907	Millbury,	1,337.2	1,560.4	E. side, Quinsigamond Ave., southerly.
1907	Millbury,	2,299.7	2,479.6	W. side, Ballard St., northerly.
1899	Millbury,	1,635.6	1,874.0	W. side, Middle River to Greenwood St.
1907	Myrtle,	168.1	427.3	Main to Southbridge.
1911	Myrtle,	300.4	801.8	Southbridge to Portland.
1918-15	Park Ave.,	60.0	249.0	At Chandler St.
1904	Pleasant,	603.2	663.8	So. side, Main to Chestnut.
1909	Pleasant,	494.2	536.0	No. side, West of Main to Chestnut.
1909	Pleasant,	1,330.4	1,429.1	So. side, Chestnut to West St.
1912	Pleasant,	466.2	527.8	So. side, West to Newbury.
1910	Pleasant,	120.5	832.2	Intersection Park Ave.
1911	Pleasant,	655.7	2,368.6	Richmond Ave. to Beeching.
1910	Quinsigamond Ave.,	222.2	1,467.9	Intersection Millbury St.
1907	Salem Sq.,	366.0	1,061.3	W. S., Front to Franklin.
1912	School,	557.1	1,283.0	Main to Union Sta.
1910				
1911	Shrewsbury,	2,045.7	12,590.7	Washington Sq. to Henry.
1912				
1908	Shrewsbury,	490.8	1,412.0	So. Roadway, Henry to Lyon Sta.
1905	Southbridge,	878.1	2,327.0	Main to Madison Sta.
1896				
1900	Southbridge,	1,775.0	7,633.0	Hammond to Washburn.
1911				
1901	Southbridge,	870.0	2,572.8	Washburn to Cambridge.
1909-10	Southbridge,	1,506.5	5,916.2	Cambridge to College Sq.
1918	Southgate,	290.0	981.6	New Southgate to N. & W. R. R.
1907	Spring,	339.3	575.9	Front to Mechanic.
1911	South Irving			
	(Now Irving),	552.3	1,247.4	Chandler to Wellington.
1912	Summer,	103.0	355.8	Washington Sq. to B. & M. R. R.
1910-12	Summer,	8,801.3	4,928.2	E. S. B. & M. R. R. to Belmont St.
1911-17	Summer,	1,833.8	2,705.2	W. S. B. & M. R. R. to Thomas St.
1912	Tainter,	622.7	1,574.8	Gardner to Wyman Sta.
1914	Tainter,	254.0	761.6	Grand to Wyman Sta.
1912	Temple,	104.8	301.2	Green St., easterly.
1910	Thomas,	52.0	200.4	Intersection Commercial St.
1908	Trumbull,	501.0	1,712.9	Front St. to Trumbull Sq.

1912	Trumbull Sq.,	284.5	752.2	Washington to Bartlett Sta.
1908	Union Sq.,	182.8	625.5	Front of Fire House.
1911	Union,	58.4	254.3	Intersection of Central.
1911	Union,	45.0	165.3	Intersection of Thomas.
1901-12	Vernon Sq.,	180.0	898.8	East side.
1899	Vernon,	1,168.0	3,597.0	Vernon Sq. to Dorchester.
1910-12	Washington,	600.0	1,798.4	Plymouth St., northerly.
1911-12	Washington Sq.,	454.8	4,670.8	Front St., easterly.
1896	Water,	1,694.0	6,274.0	Vernon Sq. to Union Sq.
1911	Webster Sq.,	100.0	1,171.8	Main to Webster St.
1910	West Boylston,	2,741.8	4,111.8	W. side, Chadwick Sq. to Merrill Rd.
1912	West Boylston,	1,610.7	2,541.8	W. side, Merrill Rd. to Millbrook.
		84,423.6	255,984.8	

**GRANITE BLOCKS (OLD BLOCKS RELAI) ON CONCRETE FOUNDATION WITH JOINTS
AND SURFACE GROUTED WITH CEMENT**

DATE	STREET	LENGTH	SQ. YDS.	LOCATION
1905	Bartlett,	608.0	1,102.5	Front to Franklin.
1913	Beaver,	785.0	2,513.4	Florence, westerly.
1910	Belmont,	558.0	1,628.5	Lincoln Sq. to Fountain.
1909-10	Belmont,	1,766.7	3,618.8	So. side, Edward to Stanton.
1913	Belmont,	795.5	1,591.5	No. side, Edward to Eastern Ave.
1911	Bradley,	924.9	2,789.4	Washington to Gold Sta.
1915		234.5	716.0	Front to Mechanic.
1917	Bridge,	486.3	1,606.6	Foster to Summer.
1905	Cambridge,	671.5	1,978.1	Quinsigamond Ave. to Kansas St.
1904	Chandler,	1,972.0	4,270.8	Queen to Park Ave.
1910	Channing,	169.7	218.4	E. S., Kendall St., northerly.
1904	Cherry,	335.4	806.0	Vine to Harding.
1910	Cypress,	853.9	786.5	No. Foster to Exchange.
1910	E. Worcester,	1,025.1	3,297.9	Shrewsbury to Plum Sta.
1905	Ellsworth,	133.9	396.8	Quinsigamond Ave., easterly.
1910	Grafton,	1,088.0	1,894.1	No. side, Winter to Penn Ave.
1909	Grafton,	891.5	2,438.5	Barclay to Houghton.
1910	Kendall,	90.0	105.4	No. side, Channing St., west.
1915	Lincoln,	682.6	1,792.4	Sawyer's Lumber yd. to Catharine St.
1900-1	Manchester,	640.0	1,375.2	Union to Bridge.
1908	Millbury,	2,021.0	2,260.7	E. side, Endicott to Quinsigamond Ave.
1908	Millbury,	1,280.9	1,332.8	W. side, Quinsigamond Ave., southerly.
1908	Millbury,	2,316.0	2,943.7	E. side, Ballard St., northerly.
1914-15	Millbury,	298.9	925.6	Ballard St. to Middle River.
1904	Millbury,	291.5	512.5	E. side, Middle River to Middle R. Rd.
1910	No. Foster,	889.0	1,081.4	Commercial to Union.
1904	Pleasant,	114.0	124.0	No. side, Main St., westerly.
1917	Portland,	838.0	1,084.2	Franklin to Federal.
1911	Prescott,	1,072.6	4,012.8	Lincoln Sq. to Lexington.
1904	Salem,	775.6	1,842.4	Franklin to Myrtle.
1909	Sargent,	499.8	1,496.6	Southbridge to Lamartine.
1906-7	Southbridge,	3,186.7	3,204.4	Madison to Hammond.
1916	Thomas,	573.8	1,431.4	Main to Union.
1915	Union,	931.8	2,368.3	Lincoln Sq. to School St.
1916	Union,	307.0	910.3	School to Thomas.
1904	Warren,	201.7	469.5	Front to Cherry Sta.
		29,890.3	67,196.2	

GRANITE BLOCKS LAID ON SAND FOUNDATION, WITH SAND JOINTS

DATE	STREET	LENGTH	SQ. YDS.	LOCATION
	Blackstone,	510.0	1,985.0	Bridge to Charles.
	Chandler,	2,275.0	5,332.4	Main to Queen.
	Franklin,	346.0	680.0	B. & A. freight house.
	George,	100.0	188.0	Main St., westerly.
	Hermon,	200.0	592.0	Southbridge St., westerly.
	Mulberry,	304.0	889.0	Shrewsbury to Fulton Sta.
	Portland,	964.0	3,270.8	Federal to Madison Sq.
	Shrewsbury,	754.5	2,115.9	So. Roadway, Lyon to Casco.
	Summer,	845.0	1,307.0	Central to School Sta., West side.
	Thomas,	564.7	1,175.9	Union to Summer Sta.
	Union,	1,395.8	3,947.1	Thomas to Foster.
		8,259.0	21,488.1	

GRANITE BLOCKS (GROUTED) ON SAND

1900	Channing,	123.8	147.9	West side, Kendall, northerly.
1913	Ludlow,	366.5	814.4	Hamburg St., southerly.
1911	Maple,	149.8	295.2	Main St., westerly.
1900	Pleasant,	2,825.0	6,515.5	West to Park Ave.
		<u>3,465.1</u>	<u>7,778.0</u>	

CONCRETE PAVEMENT

DATE	STREET	LENGTH	SQ. YDS.	LOCATION
1912	Assonet,	60.00	156.0	Plymouth St., southerly.
1912	Beaver,	567.60	1,807.1	Park Ave., easterly.
1909	Belmont,	1,118.85	3,487.4	Fountain to Edward Sta.
1906	Boynston,	1,423.00	4,181.0	Highland to Salisbury Sta.
1913	Burncoat,	1,323.5	4,628.4	Brittan Sq. to Millbrook.
1907	Canterbury,	2,865.7	7,922.3	Hammond St. to Morse Ct.
1912	Canterbury,	1,515.8	4,416.9	Morse Ct. to Cambridge St.
1906	Franklin,	598.15	1,675.3	Freight house to Norfolk St.
1915	Maple Place,	204.7	412.7	Maple Terrace, Northwestery.
1913	Millbury,	182.5	911.4	Intersection with Greenwood.
1911	Pleasant,	2,070.7	6,634.8	June to Richmond Ave.
1911	Pleasant,	398.5	1,391.7	Beeching to Lenox Sta.
1912	Plymouth,	96.7	238.7	Assonet St., easterly.
1914	Russell,	331.3	1,863.5	Elm to Cedar St.
1905	Salem,	72.9	143.6	Madison St., northerly.
1912	Vernon,	210.0	553.1	At Suffield St.
1914	Vernon,	499.5	1,264.6	N. line, Syme to So. line, Alcott.
		<u>13,528.9</u>	<u>41,638.0</u>	

WARREN BROTHERS PAVEMENT

1902	School,	372.4	749.6	Union to Summer Sta.
1903	Webster Sq.,	101.8	148.2	Southeasterly side.
		<u>474.2</u>	<u>897.8</u>	

WOOD BLOCKS

1912	Burnett,	32.5	77.0	On bridge over Kettle Brook.
1909	Fremont,	94.4	336.7	On bridge over Middle River.
1907	Grove,	37.0	71.5	On bridge over Mill Brook.
1912	Salisbury,	553.6	2,872.4	Lincoln Sq. to Grove.
1907	Southbridge,	94.6	253.8	On bridge over Middle River.
1906	Webster,	56.6	176.1	On bridge over Middle River.
		<u>868.7</u>	<u>3,817.5</u>	

LEGAL EXPENSES

An account should be established for legal expenses and payments for property and personal damages. These expenses are incurred both by reason of defects and through the operation of the employees liability laws and, of course, fluctuate on account of the seriousness of the accident and whether or not a large, dependent family is involved.

The legal expenses for 1917 were \$162.94 for property damage and \$10,834.58 for personal damage.

We are, at present, carrying two cases that amount to over \$1,000.00 per year and in addition to the above are the many cases of small injuries which occur from time to time. Of the above two cases, one runs until 1923 and one until

1925. At the present time, of course, the law has been in operation but a short time, and as time goes by these cases will accumulate and cause a serious deficit in the maintenance account. I would recommend a special account for this purpose, similar to the pension account now in force.

NECESSITY FOR IMPROVED TRAFFIC REGULATIONS

Although the grouting of granite blocks has never been done so thoroughly as in the past season and although we are using the deeper style 6" blocks, we are having breakdowns in paving within a short time after laying it, and also in the old work, which has previously stood us for from ten to twenty years. This is due to changes in transportation units and should be remedied. No vehicle should be allowed to travel on our streets carrying heavy loads at a speed exceeding six miles per hour, unless it is equipped with some sort of resilient tire to absorb the shock to the pavement.

I recommend that a bill be introduced, which will at least obligate the covering of steel tires with rubber on such types of vehicles, or other equally resilient coating which will absorb the shock now delivered on such types of pavement as above mentioned.

ROAD IMPROVEMENT ON TRUNK LINE ROADS

All proposed road improvements should be directed toward the betterment of all trunk line improvements on account of the increasing necessity for good trunk line truck routes.

This movement is one not alone affecting the city or state, but as a general assistance to the government in case need should arise for truck trunk line transportation.

It is interesting to note, although not generally understood, that the general type of state road or improved city street is of sufficiently durable construction to carry a general movement of ordnance, even to the heaviest guns. It would seem to the layman that the weight of heavy types of ordnance would utterly destroy the usual roadway surface, but as a matter of fact, the heavier types are so carried on caterpillar traction that the weight is spread and has usually less effect than the fast moving motor truck traffic.

Such breaks as Belmont Hill should be eliminated from any trunk line route.

LAKE HILL

The widening and construction of at least one side of the roadway on Belmont Street, leading down to the new lake bridge and the relocation of the Worcester Consolidated Street Railway tracks, should be done this coming season. This section makes a bad break in the trunk line from Boston to New York, and on account of the condition of freight facilities and the increased use of trucks this objectionable feature which has existed for so many years should be eliminated. It is impossible to properly hold a gravel surface on this main trunk line with the heavy travel it receives on a hardpan hill, without an expenditure unwarranted, considering the probability of its entire relocation and reconstruction.

If for no other reason than to have it in keeping with the new lake bridge and as a proper introduction into the city of Worcester, this stretch of road should be completed in 1918.

STOCK FOR 1918

Thirty carloads of cement have been ordered and should be received before January 1st, 1918.

Five hundred tons of asphalt have been ordered for December delivery and should be here this month. This should be a full season's supply of asphalt and we have storage room for only this amount of cement.

An attempt has been made by us to round up a full season's supply of blocks and curb for next season, but the only stock located up to the present is about 25,000 paving blocks, which should be in our yard before January 1st. No more curb and no more blocks are in existence in any reasonably handy quarrying plant.

We have had one carload of soft coal, but as yet have been unable to secure more.

TRESTLE EXTENSION AND BINS

Four stone bins have been constructed on the trestle and an industrial railway extension, with coal pockets, has been built.

OIL TANKS AT SALEM STREET

In the matter of handling oils and bitumens we are now equipped at our Salem Street yard equal to any city in New England.

For the heavy bitumens, needing direct heat, we have a 15,000 gallon tank equipped with a set of grates and a stack,

which give us the necessary high temperature, using less than a quarter of the coal formerly needed in our heating by steam.

In addition to the above we have two tanks of 10,000 gallons' capacity each, equipped with steam coils for the intermediate grades of material, requiring less heat.

For the road oils one of the above tanks is used, in addition to two 3,500-gallon tanks, when necessary.

Steam heating connections are also provided for drawing off cars, all being handled by gravity from the cars into tanks and from the tank into trucks.

GARAGE SPACE NEEDED

Unless garage accommodations are provided, it will be necessary to hire space in some public garage, before very cold weather sets in. This matter has been repeatedly brought out in past annual reports, but nothing has come of the recommendation. The garage conditions at Salem Street are directly in contravention with the state law, regarding same, and I do not feel desirous of longer carrying the criticism and possibly the legal liability which would accrue to me in case of a serious accident in the garage, although conditions are continued under no personal desires on my part and are as I found them when I came.

Plans have been drawn and completed since November, 1915, which would take care of this situation, if the necessary appropriations were forthcoming.

BITUMINOUS MIXING PLANT

This plant, now located at Harlow Street yard, should be shifted to the Salem Street yard, properly housed and protected and located beside the new trestle, just north of the road oil tanks. This plant is now the only piece of equipment of a stationary nature which is not under control of the Salem Street yard. Located here we could easily deliver the necessary material by either freight or truck to the plant and be in touch with it at all times.

PORTABLE CRUSHING PLANTS

The two portable crushing plants located, one at the Home Farm and the other in the rear of Smith's Mill in

Tatnuck, have been the real lifesavers of the department this year. Had it not been for them, we would have been wholly unable to procure enough stone and sand to carry on business this season. The plant in Tatnuck is now operating to provide stone for next season, but the one at Home Farm has to be relocated.

CRUSHING PLANT

The coming season will, no doubt, owing to national conditions, make imperative the acquisition of a large local crushing plant, which should have been established long before now. The embargo on open top cars, other than flat cars, has deprived us of any service by railroads from outside the city, and we will have to produce locally in order to proceed with our work. This matter should be taken under advisement early, in order to be equipped for the commencement of work in the spring. There is no doubt in my mind but that road materials in general will be embargoed for transportation before spring.

NEW STEAM SHOVEL

A steam shovel was purchased early in the season and has equalled the labor of a great many hand shovellers at a time when shovellers were most needed elsewhere by the department. Some idea of its capacity can be gained from its performance of one morning when it loaded twelve teams and three trucks with crushed stone in twenty-five minutes.

GASOLENE WAGON LOADER

Owing to shortage of labor and as an economy to the department, a loader should be purchased for the department.

SCHEDULE OF REAL AND PERSONAL PROPERTY IN CHARGE OF THE STREET DEPARTMENT

November 30, 1917

24,640 sq. ft. of land on Albany Street.....	\$7,392 .00	
30,785 sq. ft. of land on Harlow Street.....	5,557 .00	
85,000 sq. ft. of land on Millbury and Ballard sts...	850 .00	
64,904.4 sq. ft. of land cor. Pleasant and Mower sts.	6,490 .44	
74,698 sq. ft. of land on Salem Street.....	74,698 .00	
Stables and sheds, Salem Street.....	57,899 .49	
9,504 sq. ft. land on Southbridge St. with bldgs....	9,500 .00	
		\$162,386 .93
Automobiles, trucks, etc.....	\$12,575 .00	
Furniture.....	700 .00	
Harnesses, robes, blankets, etc.....	2,677 .20	
Hay, grain and straw.....	2,836 .00	
Live stock, 39 horses.....	10,279 .00	
Machinery and tools.....	15,139 .10	

Materials in stock.....	10,272 .50	
Rolling stock.....	11,363 .00	
Scales and buildings.....	481 .00	
Stone crusher, bldgs., etc., bit. mixing plant.....	7,800 .00	
Steam rollers, ten.....	15,600 .00	
Trestle.....	10,000 .00	
		<u>\$99,722 .80</u>
Total for real and personal property, November 30, 1917		\$262,109 .73

BRIDGES

Money should be provided also for a new top on the new speedway culvert near Tatnuck, for the bridge at the South Works of the American Steel & Wire Co., and for the Foster Street bridge near the fire station.

BRIDGE AT SUMMIT

Owing to very dangerous conditions at the Summit bridge, action should be taken to straighten and replace the old bridge crossing the Boston & Maine Railroad at this point and eliminating the chance of a very dangerous accident at this point, which chance will be much more likely to happen after the completion of the new speedy-top surface which will be completed next year by the State Highway Commission, which extends from this bridge to West Boylston.

CAMBRIDGE STREET BRIDGE OVER BOSTON & ALBANY RAILROAD

The County Commissioners have held a hearing on the construction of a new bridge over the Boston & Albany Railroad tracks, at Cambridge Street. A postponement was granted to allow the city of Worcester time, in case they desired, to provide plans and appropriations to increase the width and strength of the bridge.

The original plans call for the railroad company to reconstruct on the same lines and to the same strength as the original structure. The increase of traffic and provision for the future make it obligatory that the bridge should be made wider and stronger. The location of the present bridge is very narrow and dangerous. Some accidents have happened and some very narrow escapes have occurred at this point.

At a very small expense in addition to what money the Boston & Albany Railroad are ready to spend, the bridge could be swung around and widened to fit and accommodate the traffic at this point.

SCHEDULE 1

BRIDGES AND REPAIRS—APPROPRIATION

Belmont Street.....	\$56 .88
Burnett Street.....	9 .08

Cambridge Street.....	59.04	
Cataract Street.....	2.52	
Crystal Street.....	19.42	
Foster Street.....	68.19	
Fremont Street.....	253.24	
Grove Street.....	46.42	
Ludlow Street.....	12.80	
Middle River Road.....	14.85	
Mill Street.....	28.63	
Millbrook Street.....	379.43	
Millbury Street.....	255.58	
Moreland Street.....	12.56	
Olean Street.....	39.96	
Southbridge Street.....	69.39	
Stafford Street.....	100.98	
Sundry streets, engineering.....	16.80	
Webster Street.....	40.01	
Total net expenditures as per Exhibit B.....		\$1,485.73

CONSTRUCTION

The order for the construction of the diagonal street, leading from the corner of Thomas and Commercial streets to the corner of School and Union Streets, was voted this season, but owing to the fact that the settlements for land damages were not completed, the department was unable to commence work on its construction. It will be necessary to complete this work quickly in the spring, as the decree expires May 22, 1918. The diagonal will complete a street paralleling Main Street, from Lincoln Square to Madison Square, except the break of the Common, from Commercial to Portland Street.

Another valuable construction order, which should be voted, is the extension of Park Avenue, from Mill Street to the junction of Main, Stafford and Lakewood streets. This will give an easy access to Park Avenue and will tend to deflect some of the north, east and west bound traffic from Main Street, as anyone may pass through either north or south on Park Avenue and work through to the east on either Elm or Highland Streets, avoiding the congested travel of South Main Street.

There was the usual lot of private streets constructed, list of which follows:

Ashwood Street, Acton to Park Terrace Road.

Brunswick Street, Ames to Upsala.

Chamberlain Parkway, Pleasant to So. Lenox.

Fairview Terrace, present terminus to east line land of Herman Stake.

Moore Avenue, High Ridge Road to so. line No. 75-76.

Montvale Road, Salisbury to Waconah Road.
Pilgrim Avenue, Grafton Street, southerly.
Rhodes Road, Hadwen Road, northeasterly.
Scrimgeour Road, West Boylston to Proctor.
So. Lenox Street, Pleasant to Colonial Road.
Sterling Street, Windham to Harlem Street.
Wakefield Street, Lincoln to Green Hill Parkway.
Fifth Avenue, Millbury to Vernon Streets.

Much more satisfactory conditions would be in existence in our city if each street were taken over and constructed by the city when it was first laid out, and in the end it would be much cheaper for the abutters. Although passed as a paving order, Southbridge Street, from Madison to Sargent streets is as much in the line of a reconstruction as it is paving, in the idea of its layout. The tracks have been shifted to the west and there is now room enough on the east side of the street for cars to pass a standing vehicle. The curb has been moved back on the west side of the street, and the entire layout and work of construction so organized or perfected, that in case a widening is made none of the present paving will need to be disturbed.

Another season has passed, and still nothing has been done on Highland Street. A grand opportunity is offered to make this street one of the future main highways from the west side to the heart of the city and still it is neglected year by year. Hardly a building is affected by this project in the entire distance, from Main Street to Newton Square; yet in a few years, unless the proposition is at once acted upon, this street will be so lined with buildings that the monetary expenditure will kill the proposition. This necessity for widening is also holding back any change in repaving this street, which needs resurfacing very badly.

Murray Avenue extension is under way, and when opened through to Chandler Street will, no doubt, if the mouth of Chandler Street is opened at Main Street, do its share in relieving a portion of the crowded condition of Main Street South.

Although the land has been taken, nothing further has been done on constructing Harding Street.

The city of Worcester has a total of two hundred twenty-two and seventy-nine hundredths (222.79) miles of public streets, of which twenty-seven and seventy-nine hundredths (27.79) miles are paved, eighty-nine and ninety-five hundredths (89.95) miles are macadamized and one hundred five and five hundredths (105.05) miles are of gravel and dirt construction.

CONSTRUCTION APPROPRIATION		SCHEDULE 2		
STREET	LOCATION	MATERIAL	LENGTH	COST
*Ashwood.....	Acton Street to Park Terrace Road.....	Bit. Macadam	611.5'	\$399.36
Brunswick.....	Ames to Upsala Streets and Relocation Southeast Line			
Chamberlain	Ames Street Southwesterly.....	Bit. Macadam	388.0'	2,629.74
	Parkway	Bit. Macadam	591.7'	2,684.03
Fairview Terrace.....	Pleasant to South Lenox Street.....	Bit. Macadam	452.8'	2,102.72
Fifth Avenue.....	Present Terminus to East Line, Land of Herman Stake.	Bit. Macadam	1,200.0'	8,419.06
*Marsh Avenue.....	Millbury to Vernon Street.....	Bit. Macadam	1,825.5'	697.58
Montvale Road.....	Lincoln Street to Green Hill Avenue.....	Bit. Macadam	380.0'	1,491.05
Moore Avenue.....	Salisbury Street to Waconah Road.....	Bit. Macadam	1,572.1'	8,053.45
†Murray Avenue.....	High Ridge Road to South Line, No. 75 and No. 76	Block Paving	257.8'	489.09
New Street.....	Wellington Street to Northeast Line, Taylor Estate.....			
	Intersection of Commercial and Thomas Streets to			
	Intersection of School and Union Streets.....			
Pilgrim Avenue.....	Grafton Street, Southerly.....	Block Paving	352.5'	351.59
*Rhodes Road.....	Hadwen Road, Northeasterly.....	Bit. Macadam	463.0'	2,451.22
Scrimgeour Road.....	West Boylston to Proctor Streets.....	Bit. Macadam	729.5'	1,786.64
South Lenox.....	Pleasant Street to Colonial Road.....	Bit. Macadam	820.0'	4,328.38
Sterling.....	Windham to Harlem Streets.....	Bit. Macadam	1,560.0'	4,100.98
Sunderland Road.....	B. & A. Railroad, Easterly.....	Monuments	243.0'	1,202.16
Sundry Streets.....	Appraisals, Incidentals, etc.....			107.38
Sundry Streets.....	Engineering in Anticipation of Orders.....			319.84
Wakefield.....	Lincoln Street to Green Hill Parkway.....	Bit. Macadam	1,007.0'	1,997.72
	Total Net Expenditures as Per Exhibit C.....			\$52,085.14

*Begun 1916. †Unfinished.

MAINTENANCE

Much good has been accomplished by the use of the plant mix, such as has been applied on portions of Merrick Street, Grafton Street, West Boylston Street, and Pleasant Street.

Three years ago this type of resurfacing was applied on Merrick Street, between Pleasant and Elm streets at about \$1.00 per square yard. This pavement has been flushed daily in the same manner as our \$3.25 grouted, granite block paving, and as yet shows no signs of deterioration. A similar type of paving on Park Avenue from Elm to Highland streets, mixed by hand, instead of by mechanical mixing plant, stood the traffic for six years, before needing any repairs, and to-day after seven years is about as good as new.

There are many streets upon which such a type of resurfacing would be very valuable, which would do their part in relieving traffic conditions by absorbing their proportionate amount of travel, but which do not get it now, on account of the condition of their surfaces. A few of these are mentioned below:

East Central, Highland, Lincoln, Burncoat, Randolph Road, Barber Avenue, Quinsigamond Avenue, Winter, Harding, Grafton, Southbridge, Fremont, Cambridge, Vernon, Providence, Sever, Fruit, Murray Avenue, Beacon, Hermon and Washington.

It is not to be understood that all portions of the above mentioned streets are included and not even all unpaved portions, because this material, like a great many smooth pavements, is unsuitable to steep grades, but it certainly does make a clean, sanitary and durable job at a minimum of cost and can be flushed every night as our heavy types of paving are.

It was deemed advisable, owing to the condition of Harding Street, to resurface the section from Franklin to Pond streets with bituminous macadam. It was impossible to hold the street in any sort of shape with the old water packed macadam, with which it was constructed. Even though a construction order should soon be voted, the material used on the street this season is serviceable on any of the side streets in this immediate vicinity.

SCHEDULE 3

MAINTENANCE—APPROPRIATION

REPAIRS

Miscellaneous Orders

Bridle Path.....	\$1,303.91
Burncoat Street, at schoolhouse, widen	1,182.23

Green Hill Parkway, resurface..... 279.97

Total..... \$2,766.11

BETWEEN TRACK REPAIRS—SPECIAL

West Boylston Street, west track.....
 Huntington Avenue, northerly to Fair Grounds..... \$1,247.82

\$1,247.82

BETWEEN TRACK REPAIRS

Belmont Street..... \$591.10
 Burncoat Street..... 51.49
 Canterbury Street..... 2.32
 Chandler Street..... 170.95
 East Worcester Street... 10.90
 Grafton Street..... 20.95
 Lincoln Square..... 330.89
 Millbury Street..... 14.15
 Park Avenue..... 21.25
 Portland Street..... 3.48
 Shrewsbury Street..... 55.78
 Southbridge Street..... 12.04
 Summer Street..... 3.40
 Vernon Street..... 361.73
 West Boylston Street... 1.64

Total..... \$1,652.07

CULVERT REPAIRS

Brattle Street..... \$1.00
 Brooks Street..... 10.27
 Coes Street..... 17.04
 Flagg Street..... 19.89
 Forest Street..... 16.10
 Grand View Avenue... 5.47
 Granite Street..... 11.44
 Greenwood Street..... 26.44
 Holden Street..... 2.46
 Lincoln Street..... 7.32
 Ludlow Street..... 1.28
 May Street..... 29.84
 Mountain Street..... 15.77
 Park Avenue..... 8.59
 Pleasant Street..... 43.74
 Southbridge Street..... 27.96
 Stafford Street..... 121.89
 West Boylston Street... 6.29

Total..... \$372.79

CROSSWALK REPAIRS

Arlington Street..... \$56.10
 Beeching Street..... 5.73
 Belmont Street..... 88.04
 Cambridge Street..... 7.89
 Clinton Street..... 6.09
 Coral Street..... 3.31
 Crown Street..... 19.41
 Dix Street..... 4.14
 Dorchester Street..... 19.83
 Eastern Avenue..... 6.00
 George Street..... 3.17
 Grace Street..... 20.91
 Grand Street..... 3.05
 Harding Street..... 2.46
 High Street..... 3.59
 Lincoln Street..... 22.47
 May Street..... 11.79
 McKinley Road..... 21.00
 Mendon Street..... 15.50
 Oxford Street..... 10.60
 Pattison Street..... 16.30
 Salem Square..... 78.60
 Stoneland Road..... 32.20
 Summer Street..... 20.68
 Waverly Street..... 166.18

Total..... \$645.04

GENERAL REPAIRS

Abbott Street..... \$23.83
 Adams Street..... 21.82
 Aetna Street..... 1.25
 Aitchison Street..... 1.00
 Albert Street..... 2.17
 Allen Street..... .50
 Alvarado Avenue..... 237.72
 Ames Street..... 116.53
 Apricot Street..... 140.34
 Ararat Street..... 109.08
 Armory Square..... 17.00
 Ashland Street..... 16.96
 Ashwood Street..... 10.46
 Austin Street..... 11.82
 Bailey Street..... 118.57
 Bancroft Street..... 30.66
 Barber Avenue..... 342.36
 Barclay Street..... 1.40
 Beacon Street..... 45.00
 Beeching Street..... 30.64
 Bellevue Street..... 322.57
 Belmont Street..... 2,406.68

Bigelow Street	12.00	Exeter Street	15.95
Birch Street	11.72	Fairhaven Road	170.08
Blithewood Avenue	209.44	Fairview Terrace	1.62
Bluff Street	56.72	Fales Street	9.50
Boardman Street	12.33	Ferdinand Street	8.28
Branch Street	3.75	Flagg Street	99.29
Brattle Street	49.47	Florence Street	148.29
Bridge Street	18.72	Forbes Street	5.90
Brooks Street	106.75	Ford Street	154.27
Brussels Street	10.01	Forest Street	517.87
Burncoat Street	1,283.79	Foster Street	3.65
Byron Street	14.16	Fowler Street	259.20
Cambridge Street	330.02	Fox Street	8.14
Camp Street	10.74	Franconia Street	32.59
Caro Street	140.99	Franklin Street	186.16
Carroll Street	1.16	Freeland Street	222.18
Castle Street	40.18	Fremont Street	402.38
Catharine Street	71.63	Gage Street	21.05
Cedar Street	47.58	Gates Lane	99.27
Central Street	25.52	Gates Street	15.12
Chandler Street	719.34	George Street	383.10
Cheever Street	3.14	Gilman Street	23.64
Chester Street	89.28	Grafton Street	188.51
Chestnut Street	24.48	Grand Street	3.55
Chrome Street	1.58	Grand View Avenue	67.03
Church Street	9.28	Granite Street	674.33
Circuit Avenue	9.12	Green Hill Parkway	268.87
Claremont Street .....	.50	Green Street	94.93
Clark Street	168.75	Greenwood Street	250.93
Clayton Street	4.88	Grosvenor Street	2.69
Clifton Street	38.84	Grove Street	1.68
Coburn Avenue	150.23	Hadwen Lane	437.24
Coes Street	32.96	Hamilton Street	2,068.72
College Street	110.77	Harding Street	81.25
Columbia Street	5.37	Harlem Street	10.00
Columbus Street	8.53	Harlow Street	61.34
Congress Street	3.59	Harrington Way	343.02
Crescent Street	803.71	Harrison Street .....	.50
Cristy Street	1.70	Harvard Street	32.64
Crown Street	5.31	Haviland Street	39.69
Cutler Street	4.82	Heard Street	271.38
Derby Street	242.30	Heywood Street	281.49
Dix Street	20.43	Holden Street	116.95
Dorchester Street	171.20	Hollis Street .....	.50
Douglas Street	11.48	Hope Avenue	6.12
East Central Street	14.51	Howland Terrace	26.89
Eastern Avenue	492.42	Huntington Avenue	4.00
East Kendall Street	41.81	Institute Road	34.97
Einhorn Road	14.33	Irving Street	16.91
Ekman Street	4.20	Jackson Street	19.99
Elm Street	143.79	James Street	27.74
Elmwood Street	39.23	Jaques Avenue	37.72
Endicott Street	9.68	Jefferson Street	32.92
Euclid Avenue	1.00	June Street	295.45
Everard Street .....	.50	Kendall Street	56.91
Exchange Street	9.68	King Street	67.07

Kingsbury Street	54.23	Plantation Street	856.24
Lake Avenue	1,268.77	Pleasant Street	450.10
Lamartine Street	54.04	Plympton Street	2.56
Ledge Street	33.76	Portland Street	105.05
Lenox Street	14.70	Prentice Street	41.87
Lincoln Street	480.29	Prospect Street	84.18
Linden Street	9.54	Providence Street	340.39
Lovell Street	385.82	Putnam Lane	51.53
Ludlow Street	68.72	Quinapoxet Lane	45.08
Main Street	65.32	Randolph Road	280.88
Malden Street	35.04	Richmond Avenue	149.59
Malvern Road	74.34	Rockport Road	4.35
Maple Terrace	26.69	Rutland Terrace	9.16
Market Street	56.94	Safety Zones	2.00
Marsh Avenue	149.35	Sagamore Road	18.95
Mason Street	88.47	St. John's Road	23.50
Massasoit Road	8.66	Salem Street	18.88
May Street	1,369.44	Salisbury Street	1,007.05
McKinley Road	21.42	School Street	28.06
Mechanic Street	73.96	Schussler Road	14.64
Melrose Street	39.92	Sever Street	22.01
Mendon Street	74.64	Seward Street	112.49
Merrifield Street	7.00	Seymour Street	4.73
Metcalf Street	9.44	Shrewsbury Street	664.44
Middle River Road	54.87	Signs	1,722.90
Midland Street	37.47	South Street	9.20
Mill Street	757.48	Southbridge Street	456.17
Millbrook Street	341.96	Spring Street	18.72
Millbury Street	46.32	Spruce Street	5.04
Monadnock Road	55.34	Stafford Street	481.88
Monroe Avenue	16.07	Stebbins Street	11.65
Montrose Street	26.68	Sterling Street . . . . .	.98
Moreland Street	4.20	Stockholm Street	4.08
Mountain Street	114.41	Suffield Street	1.00
Mower Street	402.67	Suffolk Street	19.40
Mulberry Street	103.70	Summer Street	31.70
Nevada Street	6.56	Sunderland Road	158.07
New Bond Street	39.42		
Newton Avenue	35.58		
Newton Square	2.88	<i>Sundry Streets:—</i>	
Norfolk Street	122.86	Engineering, monu-	
North Street	6.88	ments, etc.	1,567.08
Oberlin Street	6.42	Estimates	181.13
Olean Street	106.88	Inspection	227.27
Olga Avenue	14.11	Line and Grade	2,572.11
Oliver Street	54.84		
Orange Street	45.53	Sutton Lane	4.16
Oread Street	2.69	Tainter Street	80.44
Orient Street	6.12	Tatman Street	12.29
Orne Street	7.42	Thomas Street	34.18
Park Avenue	1,092.25	Thorne Street	66.48
Parker Street	4.68	Upland Street	26.06
Pemberton Street	30.82	Upsala Street . . . . .	.50
Penn Avenue	11.80	Uxbridge Street	29.03
Perry Avenue	25.70	Vernon Street	79.40
Piedmont Street	35.24	Waconah Road	31.63
Pilgrim Avenue	77.85	Walpole Street	149.23

Ward Street	50	Dixon Avenue	11 25
Washington Square	24 96	Douglas Street	12 85
Water Street	16 90	Dover Street	25 96
Webster Street	221 28	Downing Street	2 50
Wellington Street	16 72	East Central Street	112 80
West Street	61 18	Eastern Avenue	84 06
Westborough Street	21 98	East Shelby Street	18 42
West Boylston Street	96 94	East Worcester Street	22 98
Westland Street	226 38	Eden Street	1 58
Westminster Street	16 97	Ekman Street	6 25
Wetherell Street	16 18	Ellsworth Street	36 44
Whipple Street	341 80	Endicott Street	33 79
William Street	11 20	Esther Street	7 25
Windsor Street	21 27	Exchange Street	24 03
Winfield Street	68 30	Fairmont Avenue	52 21
Winslow Street	15 06	Fales Street	12 66
Winter Street	9 58	Faraday Street	27 46
Woodland Street	38 35	Frederick Street	31 28
Worth Street	12 94	Fruit Street	34 84
Young Street	17 87	Gage Street	107 67
		Garden Street	197 94
		Gates Street	14 60
Total	\$40,342 26	Germain Street	29 37
		Gold Street	23 05
		Gosnald Street	1 25
		Goulding Street	1 00
		Grafton Street	130 60
		Grand Street	16 94
		Greenwood Street	65 75
		Grove Street	150 81
		Hacker Street	6 80
		Hadwen Lane	24 00
		Hammond Street	59 16
		Hampden Street	9 21
		Hanover Street	14 21
		Harding Street	783 86
		Harvard Street	48 90
		Hawley Street	66 69
		Henry Street	176 48
		Herron Street	24 96
		High Street	46 68
		Highland Street	25 25
		Holland Road	143 70
		Houghton Street	19 96
		Hudson Street	43 06
		Institute Road	15 77
		Ionic Avenue	6 09
		Irving Street	206 21
		Jaques Avenue	6 00
		June Street	5 92
		King Street	42 69
		Lafayette Street	69 63
		Lagrange Street	63 42
		Lakewood Street	16 78
		Lamartine Street	216 84
		Lancaster Street	40 62
		Larch Street	9 10
		Laurel Street	114 36

MACADAM REPAIRS

Albany Street	\$16 70
Arch Street	2 55
Arlington Street	15 18
Assonet Street	6 09
Austin Street	37 93
Beacon Street	103 66
Beaver Street	9 60
Belmont Street	88 12
Benefit Street	31 42
Berwick Street	64 75
Blake Street	20 91
Blanche Street	17 86
Bourne Street	28 87
Bradley Street	24 86
Burncoat Street	3 98
Cambridge Street	260 74
Carroll Street	10 00
Cedar Street	36 97
Central Street	48 93
Chandler Street	171 47
Channing Street	17 12
Chatham Street	223 38
Chelsea Street	6 53
Clear View Avenue	44 00
Commercial Street	28 76
Congress Street	14 40
Crompton Street	3 73
Crown Street	17 40
Cutler Street	1 50
Dayton Street	33 46
Dewey Street	57 78

Park Avenue.....	18.25	Stafford Street.....	106.10
Perry Avenue.....	.75	Sterling Street.....	341.70
Piedmont Street.....	202.30	Stone Street.....	15.68
Pilgrim Avenue.....	68.49	Temple Street.....	200.29
Plane Street.....	47.52	View Street.....	2.54
Plantation Street.....	254.10	Wachusett Street.....	48.94
Pleasant Street.....	.55	Ward Street.....	105.96
Salisbury Street.....	8.92	Webster Square.....	1.28
School Street.....	2.38	Webster Street.....	257.98
Seymour Street.....	10.12	West Boylston Street...	823.12
Shannon Street.....	41.14		
Shrewsbury Street.....	2,463.03	Total.....	\$11,739.70
South Street.....	69.16		

BITUMINOUS MACADAM REPAIRS—RESURFACING

Grafton Street, Hale Street to Rice Square.....	\$5,234.48		
Harding Street, Franklin to Pond streets.....	2,321.19		
Lincoln Square.....	2,234.74		
Maple Terrace and Maple Street.....	597.31		
Pleasant Street, Park Avenue to June Street.....	8,728.66		
West Boylston Street, Wildey Avenue to Barber's Crossing.....	2,200.40		
Total.....		\$21,816.78	

BLOCK PAVING REPAIRS

Beaver Street.....	\$8.96	Union Street.....	126.73
Belmont Street.....	10.40	Vernon Square.....	163.06
Bridge Street.....	10.06	Vernon Street.....	14.40
Chandler Street.....	60.09	Washington Square.....	22.28
Channing Street.....	22.52	Washington Street.....	56.68
Commercial Street.....	29.64	Webster Square.....	.50
Cypress Street.....	.50	West Boylston Street...	117.53
East Worcester Street...	45.98	Total.....	\$3,695.99
Ellsworth Street.....	3.00		
Federal Street.....	.34	BRICK PAVING REPAIRS	
Foster Street.....	.55	Church Street.....	\$14.07
Franklin Street.....	115.31	Foster Street.....	43.99
Front Street.....	16.72	Pearl Street.....	34.30
Gardner Street.....	2.70	Total.....	\$92.36
Grafton Street.....	487.26		
Green Street.....	136.76	CONCRETE PAVING REPAIRS	
Grove Street.....	206.64	Assonet Street.....	\$8.57
Lincoln Square.....	19.40	Beaver Street.....	50.00
Lincoln Street.....	150.92	Belmont Street.....	87.60
Madison Street.....	25.51	Boynton Street.....	80.50
Main Street.....	920.27	Canterbury Street.....	1,023.10
Millbury Street.....	189.50	Franklin Street.....	221.92
Mulberry Street.....	18.16	Grove Street.....	70.00
Pleasant Street.....	244.30	Millbury Street.....	4.70
Portland Street.....	15.84	Pleasant Street.....	321.76
Prescott Street.....	3.94	Salem Street.....	4.05
Salem Street.....	13.25	Vernon Street.....	30.00
Shrewsbury Street.....	29.41	West Boylston Street...	81.80
Southbridge Street.....	92.84	Total.....	\$1,984.00
Summer Street.....	170.99		
Tainter Street.....	1.00		
Thomas Street.....	86.15		
Trumbull Square.....	55.90		

WOOD BLOCK PAVING REPAIRS

Main Street.....	\$1.55
Salisbury Street.....	1.00
Total	\$2.55

SIDEWALK REPAIRS—BRICK

Abbott Street.....	\$7.27	Dix Street.....	12.97
Adams Street.....	1.72	Dorchester Street.....	26.70
Aetna Street.....	4.43	Downing Street.....	2.72
Allen Street.....	2.15	Duxbury Road.....	1.17
Arch Street.....	7.86	East Central Street.....	2.73
Arlington Street.....	6.62	Eastern Avenue.....	29.22
Armory Square.....	1.76	East Kendall Street.....	14.21
Ash Street.....	3.28	East Worcester Street.....	1.25
Ashland Street.....	2.76	Edgeworth Street.....	1.40
Assonet Street.....	17.34	Elizabeth Street.....	4.14
Austin Street.....	31.68	Elliott Street.....	1.85
Bancroft Street.....	2.28	Elm Street.....	43.60
Barclay Street.....	33.08	Endicott Street.....	46.03
Beacon Street.....	14.90	Exchange Street.....	45.01
Bellevue Street.....	7.24	Florence Street.....	5.78
Belmont Street.....	91.19	Foster Street.....	3.96
Benefit Street.....	1.94	Fountain Street.....	16.65
Bigelow Street.....	7.79	Fox Street.....	15.12
Blackstone Street.....	6.76	Foyle Street.....	6.10
Blossom Street.....	3.97	Franklin Street.....	3.40
Bluff Street.....	4.10	Freeland Street.....	7.79
Boynton Street.....	1.07	Front Street.....	6.74
Bradley Street.....	2.16	Fruit Street.....	5.63
Bridge Street.....	102.44	Gage Street.....	55.08
Burncoat Street.....	2.18	Gardner Street.....	3.97
Cambridge Street.....	20.56	Gates Street.....	4.97
Canterbury Street.....	1.61	George Street.....	3.93
Carroll Street.....	7.12	Glen Street.....	6.69
Castle Street.....	3.45	Gold Street.....	3.52
Catharine Street.....	17.54	Goulding Street.....	2.15
Cedar Street.....	93.35	Grafton Street.....	110.13
Central Street.....	57.96	Grand Street.....	24.24
Chandler Street.....	20.31	Green Street.....	8.02
Charles Street.....	5.24	Greenwood Street.....	3.16
Charlotte Street.....	6.69	Grosvenor Street.....	6.38
Chatham Street.....	8.52	Grove Street.....	7.75
Chestnut Street.....	9.61	Hammond Street.....	18.36
Church Street.....	6.13	Hancock Street.....	1.48
Claremont Street.....	6.23	Hanover Street.....	10.22
Clayton Street.....	4.39	Harding Street.....	5.50
Clinton Street.....	11.92	Harrison Street.....	34.25
Columbia Street.....	57.32	Harvard Street.....	5.26
Commercial Street.....	13.35	Hawthorne Street.....	5.56
Concord Street.....	1.15	Hermon Street.....	5.73
Congress Street.....	8.07	High Street.....	4.50
Coral Street.....	11.84	Highland Street.....	51.30
Cottage Street.....	4.85	Hollywood Street.....	7.20
Crown Street.....	10.42	Home Street.....	2.95
Crystal Street.....	1.23	Hooper Street.....	6.68
Cutler Street.....	5.18	Hudson Street.....	12.83
Denny Street.....	7.63	Ingalls Street.....	5.72
		Irving Street.....	6.91
		Jaques Avenue.....	3.85
		Jefferson Street.....	22.37
		John Street.....	3.32
		Kendall Street.....	27.48
		Kilby Street.....	1.62
		King Street.....	4.77

Kingsbury Street.....	12.52	Prospect Street.....	3.02
Lafayette Street.....	30.95	Providence Street.....	24.49
Lakewood Street.....	12.21	Queen Street.....	1.50
Lamartine Street.....	24.09	Richards Street.....	44.47
Lancaster Street.....	3.01	Richland Street.....	5.74
Langdon Street.....	2.17	Ripley Street.....	3.04
Larch Street.....	3.38	Rockport Road.....	2.38
Laurel Street.....	11.87	Rodney Street.....	2.09
Ledge Street.....	7.37	Russell Street.....	17.39
Lewis Street.....	2.15	Salem Street.....	21.60
Lexington Street.....	12.21	Salisbury Street.....	17.66
Liberty Street.....	5.36	School Street.....	14.87
Lily Street.....	2.61	Sever Street.....	5.73
Lincoln Street.....	11.41	Seymour Street.....	11.36
Linden Street.....	2.12	Shaffner Street.....	10.45
Lodi Street.....	4.19	Shamrock Street.....	16.47
Loudon Street.....	3.03	Shattuck Street.....	2.16
Lowell Street.....	1.56	Shelby Street.....	4.61
Madison Street.....	.95	Shepard Street.....	14.43
Main Street.....	101.43	Shrewsbury Street.....	5.18
Maple Street.....	2.19	Sigel Street.....	2.22
Market Street.....	5.84	Silver Street.....	3.56
Mason Street.....	1.35	Southbridge Street.....	33.61
May Street.....	107.32	South Crystal Street.....	.87
Maywood Street.....	6.30	Spruce Street.....	12.66
McKinley Road.....	9.81	State Street.....	6.64
Mechanic Street.....	14.69	Sturgis Street.....	6.82
Mendon Street.....	2.05	Suffield Street.....	26.45
Merrick Street.....	9.79	Suffolk Street.....	14.86
Merrifield Street.....	8.11	Summer Street.....	16.23
Millbury Street.....	22.24	Tainter Street.....	.70
Mount Pleasant Street..	1.79	Taylor Street.....	12.14
Mower Street.....	1.00	Temple Street.....	4.86
Mulberry Street.....	3.03	Thomas Street.....	6.36
Murray Avenue.....	1.32	Thorne Street.....	3.16
Myrtle Street.....	7.15	Townsend Street.....	13.02
Newbury Street.....	15.05	Tremont Street.....	3.34
Norfolk Street.....	1.00	Union Street.....	8.04
North Street.....	2.50	Vernon Street.....	24.39
North Ashland Street....	9.97	Vinton Street.....	3.80
Oak Street.....	5.59	Wachusett Street.....	17.73
Orange Street.....	12.17	Wall Street.....	23.77
Orchard Street.....	6.90	Walnut Street.....	4.55
Oread Place.....	12.07	Ward Street.....	38.24
Oread Street.....	4.96	Warren Street.....	4.45
Ormond Street.....	4.77	Washburn Street.....	1.73
Oxford Street.....	3.06	Washington Street.....	20.31
Park Avenue.....	4.40	Water Street.....	48.58
Pattison Street.....	14.49	Waverly Street.....	9.66
Pearl Street.....	4.66	Webster Street.....	.50
Penn Avenue.....	21.46	Wellington Street.....	12.11
Perry Avenue.....	11.50	West Street.....	19.77
Piedmont Street.....	21.40	William Street.....	1.19
Pleasant Street.....	30.89	Winslow Street.....	23.98
Pond Street.....	1.12	Winter Street.....	6.16
Portland Street.....	10.26	Winthrop Street.....	8.54
Prescott Street.....	12.96	Woodland Street.....	4.69
Preston Street.....	4.02		

Worth Street.....	14.38
Wyman Street.....	3.30
Total	\$2,902.44

SIDEWALK REPAIRS—GRANOLITHIC

Arlington Street.....	\$14.74
Beeching Street.....	2.12
Beechmont Street.....	11.11
Belmont Street.....	8.87
Berwick Street.....	16.50
Birch Street.....	25.37
Blanche Street.....	10.36
Boynton Street.....	9.10
Bridge Street.....	16.72
Burncoat Street.....	13.50
Central Street.....	3.73
Chandler Street.....	1.00
Channing Street.....	74.62
Cheney Street.....	11.03
Chrome Street.....	3.33
Clearview Avenue.....	207.28
Colton Street.....	1.24
Commercial Street.....	12.10
Cutler Street.....	26.68
Dewey Street.....	2.50
Dorchester Avenue.....	19.72
Dover Street.....	8.76
Eastern Avenue.....	2.22
East Worcester Street.....	60
Elm Street.....	27.66
Endicott Street.....	23.05
Ferdinand Street.....	29.76
Florence Street.....	7.94
Foster Street.....	1.00
Franconia Street.....	25.56
Franklin Street.....	2.10
Gardner Street.....	21.58
Gates Street.....	10.44
Grafton Street.....	11.81
Green Street.....	102.25
Green Hill Parkway.....	16.47
Hadwen Lane.....	13.15
Harding Street.....	34.38
Harvard Street.....	27.69
Holland Road.....	65.27
Illinois Street.....	25.93
King Street.....	51.46
Lancaster Street.....	28.50
Lee Street.....	52.58
Loudon Street.....	12.63
Lovell Street.....	10.59
Madison Street.....	73.05
Main Street.....	44.62
Mason Street.....	50
Massachusetts Avenue.....	11.48
Mechanic Street.....	2.00
Mill Street.....	23.77

Millbury Street.....	60.41
Monroe Avenue.....	9.64
Mulberry Street.....	17.85
Oberlin Street.....	20.14
Orient Street.....	9.80
Otsego Road.....	56
Park Avenue.....	4.50
Pearl Street.....	1.19
Pelham Street.....	14.04
Pleasant Street.....	117.61
Providence Street.....	25.17
Sagamore Road.....	33.55
Salisbury Street.....	44.15
Shaffner Street.....	3.13
Shrewsbury Street.....	62.01
Somerset Street.....	36.69
Southbridge Street.....	30.29
Southgate Street.....	17.03
South Irving Street.....	4.42
Summer Street.....	60
Thorne Street.....	37.11
Trowbridge Road.....	8.60
Vernon Street.....	102.51
Walpole Street.....	6.72
West Boylston Street.....	2.76
Whitman Road.....	38.00
William Street.....	28.68
Total	\$1,997.58

SIDEWALK REPAIRS—GRAVEL AND

CINDER

Almont Avenue.....	\$4.44
Ames Street.....	79.38
Andover Street.....	9.17
Ararat Street.....	5.69
Arch Street.....	18.90
Ash Street.....	11.93
Auburn Street.....	5.10
Barber Avenue.....	2.30
Bartlett Street.....	14.90
Beacon Street.....	9.62
Belmont Street.....	23.14
Bigelow Street.....	16.73
Blanche Street.....	18.01
Blithewood Avenue.....	128.34
Boardman Street.....	5.24
Bourne Street.....	165.54
Boyden Street.....	5.22
Bradley Street.....	4.17
Brooks Street.....	4.71
Brown Street.....	43.61
Burncoat Street.....	225.18
Byron Street.....	28.16
Cambridge Street.....	81.78
Camp Street.....	18.92
Canterbury Street.....	84.37
Caro Street.....	305.05

Chandler Street	215.84	Huntington Avenue.....	6.64
Cheever Street	8.19	Institute Road	20.89
Chelsea Street	16.41	Iowa Street	38.54
Clark Street	315.01	James Street.....	14.59
Clarkson Street.....	66.36	Kilby Street.....	1.38
Coes Street	107.49	King Street	8.85
College Street	39.29	Kingsbury Street.....	17.55
Commercial Street	14.56	Kosta Street	15.38
Crompton Street	34.73	Lafayette Street.....	70
Dartmouth Street	21.82	Lakewood Street	13.09
Dewey Street	31.82	Lamartine Street.....	45.28
Dixon Avenue.....	6.76	Ledge Street.....	3.20
Dorchester Street.....	14.40	Leeds Street.....	1.38
Eastern Avenue.....	9.06	Litchfield Street.....	91.80
East Worcester Street...	24.30	Louise Street.....	202.22
Eden Street	2.32	Lovell Street.....	250.00
Edgeworth Street.....	10.17	Ludlow Street.....	1.00
Edward Street	10.76	Main Street.....	377.13
Ekman Street	110.48	Malden Street.....	36.48
Elliott Street.....	14.32	Mars Street.....	4.32
Ellsworth Street.....	36.11	Marsh Avenue.....	175.69
Esther Street.....	22.68	Maxwell Street	5.30
Fairhaven Road	28.44	McKinley Road	21.96
Fairmont Avenue.....	112.12	Millbrook Street.....	12.87
Falmouth Street.....	33.27	Millbury Street.....	4.96
Farwell Street.....	29.38	Mott Street.....	25.22
Forbes Street	54.03	Norfolk Street.....	120.27
Ford Street	24.11	North Street.....	345.81
Fountain Street.....	17.78	Oread Place	12.87
Franklin Street	54.48	Oswald Street	35.61
Freeland Street.....	64.71	Oxford Street.....	16.00
Fremont Street.....	30.54	Paine Street	6.79
Gates Street	87.74	Park Avenue.....	104.15
Gilman Street.....	5.10	Parker Street	34.33
Gold Street	62.93	Perkins Street.....	104.87
Grace Street	39.18	Perry Avenue	3.99
Grafton Street	1,268.07	Pilgrim Avenue	16.00
Grand Street.....	40.27	Plantation Street.....	469.56
Grand View Avenue	55.32	Pleasant Street	34.17
Granite Street.....	31.76	Plymouth Street.....	11.71
Greenwood Street.....	1,068.84	Pond Street	23.02
Grove Street	240.20	Prentice Street.....	152.95
Hacker Street	29.65	Prescott Street.....	48.89
Hadwen Lane	628.36	Providence Street.....	1.38
Hadwen Road.....	17.24	Putnam Lane	12.89
Hamilton Street.....	227.98	Quinsigamond Avenue...	3.22
Hammond Street.....	29.19	Randolph Road.....	138.36
Harding Street	175.46	Reeves Street	22.96
Harrison Street.....	7.28	Richards Street.....	19.75
Heard Street	1,128.15	Richland Street	3.74
Heardsleigh Street.....	22.24	Salisbury Street.....	68.89
Hemans Street.....	20.29	School Street.....	7.19
Hermon Street	1.00	Seymour Street.....	17.30
Highland Street.....	4.46	Shrewsbury Street.....	403.64
Hillside Street.....	4.04	Sigel Street.....	66.48
Hollis Street	19.61	Sigourney Street.....	17.67
Hope Avenue.....	190.18	South Street.....	19.58
Houghton Street.....	21.38	Southbridge Street.....	621.78

Southgate Street.....	132.03	Eastern Avenue.....	11.56
Stafford Street.....	165.09	Edward Street.....	13.46
Stanton Street.....	51.36	George Street.....	305.54
Stebbins Street.....	67.16	Grove Street.....	6.92
Sterling Street.....	13.48	Harvard Street.....	10.88
Summer Street.....	22.24	Highland Street.....	9.53
Tainter Street.....	42.53	John Street.....	12.02
Tatman Street.....	11.14	Lancaster Street.....	2.86
Thorne Street.....	1.50	Laurel Street.....	12.12
Tower Street.....	14.40	Lincoln Street.....	8.80
Townsend Street.....	46.43	Milton Street.....	3.34
Upsala Street.....	251.83	Montague Street.....	12.68
Uxbridge Street.....	29.02	Pleasant Street.....	1.97
Vernon Street.....	87.79	Salisbury Street.....	9.41
Watson Avenue.....	51.28	Shelby Street.....	17.92
Webster Street.....	198.68	Sudbury Street.....	.50
West Street.....	22.70	Vinson Street.....	32.22
West Boylston Street...	30.27		
Whipple Street.....	35.01	Total.....	\$507.60
Windham Street.....	69.09		
Windsor Street.....	135.61		
Woodward Street.....	2.44		
Wyman Street.....	21.63		
Total.....	\$14,192.20		
		SIDEWALK REPAIRS—GENERAL	
		Home Street, flagstone..	\$25.54
		Main Street, flagstone...	.40
		Sundry streets, inspection	496.68
		West Boylston Street, plank walk.....	3.50
		Total.....	\$526.12
		Total net expenditures as per Exhibit D.....	\$116,885.99
		SIDEWALK REPAIRS—TAR CONCRETE	
Austin Street.....	\$1.00		
Bowdoin Street.....	26.71		
Carroll Street.....	5.59		
Chandler Street.....	2.57		

SUMMARY

Miscellaneous orders.....		\$2,766.11
Between track repairs.....		1,652.07
Between track repairs, special.....		1,247.82
Crosswalk repairs.....		645.04
Culvert repairs.....		372.79
General repairs.....		40,342.26
Macadam repairs.....		9,952.66
<i>Paving Repairs:</i>		
Asphalt.....	\$150.68	
Asphaltina.....	299.24	
Bituminous macadam.....	11,739.70	
Bituminous macadam, resurfacing.....	21,816.78	
Block.....	3,695.99	
Brick.....	92.36	
Concrete paving.....	1,984.00	
Wood block.....	2.55	
Total.....		\$39,781.30
<i>Sidewalk Repairs:</i>		
Brick.....	\$2,902.44	
Granolithic.....	1,997.58	
Gravel and cinder.....	14,192.20	

Tar concrete.....	507.60	
General.....	526.12	
	<hr/>	
Total.....		\$20,125.94
Grand total.....		\$116,885.99

SCHEDULE 4

MAINTENANCE—APPROPRIATION

COST OF OUTSIDE WORK FOR OTHER DEPARTMENTS, CORPORATIONS AND INDIVIDUALS

City Hospital.....	\$8.56	
City Messenger.....	639.00	
Fire alarm telegraph.....	77.05	
Fire Department.....	28.06	
General expense.....	61.69	
Health Department.....	943.77	
Hope Cemetery.....	147.05	
Ins. and Cons. Pub. Bldgs.....	4,120.76	
Lake Quinsigamond (bridge account).....	81.53	
Land damage account.....	29.41	
Overseers of the Poor.....	673.00	
Parks Department.....	1,202.90	
Police Department.....	104.79	
Public Library.....	3.92	
Sewer Department.....	2,410.01	
Water Department.....	3,988.54	
Worcester Boys' Trade School.....	38.25	
Worcester Girls' Trade School.....	24.46	
	<hr/>	
		\$14,582.75

SUNDRY CORPORATIONS AND INDIVIDUALS

N. E. Tel. & Tel. Co.....	\$852.74	
Powers Co., F. E.....	2,427.50	
Sundry persons and corporations.....	17,925.72	
Wor. Cons. St. Ry. Co.....	16,955.32	
Wor. Elec. Light Co.....	2,649.54	
Wor. Gas Light Co.....	1,038.65	
	<hr/>	
		\$41,849.47
Total net expenditures as per Exhibit D.....		\$56,432.22

The following permits were issued from December 1, 1916, to December 1, 1917.

Departments	Permits	Openings	Feet
Worcester Gas Light Co.....	339	396	4,784
Worcester Electric Light Co.....	474	481	7,298
Sundry persons.....	187	204	6,120
Sewer Department.....	44	44	6,475
N. E. Tel. & Tel. Co.....	63	70	11,570

Worcester Cons. St. Ry. Co.....	60	60	26,400
Water Department	1,336	1,350	42,409
	<hr/>	<hr/>	
Totals	2,503	2,605	105,056
Obstruct streets.....	668		
	<hr/>	<hr/>	
	3,171	2,605	105,056

SCHEDULE 5

MAINTENANCE—APPROPRIATION

YARD ACCOUNTS

CAPITAL EXPENDITURES AND EQUIPMENT:

Albany Street yard	\$536.08
Harlow Street yard	191.96
Live stock	135.00
Machinery	6,289.23
Road oil plant, Harlow Street	84.75
Road oil plant, Salem Street	7,214.52
Rolling stock, new	4,359.24
Salem Street, garage	430.30
Salem Street, gasolene storage	1,081.88
Salem Street, storage bins	2,063.77
Storage Grounds	83.17
Trestle	2,477.35

\$24,947.25

Southbridge Street estate

135.95

\$24,811.30

YARD GENERAL EXPENSES:

Blacksmith shop	\$232.56
Carpenter shop	131.82
General labor	1,924.03
General trucking	1,154.94
General yard expense	697.83
Repairs and renewals to buildings	64.47
Scales and rep.	482.25
Scale house and offices	57.58
Superintendent	1,606.63
Unclassified labor—foremen	3,408.58
Unclassified labor—others	77.55
Unclassified labor—vacations	8,406.79

\$18,245.03

Less receipts from sundry weighing

13.90

\$18,231.13

MACHINERY AND TOOL MAINTENANCE:

Air compressor	\$65.09
Concrete mixers	1,135.98
Derricks	449.81
Excavator	2,030.39
Grout mixers	429.94
Oil and tar heaters	53.50

Pumps, etc.	16.97
Rectifier	56.73
Road machines	378.23
Small tools, new	3,838.80
Tool repairs	1,899.41
Tool boxes and repairs	534.16
	<hr/>
	\$10,888.01
Less net receipts for rental	2,085.96
	<hr/>

\$8,852.05

STABLES:

Blankets, bags, etc.	\$66.45
Coal	631.78
General stable expense	572.21
Harness repairs and renewals	1,300.87
Hay and grain	11,165.06
Lighting	267.27
Oat crusher	95.11
Repairs and renewals to buildings	841.35
Rolling stock repairs	2,834.75
Shoeing	1,854.43
Stablemen	10,621.49
Teamsters, double	10,873.03
Teamsters, single	8,897.15
Teamsters, unclassified	124.41
Tools	65.55
Veterinary and medicine	129.79
Water	150.90
	<hr/>

\$50,491.60

STEAM ROLLERS—MAINTENANCE AND REPAIRS:

Coal	\$1,446.40
Labor—engineers and flagmen	4,488.93
Labor, unclassified	139.42
Miscellaneous	19.50
Oil and waste	129.30
Repairs and renewals	2,499.65
Roller house	321.37
	<hr/>

\$9,039.57

BITUMINOUS MIXING PLANT:

Asphalt	\$7,331.03
Broken stone—trap, etc.	2,406.87
Limedust	639.48
Sand	1,998.98
Operating	4,970.12
Repairs and renewals	2,144.66
	<hr/>

\$19,491.14

CRUSHERS:

Crusher No. 1.	
Crusher stone	\$379.00
Operating	442.47
Repairs and renewals	1,077.44

Crusher No. 3.		
Crusher stone.....	1,921.15	
Moving and setting up.....	625.49	
Operating.....	4,929.28	
Repairs and renewals.....	718.41	
Crusher No. 4.		
Crusher stone.....	188.40	
Operating.....	4,382.82	
Repairs and renewals.....	711.45	
		<u>\$15,325.41</u>
		<u>\$146,242.20</u>
		DEDUCT
Materials.....	\$15,783.17	
Use of rolling stock.....	56.75	
Use of teams.....	41,145.26	
Use of steam rollers.....	9,216.46	
Crushed stone delivered.....	15,605.85	
		<u>\$81,807.49</u>
Total net expenditures as per Exhibit D.....		<u>\$64,434.71</u>

SCHEDULE 6

MAINTENANCE—APPROPRIATION

Office expenses.....		\$1,526.97
Legal expenses:		
Damage to property.....	\$162.94	
Damage to persons.....	\$12,196.30	
Less refund.....	1,861.72	
		<u>\$10,384.58</u>
		\$10,997.52
General Department Expenses:		
Department automobile No. 1....	\$975.16	
Department automobile No. 2....	468.81	
Department automobile No. 3....	385.98	
Department automobile No. 4....	489.72	
Department automobile No. 5....	904.70	
Department automobile No. 6....	232.16	
Department automobile No. 9....	1,320.99	
Department automobile sprayer . .	3,270.72	
Department automobile truck No. 1	685.59	
Department automobile truck No. 2	2,397.14	
Department automobile truck No. 3	2,083.14	
Department automobile truck No. 4	2,410.11	
Department automobile truck No. 5	1,976.22	
Department automobile truck No. 6	382.36	
Department automobile truck No. 7	676.76	
Department automobile truck No. 8	3,909.05	
Department automobile truck No. 9	1,210.17	
Department automobile general... .	2,269.84	

Driving horses.....	1,868.00	
Inspection.....	1,112.60	
Miscellaneous.....	1,277.29	
Tracing freight.....	880.44	
Unclassified labor.....	97.12	
	<u>\$31,284.07</u>	
Use of department motor vehicles.	21,546.50	\$9,737.57
Total net expenditures as per Exhibit D		<u>\$22,262.12</u>

PAVING

I would recommend in connection with the extension of Park Avenue, from Mill Street to Stafford Street, elsewhere mentioned in this report, the repaving of the tracks and core between the tracks on Park Avenue, from Mill Street to Chandler Street. This will give a smooth paved strip, which will take the fast moving vehicles into the centre of the street.

In connection with this a concrete roadway twenty or twenty-two feet in width should commence at Highland Street and extend up the centre of Park Avenue to Grove Street, enabling anyone passing through Worcester to avoid the congestion on Main Street and cut across to the east at several places, or continue on north, without striking the heavy travel of Main Street.

Main Street should be repaved with grouted joints, between tracks, from May Street to New Worcester.

Summer Street paving was completed from Washington Square to Thomas Street. The new water pipe order to Lincoln Square should be passed and the paving finished for the balance of the street.

Southbridge Street was partly paved this season, but owing to the lateness of starting, the work was unfinished and had to be left over to spring.

Portland Street was completed from Franklin to Federal streets and the tracks finished to Madison Square. It is to be hoped this work will be finished to Madison Square next year.

A concrete paving should be laid in Harding Street, between Pond and Harrison streets, connecting with the stretch of this paving already in there.

PAVING

SCHEDULE 7

Street	LOCATION	Type	Total	Cost of Paving	Eng., C. B. S. W. Rep., Etc.	Length Feet	Square Yards	Cost of Paving Sq. Yd.	Credit†
Bridge	Foster to Summer Streets	Block	\$4,319.90	\$3,609.74	\$710.16	436.81	606.6	\$2.247	
Central	Commercial to Union Streets	Topoka	1,822.55	1,609.60	272.95	222.0	896.7	1.795	
Exchange	Commercial to Union Streets	"	1,851.78	1,618.36	283.42	295.5	871.5	1.857	
Grafton Sq.	W. line Houghton to E. line Orient Streets	Block	598.43	552.33	45.60	276.6	447.5	1.235	
Grove	Wire Mill to North Street	"	3,809.21	3,033.44	275.77	2,196.8	3,213.8	.942	
Inside Tracts	Park Avenue to Chadwick Square	"	2,137.32	1,860.46	276.86	1,484.0	2,199.2	.846	
Inside Tracts	W. of E. line of Union Street	"	4,987.74	4,637.45	350.29	104.0	1,107.4		
Lincoln Sq.	Curtis to E. line Lakewood Street	"	329.59	302.23	27.59	219.7	323.1	.988	
Main	Franklin to South line Federal	"	2,692.09	2,290.39	451.20	388.0	1,034.2	2.157	
Portland	Franklin to Madison Streets	"	382.89	583.32	48.21	1,276.8	621.6	.988	
Portland	Madison to Sargent Streets	"	8,860.71	6,090.90	2,779.81				\$248.64
†Southbridge									
Summer	W. Side, W. Track & Bet. Tracks	"	12,684.09	11,779.17	1,640.76	1,768.8	4,396.8	2.894	785.84
Sundry Streets	B. & M. R. R. to Thomas	"	7.31		7.31				
Webster Sq.	Where not smooth paved	Block	689.28	504.17	135.11	276.0	426.8	1.186	
W. Boylston	Outa. Tr. & Ina. S.	"	4,887.60	4,710.31	276.01	543.5	2,480.0	1.899	108.72
W. Boylston	E. Track	Topoka							
W. Boylston	Inside W. Tr. & Bet. Tracks	"	2,411.69	2,462.26	145.43	1,131.5	1,114.1	2.210	196.00
			\$51,962.41	\$46,575.13	\$7,576.48				\$1,289.20

Less Net Credit Balance:

Thomas St. Main to Union Streets \$176.98

Total Net Expenditures as Per Exhibit E. \$51,786.43

*Done in 1916. †Unfinished. ‡Credits between tracks charged to Consolidated St. Ry. Co.

MACADAM PAVING

This account is never over-subscribed when the budget apportionment is given out, and much more money could be used to good advantage on this sort of work, which is usually the replacement of dirt or gravel surfaces on streets which are adapted to this sort of construction.

It is probable that the Street Committee order book contains at the present time more orders than there will be appropriation for this coming season. In addition to these, there will be, of course, the many orders which accrue during 1918.

Fifty-seven hundredths (.57) miles of new macadam road have been constructed, as shown in the following table, and an additional one and fifty-nine hundredths (1.59) miles were done under construction.

MACADAM PAVING APPROPRIATION SCHEDULE 8

Street	LOCATION	Total Cost	Cost Bituminous Macadam Paving	Eng., C. B. Drains, etc.	Length Feet	Sq. Yards	Cost of Paving Sq. Yds.
Bancroft.....	Chandler to Kingsbury Streets.....	\$1,680.94	\$1,651.51	\$29.43	970.0	2,241.9	\$.787
*Hadwen Lane	Pleasant Street, southwesterly 792.....	1,191.16	1,117.39	73.77	.....	.....	.....
Perry Avenue..	Euclid Avenue to Harlem Street.....	1,071.39	1,064.89	6.50	889.0	1,167.0	.918
Sundry Streets.	Engineering, etc.....	4.48	.....	4.48	.....	.....	.....
Upsala.....	Vernon to Providence Streets.....	5,940.27	4,890.96	449.31	1,640.0	4,788.9	1.082
		\$9,288.24	\$5,724.75	\$568.49	.....	.....	.....

Total Net Expenditures as Per Exhibit F..... \$9,288.24

*Unfinished.

SIDEWALKS AND CROSSWALKS

For the past two seasons we have been in proper condition as far as appropriations for this account were concerned, but this past season we have gone behind, and a larger appropriation should be set aside for this account. Enough orders accumulated this year so that there was not enough money to take care of them, and a number were held over for action next spring.

Before the present system of handling these orders was adopted, three years ago, we had one hundred ten sidewalk petitions before us for action. Under the new system of handling these petitions, we cleaned up the book each year for two years, and we should receive now enough money each year to do so, as only live, active orders and petitions, in which the majority of the abutters are in favor of the construction, are retained on the Street Committee books, and these should be attended to.

One and eighty-seven hundredths (1.87) miles of granolithic sidewalks have been constructed this season.

SCHEDULE 9

SIDEWALKS AND CROSSWALKS APPROPRIATION
SIDEWALKS

Street	Side	LOCATION	Total Cost	Eng. and Inc.	CURB		GUTTER			WALK		
					Cost per Ft.	Total Cost	Cost	Sq. Yd.	Total Cost	Cost	Sq. Yd.	Total Cost
Cambridge	N. E.	Webster Square to Exeter Street, curb	\$2,864.64	\$395.22	\$.895	\$1,479.95						\$989.47
Channing	West	Orne Street to Green Hill Parkway	1,938.36	88.22	1.023	680.17			\$2.361	\$470.05	\$2.361	699.92
G. Hill P.w.y.	North	Uxbridge St. to Green Hill Park										
*Chatham and Irving	South	Chatham Place to Irving Streets										
Irving	East	Chatham Street, southerly	167.06	115.70								51.36
†Dorchester	North	Cutler to Houghton Streets, curb, gutter and granolithic walk	566.91	29.41		288.20						249.30
E. Central	South	Abutting No. 86 to No. 90, inclusive, curb, gutter and granolithic walk	287.63	22.69	1.382	119.98			1.715	57.10	1.123	87.96
Freeland	S. E.	Abutting No. 89 to No. 49, inclusive, curb, gutter and granolithic walk	570.40	4.10		236.98				91.27		238.05
*Gold and Madison	S. E.	Cambridge Street, southwesterly, granolithic walk	1,504.60	129.18	.985	591.28					1.633	784.14
Grand	{ W. S. } Madison	Madison to Harmon Streets	408.42	39.89		71.97				35.36		261.20
Holland Rd	East	Army Street to Grand Street Court, granolithic walk	437.22	11.01							1.504	426.21
Main	East	Abutting No. 6, curb, gutter and granolithic walk	159.13	19.13	.559	28.69				2.12		111.31
Melrose	North	Main Street, northerly, curb, gutter and granolithic walk	2,869.94	93.69	.908	675.50			1.158	622.17	2.379	1,278.58
Millbury	Both	Abutting No. 1326, curb, gutter and granolithic walk	284.79	13.41	.824	60.99			.885	27.00	2.429	183.39
Orange	S. E.	Frothingham Road, westerly, and abutting Adams Square School, curb, gutter and granolithic walk	1,476.01	98.39	1.112	362.75			2.226	266.49	2.440	748.38
Plantation	West	Vernon Square to Endicott Street, granolithic walk	1,385.02	32.93							1.303	1,352.09
*Plantation	East	Franklin Street, southerly, curb, gutter and granolithic walk	78.59	8.84	.320	16.28			1.171	7.03	1.213	46.44
Quinsigamond Av	West	Hamilton to Grafton Streets, curb, gutter and granolithic walk	6,020.73	128.48	1.163	2,021.36			1.777	1,256.39	1.173	2,614.50
Roxbury	West	Southbridge Street, southerly, curb, gutter and granolithic walk	1,784.30	194.87		705.57				794.31		89.55
Shannon	N. W.	Abutting No. 11 to No. 15, inclusive, granolithic curb, gutter and walk	524.59	28.27	1.109	125.93			1.645	91.80	1.699	278.59
Southbridge	East	Madison Street to East Line of Shannon Property, granolithic walk	638.02	24.97	.492	98.56			1.800	37.81	3.278	279.27
Sundry Sts	S. E.	Dorchester to South Line, Marion Avenue, granolithic walk	579.36	21.49							2.023	481.68
Upsala	Both	Madison Street, southwesterly, granolithic walk	1,860.40	101.18							1.344	1,759.22
W. Boylston	Both	Engin. Anticipation of Orders Auto Hire, Incidentals, etc. E. Line No. 57 to Providence Street, and Vernon to Providence Streets, curb and gutter	115.15	182.70	1.357	2,986.00				705.19		
		Mill Brook to B. & M. R. R., curb	2,687.10	201.33		2,485.77						
			\$33,678.51	\$2,617.13		\$13,030.93				\$4,461.97		\$13,568.43

*Begun 1916. †Unfinished.

CROSSWALKS

Oak and Elm Streets, Removal	\$73.37
Seymour Street, Easterly and Westerly Intersections with Perry Avenue, Removal	55.20
	\$128.57
Sidewalks, Brought Forward	33,678.51
Total Net Expenditures as Per Exhibit G	\$33,807.08

STREET CLEANING

The continued iciness of the winter of 1916-1917 was a large factor in demolishing the street cleaning account. Ice is the hardest thing the department has to handle by hand labor. The snow and ice removal left but a small balance in the spring for the summer cleaning, the amount being so inadequate that, notwithstanding a too strenuous economy of these funds during the summer months, adequate service could not be given. The department found itself September 1st with only about \$7,000 on hand to cover a period of three months, one of which months alone, when the leaves fall, calling for a normal expenditure of about \$11,000, and the ordinary month's expenditure being about \$7,000. Owing to this shortage and even though \$4,000 more was appropriated the first of November, the department had become so far behind in its cleaning that the work had not been caught up when winter fell upon us.

PICK-UP BROOM

One or two pick-up brooms constructed to operate behind a tractor for use at night for sweeping and picking up the gutters would not only save much hand labor but would increase the use of some of our present motor apparatus.

SCHEDULE 10

STREET CLEANING APPROPRIATION

Sweeping:

Can System	33,538 cans	\$18,475.70
Rough Pavements, Machine Brooms	260 lds.	546.56
Smooth Pavement, Machine Brooms	3,264 lds.	7,077.99

\$26,100.25

CLEANING:

Country Roads	336 lds.	\$674.95
Sections	15,437 lds.	28,352.86
Subways		704.34
Tools and Repairs		1,223.62

\$30,955.77

SNOW AND ICE:

Breaking roads		\$1,775.39
Carting and Scraping, etc., 13,266 lds.		16,370.63
Crosswalks, catch basins, etc.		5,888.05
Gutters		9,137.45
Sanding		4,865.24
Sand sheds		12.04
Sidewalks		113.91

\$38,162.71

Total net expenditures as per exhibit J.....

\$95,218.73

STREET SPRINKLING

Much difficulty and ill-feeling are occasioned by this special tax levy as is usual with all special taxes not included in the general levy.

I would sincerely hope that the order of Councilman Rolander, to take the street sprinkling assessment out of the general tax levy should prevail. There is every bit as much justification in doing so, as to take street cleaning, or street maintenance out of the general levy, and there is no argument that can be advanced for or against any of the three that is not applicable to the others. The law itself in regard to the matter makes it very evident that this consideration might easily and very properly come up and provides for this very contingency. The law reads as follows:

REVISED LAWS, CHAPTER 26:

SECTION 25: A city may annually appropriate money for watering all or a part of its public ways or portions thereof at its expense in whole or in part and it may determine that certain other public ways or portions thereof shall be watered at the expense in whole or in part of the abutters thereon.

ACTS OF 1909, CHAPTER 289:

SECTION 1: Any city or town may sprinkle or spread upon its public ways, or parts thereof, water or any liquid or material suitable for laying or preventing dust and preserving the surface thereof, and for sanitary purposes, and all statutes providing for watering such public ways shall apply to the use of such liquids and materials, including the appropriation of money, the expenditures thereof at the expense of the city or of the abutters, the assessment upon abutting estates, and the collection of such assessments and proceedings therefor.

In the event of this change coming to pass, the streets which really needed the treatment might have it to the benefit of the traveling public and not be tied up to service on some lightly traveled streets, which are done under petition.

This particular division of the department has had very hard sledding this year, due to increased general cost of everything except the oil. On the oil we fortunately had the best base price of any city in New England this year. On this grade of oil an idea of the advance in price and what may be expected for next year may be gained from the following figures:

WORCESTER PRICES

1915—\$.0319 per gal.

1916— .0649 per gal.

1917— .0649 per gal.

Bids for 1917 were taken January 1, 1917, and the price is F. O. B., Worcester. Some idea of the advance may be had

from the immediate jump early in 1917 to \$.08 per gallon at the plant and further sharp advances since, until, at the present time, it is doubtful if a bid would be given to-day at any fair figure for the 1918 supply, with any assurance of a good delivery of the product. This is due to lack of transportation facilities in ships' bottoms and to the increased number of oil burning ships for which this grade of oil finds ready market at advanced prices.

STREET FLUSHING

Street flushing has been extended with its usual good results. It will be necessary to renew contracts for the coming season.

SCHEDULE 11

STREET SPRINKLING APPROPRIATION

WATERING:

Payments on 1917 contract, American Car Sprinkler Co.....	\$16,917.41
Flush hydrant repairs.....	115.90
Hydrant repairs.....	78.83
Standpipe repairs.....	64.15

Total.....		\$17,176.29
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OILING:

Machinery, fittings, etc.....	\$436.60
25% oil.....	35,278.55
Tarvia B.....	25,579.44

Total.....		\$61,294.59
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GENERAL:

Clerical services.....	\$715.35
Engineering.....	187.73
Miscellaneous.....	94.06

Total.....		\$947.14
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Total net expenditures as per Exhibit I		\$79,418.02
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In closing I desire to express my appreciation of the generous support offered me from many sources during the past year.

Respectfully submitted,
ALBERT T. RHODES,
Street Commissioner.

ANNUAL REPORT
OF THE
FIRE DEPARTMENT
OF THE
CITY OF WORCESTER

FOR THE
YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

COMMITTEE ON FIRE DEPARTMENT

ALDERMEN

William T. Mitchell, Fred A. Minor, Michael J. Fitzgerald

COUNCILMEN

**Howard A. Nash,
Fred H. Daniels,**

**Isaiah J. Styles,
William J. Guilfoyle.**

REPORT OF THE FIRE DEPARTMENT

To the Honorable City Council of the City of Worcester:—

Gentlemen: In compliance with the City Ordinance, I have the honor of submitting for your consideration the annual report of the condition and operation of the Fire Department for the year ending November 30, 1917.

ORGANIZATION

Eight engine companies. Seven ladder companies.
Eleven hose companies. One chemical company.

MANUAL FORCE

Chief Engineer.	One hundred and eighteen firemen of the first class.
Deputy Chief Engineer.	Nine firemen of the second class.
Three district chiefs.	Twelve firemen of the third class.
Twenty-seven captains.	
Twenty-six lieutenants.	
Eight enginemen including one detailed clerk, Board of Engineers and two detailed as mechanics.	

Total, two hundred and five permanent men. During the year nine men have resigned, one retired on a pension and one been discharged.

Twelve men have been appointed on the permanent force. Four men of the permanent force are on an indefinite leave of absence serving with the colors.

FIRE ALARM TELEGRAPH

One Superintendent. Four operators.
One Assistant Superintendent. One lineman.

CALL FORCE

The call force consists of seventeen men and a surgeon. During the year two men have resigned and one appointed to the permanent force. The membership of the department including the fire alarm service, two hundred and thirty-one and one substitute call man.

APPARATUS

The equipment of the department, November 30, 1917, consisted of:

Horse drawn apparatus:

Six steam fire engines, including three in reserve.
Seventeen hose wagons, including fifteen in reserve.
One double-tank chemical engine.
One single-tank chemical engine on runners.
Seven hook and ladder trucks, including one in reserve.
One water tower.
One fuel wagon.
Two supply wagons.

The engines are as follows:

One extra first size LaFrance engine.
One first size Metropolitan engine with LaFrance boiler.
Two second size LaFrance engines, including one in reserve.
One second size Amoskeag engine in reserve.

Hook and Ladder Trucks as follows:

One 85-foot Seagraves aerial truck.
One 70-foot Seagraves aerial truck.
One 70-foot Hayes aerial truck in reserve.
Three Seagraves trussed trucks.
One city truck with trussed ladders.

Motor-driven apparatus:

Five American-LaFrance triple combination pumpers, seven hundred and fifty gallons' capacity.
Four American-LaFrance combination hose wagons and chemical engines.
Two Pope-Hartford combination hose wagons and chemical engines.
Three combination hose wagons and chemical engines, Netco chassis with bodies built and mounted in the department shop by members of the department at Headquarters.
Two hose wagons, Netco chassis with bodies built and mounted in the department shop by members of the department at Headquarters.
One Pope-Hartford hose wagon and squad car.
One American-LaFrance combination ladder truck and chemical engine.
Five Chief's cars, one Thomas and four Buicks.
One second-hand Cadillac for practice car.

COST OF MAINTENANCE OF MOTOR APPARATUS

Motor apparatus has traveled 13,723 miles during the past year, at an average cost of twenty and eight-tenths

cents per mile for all maintenance expenses. This is about twenty-seven per cent. of the cost of horse-drawn apparatus per mile under the same conditions.

RECOMMENDATIONS

During the year there has been added to the Fire Department one triple combination seven hundred and fifty-gallon American-LaFrance motor pumper for Engine No. 7, Prescott Street.

One chassis for Hose No. 1, Eastern Avenue; the body for this car was built and mounted by members of the department at Fire Department Headquarters which was a great saving to the department and a credit to the men who built it. The Pope-Hartford car that has been stationed at Prescott Street has been transferred to Hose No. 5 Portland Street to take the place of a horse-drawn hose wagon. All apparatus in the department is in first class repair except truck No. 2, Prescott Street, and I recommend that a motor-driven four wheel drive, 75-foot aerial ladder truck be purchased this coming year to replace the horse-drawn truck now with Ladder Co. No. 2. This change will give the department three aerial ladder trucks, one for the centre of the city, one for the south end and one for the north end. I recommend that two motor-driven combination hose wagons and chemical engines be purchased, one for Hose No. 6, Millbury Street, and one for Hose No. 8, Providence Street; by so doing, all horse-drawn hose wagons will be replaced by motor-driven apparatus. I recommend that the Fire Alarm Signal system be removed from Fire Department Headquarters at once or a system of automatic sprinklers be installed throughout the building, that watch rooms be provided for Hose No. 4 Company, Fire Department Headquarters Building, Hose No. 6 Company, Millbury Street, and Engine No. 4 Company, Pleasant Street.

HORSES

The Fire Department has at present thirty-eight horses, there has been a revenue of \$405 received for horses sold during the year and no horses have been bought. On account of the installing of motor apparatus the number of horses has been reduced considerably more than one-half in the last few years.

HOSE, LADDERS AND CHEMICALS

The amount of serviceable hose in the department is $2\frac{1}{2}$ -inch, 33,900 feet; $\frac{3}{4}$ -inch, 3,875 feet. Ladders, 2,257

feet carried on ladder trucks, and 425 feet carried on hose wagons, total of 2,682 feet.

Hand chemical extinguishers, 74 3-gallon and 14 6-gallon.

There were 1,600 feet of 2½-inch hose purchased during the year, I recommend the purchase of 2,000 feet during the coming year in order to keep a reasonable surplus in reserve.

FIRES, INSURANCE AND LOSSES

Bell alarms.....		406
Still alarms.....		1,116
Thermostat.....		48
		<hr/>
Total alarms.....		1,570
Fires in frame buildings.....		571
Fires in brick, stone or cement buildings.....		223
Other than buildings' fires.....		619
False bell alarms.....		51
Alarms for other causes than fires.....		106
		<hr/>
		1,570
Fires confined to buildings or place of origin.....	1,408	
Fires extending beyond building where originated.....	5	
		<hr/>
Total number of fires.....		1,413
Fires extending beyond floor where originated.....		8
Loss on brick, stone or cement buildings.....	\$27,682.49	
Loss on contents in brick, stone or cement buildings.....	51,681.39	
		<hr/>
Total loss on brick, stone or cement buildings and contents.....		\$79,363.88
Loss on frame buildings.....	\$74,430.29	
Loss on contents in frame buildings.....	56,499.06	
		<hr/>
Total loss on frame buildings and contents.....		130,929.35
Loss on buildings and contents where fire originated, buildings.....	\$84,234.23	
Contents.....	98,230.86	
		<hr/>
Total loss on buildings and contents where fires originated.....		182,465.09
Exposure losses, i. e., on adjoining buildings and contents, buildings.....	\$17,878.55	
Contents.....	9,949.59	
		<hr/>
Total exposure losses.....		27,828.14
Insurance loss.....	\$192,599.44	
Uninsured loss.....	17,693.79	
		<hr/>
Total loss.....		210,293.23
Value of property where fires occurred.....		\$8,225,391.44
Insurance on same.....		\$6,129,447.46

There were 978 fires requiring the use of apparatus to extinguish, 377 where a loss was sustained, and 424 firms or individuals who sustained a loss. Seventy-five per cent. of

the fires requiring the use of apparatus to extinguish were handled with chemicals.

The per capita loss was \$1.14 and the loss per fire \$264.85, counting as a fire all fires in buildings or any place where property was exposed to loss, whether there was a claim of loss or not.

The fire where the greatest loss was sustained was the Lombard Machine Co., Heard Street, August 12th.

CLASSIFICATION OF LOSSES

\$5 or less.....	20	Over \$2,000 not over \$3,000....	9
Over \$5 not over \$10.....	57	Over \$3,000 not over \$4,000....	2
Over \$10 not over \$50.....	138	Over \$4,000 not over \$5,000....	
Over \$50 not over \$100.....	44	Over \$5,000 not over \$10,000....	5
Over \$100 not over \$500.....	56	Over \$10,000 not over \$20,000....	4
Over \$500 not over \$1,000.....	17	Over \$20,000 not over \$30,000....	
Over \$1,000 not over \$2,000.....	20	Over \$30,000.....	1

Showing cause of fires

Brush and grass fires.....	398	Gas jet ignited woodwork.....	13
Careless use of matches.....	96	Fire rekindled.....	12
Chimney fires.....	83	Spontaneous combustion in soft coal.....	11
Children and matches.....	82	Meat left in oven.....	11
Cigars and cigarettes.....	79	Clothes fell on stove.....	11
Bonfires.....	60	Spark from tobacco pipe.....	8
Electric wires.....	57	Fireworks.....	8
Public dumping grounds.....	43	Spark from locomotive.....	8
Hot ashes.....	36	Draperies ignite by gas or lamp.....	5
Spontaneous combustion.....	33	Spark from picker.....	5
Spontaneous combustion in rubbish.....	31	Looking for gas leak with match..	5
Defective chimney.....	31	Drying plastering.....	5
Spark from stove or furnace.....	26	Tar kettle in street.....	4
Oil stoves and lamps.....	25	Covering on steam pipe ignited..	4
Spark from chimney.....	23	Gasolene torch.....	4
Defective setting of stove or furnace.....	23	Hot flatiron.....	3
Back fire in automobile.....	18	Defective fireplace.....	3
Candle.....	18	Jack-'o-lantern.....	3
Lightning.....	18	Hot journal.....	2
Smoking in bed.....	15	Miscellaneous.....	25
Thawing water pipes.....	15	Not fully ascertained.....	36

Showing causes of calls where no fire was found

False bell alarms.....	51	Steam escaping.....	8
Back draft.....	23	Light reflected from fireplace....	4
Unusual smoke.....	23	Workmen on thermostat wires....	4
No cause found.....	18	Taking cat out of tree.....	2
Water hammer in sprinkler system.....	8	Sprinkler head blew off.....	2
Water in house heater low.....	8	Water front in stove exploded...	2
Water pipe leaking.....	8		

HOURS OF SERVICE AND WORK DONE

The department was in service 847 hours; laid 144,150 feet of 2½-inch hose; 51,620 feet of ¾-inch hose; raised 5,930 feet of ladders carried on ladder trucks, 1,076 feet carried on hose wagons, a total of 7,006 feet of ladders raised. Used 8,670 gallons of chemical from chemical tanks, and 4,112 gallons from hand chemical extinguishers, a total of 12,782 gallons.

EXPENDITURES

The cost of maintaining the department for the year ending November 30, 1917, was \$298,211.71; for the Worcester Protective Department, \$3,500; a total of \$301,711.71. Revenue for the year, \$2,839.57.

IN CONCLUSION

In reviewing the work of the department and the results accomplished during the past year, I think we can consistently congratulate ourselves on the record of the department as shown in this report.

While there have been no large fires during the year, there have been a number of fires that might easily have assumed much larger proportions under slightly different conditions.

The rank and file of the department are entitled to commendation for the cheerful and efficient manner in which they have performed the duties of their calling, oftentimes under unfavorable conditions, for every fire is a law unto itself and no two fires can be safely handled in the same manner. The fire loss of \$210,293.23 for a city of 190,000 people is very reasonable as a comparison with the figures of other cities will show.

There have been a number of minor injuries, such as cuts, bruises and burns, but I am glad to be able to say that there has been no fatal or very serious injury to any member of the department during the year. The department is represented by six men who have joined the colors, two are already in France and the others are preparing for the serious work ahead of them.

I wish to extend thanks to His Honor The Mayor, the Committee on Fire Department and the City Council; for by their liberal policy there has been added to the department during the year a triple combination motor pumper and a combination hose wagon and chemical engine motor-driven. There are only two horse-drawn hose wagons left

in the department. I wish to record my appreciation of the good work of the Police Department at fires in keeping the fire lines clear of spectators and giving the department plenty of room to do their work. The Protective Department, as in the past, has by good work been an invaluable aid to the work of the Fire Department.

Respectfully submitted,

W. N. AVERY,
Chief of Fire Department.

FIRE LOSSES 1869 TO 1917, INCLUSIVE

Year	Loss	Year	Loss
1869,	\$33,635 00	1894,	\$261,186 67
1870,	70,640 00	1895,	160,994 23
1871,	15,915 00	1896,	291,244 06
1872,	26,720 00	1897,	405,515 69
1873,	30,010 00	1898,	112,409 32
1874,	74,187 44	1899,	167,770 54
1875,	208,022 00	1900,	277,113 87
1876,	62,795 96	1901,	111,991 24
1877,	41,085 68	1902,	252,972 16
1878,	37,485 68	1903,	268,042 24
1879,	44,721 46	1904,	128,204 99
1880,	35,831 77	1905,	230,971 06
1881,	82,361 77	1906,	143,436 67
1882,	124,482 26	1907,	145,478 70
1883,	62,558 90	1908,	156,445 73
1884,	264,183 64	1909,	401,126 05
1885,	94,687 66	1910,	588,407 01
1886,	124,894 43	1911,	269,376 71
1887,	54,450 41	1912,	149,513 50
1888,	30,095 39	1913,	162,850 75
1889,	102,590 27	1914,	604,720 56
1890,	76,276 60	1915,	310,186 18
1891,	78,554 40	1916,	193,160 02
1892,	104,962 88	1917,	210,293 23
1893,	204,450 87		

REPORT OF SUPERINTENDENT OF FIRE ALARM TELEGRAPH

FOR THE YEAR ENDING NOVEMBER 30, 1917

To His Honor the Mayor and Members of the City Council:

I herewith present my twenty-seventh annual report of the condition and operation of the Fire Alarm Telegraph.

There have been during the year:

406 bell alarms	6 no-school signals
5 second alarms	41 no-drill signals
1,042 still alarms	30 A. D. T. calls
4 calls 3,755 liberty bonds	

Twelve thousand two hundred and ten feet rubber-covered wire have been used to extend the underground service, one manhole built, three underground posts set, 7,112 feet of duplex wire used for aerial work, 610 feet of iron pipes of different sizes used, three signal boxes purchased, five signal boxes set, one-half mile iron wire removed. Two hundred and forty boxes are now connected direct with the underground service.

The system now consists of:

1,564,296 feet of rubber-covered wire No. 14	24 registers
25 miles No. 9 iron wire	23-1000 ohm generators
192 plain posts	6 tower strikers
27 combination posts	2 small motor generators
18 large gongs	3 whistles and machines
17 small gongs	1 rheostat
23-5-inch tappers	1 central office outfit
312 signal boxes of which 36 are owned by private parties.	

Respectfully submitted,

WM. H. McCLURE,
Superintendent, Fire Alarm Telegraph.

SURGEON'S REPORT

To the Board of Engineers:

I hereby present my sixteenth annual report as Surgeon to the Worcester Fire Department for the year ending November 30, 1917.

During the year just past I have responded to 203 alarms, in connection with which there have been thirty-eight injuries, twenty-three among firemen and fifteen among citizens, grouped as follows: bruises, eleven; burns, two; cuts, eight; fright, three; falls, two; frostbites, two; hysteria, one; overcome by smoke and gases, seven; overexertion, one, and rupture, one.

The year just past is the first one since my connection with the department that there have been no fatal burns associated with the alarms rung in. Of fatal burns not associated with alarms there have been five, which are as follows: January 2nd, Tina Smith, fifty years, 21 Kilby Street, cause, falling on gas stove; February 8th, John F. Deedy, 98 Maywood Street, cause, clothing ignites from gas jet; February 26th, Mary Feboshi, three years, 556 Millbury Street, spark from match; March 1st, Albert Lamartire, six months, 45 Plantation Street, spark from match; July 3rd, Giovanni Ticciardone, forty years, 1182 Grafton Street, explosion kerosene stove.

Respectfully submitted,
GEO. H. HILL, M. D.

APPROPRIATION

For the year ending November 30th, 1917, and expenditures for twelve months of the same.

Unexpended balance Nov. 30, 1916,	\$8,338.44
Appropriation,	282,400.00
Revenue,	2,839.57
Additional appropriation,	10,350.00

\$303,928.01

EXPENDITURES

Automobile maintenance,	\$2,854.16
Badges, buttons and insignia,	42.65
Blacksmithing,	1,419.93
Chemicals,	377.91
Forage,	6,800.18
Fire Alarm Telegraph,	1,985.94
Furniture, bedding and fixtures,	489.47
Fuel,	4,509.76
Lighting,	940.33
Shop tools and supplies,	137.99
Harness, blankets and repairs,	62.65
Horses,	24.00
Hose and fittings,	1,282.26
Incidentals,	239.41
Ice,	214.92
New apparatus,	11,980.47
Pay rolls,	260,978.81
Printing,	84.78
Worcester Protective Department,	3,500.00
Repairs to apparatus,	199.51
Stationery,	47.29
Signal boxes,	376.48
Street watering,	117.99
Supplies,	761.82
Veterinary,	85.75
Washing,	1,231.00
Water rates,	563.99
Underground wires,	402.26
Unexpended balance Nov. 30, 1917,	2,216.30

\$303,928.01

RECORD OF INSPECTION OF BUILDINGS BY DISTRICTS, FOR
THE YEAR ENDING NOV. 30, 1917

District covered by Headquarters station,	Places inspected	Conditions approved	Conditions defective	Conditions corrected
" " " Beacon St. "	10,124	9,887	237	237
" " " School St. "	840	812	28	28
" " " Pleasant St. "	1,655	1,626	29	29
" " " Webster St. "	2,134	2,049	85	85
" " " Franklin St. "	578	565	8	8
" " " Eastern Ave. "	2,059	2,011	48	48
" " " Burncoat St. "	5,764	5,608	156	156
" " " Prescott St. "	397	389	8	8
" " " Grafton St. "	688	676	12	12
" " " Cambridge St. "	4,818	4,359	454	454
" " " Portland St. "	1,151	1,141	10	10
" " " Millbury St. "	3,428	3,412	16	16
" " " Lamartine St. "	1,204	1,146	58	58
" " " Providence St. "	4,364	4,243	121	121
" " " Woodland St. "	274	273	1	1
" " " W. Boylston St. "	1,582	1,574	8	8
" " " John St. "	447	438	9	9
	1,882	1,852	30	30
	<hr/>	<hr/>	<hr/>	<hr/>
	43,379	42,061	1,318	1,318

SCHEDULE OF FIRE DEPARTMENT PROPERTY DECEMBER 1, 1917

Beacon Street.		
7,845 feet of land at 50c per ft.,	\$3,922.50	
House,	25,000.00	
	28,922.50	\$28,922.50
Franklin Street.		
Land donated by William Putnam,	\$500.00	
House,	9,000.00	
	9,500.00	9,500.00
Burncoat Street.		
7,500 ft. of land at 20c per ft.,	\$1,500.00	
House,	8,500.00	
	10,000.00	10,000.00
Cambridge Street.		
6,182 ft. of land at 15c per ft.,	\$927.30	
House,	6,500.00	
	7,427.30	7,427.30
Eastern Avenue.		
10,141 ft. of land at 15c per ft.,	\$1,521.15	
House,	20,000.00	
	21,521.15	21,521.15
Exchange Street.		
500 ft. of land at \$4 per ft.,	\$2,000.00	
House,	1,000.00	
	3,000.00	3,000.00
Grafton Street.		
Land on Schoolhouse lot,		
House,		5,000.00
Grove Street.		
Land,		300.00
John Street.		
1,837 ft. of land at 50c per ft.,	\$918.50	
House,	4,000.00	
	4,918.50	4,918.50
Lake View.		
6,145 ft. of land at 7c per ft.,		430.15
Lamartine Street.		
7,206 ft. of land at 20c per ft.,	\$1,441.20	
House,	4,000.00	
	5,441.20	5,441.20
Mercantile, Union and Foster Streets.		
25,607 ft. of land at \$2.25 per ft.,	\$57,615.75	
House,	125,000.00	
	182,615.75	182,615.75

Millbury Street. Land Leased, House,		\$5,000.00
Pleasant Street. 6,366 ft. of land at 50c per ft., House,	\$3,183.00 10,000.00	
		13,183.00
Portland Street. 6,429 ft. of land at 55c per ft., House,	\$3,535.95 15,000.00	
		18,535.95
Prescott Street. 6,762 ft. of land at 50c per ft., House,	\$3,881.00 7,500.00	
		10,881.00
Providence Street. 9,993 ft. of land at 20c per ft., House,	\$1,998.60 18,000.00	
		19,998.60
School Street. 9,201 ft. of land at 65c per ft., House,	\$5,980.65 30,000.00	
		35,980.65
Webster Street. 10,046 ft. of land at 25c per ft., House,	\$2,511.50 15,000.00	
		17,511.50
West Boylston Street. 10,038.35 ft. of land at 15c per ft., House,	\$1,505.75 12,000.00	
		13,505.75
Woodland Street. 5,382 ft. of land at 40c per ft., House,	\$2,152.80 6,000.00	
		8,152.80
Total value of real estate,		\$421,825.80
Personal property.		\$15,000.00
Seven engines,		800.00
Seventeen hose wagons,		20,500.00
Seven ladder trucks,		6,500.00
Water tower,		1,500.00
One chemical engine,		7,800.00
Five Chief's automobiles,		13,500.00
Three automobile hose wagons,		45,000.00
Nine combination motor wagons,		6,000.00
One combination motor ladder truck,		40,000.00
Five triple combination pumps,		125,000.00
Other personal property, including fire alarm telegraph,		
		\$281,600.00

ROSTER OF WORCESTER FIRE DEPARTMENT NOVEMBER 30, 1917

BOARD OF ENGINEERS

Chief Engineer,	W. N. AVERY.
Deputy Chief,	E. L. JANES.
District Chief,	W. B. SPOONER.
District Chief,	J. F. ADAMS.
District Chief,	C. L. MCCARTHY.
Detailed Clerk, Board of Engineers,	A. C. HARADON.
Department Surgeon,	GEORGE H. HILL.

FIRE ALARM TELEGRAPH

Superintendent of Fire Alarm,	W. H. MCCLURE.
Assistant Supt. of Fire Alarm,	J. C. McDONALD.
Operator,	D. E. HEALY.
Operator,	J. W. HEALY.
Operator,	P. N. WHITE.
Operator,	M. P. ORRELL.

COMPANY ROLLS

ENGINE COMPANY NO. 1, MERCANTILE STREET

Extra first size LaFrance engine, capacity 1,100 gallons a minute; steam cylinders 9½, pumps 5¼, stroke 8 inches; weight ready for service, 12,800 lbs. Put in service September, 1905. American-LaFrance combination chemical engine and hose wagon, motor driven, 40-gallon tank, carries 1,000 ft. 2¼-inch hose, 250 ft. ¾-inch hose, two three-gallon chemical extinguishers, a 20-ft. and a 12-ft. ladder. Put in service June 18, 1913.

Captain,	W. F. Hurley,	Permanent.
Lieutenant,	W. F. Thomas,	“
Engineman,	W. C. Wallis,	“
Engineman,	W. J. Brown,	“
Driver of engine,	—W. Preston,	“
Hoseman,	Hill,	“
Hoseman,	F. Fogarty,	“
Hoseman,	T. J. Muhr,	“
Hoseman,	F. W. Powers,	“
Hoseman,	T. F. Costello,	“
Spareman,	P. F. Fenlon,	“

ENGINE COMPANY, NO. 2 BEACON STREET

Second size LaFrance engine, capacity 700 gallons a minute; steam cylinders 8¼, pumps 4¼, stroke 8 inches; weight ready for service, 8,750 lbs. Has been in service since October, 1890. Rebuilt January, 1910, with new boiler and general overhauling of engines and pumps. Motor driven com-

bination hose wagon and chemical engine, Netco chassis, body built and mounted in department shop, carries 800 ft. 2¼-inch hose, 200 ft. ¾-inch hose and two three-gallon chemical extinguishers. Put in service October, 1915.

Captain,	C. C. Hemenway,	Permanent.
Lieutenant,	C. F. Davjs,	"
Engineman,	G. T. Irvine,	"
Ast. Engineman,	G. L. Wood,	"
Driver of engine,	B. J. Butterfield,	"
Hoseman,	E. T. Hilton,	"
Hoseman,	B. O. Mondor,	"
Hoseman,	J. F. Sullivan,	"
Hoseman,	R. F. Dumaine,	"

ENGINE COMPANY No. 3, SCHOOL STREET

First size Metropolitan engine with LaFrance boiler; capacity 900 gallons a minute; steam cylinders 9, pumps 5½, stroke 8 inches; weight ready for service 11,220 lbs. Put in service September, 1910.

Pope-Hartford combination hose wagon and chemical engine motor driven, 40-gallon tank, carries 800 ft. 2¼-inch hose, 250 ft. ¾-inch hose, 20-ft. extension ladder and 12-ft. extension ladder, two three-gallon chemical extinguishers. Put in service May, 1913.

Captain,	E. E. Thurston,	Permanent
Lieutenant,	G. W. Clem,	"
Engineman,	H. E. Preston,	"
Engineman,	F. A. Young,	"
Driver of engine,	M. L. Shea,	"
Hoseman,	A. C. McGee,	"
Hoseman,	A. N. Bellows,	"
Hoseman,	J. E. Rice,	"
Hoseman,	E. J. McGeachey	"

ENGINE COMPANY No. 4, PLEASANT STREET

Triple combination American-LaFrance motor pumper; carries 2¼-inch hose 700 ft., ¾-inch hose 250 ft., chemical tank 35-gallon. Put in service October 16, 1914.

Captain,	G. W. Eaton,	Permanent.
Lieutenant,	M. H. Tracey,	"
Hoseman,	E. J. Provencal,	"
Hoseman,	W. T. Perry,	"
Hoseman,	D. Gowans,	"
Hoseman,	W. B. Logan,	"
Hoseman,	C. Finn,	Call.
Hoseman,	W. J. Karen,	"

ENGINE COMPANY No. 5, WEBSTER STREET

Triple combination American-LaFrance motor pumper; carries 700 ft. 2¼-inch hose, 250 ft. ¾-inch hose, 35-gallon chemical tank. Put in service June 6, 1916.

Captain,	H. C. Amell,	Permanent.
Lieutenant,	T. J. Powers,	"
Hoseman,	S. S. Clark,	"
Hoseman,	T. F. Comerford,	"
Hoseman,	C. A. Kiessling,	"
Hoseman,	A. J. Boucher,	"
Hoseman,	F. E. Marble,	Call.
Hoseman,	F. E. Rhodes,	"

ENGINE COMPANY NO. 6, FRANKLIN STREET

Triple combination American-LaFrance motor pumper; carries 700 ft. 2½-inch hose, 250 ft. ¾-inch hose, 35-gallon tank, two 3-gallon and two 6-gallon chemical extinguishers. Put in service June 15, 1916.

Captain,	F. H. Bassford,	Permanent.
Lieutenant,	W. P. Hackett,	"
Hoseman,	M. J. Foley,	"
Hoseman,	E. J. Bennett,	"
Hoseman,	L. W. Pemberton,	"
Hoseman,	L. M. Alexander,	"
Hoseman,	A. Vania,	"
Hoseman,	D. McCabe,	Call.

ENGINE COMPANY NO. 7, PRESCOTT STREET

Triple combination American-LaFrance motor pumper; 700 feet 2½-in. hose, 250 feet ¾-in. hose, 35-gallon tank, two three-gallon chemical extinguishers. Put in service October, 1917.

Captain,	F. W. Mayers,	Permanent.
Lieutenant,	P. J. Cox,	"
Hoseman,	T. P. Friend,	"
Hoseman,	W. T. Quinn,	"
Hoseman,	R. H. Stevens,	"
Hoseman,	J. Axelson,	"
Hoseman,	A. F. White,	"
Hoseman,	G. M. Eaton,	"
Substitute,	L. H. Babcock,	Call.

ENGINE COMPANY NO. 8, BURNCOAT STREET

Triple combination American-LaFrance motor pumper; carries 1,000 ft. 2½-inch hose, 200 ft. ¾-inch hose, two 3-gallon chemical extinguishers and two 25-ft. ladders. Put in service June, 1915.

Captain,	A. C. Newcomb,	Permanent.
Lieutenant,	J. F. Hedge,	"
Hoseman,	T. Harper,	"
Hoseman,	A. N. Wiggins,	"
Hoseman,	H. L. Olcott,	"
Hoseman,	S. W. Swift,	"

HOSE COMPANY NO. 1, EASTERN AVENUE

Combination chemical engine and hose wagon, Netco chassis, body built and mounted in the department shop. Carries 800 feet of $2\frac{1}{2}$ -in. hose, 200 feet $\frac{3}{4}$ -in. hose, two three-gallon chemical extinguishers and a 12-foot and a 20-foot ladder. Put in service October, 1917.

Captain,	G. W. Day,	Permanent.
Lieutenant,	F. E. Butler,	"
Hoseman,	A. W. Eaton,	"
Hoseman,	W. H. Comerford,	"
Hoseman,	W. J. Quinn,	"
Hoseman,	J. J. Anglum,	"

HOSE COMPANY NO. 2, GRAFTON STREET

American-LaFrance combination hose wagon and chemical engine; motor driven, 40-gallon tank, carries 1,000 ft. $2\frac{1}{2}$ -inch hose, 300 ft. $\frac{3}{4}$ -inch hose, two 3-gallon chemical extinguishers, 20 and 12-ft. ladders. Put in service June, 1913.

Captain,	J. H. Madden,	Permanent.
Lieutenant,	T. J. Conlin,	"
Hoseman,	W. H. Weeks,	"
Hoseman,	H. C. Kane,	"
Hoseman,	T. P. Murphy,	"
Hoseman,	W. F. Wrenn,	"
Hoseman,	W. J. Floody,	"
Hoseman,	F. J. Ford,	"

HOSE COMPANY NO. 3, CAMBRIDGE STREET

American-LaFrance combination hose wagon and chemical engine, motor driven, 40-gallon tank, carries 1,000 ft. $2\frac{1}{2}$ -inch hose, 250 ft. $\frac{3}{4}$ -inch hose, two 3-gallon chemical extinguishers, 20-ft. ladder and a jumping net. Has been in service since November, 1914.

Captain,	G. J. Donnelly,	Permanent.
Lieutenant,	J. P. Quinn,	"
Hoseman,	W. M. Carroll,	"
Hoseman,	L. H. Smith,	"
Hoseman,	S. J. Wharton,	"
Hoseman,	W. H. Adams,	"

HOSE COMPANY NO. 4, FOSTER STREET

Motor driven combination hose wagon and chemical engine, Netco chassis, body built and mounted in department shop, carries 800 ft. $2\frac{1}{2}$ -inch hose, 250 ft. $\frac{3}{4}$ -inch hose, 35-gallon tank and two 3-gallon chemical extinguishers. Put in service August, 1915.

Captain,	F. S. Taylor,	Permanent.
Lieutenant,	W. W. Stevens,	"
Hoseman,	J. A. Gammell,	"
Hoseman,	J. E. Lovely,	"
Hoseman,	J. J. Brusco,	"
Hoseman,	J. E. Ford,	"
Hoseman,	P. J. Simpson,	"
Hoseman,	M. A. Callan,	"

HOSE COMPANY No. 5, PORTLAND STREET

Pope-Hartford combination hose wagon and chemical engine, motor driven; 40-gallon tank, carries 1,000 ft. of 2½-inch hose, 250 ft. ¾-inch hose, 20-ft. and 12-ft. ladders, two 3-gallon chemical extinguishers. Put in service May, 1913.

Captain,	H. Douglas,	Permanent.
Lieutenant,	T. D. Guilfoyle,	"
Hoseman,	B. Donaher,	"
Hoseman,	E. C. Quinlan,	"
Hoseman,	A. G. L. Lekstrom,	"
Hoseman,	T. F. Moriarty,	"
Hoseman,	F. J. Flynn,	"
Hoseman,	M. R. Whalen,	"

HOSE COMPANY No. 6, MILLBURY STREET

Hose wagon carries 800 ft. 2½-inch hose, four 3-gallon chemical extinguishers and one 25-ft. ladder. In service since 1895.

Captain,	J. M. Curran,	Permanent.
Lieutenant,	C. A. Lundgren,	"
Hoseman,	J. J. Henry,	"
Driver,	D. J. C. Doyle,	"
Hoseman,	A. J. Murphy,	"
Hoseman,	C. O. Benoit,	Call.

HOSE COMPANY No. 7, LAMARTINE STREET

Motor driven hose wagon, Netco chassis, body built and mounted in the department shop, carries 800 ft. 2½-inch hose, two 3-gallon and two 6-gallon chemical extinguishers. Put in service June, 1916.

Captain,	W. W. Burbank,	Permanent.
Lieutenant,	T. O'Connor,	"
Hoseman,	D. J. Brosnihan,	"
Hoseman,	P. J. Maher,	"
Hoseman,	C. J. Gray,	"
Hoseman,	P. J. Fitzgerald,	"
Hoseman,	J. J. Manning,	"
Hoseman,	W. F. Kane,	"
Hoseman,	J. F. O'Malley,	"

HOSE COMPANY NO. 8, PROVIDENCE STREET

Hose wagon carries 800 ft. 2½-inch hose, two 3-gallon and two 6-gallon chemical extinguishers. Has been in service since 1900.

Captain,	J. F. Sullivan,	Permanent.
Lieutenant,	E. E. Ryan,	"
Driver,	W. Santon,	"
Hoseman,	W. J. Johnston,	"
Hoseman,	E. J. Sweeney,	"
Hoseman,	J. O'Leary,	"
Hoseman,	J. B. Lester,	Call.
Hoseman,	J. M. Sullivan,	"
Hoseman,	J. J. Lawler,	"

HOSE COMPANY NO. 9, WOODLAND STREET

Motor driven hose wagon, Netco chassis, body built and mounted in the department shop, carries 800 ft. 2½-inch hose, 35 ft. ladders, two 3-gallon and two 6-gallon chemical extinguishers. Put in service August, 1916.

Captain,	F. W. Lamb,	Permanent.
Lieutenant,	A. D. Robinson,	"
Hoseman,	C. H. Hanson,	"
Hoseman,	C. A. French,	"
Hoseman,	F. W. Ford,	"
Hoseman,	E. Johnson,	Call.

HOSE COMPANY NO. 10, W. BOYLSTON STREET

American-LaFrance combination hose wagon and chemical engine, motor driven, 40-gallon tank, carries 1,000 ft. 2½-inch hose, 250 ft. ¾-inch hose, two 3-gallon chemical extinguishers, a 20-ft. and a 12-ft. ladder. Put in service November, 1914.

Captain,	S. W. Hodgdon,	Permanent.
Lieutenant,	E. K. Barrett,	"
Hoseman,	E. F. Weeks,	"
Hoseman,	P. J. Brown,	"
Hoseman,	A. C. Tougas,	"

HOSE COMPANY NO. 11, MERCANTILE STREET

Pope-Hartford squad wagon, motor driven, carries 1,000 ft. 2½-inch hose, two 3-gallon and two 6-gallon chemical extinguishers. Put in service July, 1910.

Captain,	C. I. Knapp,	Permanent.
Lieutenant,	W. H. Kirk,	"
Hoseman,	J. A. Trainor,	"
Hoseman,	J. J. Prusko,	"
Hoseman,	W. J. Murphy,	"
Hoseman,	T. J. Shea,	"
Hoseman,	J. J. Walsh,	"
Hoseman,	W. P. Moran,	"

LADDER COMPANY NO. 1, PORTLAND STREET

Seagraves aerial truck; extends 75 ft. in height, carries 382 ft. of ladders, two 3-gallon chemical extinguishers, a 3-way deluge set, two scaling ladders, two cellar pipes and a jumping net. In service since February 28, 1909.

Captain,	H. L. Jewell,	Permanent.
Lieutenant,	L. A. Wetherby,	"
Driver,	F. M. Douglas,	"
Ladderman,	M. J. McGrath,	"
Ladderman,	W. J. Foley,	"
Ladderman,	J. P. O'Leary,	"
Ladderman,	H. Laplante,	"
Ladderman,	L. J. Jones,	"
Ladderman,	A. F. Nealey,	Call.
Ladderman,	C. J. O'Hara,	"
Ladderman,	F. L. Neiderberger,	"

LADDER COMPANY NO. 2, PRESCOTT STREET

City truck with trussed ladders, longest ladder 60-ft. extension; two 3-gallon chemical extinguishers and a jumping net, two cellar pipes, one 4-way deluge set and two scaling ladders. In service since 1898.

Captain,	H. A. Cronin,	Permanent
Lieutenant,	F. Lambert,	"
Driver,	R. Farrell,	"
Ladderman,	G. A. Miles,	"
Ladderman,	F. W. McCombe,	"
Ladderman,	J. F. Tracey,	"
Ladderman,	T. J. Howard,	"
Ladderman,	E. C. Baker,	Call.
Ladderman,	A. H. Taylor,	"
Ladderman,	C. O. Swanson,	"
Substitute,	S. Freudenthal,	"

LADDER COMPANY NO. 3, MERCANTILE STREET

Seagraves aerial truck; extends 85 ft. in height, carries 393 ft. of ladders, a jumping net, 4-way deluge set, two 3-gallon chemical extinguishers, 2 cellar pipes and three scaling ladders. Has been in service since October, 1906.

Captain,	E. E. Divoll,	Permanent.
Lieutenant,	T. J. Hally,	"
Driver,	M. C. Armstrong,	"
Ladderman,	T. P. Brosnihan,	"
Ladderman,	W. Uppstrom,	"
Ladderman,	C. L. Sullivan,	"
Ladderman,	O. A. Barron,	"
Ladderman,	F. F. Dunford,	"
Ladderman,	H. A. Brown,	"
Ladderman,	D. L. McAuliff,	"

LADDER COMPANY No. 4, WEBSTER STREET

Seagraves trussed truck; longest ladder 55-ft. extension; carries 295 ft. of ladders, two 3-gallon chemical extinguishers and a jumping net. In service since January, 1904.

Captain,	J. J. Lavene,	Permanent.
Lieutenant,	H. A. Jones,	"
Driver,	A. A. Jones,	"
Ladderman,	J. O'Connor,	"
Ladderman,	E. P. King,	"
Ladderman,	W. J. Powers,	"
Ladderman,	F. L. Stearnes,	Call.

LADDER COMPANY No. 5, PROVIDENCE STREET

Seagraves trussed truck; longest ladder 55-ft. extension; carries 288 ft. of ladders, two 3-gallon chemical extinguishers and a jumping net. In service January, 1904.

Captain,	J. E. Kennington,	Permanent.
Lieutenant,	T. J. Sullivan,	"
Driver,	G. W. Shippee,	"
Ladderman,	P. J. Mulvey,	"
Ladderman,	P. J. Donagher,	"
Ladderman,	J. C. Cullen,	"

LADDER COMPANY No. 6, W. BOYLSTON STREET

Seagraves trussed truck; longest ladder 55-ft. extension; carries 295 feet of ladders, two 3-gallon chemical extinguishers and a jumping net. In service since May, 1908.

Captain,	W. P. Cavanaugh,	Permanent.
Lieutenant,	J. H. Scott,	"
Driver,	P. T. Rice,	"
Ladderman,	L. Miller,	"
Ladderman,	J. A. Cleveland,	"
Ladderman,	W. J. Newbert,	"

LADDER COMPANY No. 7, PLEASANT STREET

American-LaFrance combination ladder truck and chemical engine, motor driven; carries 249 ft. of ladders, longest ladder 50-ft. extension, 200 ft. $\frac{3}{4}$ -inch hose, two 3-gallon chemical extinguishers. Put in service December 28, 1918.

Captain,	W. H. Kenney,	Permanent.
Lieutenant,	H. L. Ware,	"
Ladderman,	B. A. Tyrrell,	"
Ladderman,	C. W. Johnson,	"
Ladderman,	T. J. Butler,	"
Ladderman,	W. J. Adams,	"

CHEMICAL COMPANY NO. 1, JOHN STREET

Babcock chemical engine; two 40-gallon tanks, 300 ft. of $\frac{3}{4}$ -inch hose and one 18-ft. ladder. In service since 1897.

Captain,	John D. Grace,	Permanent.
Driver,	E. O. Trask,	"
Hoseman,	G. G. Wallace,	"
Hoseman,	F. F. Tourtelotte,	"

CHIEF'S DRIVERS

J. T. Conlin,
G. W. King,
M. J. Healey,
E. J. R. Bennett,
J. F. Naven.

SPARE MAN

F. E. Fisher

MECHANICIANS

C. C. Joslyn, S. H. Elliott

RESERVE APPARATUS

School Street Station:—

Second size LaFrance engine; capacity 700 gallons a minute; steam cylinders $7\frac{3}{4}$, pumps $4\frac{1}{2}$, stroke 9-inch; weight ready for service 8,275 lbs. Put in service July, 1897, in reserve September, 1910.

Beacon Street Station:—

Second size Amoskeag engine; capacity 625 gallons a minute; steam cylinders $7\frac{5}{8}$, pumps $4\frac{1}{2}$, stroke 8-inch; weight ready for service 8,180 lbs. Put in service 1873. Rebuilt with new boiler and general repairs, 1890, in reserve, 1914.

Webster Street Station:—

Third size LaFrance engine with Clapp & Jones boiler; capacity 550 gallons a minute; weight ready for service 7,335 lbs.; steam cylinders $7\frac{1}{4}$, pumps $4\frac{1}{4}$, stroke 8-inch. In reserve June, 1916.

Headquarters' Building:—

One 30-gallon Holloway chemical tank mounted on runners, to be used in case of heavy snows.

Seagraves water tower, extends 55 feet; responds on special call. Put in service June, 1909.

One fuel wagon; always loaded, responds to second alarms.

One hose wagon carries 1,200 ft. of $2\frac{1}{2}$ -inch hose, responds to second alarms.

**RECORD OF FIRES WORKED AT AND HOURS WORKED
FOR THE YEAR ENDING NOVEMBER 30, 1917**

COMPANIES.		Bell Alarms.	Still Alarms.	Thermostat Alarms.	Fires worked at.	Hours worked.	Hours absent from station responding to alarms.
Engine Co. No.	1.....	125	23	4	45	42	76
"	2.....	167	44	4	75	70	113
"	3.....	136	35	3	43	31	70
"	4.....	37	51	3	67	62	80
"	5.....	60	101	.....	111	74	99
"	6.....	79	61	.....	82	79	94
"	7.....	96	29	.....	36	38	92
"	8.....	45	65	.....	59	58	78
Hose	1.....	96	45	.....	61	65	98
"	2.....	148	98	3	108	80	144
"	3.....	90	50	.....	54	48	78
"	4.....	134	36	3	56	56	94
"	5.....	140	39	.....	66	48	84
"	6.....	17	39	.....	39	37	46
"	7.....	98	78	.....	79	76	105
"	8.....	88	37	.....	37	29	63
"	9.....	73	70	.....	54	39	67
"	10.....	16	56	3	57	52	59
"	11.....	290	54	8	136	86	146
Ladder	1.....	130	2	.....	54	52	80
"	2.....	96	1	.....	31	34	63
"	3.....	98	4	.....	22	28	58
"	4.....	54	2	.....	17	19	43
"	5.....	82	1	.....	8	9	49
"	6.....	15	4	.....	8	13	21
"	7.....	25	4	.....	21	19	23
Chem.	1.....	40	14	.....	17	24	42
Chief's car.....		227	8	.....	94	71	114
Deputy Chief's car.....		186	.....	.....	46	52	98
Chief Spooner's car.....		117	26	.....	64	59	94
Chief Adams' car.....		96	17	1	36	41	77
Chief McCarthy's car.....		75	5	.....	22	21	48

In Memoriam

TIMOTHY J. HALLY

LIEUTENANT LADDER CO. NO. 3,
Born July 16th, 1870; entered
the department February 23rd,
1893; appointed Lieutenant,
October 22nd, 1909; died of
disease, December 1st, 1917.

ANNUAL REPORT
OF THE
Superintendent of Sewers
OF THE
CITY OF WORCESTER
FOR THE
YEAR ENDING NOVEMBER 30, 1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

**MEMBERS OF THE COMMITTEE ON SEWERS
1917**

Alderman CHRISTIAN NELSON, *Chairman*

Alderman GUSTAF A. OLIN

Alderman DAVID F. DALEY

Councilman CARL J. ROLANDER

Councilman WARREN H. EDDY

Councilman NILS PETTERSON

Councilman JOSEPH S. MARTIN

To the Honorable City Council of the City of Worcester:—

In compliance with Section 21, Chapter 34, of the City Ordinance, the following report of the work and the condition of the Sewer Department for the fiscal year of 1917 is prepared.

Respectfully submitted,

MATTHEW GAULT,

Superintendent of Sewer Department.

Office of the Sewer Department,
December 28, 1917.

REPORT OF THE SUPERINTENDENT OF SEWERS

The department has been especially fortunate in having a committee thoroughly interested in its work, and the superintendent counts it a pleasure to acknowledge his indebtedness to the committee as a whole and individually.

The volume of work accomplished falls considerably short of that performed in many years, due to the prevailing conditions with which all are familiar.

As a business proposition a small amount of work is unsatisfactory, tending as it does to greatly increase the overhead charges. In a department well organized and well equipped there is certainly more economy and a greater feeling of satisfaction when the work is pushing a little hard. It is to be hoped that the present conditions will not long continue, for it is most desirable in a city as prosperous as Worcester that needed improvements keep close pace with growth and development.

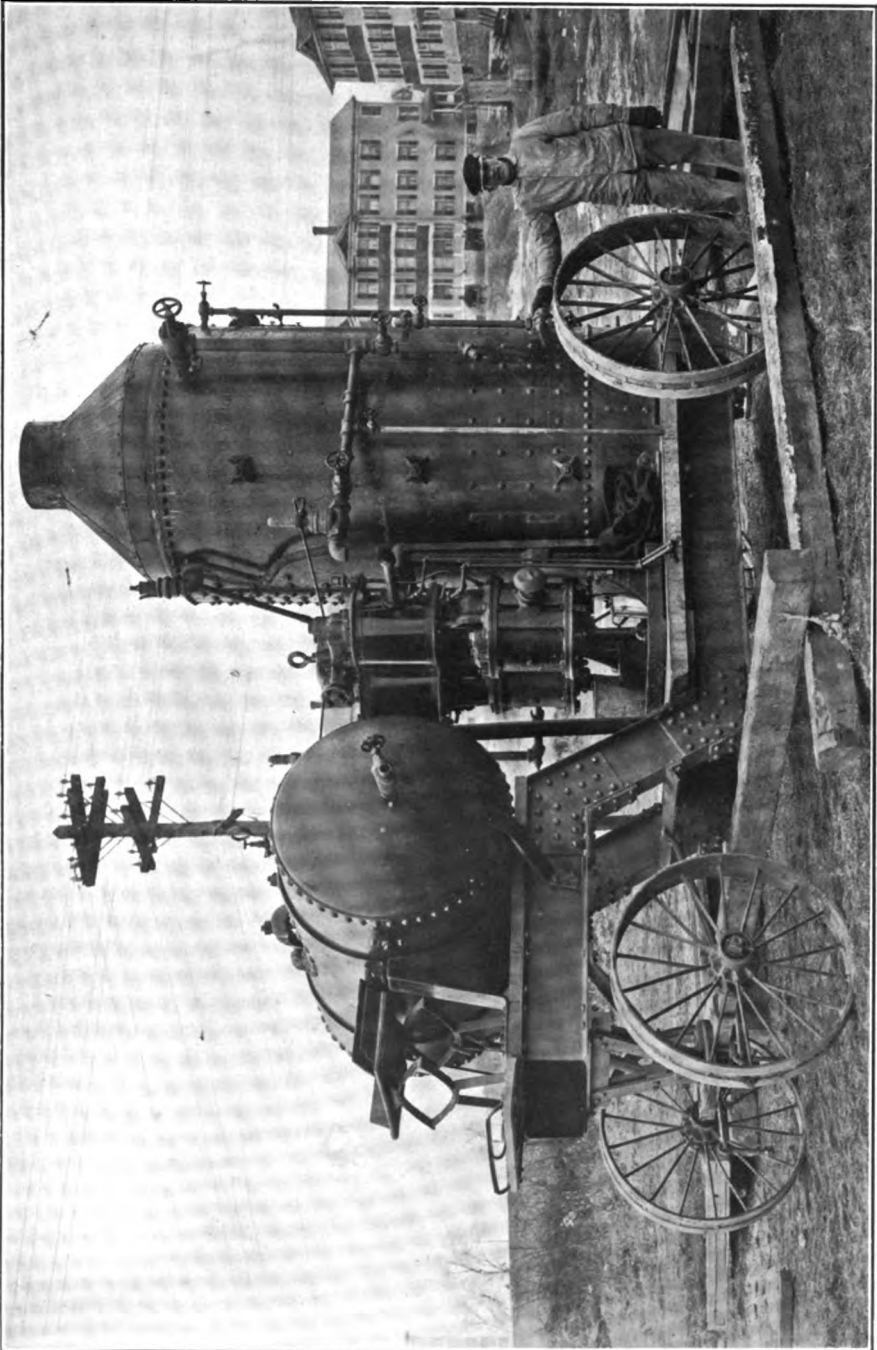
The total net expenditure for the year has been \$196,051.79 of which \$117,163.55 was for labor.

LABOR STATISTICS

Maximum number of men (week ending June 22, 1917)	204
Minimum number of men (week ending Feb. 9, 1917)	106
Average number of men for whole year	140
Average number of men from April 1st to Dec. 1st	149
Minimum wage for eight hours	\$2.08
Average wage per week for all employees	\$16.07
Total pay roll	\$117,163.55
Number of foremen	12

CONSTRUCTION

The supply of labor has been so low the past twelve months that little was available for new construction. The aim of the department has been to keep the maintenance and repair work up to the usual standard and devote as much labor as possible to the building of new sewers. The thirty-five or forty men available have not been able to keep up with the growth of the city. Consequently the work is accumulating and must be done in the near future. There



COMPRESSOR PLANT FOR ROCK DRILLING

is great need of surface water sewers in many sections. Preliminary work should be started immediately on those that will of necessity follow a natural water course. In such cases the location will be largely on private property. Surveys should be made and the necessary land taken before property is developed and the damages thereby increased. Such surface water sewers are the one that will extend from Lake Quinsigamond to the Highlands and the one that will drain the Rice Square district. Both sewers will drain large areas and on account of their size will be quite expensive.

On October 11 an order was passed for surface and sanitary sewers in Hamilton Street. It was impossible to start this work before winter, and, as the large surface water sewer is to be concrete construction, it seemed best to let it lay over until spring. It is a much needed improvement and should be closely followed by other sewers in the same vicinity. I would urge, in this district, the importance of building both systems at the same time. The district is very wet and all the sewage must be lifted a vertical distance of 176 feet. Therefore, the greatest care should be taken to exclude as far as possible from the sanitary sewers all ground and surface waters.

The Sewer Committee has already given considerable attention to the demand for sewers in the Tatnuck district and a loan of \$25,000 has been provided for carrying on this work the coming season. At the present the sewer ends at the junction of Chandler Street and Hadwen Road.

Early in June work was commenced on the Greendale trunk sewer. It will extend from the corner of Grove and North Streets, following quite closely the line of Millbrook, to West Boylston Street. This will furnish accommodations to the large district lying west of Burncoat Street and south of North Avenue. Relief will be furnished the present West Boylston Street sewer through an overflow near Neponset Street. The rapid industrial development of Greendale has necessitated the building of this sewer much earlier than was anticipated. Considerable care is being taken to make the sewer as tight as possible. The construction is a 24" single strength vitrified pipe surrounded by 6" of rich concrete.

Considerable ledge is encountered in our construction work in various parts of the city. It is certainly a great advantage to be able to keep the drilling well in advance of the excavation in rock work. We have recently found it advantageous to add to our equipment a new power plant consisting of a 35 H. P. Stewart tubular boiler, a Westinghouse compound compressor and a 60" x 36" air receiver,

all mounted on a single truck. The various units were bought separately and assembled in the department yard at a considerable saving on the cost of a similar outfit all set up. This furnishes ample power for two air drills. A good idea of the machine can be had from the accompanying photograph.

The sewage from the Massachusetts State Hospital on Belmont Street has recently been turned into the city sewer. This change will be fully appreciated by the residents of Lake View. For ten years or more this state institution has been allowed to maintain a public nuisance on its own premises. Originally an attempt was made to care for the sewage on a few small sand filters. These filters were inadequate in area and were never properly cared for. They became clogged and large pools of sewage were formed. The overflow from these pools found its way into Lake Quinsigamond near the women's bathhouse. Repeated attempts were made in the State Legislature to correct the evil but sufficient opposition was encountered to defeat the plan. Finally the Legislature of 1917 gave the Hospital Trustees authority to make the connection and provided that a yearly rental be paid the city for the use of its sewers and the cost of disposal at the Sewage Purification Plant. Most of the sewage from the institution will enter by gravity. The smaller portion from the farm buildings will enter the Belmont Street sewer near Rena Street and be pumped over the summit into the Shrewsbury Street sewer.

MAINTENANCE

The changes in the pumping plant at the Lake View Station have been completed. We now have two 6" single stage horizontal centrifugal pumps of the closed impeller type manufactured by the Lea-Courtenay Company of Newark, N. J. The capacity of each pump is about 700 gallons per minute working against a static head of 176 feet. Only one pump is required to do the work, the second being installed to guard against accident or break down. The pumps are placed in a dry well which was very carefully waterproofed, and at an elevation sufficiently low to prevent losing their charge. They are directly connected to 60 H. P. 3 phase General Electric motors and their operation is made automatic by means of a float switch. The sewage, before reaching the pumps, is passed through a bar screen with $\frac{3}{4}$ " spaces.

About 2000 feet of the old 8" force main was replaced by 14" cast iron pipe. The upper part of the old force-main,

consisting of 10" pipe, will continue to be used until the growth of the district necessitates the installation of larger pumps when it will be replaced with a 14" pipe. This new plant replaced three Shone ejectors and the change has proved very satisfactory. During ten months' operation the pump case has been opened only three times to remove solid matter which tended to obstruct the impeller. There was also installed at the station a Venturi meter manufactured by the Simplex Valve & Meter Company of Philadelphia, Pa.

COST OF MAINTENANCE AND SIZE OF SEWER SYSTEM

Date	Miles sewers	Net expenses	Cost per mile
1877	36.17	\$7,775.44	\$214.97
1878	37.26	6,657.59	176.26
1879	37.38	6,307.16	168.73
1880	37.88	6,937.43	183.14
1881	40.40	6,379.10	157.90
1882	42.90	7,490.01	174.59
1883	45.68	8,421.88	184.56
1884	48.00	9,182.05	190.25
1885	50.94	8,656.86	169.94
1886	56.41	10,843.23	192.22
1887	62.89	12,819.53	203.84
1888	68.02	12,989.12	190.96
1889	71.39	13,995.65	196.04
1890	76.59	14,686.38	191.75
1891	80.94	13,435.66	165.99
1892	85.44	13,488.24	157.86
1893	90.04	15,423.38	171.29
1894	95.42	16,302.97	170.85
1895	99.29	17,518.17	176.43
1896	102.69	15,925.38	155.08
1897	112.01	14,504.06	129.48
1898	121.97	13,475.08	110.47
1899	134.14	16,234.00	121.02
1900	151.09	19,488.55	128.98
1901	158.47	19,730.69	124.50
1902	162.75	22,715.75	139.57
1903	169.13	26,300.89	155.51
1904	172.97	26,962.84	155.88
1905	176.81	27,973.29	158.21
1906	179.56	30,063.50	167.42
1907	183.04	29,999.02	163.89
1908	187.73	29,084.42	159.43
1909	192.25	30,645.92	159.41
1910	198.66	29,826.99	147.62
1911	205.32	29,729.91	144.80
1912	213.09	29,744.78	139.59
1913	222.20	32,146.38	144.67
1914	228.53	31,137.89	136.25
1915	234.64	31,703.94	135.12
1916	239.74	46,658.79	194.63
1917	243.14	45,788.81	188.32

NOTE.—The above expense includes \$1,411.19 expended on the new equipment at our Gold Street pumping plant. This makes the cost per mile proportionately larger.

It has also been found advantageous to make changes at the Gold Street Station. The old plant consisted of a single 5" submerged centrifugal pump set directly in the sewage well and operated by a motor connected to the vertical shaft by bevel gears. The new plant consists of two 6" submerged centrifugal pumps manufactured by the American Well Works and two 5 H. P. General Electric vertical type motors. The pumps are placed in a dry well and the motors are directly connected to the pump shafts by means of flexible couplings. The plant is made automatic by means of a float switch.

By using one of our sewers the American Steel & Wire Company was able to extend a power cable from the Grove Street to the Quinsigamond plant in a very satisfactory and inexpensive manner.

The old Millbrook sewer which is now used as our main surface water carrier runs through the yards of both plants, and furnished a most convenient and direct route. The power wires are enclosed in a cable about three inches in diameter very carefully insulated and heavily armored. The first plan was to support this cable to the roof of the sewer by means of brackets, but after careful consideration it was thought more advisable to lay it along the bottom of the invert of the sewer. This arrangement avoided the necessity of tearing up the street surface in order to lay conduits or the danger from overhead wires carrying current of high voltage. It is impossible to see where any harm or expense can come to the city from the granting the privilege to this company. It certainly was a pleasure to the superintendent of this department to be able to recommend the plan, for in all his dealings with the local officials of the American Steel & Wire Company, he has invariably found them most accommodating and obliging towards the city of Worcester.

Early in the year plans for standard gasoline and sand traps were drawn and the same ordered built in all garages designed for more than two cars or trucks. This step has been made necessary on account of the greatly increased use of gasoline and the danger of its reaching the sewers and causing explosions. It is proposed to change the ordinances and compel all garages, built previous to 1917 and of more than two cars' capacity, to install these traps as a measure of public safety. Two years ago the department abandoned as unsafe the use of kerosene lanterns by its workmen when inspecting or cleaning sewers. We have also abandoned, for the same reason, the use of kerosene torches for thawing frozen traps in catch basins, using instead water

heated in a specially designed kettle which can be carried in a cart or on a sled through the streets.

During the year 14,720 cubic yards of material have been removed from the catch basins and carted to the nearest available dump at a cost of \$1.36 per yard.

SEWAGE DISPOSAL

The difficulty experienced in obtaining lime regularly and in sufficient quantities has made the treatment of sewage by chemical precipitation very unsatisfactory.

The rainfall of the year was 40.17 inches, which is considerably less than last year and very close to the average for the past twenty-two years. As a result, there was a marked decrease in the total amount of sewage received at the treatment works, amounting to slightly more than 500,000,000 gallons.

Sewage has been by-passed at the works 394½ hours, or 4.4 per cent. of the time. The gate is opened only far enough to allow the excess above the capacity of the chemical precipitation plant to escape. More than 60 per cent., or 252 hours, occurred in the early months of the year when the river flow was high.

There have been 328 cubic yards of deposit removed from the grit chamber during the year, at a cost of 76 cents per cubic yard. This deposit has been removed to one of our sludge dumps.

The total sewage flow entering the treatment works has been 6,963,375,100 gallons. This does not include 14,000,000 gallons treated at the activated sludge experimental plant. 5,506,191,100 gallons, or 79.1 per cent. of the total flow, have been passed through the chemical precipitation basins and 1,457,184,000 gallons, representing 20.9 per cent., have passed through a preliminary sedimentation basin and then on to the sand filters.

We were without lime during the entire 24 hours of 51 days and a portion of each preceding and succeeding day of 22 periods. It is estimated that at least 1,000,000,000 gallons of sewage passed through the basins without lime treatment. The difficulties of all lime contractors during the past two years have been many and the car shortage situation is rendering the regular shipment of lime a problem. The amount of lime added to the sewage has averaged 847 pounds per one million gallons.

The sludge production by chemical precipitation per million gallons of sewage was 5,705 gallons. This quantity

is considerably higher than last year and is greatly influenced by the number of acid iron doses which are successfully treated with lime. The sewage has contained nearly as large an amount of this waste as last year, when it was much greater than usual. The total quantity of sludge produced was 31,413,000 gallons, being a slight increase as compared with the previous year.

In order that the sand filters would do a reasonable amount of work, it was absolutely necessary that the drains should be relaid in a considerable number of filters. This work required such a portion of the annual appropriation that it was necessary to abandon sludge pressing early in April. During the four months of operation of the presses, 4,401,000 gallons of sludge were pumped to the storage basins, 11 per cent. of water removed from the top and the resultant sludge pressed. There were taken to the dump 3,033 tons of cake containing 719 tons of dry solids. Farmers continue to carry away as much as they desire.

During the year, two additional areas have been prepared as sludge beds and will probably be ample for this coming year. Upon the sludge beds were pumped the remainder of the sludge, 27,012,000 gallons, containing 5,349 tons of dry solids.

In the latter part of February, about 625 cubic yards of refuse material, consisting principally of sand, small stones, unburnt lime and a small proportion of sludge, were removed from the six preliminary chemical precipitation basins. The average cost was approximately 60 cents per cubic yard.

The results of chemical precipitation, as indicated by percentage removals, are better than those of last year. In view of statements made above, this seems a remarkable statement. The explanation lies in the fact that the sewage received was much stronger than last year, allowing a greater percentage removal, and yet obtain an effluent of poorer quality. This is exactly the result obtained. The removal of total albuminoid ammonia was 42.38 per cent.; of suspended albuminoid ammonia, 75.44 per cent.

An average daily flow of 55,000 gallons per acre has been put upon the 72.56 acres of sand filters. The usual dose is from 300,000 to 700,000 gallons on a filter, one to three times each week. The rate, 55,000 gallons, is a smaller quantity than last year. This decrease, as compared with former years, is due to the long period of time consumed in cleaning the filters and relaying drains. This delay is unavoidable with present labor conditions.

Preliminary to filtration, we have continued to pass the

crude sewage, without lime, through one or two basins reserved for this purpose, in which was provided a period of sedimentation of about 20 minutes. From these basins, there have been removed 4,050,000 gallons of sludge containing 566 tons of dry solids. This represents 2,779 gallons of sludge containing 0.39 tons of dry solids per million gallons of sewage. This sludge has been pumped to the sludge beds. Early in the year, about 200 cubic yards of grit were removed from these two basins at a cost of 62 cents per cubic yard.

The deposit removed from the surface of the filters amounted to nearly 20,000 cubic yards, representing 276 cubic yards per acre, or 13.8 cubic yards per million gallons of sewage filtered. Increased costs of labor and teaming necessitate a careful record of costs being made before figures of value can be given. Item 83 in the Summary of Sewerage Statistics, following the tables at the end of the report, includes the cost of operation, cleaning the filters and relaying drains in 19 filters. In connection with the relaying of drains, the remaining filters were examined and plowed or harrowed, as conditions seemed to indicate desirable.

The sand filters have effected a purification of 86.56 per cent. of the total organic matters, measured by the albuminoid ammonia, and of the dissolved organic matters, 69.49 per cent. These figures represent the usual good work of the sand filters. The average quality of the effluent was slightly poorer than last year, due to a certain extent to the marked increase in the organic content of the sewage.

The total purification effected by the plant for the year was 54.39 per cent., expressed in terms of albuminoid ammonia removal. With respect to suspended organic matters, the percentage removal was 82.31. Until our appropriation is sufficient to allow the proper operation of the chemical precipitation plant, the purification effected by the whole plant is bound to be comparatively low.

The net cost of maintenance of the Treatment Works for this past year has been \$64,261.85, which represents 37 cents per capita. This includes all administrative expenses, but does not include interest on the capital invested. The cost of treatment may be subdivided as follows:

*Cost of Operation	Total	Per Mil. Gal.
Chemical Precipitation	\$32,617 .22	\$5 .92
Sludge Pressing	9,045 .05	11 .46
Sand Filtration	14,339 .39	9 .84
Sand Filtration (Relaying Drains)	8,260 .19	
	<hr/>	<hr/>
	\$64,261 .85	

*The above costs include the amount expended in laboratory as per Schedule 4 in the appendix, the same being apportioned to the three accounts with sludge pressing given one-seventh.

The cost of chemical precipitation includes the cost of pumping 27,012,000 gallons of sludge to the sludge beds. The cost of sludge pressing per million gallons of sewage chemically treated is estimated on the basis of the proportion of sludge pressed. The actual cost of chemical precipitation and sludge disposal per million gallons of sewage treated was \$9.23.

SLUDGE PRESSING

The matter of sludge disposal is always the problem of sewage treatment. The disposal of sludge in liquid form in large quantities is almost impossible for works of any size. The activated sludge method of sewage treatment is developing many questions concerning the disposal of sludge by pressing. On this account, a few notes concerning our results with the pressing of chemical precipitation sludge may be of great interest.

Briefly, the method of operation is as follows: the sludge from the chemical precipitation is lifted by a Shone ejector to one of two storage basins, each having a capacity of 100,000 gallons. As the sludge enters the ejector, three tons of lime in the form of milk of lime, are added in order to facilitate pressing. The sludge usually stands in the storage basin from 15 to 40 hours and the clear water is removed from the top before pumping to the presses. The sludge is pumped to the presses under 70 to 80 lbs. per sq. in. pressure and the presses are closed by an oil hydraulic pump operating up to 1,500 lbs. per sq. in. pressure. Both pressures are exercised at the same time, thus making the pressing a continuous process, except for the time required to clean a press.

The presses, four in number, are of the Bushnell type, each containing 125 plates. The filtering area of each plate is approximately 36 inches in diameter and in operation is entirely covered by an 11-oz. duck cloth which requires 2½

yards of the material. The presses are cleaned in rotation, requiring about 15 minutes for each press. The formation of the cake requires about 45 minutes.

The employees in the press gang are an engineer, engineer's helper, fireman, valveman, pitman, screenman, motorman, two platemen, and three dumpmen.

The following data are general averages usually referred to as the results of sludge pressing:

Per cent. of water drawn from top of sludge in storage basin	10 to 20
Percentage water in sludge as pumped to storage basin	94 to 95
Percentage water in sludge as pumped to presses.	93 to 94
Gallons of sludge pumped per pressing	1,650
Gallons of sewage represented per pressing	250,000
Presses emptied per 8-hour shift	32
Tons of solids per pressing	0.4 to 0.5
Tons of cake per pressing	1.7
Percentage water in press-cake	70 to 75
Cubic yards of cake per pressing	2
Weight of cake in tons per cubic yard	0.8 to 0.9
Tons of cake per million gallons of sewage	7
Cubic yards of cake per million gallons of sewage.	8

EXPERIMENTAL WORK

Worcester is a rapidly growing city and the department for some time has realized that changes in the sewage disposal plant were needed. Our sand filters having an effective area of 74 acres are kept in an efficient condition and are doing excellent work. They are handling from 20 to 25% of our total flow of sewage, and receiving as they do the heavy day sewage, they are disposing of more than that percentage of the total organic matter. The effluent from the chemical precipitation tanks is not as good and tends to neutralize to a considerable extent the good work accomplished by the sand filters. It is out of the question for us to build more sand filters as both the necessary filtering material and area are lacking. Another serious objection is the expense of operating sand filters under our conditions. The large amount of iron in the sewage causes an iron hydrate to be formed in the open joints of the under-drains and in spaces of the gravel surrounding the under-drains. In about five years' time the under-drains become completely sealed up and it is necessary to relay them at an expense of about \$400 per acre.

Beginning in July, 1911, careful experimental work was carried on for nearly two years with an Imhoff tank in con-

nection with sprinkler filters. The results obtained were very satisfactory and that method of disposal seemed well adapted to our conditions. In fact, it gave promise of cutting our annual operating cost one-half.

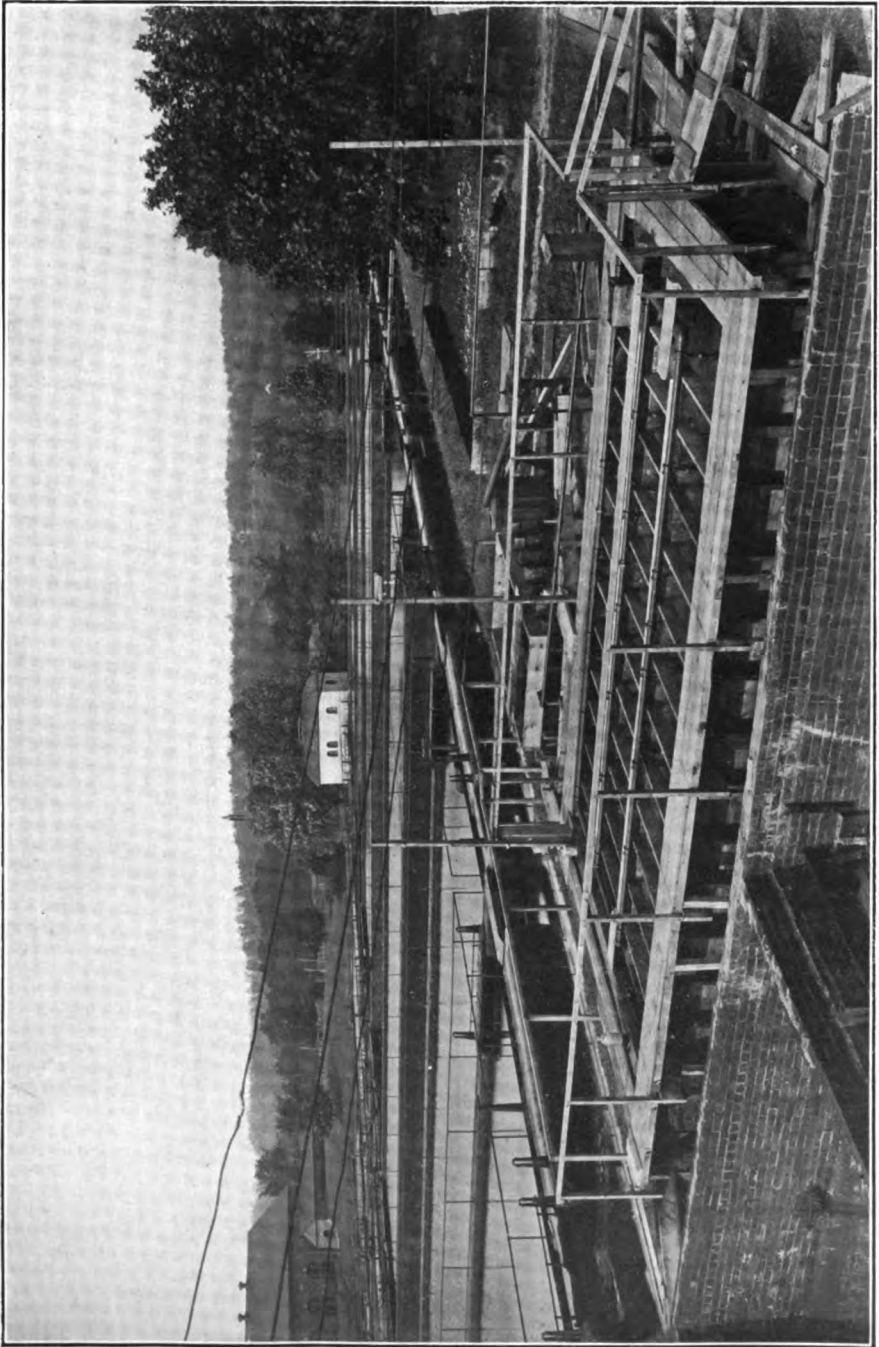
Imhoff tanks and sprinkler filters would probably have been adopted already by the city of Worcester had not the Activated Sludge Process made its appearance. The city of Milwaukee has carried on very extensive experiments with this new process covering a period of nearly three years, and is now designing a plant for treating its whole flow of sewage by that method. Our local conditions and the composition of our sewage vary so much from those found at Milwaukee that we would not be justified in basing plans and estimates on their result. Consequently, as the Activated Sludge Process seemed to be gaining in favor among sanitary engineers, it seemed to be a good business proposition on the part of the Sewer Department to try it out.

All our experimental work we have endeavored to carry out on a scale sufficiently large to give reliable data. Accordingly, a plant was designed capable of handling 100,000 gallons per day. Construction was commenced in April and the plant put in operation July 7th. With the exception of a few shut-downs, for minor repairs, totaling perhaps five days, the plant has been in continuous operation. It is planned to continue the experimental work until next summer. Arrangements have also been made to do some work with sludge pressing. For that purpose, a small press has been fitted up using six of the large plates from one of the Bushness presses ordinarily used in handling our chemically precipitated sludge.

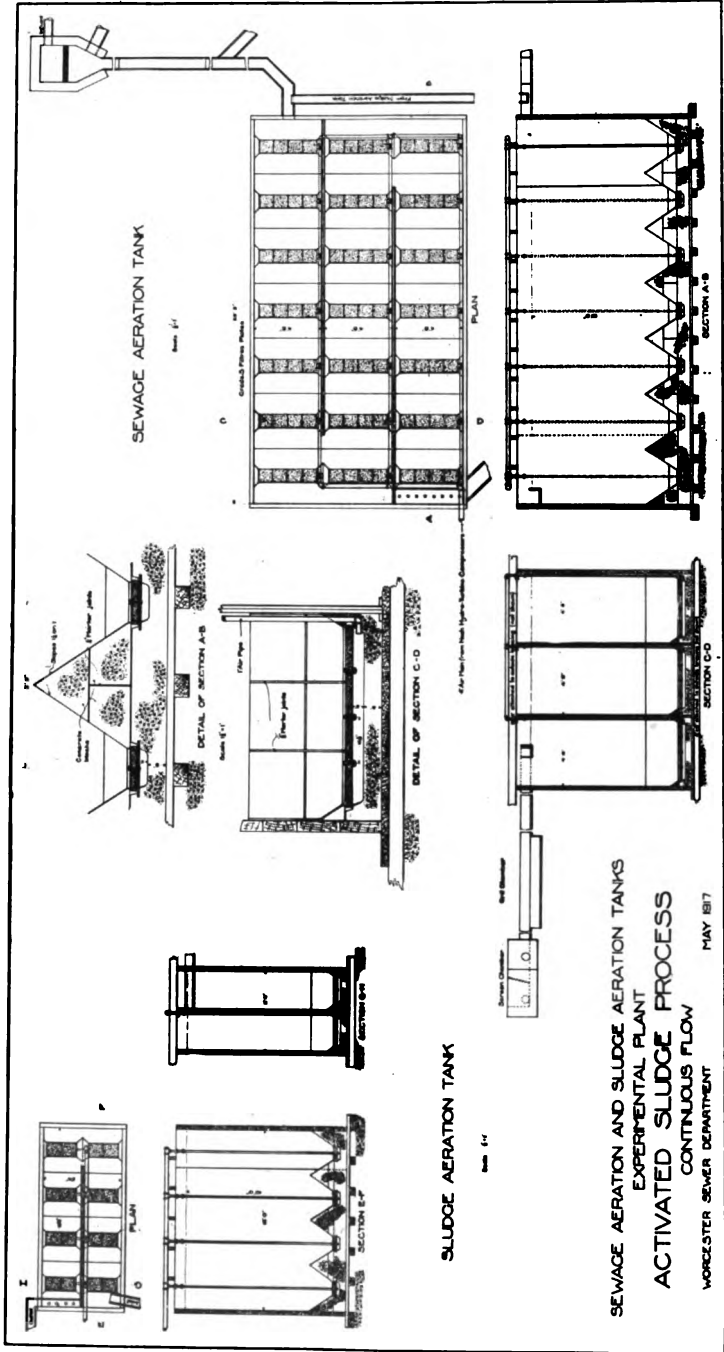
The data now being accumulated, together with that secured in 1911 and 1912, will give us material on which to base plans and estimates for changes best adapted to Worcester conditions and needs.

We wish to acknowledge the valuable assistance received in the experimental work from Mr. H. P. Eddy and Mr. A. L. Fales, members of the firm of Metcalf & Eddy, Boston, Mass. Both were formerly connected with the Worcester Sewer Department and retain their interest in its work to such an extent as to be willing to give their time freely in consultation regarding many of the problems that have arisen. The superintendent extends to them his personal thanks.

Following the completion of the experimental work a full report on the same will be published.

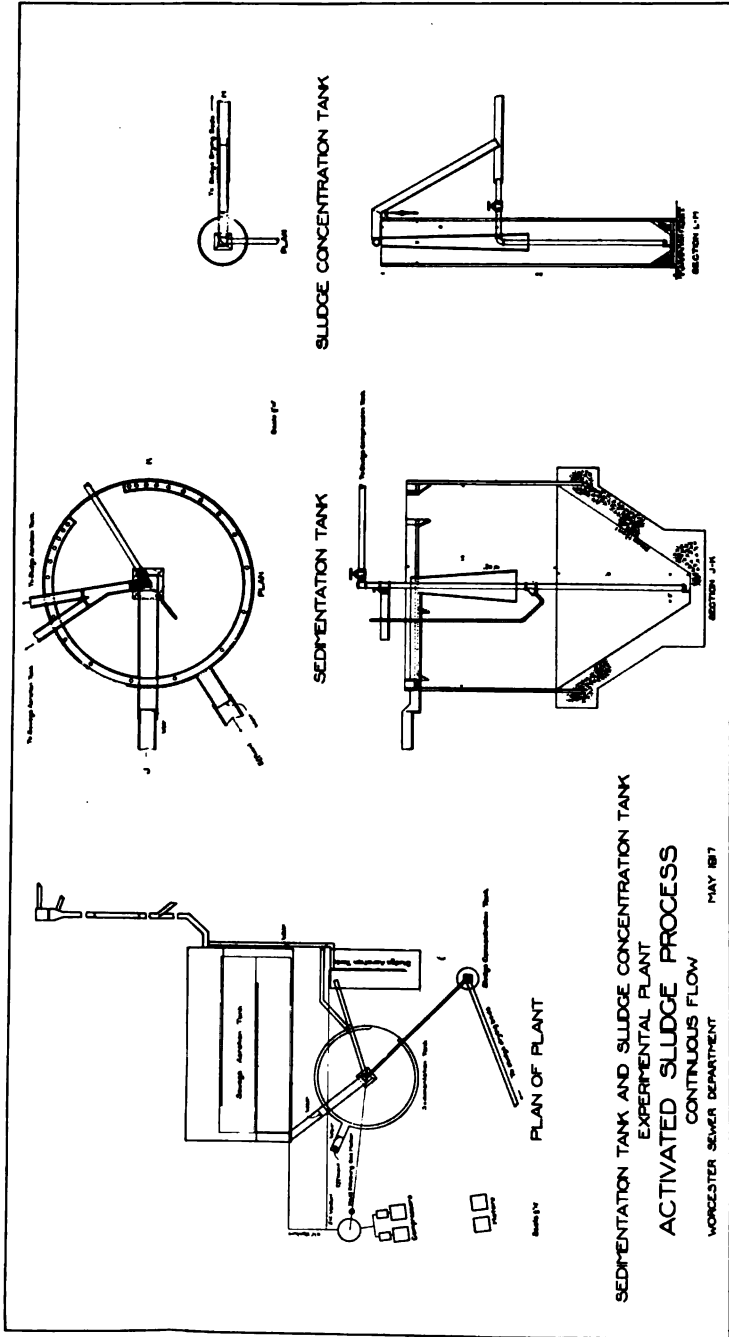


ACTIVATED SLUDGE PLANT



SEWAGE AERATION AND SLUDGE AERATION TANKS
 EXPERIMENTAL PLANT
ACTIVATED SLUDGE PROCESS
 CONTINUOUS FLOW
 WORCESTER SEWER DEPARTMENT
 MAY 1917

DETAILS OF ACTIVATED SLUDGE PLANT



DETAILS OF ACTIVATED SLUDGE PLANT

CONCLUSION

It is a pleasure to record the efficient and faithful service rendered by my assistants.

For the results accomplished much credit is due to the loyal support of Mr. Roy S. Lanphear, supervising chemist in charge of the Purification Plant; Mr. Henry A. Allen, chief clerk; Mr. Willis E. Cary, in charge of the Department Yard and Shop, and Mr. Earl R. Perry, supervising engineer. The hearty co-operating of Mr. Harry Gaskill, of the Engineering Department, is fully appreciated.

FINANCIAL SUMMARIES OF RESOURCES AND EXPENDITURES

	CONSTRUCTION	EXHIBIT A
Balance, December 1, 1916		\$8,736 .61
Appropriation from tax levy		20,000 .00
Appropriation from sale of real estate		350 .00
Transferred from sewer assessments		37,950 .77
Total resources		<u>\$67,037 .88</u>
Expenditures:—		
Yard Ledger,		
Expenditures	\$55,695 .69	
Less transfers and refunds	49,048 .43	
Net expenditure		\$6,652 .26
Sewers,		
Expenditures	\$41,741 .95	
Less transfers and refunds	1,933 .14	
Net expenditure as per Schedule 1,		\$39,808 .81
Catch-basins,		
Expenditures	\$4,647 .95	
Less transfers and refunds	3,645 .25	
Net expenditure		\$1,002 .70
General,		
Expenditures	\$7,449 .74	
Less transfers and refunds	7,301 .85	
Net expenditure as per Schedule 2,		\$147 .89
Total net expenditures		<u>\$47,611 .66</u>
Balance, November 30, 1917		\$19,425 .72

	FILTRATION BEDS	EXHIBIT B
Balance, December 1, 1916		\$25 .38
Appropriations from tax levy and liquor licenses		10,000 .00
Total resources		<u>\$10,025 .38</u>

Expenditures.....	\$10,165.18	
Less revenue.....	<u>178.39</u>	
Total net expenditures.....		\$9,986.79
Balance, November 30, 1917		<u>\$38.59</u>

MAINTENANCE

EXHIBIT C

Balance, December 1, 1916.....	\$798.28	
Annual appropriation.....	<u>45,000.00</u>	
Total resources.....		\$45,798.28
Expenditures.....	\$14,999.50	
Less revenue.....	<u>2,210.69</u>	
Total net expenditures as per Schedule 3,		<u>\$45,788.81</u>
Balance, November 30, 1917		\$4.47

PURIFICATION

EXHIBIT D

Balance, December 1, 1916.....	\$67.74	
Annual appropriation.....	<u>64,200.00</u>	
Total resources.....		\$64,267.74
Expenditures.....	\$65,006.94	
Less refunds.....	<u>745.09</u>	
Total net expenditures as per Schedule 4,		<u>\$64,261.85</u>
Balance, November 30, 1917		\$5.89

BEAVER BROOK, LAND DAMAGES

EXHIBIT E

Balance, December 1, 1916.....	\$367.30	
Total resources.....		\$367.30
Balance, November 30, 1917		<u>\$367.30</u>

BROOKS AND RIVERS (MAINTENANCE)

EXHIBIT F

Balance, December 1, 1916.....	\$545.77	
Total resources.....		\$545.77
Expenditures.....	<u>\$275.69</u>	
Total net expenditures.....		<u>\$275.69</u>
Balance, November 30, 1917		<u>\$270.08</u>

PURIFICATION (OUTFALL SEWER)

EXHIBIT G

Balance, December 1, 1916.....	\$8,798.98	
Total resources.....		\$8,798.98
Expenditures.....	<u>\$389.34</u>	
Total net expenditures.....		<u>\$389.34</u>
Balance, November 30, 1917		<u>\$8,409.64</u>

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SUPERINTENDENT OF SEWERS.

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CONSTRUCTION (GREENDALE TRUNK)		EXHIBIT H
Appropriation from loan.....	\$50,000.00	
Total resources.....		\$50,000.00
Expenditures.....	\$27,759.21	
Less revenue.....	21.56	
Total net expenditures.....		<u>\$27,737.65</u>
Balance, November 30, 1917.....		<u>\$22,262.35</u>

Thayer.....	Beaver Brook Location to Lovell St.....	San.	8	528.4	8	1,400.00	1,288.54
Underwood.....	Harshorn Ave. to May St.....	San.	8	312.8	3	787.60	1,288.46
Underwood.....	Harshorn Ave. to May St.....	Surf.	10	312.8			
Totals.....				17,968.5	75	\$84,479.60	\$42,681.98
Amount expended on above orders previous to December 1, 1916.....							
Net expenditure for year as per Exhibit A.....							
Note: *Not completed.....							
							\$39,808.61

SCHEDULE 2

CONSTRUCTION, "GENERAL ACCOUNT"

Administrative expenses,

Net expenditure as per Exhibit A.....	\$147.89
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SCHEDULE 3

MAINTENANCE OF SEWER SYSTEM

Cleaning catch-basins.....	\$20,009.86
Cleaning catch-basins (thawing and freeing traps)....	1,805.06
Cleaning sewers.....	3,744.91
Repairs of sewers, catch-basins and man-holes.....	2,511.55
Repairs and changes on account of work done by Street Department.....	2,518.52
Repairs (work chargeable to other parties).....	1,754.42
Maintenance of regulators.....	1,431.89
Maintenance of pumping station, Gold Street.....	2,143.76*
Maintenance of pumping station, Lake View.....	7,394.94
Maintenance of pumping station, Massasoit Rd.....	942.95
Vacation expense.....	367.86
Damages account.....	1,148.99
Millbrook Arch.....	14.10

Net expenditure as per Exhibit C.....	\$45,788.81
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SCHEDULE 4

PURIFICATION

Chemical treatment.....	\$30,737.53
Sludge Pressing.....	8,418.49
Filter beds.....	20,719.90
Laboratory.....	4,385.93

Net expenditure as per Exhibit D.....	\$64,261.85
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SCHEDULE OF PROPERTY

Personal property.....	\$50,202.42
Stock on hand.....	13,291.84
Buildings and machinery, E. Worcester Street.....	12,287.25
Land, 1,700 feet, Hammond Street.....	425.00
Land, 15,855 feet, East Worcester Street.....	11,900.00
Land, 33,221 feet, East Worcester Street.....	24,900.00

Total.....	\$113,006.51
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Purification works:

Personal property.....	\$12,545.95
Stock on hand.....	1,560.19
Land, including damages, court services and ap- praisal of property.....	109,030.31
Precipitation plant.....	265,628.75
Buildings and machinery.....	50,436.50
Grit chamber and extension of Outfall Sewer.....	10,717.24
New Outfall Sewer.....	257,201.02
Filtration area.....	308,812.44

*This amount includes \$1,411.19 expended on new equipment.

Construction railroad equipment, including cars, steam shovel and locomotives.....	6,458.44*
Experimental activated sludge plant.....	6,140.00
Total.....	\$1,028,580.84
Pumping stations:	
Gold Street, land, 360 feet.....	\$500.00
Gold Street, building and machinery.....	3,894.82
Lake Avenue, land, 5,851 feet.....	1,462.75
Lake Avenue, building and machinery.....	10,425.52
Massasoit Road, land, 12,854 feet.....	642.70
Massasoit Road, building and machinery.....	2,966.90
Lake View Storage chamber.....	2,845.64
Total.....	22,238.33
Sewer system (cost of sewers, catch-basins, etc.):	
Separating system (Statutes of 1897 and 1900).....	\$993,502.07
General construction.....	4,832,225.90
Total.....	\$5,825,727.97
Beaver Brook (Improvement).....	191,066.52
Middle River (Improvement).....	30,083.29
Grand total.....	\$7,210,703.46

*Personal property, but not included in that item under "Purification."

TABLE I
MATERIALS PURCHASED BY THE SEWER DEPARTMENT

Material	Contractor	Price Paid					Approximate Amount Used				
		1914	1915	1916	1917	1918	1914	1915	1916	1917	
Brick	Spiers Brick Co.	\$10.75	\$10.25	\$11.25	\$12.25		441,000	388,000	258,000	259,000	
Cement (Portland)	F. E. Powers Co.	1.82	1.18	1.40½	1.47		5,870 bbls.	4,515, bbls.	2,285 bbls.	2,856 bbls.	
Duck	John Boyle & Co.	0.17½	0.14	0.18½	0.25½		9,218 yds.	8,494 yds.	7,557 yds.	2,500 yds.	
Lime	Brewer & Co.	5.75	5.68	5.67	8.81		2,380 tons	2,480 tons	2,408 tons	2,043 tons	
Sand and Cobbles	Streeter & Sons	1.50	1.50	1.75	2.25±		1,146 cu. yds.	1,881 cu.yds.	298 cu. yds.	917 cu. yds.	
*Vitrified pipe....	John W. Ramsay	70%	78½%	77½%	72½%		78,239 ft.	53,241 ft.	86,882 ft.	85,229 ft.	

*The price of pipe per foot is figured by deducting from Standard List the discounts allowed by contract as given in table.
NOTE:—The price for Portland Cement is net for delivery in cotton sacks, four sacks to the barrel, allowances made for sacks.

TABLE II
INCHES OF RAINFALL AT PURIFICATION WORKS, 1915-1916

DATE	December	January	February	March	April	May	June	July	August	Sept.	October	November
1	.....	.....	0.62	.....	.....	0.34	.....	0.10	.....	0.08	.....	.....
2	.....	*0.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.....	.....	.....	*0.55	.....	.....	.....	.....	.....	.....	.....	.....
4	.....	.....	.....	*0.78	.....	.....	.....	.....	.....	.....	0.02	.....
5	0.01	0.78	*0.85	*0.73	0.48	†1.25	.....	.....	.....	.....	0.46	.....
6	.....	0.12	.....	*0.10	0.25	†0.23	.....	.....	.....	0.07	0.17	.....
7	.....	.....	.....	.....	.....	.....	0.26	.....	.....	.....	.....	.....
8	.....	.....	.....	0.75	.....	.....	0.40	.....	.....	0.21	0.09	.....
9	0.30	0.08	0.30	.....	*0.20	.....	0.07	.....	0.42	.....	0.09	.....
10	.....	.....	.....	.....	.....	.....	0.45	.....	0.45	.....	.....	.....
11	†0.20	.....	.....	0.19	.....	.....	0.80	1.08	.....	.....	0.25	.....
12	†0.55	.....	.....	0.02	.....	0.06	.....	.....	.....	.....	0.47	.....
13	.....	.....	.....	.....	.....	0.04	.....	.....	0.09	.....	.....	.....
14	.....	0.80	.....	†0.16	.....	.....	.....	.....	.....	.....	.....	.....
15	*0.47	.....	.....	0.02	.....	.....	0.30	.....	.....	.....	.....	.....
16	.....	.....	.....	.....	.....	.....	0.08	.....	.....	.....	.....	.....
17	.....	.....	.....	.....	.....	.....	1.02	.....	0.45	0.19	.....	.....
18	.....	.....	.....	0.37	0.05	.....	.....	0.04	.....	0.21	0.45	.....
19	.....	.....	.....	†0.03	.....	.....	.....	.....	.....	.....	.....	.....
20	0.10	.....	0.18	.....	0.21	.....	.....	.....	.....	.....	.....	.....
21	0.05	*0.15	.....	.....	.....	.....	.....	.....	1.40	.....	.....	0.70
22	1.30	*0.39	*0.08	.....	0.04	0.12	.....	.....	.....	.....	.....	0.12
23	.....	.....	0.15	0.02	.....	0.48	.....	.....	0.12	.....	.....	.....
24	.....	.....	0.15	0.43	.....	.....	0.22	.....	0.06	.....	2.70	.....
25	.....	.....	.....	.....	.....	.....	.....	.....	0.08	.....	.....	.....
26	.....	.....	0.87	.....	0.12	.....	0.20	.....	.....	.....	.....	.....
27	.....	.....	.....	1.03	0.37	0.40	0.22	.....	.....	.....	0.10	.....
28	0.05	.....	.....	.....	.....	0.40	.....	.....	.....	0.20	0.40	*0.11
29	.....	.....	.....	0.05	.....	0.25	0.20	.....	2.52	0.08	.....	.....
30	.....	.....	.....	.....	.....	.....	0.21	.....	0.68	.....	1.73	.....
31	.....	*0.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	3.03	2.93	3.20	4.50	1.67	3.57	4.88	1.22	6.27	1.04	6.98	0.93

*Snow. †Snow and rain. Grand Total, 40.17.

TABLE III
INCHES OF RAINFALL AT PURIFICATION WORKS, 1897 TO 1917

YEAR	January	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.	Total
1896	1.18	5.80	4.35	0.94	2.43	2.76	3.01	2.92	7.24	3.26	2.52	1.91	38.32
1897	2.44	2.64	3.63	2.36	3.86	3.18	6.49	2.66	1.65	0.70	6.27	5.58	41.46
1898	4.80	4.15	2.17	3.49	2.22	2.10	2.99	7.34	3.52	7.08	6.27	2.95	49.44
1899	3.73	3.75	5.27	2.06	0.90	3.80	3.27	1.62	4.80	1.92	2.86	1.77	34.75
1900	4.85	3.10	6.13	2.54	3.84	4.63	2.80	3.20	2.27	1.86	4.69	2.05	46.47
1901	1.19	0.67	4.74	6.64	4.68	1.23	2.87	3.34	2.94	2.68	1.94	7.31	40.23
1902	2.14	4.13	5.03	4.44	1.50	3.94	4.30	3.21	3.22	5.92	1.12	5.97	44.97
1903	3.34	4.20	6.66	2.37	1.06	9.45	2.98	3.84	1.82	3.72	1.80	3.37	44.65
1904	3.61	2.29	3.00	7.44	2.16	2.25	2.97	4.32	5.43	1.11	1.56	2.38	38.57
1905	4.45	2.05	3.03	2.70	1.53	5.43	2.64	2.73	6.43	1.80	2.63	3.44	38.96
1906	2.54	2.60	5.45	2.82	5.75	4.14	3.20	2.12	2.39	3.97	2.65	3.30	46.33
1907	2.76	1.84	1.69	2.72	2.92	3.82	2.56	1.08	9.38	4.63	6.06	4.63	43.98
1908	3.28	4.14	3.73	2.12	4.73	1.17	3.16	6.24	1.44	1.92	0.96	3.00	35.99
1909	2.91	5.66	4.13	5.43	2.57	2.21	0.97	2.96	3.96	1.11	2.18	3.51	37.65
1910	5.75	4.88	0.94	2.77	1.55	4.00	2.23	3.20	2.78	1.23	3.51	2.06	84.39
1911	2.76	2.28	3.50	2.61	2.11	2.00	2.43	4.56	3.87	4.60	4.59	3.17	38.28
1912	2.18	2.74	6.24	4.13	5.32	0.18	2.76	3.37	1.45	1.41	4.46	4.92	39.21
1913	2.97	3.04	5.10	4.61	4.16	1.36	2.59	2.54	3.77	6.36	2.48	3.05	42.01
1914	3.20	2.72	4.32	3.81	2.61	1.86	3.35	3.33	0.10	1.45	1.86	3.16	31.82
1915	6.16	3.11	0.00	1.66	1.64	1.51	7.67	5.85	1.43	2.62	2.81	5.19	39.69
1916	1.59	7.50	4.20	3.96	3.69	5.91	6.09	1.40	3.17	1.76	2.87	3.03	45.17
1917	2.93	3.20	4.50	1.67	3.57	4.83	1.22	6.27	1.04	6.93	0.93	2.73	39.92
Totals	70.26	80.99	37.95	73.48	64.89	71.83	77.49	73.15	74.00	67.97	66.98	73.92	892.86
Averages	3.19	3.68	4.00	3.34	2.95	3.27	3.52	3.55	3.36	3.09	3.04	3.59	40.58

TABLE IV.—COST OF MAINTAINING SEWAGE DISPOSAL WORKS

YEAR	Amount of Sewage Treated in Gallons	Cost	Cost per Million Gallons	Population	Cost per Capita
1890	391,000,000	\$47,919.60	\$122.55	84,655	\$0.56
1891	1,398,000,000	27,761.95	19.86	87,320	0.32
1892	842,000,000	27,575.24	32.74	90,050	0.31
1893	1,795,000,000	24,103.23	13.43	92,870	0.26
1894	4,562,000,000	25,145.21	5.51	95,790	0.26
1895	5,730,000,000	46,847.46	8.17	98,767	0.47
1896	5,840,000,000	43,264.23	7.41	102,400	0.42
1897	6,205,000,000	69,165.64	11.14	106,200	0.65
1898	6,460,000,000	64,440.83	9.97	110,200	0.58
1899	6,241,000,000	84,694.98	13.57	114,200	0.74
1900	4,781,000,000	50,073.34	10.47	118,421	0.41
1901	3,565,000,000	43,773.99	12.27	120,300	0.36
1902	4,842,000,000	50,576.69	10.45	122,200	0.41
1903	5,676,000,000	53,891.72	9.49	124,200	0.43
1904	4,622,000,000	55,184.15	11.94	126,100	0.44
1905	4,319,000,000	53,873.77	12.47	128,135	0.42
1906	5,357,000,000	50,513.00	9.43	131,500	0.38
1907	5,679,000,000	57,889.31	10.19	135,000	0.43
1908	5,615,000,000	49,226.52	8.77	133,600	0.36
1909	5,265,000,000	49,892.31	9.48	142,200	0.35
1910	5,317,000,000	49,908.67	9.39	145,986	0.34
1911	5,421,000,000	50,001.04	9.22	149,700	0.33
1912	5,807,000,000	49,977.34	8.61	153,700	0.32
1913	6,610,000,000	56,276.01	8.51	157,800	0.36
1914	6,638,367,000	60,366.58	9.09	161,900	0.37
1915	5,995,011,900	60,340.07	10.07	162,000	0.37
1916	7,493,285,800	57,976.36	7.64	170,200	0.34
1917	6,963,375,100	64,261.85	9.23	173,500	0.37

Note.—The costs here given represent the net cost of maintenance, but do not include expenses for litigation and land damages.

Note.—The costs for 1895-1899 include considerable money spent on construction, but which cannot be separated from maintenance charges because both items were kept in the same account. This is also true for the figures given for 1890.

Note.—The total population is estimated on the basis of a uniform per cent. increase per annum, between the census returns.

TABLE V
RESULTS OF SLUDGE PRESSING, 1899 TO 1917

YEAR	SLUDGE		PRESS CAKE		SOLIDS		POUNDS Lime added per thousand Gallons Sludge Pumped	COST OF OPERATION		
	Thousand Gallons Pressed	Per Cent. Solids	Tons Cake	Per Cent. Solids	Tons Solids	Tons per Million Gallons Sewage Treated		Total	Per Million Gallons Sewage Treated	Per Ton Solids
1899	52,600	2.99	33,101	26.1	6,606	1.18	11.1	\$30,683.78	\$4.92	\$4.64
1900	39,487	4.42	27,286	28.0	7,299	1.98	21.2	24,983.31	6.76	3.42
1901	24,920	5.25	20,152	27.0	5,450	1.74	20.0	18,477.59	5.89	3.39
1902	20,905	8.01	22,059	31.6	6,975	1.52	30.3	23,808.05	5.20	3.41
1903	24,527	7.44	25,088	30.3	7,608	1.45	33.5	25,766.71	4.91	3.39
1904	24,331	6.93	24,332	28.9	7,026	1.66	28.5	24,640.18	5.33	3.51
1905	15,419	9.80	19,448	32.2	6,297	1.71	53.5	23,844.13	6.33	3.71
1906	15,761	8.09	16,959	31.3	5,310	1.25	52.2	20,171.91	4.74	3.80
1907	17,979	7.22	18,240	29.6	5,407	1.25	41.5	22,392.19	4.92	4.14
1908	12,074	8.20	12,987	31.8	4,126	1.00	49.4	15,819.91	3.85	3.83
1909	12,606	6.93	11,500	31.7	3,642	0.99	44.7	15,760.34	4.28	4.38
1910	12,244	8.20	12,867	31.6	4,182	1.17	53.5	16,208.41	4.53	3.88
1911	12,931	7.52	13,469	30.2	4,066	1.13	53.5	16,608.27	4.60	4.08
1912	10,685	7.54	11,357	29.6	3,358	1.20	54.6	14,867.84	5.31	4.43
1913	6,809	10.22	8,309	30.0	2,491	1.29	55.0	12,501.60	6.47	5.02
1914	13,569	7.75	14,954	29.3	4,333	0.94	52.9	16,698.20	4.00	4.26
1915	15,233	7.69	16,973	28.8	4,887	1.24	58.4	19,228.78	4.93	3.98
1916	13,742	6.26	13,192	27.2	3,584	1.23	57.9	20,475.69	7.05	5.71
1917	3,932	4.34	3,033	23.7	919	0.91	53.8	9,045.05	11.46	12.58

Note:—To facilitate the operation of the precipitation basins, 15,740,000 gallons of sludge, containing 3,577 tons of dry solids, were pumped onto the old sludge beds. In estimating the tons of solids per million gallons of sewage treated and the cost of operation per million gallons of sewage treated, the proportion of sludge pumped to the sludge beds was taken into consideration.

TABLE VI
PER CENT. ORGANIC MATTER REMOVED FROM THE SEWAGE
DECEMBER TO JULY

Description	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Total amount (by albuminoid ammonia)	48.7	49.8	62.7	56.4	50.3	54.9	57.0	60.2	60.5	52.0	52.8	53.3	58.3	58.1	55.6	45.5	52.0	55.1	52.5	49.1
Amount in suspension (by albuminoid ammonia)	93.5	94.2	97.8	95.7	89.3	91.5	95.1	92.8	92.3	97.3	83.7	83.0	89.9	90.0	86.4	81.5	84.3	84.6	80.7	80.3
Total amount (by oxygen consumed)	46.2	49.8	54.5	52.1	60.0	55.9	53.3	54.7	61.8	56.9	58.2	57.0	60.1	61.4	56.7	43.8	56.3	61.6	58.2	55.8
Amount in suspension (by oxygen consumed) . . . . .	.....	.....	.....	.....	83.9	77.6	77.0	80.6	89.4	86.0	87.5	87.8	90.9	91.0	85.4	85.6	86.6	89.7	86.2	82.7
JULY TO DECEMBER																				
Total amount (by albuminoid ammonia)	54.9	57.1	56.7	63.3	59.3	55.7	60.8	62.9	57.5	57.7	58.7	61.0	58.5	57.9	60.9	54.7	60.7	62.1	56.0	64.0
Amount in suspension (by albuminoid ammonia)	91.6	96.6	95.5	100.0	90.6	93.0	94.3	86.8	80.6	86.8	86.7	88.1	87.1	88.4	88.5	82.3	88.2	85.2	81.4	85.6
Total amount (by oxygen consumed)	50.8	53.3	60.1	68.5	64.8	58.1	57.8	62.2	58.9	64.3	62.8	69.7	62.4	61.7	64.9	65.1	59.1	70.9	63.8	67.7
Amount in suspension (by oxygen consumed) . . . . .	.....	.....	.....	.....	91.6	75.9	79.5	80.1	81.1	87.4	88.9	92.5	88.5	85.8	86.6	87.9	85.6	90.1	85.6	84.6
DECEMBER TO DECEMBER																				
Total amount (by albuminoid ammonia)	51.8	53.7	59.4	63.0	52.7	55.3	58.3	61.5	59.2	54.4	55.3	56.4	58.4	58.0	57.7	49.0	55.8	58.9	54.0	54.4
Amount in suspension (by albuminoid ammonia)	92.6	95.5	96.8	98.2	90.0	92.1	94.8	89.9	87.1	87.1	85.1	86.4	88.7	89.3	87.2	81.7	85.6	86.7	81.0	82.3
Total amount (by oxygen consumed)	48.9	51.7	55.9	60.9	58.2	56.6	56.3	58.2	60.6	60.0	60.1	61.7	61.1	61.5	60.3	59.3	58.3	66.4	60.3	60.1
Amount in suspension (by oxygen consumed) . . . . .	.....	.....	.....	.....	86.6	76.7	78.5	80.3	85.8	86.8	88.0	89.8	89.7	88.8	85.9	86.7	86.2	90.9	86.0	83.5

Notes.—The figures for 1909 to 1917 comprise the results of both the chemical treatment and treatment by filtration.
 Note.—Large quantities of sulphate of iron are present in the sewage, which make the determination for oxygen consumed somewhat unreliable.

TABLE VII
RESULTS OF CHEMICAL PRECIPITATION OF SEWAGE, 1916-1917
MONTHLY AVERAGES OF WEEKLY ANALYSES OF STERILIZED DAILY SAMPLES
Parts Per 100,000

DATE OF COLLECTION 1916-1917	AMMONIA			OXYGEN CONSUMED			CHLORINE Average Flow Per Day in Million Gallons	Pounds Lime Used Per Million Gallons	RESIDUE ON EVAPORATION						IRON IN TERMS OF FE			Sulphates in Terms of Sulphur							
	Free	ALBUMINOID		Total	Dis- solved	Sus- pended			Total	Dis- solved	Sus- pended	VOLATILE			FIXED				Total	Dis- solved	Sus- pended				
		Dis- solved	Sus- pended									Total	Dis- solved	Sus- pended	Total	Dis- solved	Sus- pended					Total	Dis- solved	Sus- pended	Total
Sewage, December.....	2.43	1.094	.610	484	17.86	8.99	8.87	12.75	13.11	1,188	79.4	31.2	54.6	32.6	22.0	56.0	46.8	9.2	6.99	3.11	3.88	7.64			
Effluent, December.....	1.96	.724	.587	137	8.44	6.91	1.53	11.36	.....	.....	75.4	12.2	36.2	29.0	7.2	51.4	46.4	5.0	1.30	0.15	1.15	6.31	
Per cent. removed.....	19.31	33.82	3.77	71.69	52.74	23.14	82.75	.....	.....	.....	20.80	5.04	60.89	33.70	11.04	67.28	8.21	0.85	45.64	81.39	95.17	70.37
Sewage, January.....	2.02	.905	.490	415	16.02	8.65	7.37	10.85	13.21	1,108	68.8	30.0	53.0	30.2	22.8	45.8	38.6	7.2	7.05	4.20	2.85	9.20			
Effluent, January.....	1.60	.591	.476	115	7.73	6.42	1.31	9.57	.....	.....	62.4	9.4	23.8	22.0	1.8	48.0	40.4	7.6	1.36	0.04	1.32	7.26	
Per cent. removed.....	20.79	34.69	2.86	72.30	51.76	25.78	82.22	27.33	9.30	68.68	55.09	27.15	92.10	-4.80	-4.66	-5.56	80.71	99.06	53.69	21.09		
Sewage, February.....	2.15	1.081	.460	621	15.82	8.29	7.53	10.14	12.08	1,279	115.4	43.4	59.4	31.2	28.2	56.0	40.8	15.2	8.74	5.14	3.60	10.16			
Effluent, February.....	1.55	.657	.501	506	7.06	5.97	1.09	9.36	.....	.....	82.0	14.0	36.0	29.2	6.8	46.0	38.8	7.2	1.03	0.05	0.98	7.60	
Per cent. removed.....	27.91	48.48	-8.91	90.97	55.37	27.98	85.53	28.94	5.66	67.74	39.40	38.46	75.90	17.85	4.90	62.64	88.22	99.02	72.78	25.20		
Sewage, March.....	1.15	.784	.408	376	11.84	6.70	4.64	8.67	20.84	616	79.0	20.8	37.4	28.0	9.4	41.6	30.2	11.4	5.60	2.37	3.23	5.84			
Effluent, March.....	0.97	.510	.420	290	6.38	5.43	1.55	7.91	.....	.....	70.0	9.0	32.0	31.6	0.4	38.0	29.4	8.6	1.54	0.68	0.86	6.25	
Per cent. removed.....	15.65	34.95	-2.94	76.07	38.45	18.95	66.61	11.40	-4.82	56.72	14.44	-12.86	96.74	8.65	2.65	24.57	72.49	71.82	73.36	10.10		
Sewage, April.....	1.41	.944	.395	549	12.68	6.99	5.69	9.97	24.77	657	92.6	28.2	43.6	25.2	18.4	49.0	39.2	9.8	5.94	3.14	2.80	6.83			
Effluent, April.....	1.12	.502	.384	118	6.58	5.28	1.30	9.10	.....	.....	72.0	9.0	26.6	25.2	1.4	45.4	37.8	7.9	1.79	0.30	1.49	5.80	
Per cent. removed.....	20.57	46.81	2.78	78.80	48.09	24.46	77.16	22.25	2.17	68.10	38.98	0.00	92.39	7.35	3.57	22.45	69.58	90.44	46.78	15.08		
Sewage, May.....	1.58	.761	.424	337	11.65	6.07	5.59	10.09	20.41	624	87.4	24.0	41.0	26.6	14.4	45.4	36.8	9.6	5.82	3.01	2.81	6.90			
Effluent, May.....	1.24	.474	.347	127	6.57	4.90	3.47	8.84	.....	.....	74.4	12.2	37.2	28.0	9.2	37.2	34.2	3.0	1.88	0.21	1.63	5.83	
Per cent. removed.....	21.52	37.71	18.16	62.32	46.17	20.92	73.70	14.87	1.89	49.17	9.27	-5.26	36.11	19.83	7.07	68.74	67.70	91.68	42.00	15.51		

Sewage, June	1.43	.887	386	502	10.79	6.27	4.52	10.28	14.80	1,027	91.2	63.2	28.0	38.8	28.0	15.8	52.4	40.2	12.2	7.17	4.61	2.56
Effluent, June	1.82	.476	350	125	5.35	4.49	0.85	9.63	.....	.....	71.8	64.2	7.8	36.6	80.4	5.2	86.2	33.8	2.4	1.53	0.99	1.14
Per cent. removed	7.69	46.45	9.09	76.09	60.41	28.99	81.21	.....	.....	.....	21.27	1.54	72.85	8.25	-32.18	67.08	80.91	16.92	80.32	78.66	91.64	66.47
Sewage, July	1.68	.725	326	899	11.23	5.95	5.38	12.04	10.23	1,132	93.8	70.0	23.8	38.6	23.4	15.2	55.2	46.6	8.6	8.87	6.63	2.24
Effluent, July	1.42	.422	326	096	5.24	4.11	1.18	11.49	.....	.....	71.0	69.3	1.2	24.3	23.8	1.0	46.2	46.0	0.2	2.08	0.66	1.87
Per cent. removed	16.47	41.79	0.00	76.98	68.66	30.92	78.79	.....	.....	.....	24.31	0.23	94.94	36.75	-1.71	93.44	16.30	1.23	97.69	77.18	90.05	38.86
Sewage, August	1.52	.712	235	417	9.92	5.22	4.70	11.20	11.22	932	81.4	58.0	23.4	29.0	15.2	13.8	52.4	42.3	9.6	5.64	3.43	2.16
Effluent, August	1.45	.341	254	088	4.74	3.22	1.51	11.56	.....	.....	72.2	60.8	11.4	18.6	18.4	5.2	53.6	47.4	6.2	1.58	0.07	1.51
Per cent. removed	4.61	62.11	13.90	78.91	62.22	38.31	67.87	.....	.....	.....	11.30	-4.53	50.12	35.96	11.84	62.81	-1.52	-10.78	36.41	71.79	97.95	30.09
Sewage, September	1.80	.760	313	437	11.40	5.82	6.08	10.45	11.53	1,020	81.2	61.6	19.6	31.2	16.8	15.4	50.0	44.8	5.2	4.67	3.85	0.82
Effluent, September	1.79	.359	278	051	4.74	2.99	1.75	10.06	.....	.....	66.0	60.2	4.8	14.3	13.6	1.2	50.2	46.8	5.6	1.90	0.20	1.40
Per cent. removed	0.55	62.13	11.18	81.47	68.51	45.30	71.68	.....	.....	.....	19.95	2.27	75.51	52.55	19.04	92.22	0.40	-4.02	30.77	66.74	94.80	-70.73
Sewage, October	1.87	.760	340	410	12.88	6.73	6.15	9.75	15.72	680	101.2	71.0	30.2	44.0	24.5	19.4	57.2	46.4	10.8	6.93	4.55	2.28
Effluent, October	1.79	.396	279	117	6.46	4.53	1.35	9.21	.....	.....	72.2	59.2	23.4	20.2	12.2	8.0	52.4	47.0	5.4	1.78	0.58	1.20
Per cent. removed	4.25	47.20	18.00	71.62	49.36	28.58	73.66	.....	.....	.....	28.26	16.62	56.63	51.66	50.41	58.76	8.39	-1.30	60.00	78.96	87.23	47.37
Sewage, November	1.99	.712	341	371	13.04	6.95	6.09	9.07	12.56	577	78.2	58.0	20.2	27.8	16.7	11.1	50.4	41.3	9.1	5.95	4.31	1.04
Effluent, November	1.29	.446	310	336	8.94	5.19	1.82	8.66	.....	.....	65.0	54.8	10.2	19.0	19.5	6.8	46.0	42.2	3.3	2.58	0.33	2.00
Per cent. removed	0.50	37.31	9.09	63.84	46.78	26.33	70.11	.....	.....	.....	16.89	5.52	49.50	31.66	24.66	42.35	8.73	2.13	53.25	44.19	77.91	-92.32
Average Sewage	1.70	.847	403	444	12.82	6.96	5.96	10.30	15.09	847	92.0	65.3	26.7	41.7	24.9	16.3	50.3	40.4	9.9	6.43	3.83	0.60
Average Effluent	1.46	.488	379	109	6.46	5.04	1.49	9.53	.....	.....	72.9	63.1	9.8	27.8	23.0	4.4	45.1	39.7	5.4	1.70	0.87	1.33
Per cent. removed	14.12	42.38	5.30	75.44	49.62	26.54	76.62	.....	.....	.....	20.76	3.37	63.30	33.84	6.02	73.81	10.34	1.73	45.45	73.57	90.35	43.84

TABLE VIII.—*RESULTS OF FILTRATION OF SEWAGE
Monthly Averages of Weekly Analyses of Sterilized Daily Samples
Parts per 100,000

DATE OF COLLECTION 1916-1917.	AMMONIA			NITROGEN AS		OXYGEN CONSUMED			CHLORINE			RESIDUE ON EVAPORATION						IRON IN TERMS OF FE			Sulphates in Terms of Sulphur				
	Free	ALBUMINOID		Nitrates	Nitrites	Total	Dissolved	Suspended	Per Day	Per Acre in Million Gallons	TOTAL			VOLATILE			FIXED			Total		Dissolved	Suspended		
		Total	Dis- solved								Sus- pended	Dissolved	Suspended	Dissolved	Suspended	Total	Dissolved	Suspended	Total					Dissolved	Suspended
Sewage, December...	2.73	1.563	.800	.763	.1071	.0144	21.33	10.02	11.31	15.88	3.40	.047	131.8	82.0	49.8	63.2	27.2	36.0	68.6	54.8	13.8	0.0	0.0	4.72	6.83
Effluent, December...	1.75	.195	.000	.479	.0295	2.31	2.31	0.00	16.55	.....	.....	.....	98.0	98.0	0.0	30.4	30.4	0.0	67.6	67.6	0.0	0.0	0.0	0.57	0.00
Per cent. removed...	35.89	87.54	75.63	100.	.....	.....	.....	89.17	76.96	100.	.....	.....	25.65	-19.51	100.	51.90	-11.76	100.	1.46	-23.35	100.	89.33	100.	9.53	100.
Sewage, January...	2.46	1.313	.749	.564	.125	.0180	18.67	11.15	7.52	16.59	5.42	.075	112.6	82.8	29.8	61.2	50.4	10.8	51.4	32.4	19.0	0.0	4.44	0.66	3.78
Effluent, January...	2.34	.261	.261	.000	.203	.0227	3.36	3.36	0.00	15.75	.....	.....	70.6	70.6	0.0	32.0	32.0	0.0	38.6	38.6	0.0	1.21	0.00	1.21	0.00
Per cent. removed...	4.89	80.12	65.15	1000.	.....	.....	.....	82.02	69.87	100.	.....	.....	37.30	14.73	100.	47.71	36.51	100.	24.90	-19.14	100.	72.29	-83.35	100.	18.13
Sewage, February...	2.73	1.075	.685	.390	.122	.0253	17.90	10.49	7.41	16.55	4.71	.065	120.0	75.4	44.6	60.0	33.6	26.4	60.0	41.8	18.2	0.0	5.37	0.51	4.86
Effluent, February...	2.88	.232	.232	.000	.118	.0209	3.70	3.70	0.00	16.31	.....	.....	70.6	70.6	0.0	36.8	36.8	0.0	33.8	33.8	0.0	1.57	0.00	1.57	0.00
Per cent. removed...	-5.49	78.39	66.13	100.	.....	.....	.....	79.32	64.74	100.	.....	.....	41.16	6.36	100.	38.67	-9.52	100.	43.66	19.14	100.	70.76	-207.8	100.	24.39
Sewage, March...	2.00	1.013	.475	.538	.111	.0112	17.18	8.73	8.45	13.61	3.67	.050	100.8	70.6	30.2	60.6	43.2	17.4	40.2	27.4	12.8	0.0	3.65	1.25	12.40
Effluent, March...	2.35	.230	.230	.000	.071	.0131	3.09	3.09	0.00	12.81	.....	.....	60.8	60.8	0.0	24.8	24.8	0.0	36.0	36.0	0.0	1.58	0.00	1.58	0.00
Per cent. removed...	-17.50	77.32	51.58	100.	.....	.....	.....	82.00	64.62	100.	.....	.....	39.70	13.88	100.	59.07	42.59	100.	10.45	-31.38	100.	56.71	-26.40	100.	33.70
Sewage, April...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Effluent, April...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. removed...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage, May...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Effluent, May...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. removed...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewage, June...	2.17	1.087	.447	.640	.043	.0017	15.91	7.41	8.49	14.68	4.67	.064	102.6	71.2	31.4	50.0	27.8	22.2	52.6	43.4	9.2	4.20	1.79	2.41	7.68
Effluent, June...	1.12	.122	.122	.000	.746	.0057	1.84	1.84	0.00	14.04	.....	.....	75.4	75.4	0.0	33.2	33.2	0.0	42.2	42.2	0.0	1.51	0.00	1.51	0.00
Per cent. removed...	48.39	88.76	72.71	100.	.....	.....	.....	88.41	75.18	100.	.....	.....	26.52	-5.90	100.	33.59	-19.43	100.	19.77	2.76	100.	64.06	15.64	100.	34.49

Sewage, July.....	2.28	1.090	.422	.668	.079	.0013	15.78	6.91	8.87	17.73	6.04	.083	114.2	76.4	37.8	55.0	33.4	21.6	59.2	43.0	16.2	5.28	2.53	2.75	7.20
Effluent, July.....	1.13	.719	.119	.000	.587	.0429	.85	.35	0.00	17.53	.....	.77	6	77.2	0.0	17.2	17.2	0.0	69.4	60.4	0.0	1.18	1.15	0.00	6.04
Per cent. removed...	50.44	89.08	71.80	100.	.....	.....	88.28	73.23	100.	.....	.....	32.05	.....	1.57	100.	68.73	48.51	100.	-2.03	-40.46	100.	78.23	54.55	100.	16.12
Sewage, August.....	2.26	1.179	.440	.739	.047	.0010	16.56	6.15	10.41	16.99	6.15	.085	115.8	77.2	38.6	48.6	17.0	31.6	67.2	60.2	7.0	4.79	1.79	3.00	6.82
Effluent, August.....	1.01	.722	.122	.000	.509	.1345	.70	.70	0.00	17.51	.....	73.8	.....	75.6	0.0	21.4	21.4	0.0	64.2	54.2	0.0	0.57	0.57	0.00	6.36
Per cent. removed...	55.31	89.64	72.25	100.	.....	.....	89.74	72.36	100.	.....	.....	34.71	.....	2.07	100.	55.38	23.89	100.	19.3	49.97	100.	88.10	68.16	100.	3.93
Sewage, September.....	2.90	1.213	.415	.798	.058	.0096	19.19	6.33	12.86	16.35	5.53	.079	117.6	77.0	40.6	50.6	18.4	32.2	67.0	58.6	8.4	3.96	0.81	3.15	7.03
Effluent, September.....	1.34	.814	.114	.000	.649	.0329	1.42	1.42	0.00	16.28	.....	69.2	.....	69.2	0.0	9.4	9.4	0.0	59.2	59.8	0.0	0.97	0.97	0.00	6.54
Per cent. removed...	53.80	90.60	72.53	100.	.....	.....	92.96	77.56	100.	.....	.....	41.14	.....	10.13	100.	31.41	48.91	100.	10.74	-2.05	100.	93.17	66.67	100.	6.97
Sewage, October.....	3.19	1.450	.437	1.013	.102	.0108	19.42	7.21	12.21	15.79	3.38	.047	111.8	71.6	40.2	48.0	18.6	29.4	63.8	53.0	10.8	5.03	0.94	4.09	7.12
Effluent, October.....	1.39	.820	.120	.000	.912	.0208	1.16	1.16	0.00	15.63	.....	66.4	.....	66.4	0.0	10.4	10.4	0.0	56.0	56.0	0.0	0.60	0.60	0.00	6.69
Per cent. removed...	56.42	91.72	72.54	100.	.....	.....	94.03	83.91	100.	.....	.....	40.52	.....	7.26	100.	78.34	44.10	100.	12.23	-5.66	100.	88.06	36.10	100.	6.94
Sewage, November.....	3.01	1.167	.500	.667	.141	.0331	20.45	8.63	11.82	13.99	4.78	.066	101.2	56.8	44.4	41.2	17.8	23.4	60.2	39.0	21.0	4.59	0.96	3.63	5.91
Effluent, November.....	1.50	.786	.136	.000	.619	.0206	1.47	1.47	0.00	14.56	.....	63.0	.....	63.0	0.0	8.8	8.8	0.0	54.2	54.2	0.0	0.72	0.72	0.00	6.13
Per cent. removed...	50.17	88.33	72.80	100.	.....	.....	92.83	82.96	100.	.....	.....	37.76	.....	-10.91	100.	78.63	50.56	100.	9.66	-38.96	100.	84.31	25.00	100.	-3.72
Average sewage.....	2.56	1.205	.531	.674	.091	.0119	18.12	8.21	9.91	16.03	3.99	.055	112.8	74.3	38.5	53.5	28.6	24.9	59.3	45.7	13.6	4.66	1.25	3.41	7.02
Average effluent.....	1.65	.862	.162	.000	.489	.0384	2.18	2.18	0.00	15.92	.....	72.6	.....	72.6	0.0	22.2	22.2	0.0	50.4	50.4	0.0	0.97	0.97	0.00	6.14
Per cent. removed....	35.55	86.56	69.49	100.	.....	.....	87.96	73.45	100.	.....	.....	35.65	.....	2.29	100.	58.49	22.39	100.	15.01	10.28	100.	79.18	22.41	100.	12.54

*Preliminary to filtration, the sewage is passed through one of the precipitation basins, which holds about one-third hour of the ordinary day flow.

TABLE IX.—COMBINED RESULTS OF SEWAGE TREATMENT, 1916-1917
MONTHLY AVERAGES OF WEEKLY ANALYSES OF STERILIZED DAILY SAMPLES

Parts Per 100,000

DATE OF COLLECTION 1916-1917	AMMONIA			OXYGEN CONSUMED			CHLORINE	Average Flow In Million Gallons Per Day	RESIDUE ON EVAPORATION						IRON IN TERMS OF Fe			Sulphates in Terms of Sulphur			
	ALBUMINOID			TOTAL					VOLATILE			FIXED			OF Fe						
	Total	Dissolved	Suspended	Total	Dissolved	Suspended			Total	Dissolved	Suspended	Total	Dissolved	Suspended	Total	Dissolved	Suspended				
Sewage, December...	1.190	.649	.541	18.63	9.20	9.38	13.39	16.51	115.0	80.0	35.0	56.4	31.5	24.9	56.6	48.5	10.1	6.65	2.60	4.06	7.47
Effluent, December...	1.82	.616	.109	7.17	5.96	1.21	12.43	...	89.7	80.0	9.7	35.0	29.3	5.7	54.7	50.7	4.0	1.15	0.24	0.91	6.70
Per cent. removed...	22.90	48.33	22.04	61.41	36.23	37.10	...	...	22.00	0.00	72.28	37.94	6.96	77.11	6.66	-4.54	60.39	62.71	90.76	77.52	10.80
Sewage, January...	2.16	1.023	.655	16.79	9.37	7.42	12.62	18.63	102.8	72.9	29.9	55.4	36.1	19.3	47.4	36.8	10.6	6.29	3.17	8.12	9.07
Effluent, January...	1.82	.495	.115	6.47	5.63	0.84	11.37	...	71.5	64.3	6.7	26.2	24.9	1.3	45.3	39.9	6.4	1.32	0.33	0.94	7.24
Per cent. removed...	15.35	51.62	26.90	61.45	40.39	37.34	...	...	30.45	11.11	77.59	52.71	31.02	93.26	4.43	-8.43	49.06	79.02	88.00	69.87	20.18
Sewage, February...	2.31	1.080	.555	16.40	8.91	7.49	11.93	16.79	116.6	72.9	43.7	59.5	31.3	27.7	57.1	41.1	16.0	7.79	3.64	8.95	9.34
Effluent, February...	1.82	.456	.041	6.11	5.38	0.73	11.32	...	78.8	68.7	10.1	36.2	31.3	4.9	42.6	37.4	6.2	1.38	0.45	0.70	7.01
Per cent. removed...	16.89	56.36	18.99	62.73	40.13	39.58	...	...	32.41	6.76	78.88	39.16	1.57	82.30	25.40	9.00	67.50	84.86	87.50	82.28	24.96
Sewage, March...	1.98	.818	.418	12.21	7.00	5.21	9.41	24.51	82.3	60.1	22.2	40.9	30.3	10.6	41.4	29.8	11.6	5.81	2.20	8.11	5.77
Effluent, March...	1.88	.391	.077	6.70	5.03	1.32	8.64	...	68.8	61.7	7.2	30.9	30.6	0.3	37.7	30.4	7.3	1.84	0.51	0.73	6.00
Per cent. removed...	7.80	42.79	6.46	47.37	27.43	74.66	...	...	16.64	-1.50	65.77	24.45	0.39	97.16	8.94	-2.01	87.07	70.99	68.19	76.52	13.35
Sewage, April...	1.41	.944	.395	12.68	6.99	5.69	9.97	24.77	92.6	64.4	28.2	42.6	25.2	18.4	49.0	39.2	9.8	5.94	3.14	2.80	6.83
Effluent, April...	1.12	.502	.384	8.58	6.23	1.30	9.10	...	72.0	65.0	7.0	28.6	26.2	1.4	45.4	37.5	7.8	1.79	0.50	1.49	5.80
Per cent. removed...	20.57	46.81	2.78	48.09	24.46	77.16	...	...	22.29	2.17	68.10	38.98	0.00	92.39	7.35	3.57	22.45	69.85	90.44	46.78	15.03
Sewage, May...	1.58	.781	.424	11.65	6.07	5.59	10.09	20.41	87.4	63.4	24.0	41.0	26.6	14.4	45.4	36.8	9.6	5.82	3.01	2.91	6.90
Effluent, May...	1.24	.474	.127	8.37	6.50	1.47	8.34	...	74.4	62.3	12.2	37.2	28.0	9.2	37.2	33.2	3.6	1.85	0.24	1.63	5.33
Per cent. removed...	21.52	87.71	13.16	46.17	20.92	73.70	...	...	14.87	1.89	49.17	9.27	-5.26	86.11	19.33	7.07	68.74	67.70	91.68	42.00	15.13

Sewage, June.....	1.61	.985	400	.535	11.99	6.53	5.47	11.30	19.47	94.0	65.2	28.8	41.5	24.2	17.3	152.5	41.0	11.5	6.46	3.93	2.53	7.11
Effluent, June.....	1.27	.390	295	.095	4.50	3.85	0.65	10.69	.....	72.7	66.9	5.8	35.0	31.1	3.9	37.7	35.8	1.9	1.53	0.65	0.87	5.22
Per cent. removed.....	21.12	58.29	26.25	82.24	62.46	41.04	88.10	.....	.....	22.67	-2.61	79.86	15.66	-28.51	77.47	28.19	12.69	83.49	76.32	83.20	65.61	26.59
Sewage, July.....	1.90	.860	363	.497	12.97	6.33	6.64	14.10	16.27	101.4	72.4	29.00	44.7	27.1	17.6	56.7	45.3	11.4	7.50	5.11	2.39	7.61
Effluent, July.....	1.31	.310	250	.060	3.99	3.27	0.72	13.70	.....	73.4	72.7	0.7	22.0	21.4	0.6	51.4	51.3	0.1	1.70	0.84	0.86	5.74
Per cent. removed.....	38.99	63.97	44.06	88.00	69.02	48.31	89.13	.....	.....	27.60	-0.40	97.60	50.80	21.00	96.60	9.3	-13.24	99.13	79.12	83.56	64.62	23.57
Sewage, August.....	1.78	.876	346	.530	12.25	5.54	6.71	13.24	17.35	93.5	64.8	28.7	35.9	15.8	20.1	57.6	49.0	8.6	5.94	2.88	2.46	6.74
Effluent, August.....	1.29	.263	206	.057	3.65	2.68	0.97	13.63	.....	73.4	66.0	7.4	19.6	16.2	3.4	53.8	49.8	4.0	1.22	0.25	0.97	5.80
Per cent. removed.....	27.53	69.98	40.47	89.25	70.15	51.58	85.57	.....	.....	21.54	-1.96	74.42	45.47	-2.53	83.26	6.61	-1.78	53.80	77.16	91.33	60.57	13.94
Sewage, September.....	2.16	.900	346	.554	13.92	5.65	8.27	12.37	17.06	93.0	66.6	26.4	37.5	17.3	20.2	55.5	49.3	6.2	4.44	2.86	1.58	6.69
Effluent, September.....	1.64	.280	225	.056	3.66	2.48	1.18	11.96	.....	66.3	63.1	3.2	13.0	12.2	0.8	53.3	50.9	2.4	1.17	0.22	0.95	6.02
Per cent. removed.....	23.79	68.90	34.97	90.05	73.70	56.07	85.72	.....	.....	28.66	5.22	87.7	65.21	29.27	96.05	3.98	-3.24	61.05	73.64	92.30	39.87	10.02
Sewage, October.....	2.10	.874	357	.517	13.96	6.82	7.14	10.30	19.10	103.1	71.1	32.0	44.7	23.5	21.2	58.4	47.6	10.8	6.51	3.91	2.60	7.59
Effluent, October.....	1.72	.347	251	.095	5.52	4.16	1.36	10.34	.....	71.5	60.5	11.0	18.5	11.9	6.5	53.0	48.6	4.4	1.54	0.60	0.94	6.43
Per cent. removed.....	29.00	60.30	29.65	81.39	60.42	38.92	81.27	.....	.....	30.63	14.93	65.52	58.68	49.50	68.90	9.14	-2.16	5.89	76.35	84.65	63.84	15.15
Sewage, November.....	2.27	.838	385	.453	15.09	7.41	7.68	10.43	17.34	84.6	57.1	26.9	31.5	17.0	14.5	53.1	40.7	12.4	5.07	3.31	1.76	6.22
Effluent, November.....	1.85	.360	262	.098	5.44	4.11	1.33	10.30	.....	64.5	57.7	7.4	16.2	11.5	4.7	48.3	45.6	2.7	2.32	0.87	1.45	5.53
Per cent. removed.....	18.50	57.05	31.95	78.36	63.96	44.53	82.68	.....	.....	23.78	1.75	72.54	48.64	32.12	68.00	9.24	-11.92	77.87	54.24	73.72	17.62	11.09
Average sewage.....	2.32	.921	429	.492	13.93	7.14	6.79	11.49	19.08	98.7	68.8	29.9	45.2	26.3	18.9	53.5	42.5	11.0	6.21	3.37	2.84	7.38
Average effluent.....	1.50	.420	333	.087	5.56	4.44	1.12	10.87	.....	74.6	66.7	7.9	27.3	23.7	3.6	47.3	43.0	4.3	1.58	0.50	1.08	6.12
Per cent. removed.....	35.35	54.39	22.38	82.31	60.08	37.82	83.51	.....	.....	24.42	3.05	73.57	39.61	9.89	80.95	11.59	-1.18	60.91	74.56	85.17	61.97	17.07

SUMMARY OF SEWERAGE STATISTICS

(In form recommended by Sanitary Section of Boston Society Civil Engineers.)

For the year ending November 30, 1917

GENERAL

Population by census of 1917, 187,492.

Total area of city or town, 38.49 square miles.

Area served by sewerage system, 11.30 square miles.

Collection System: For sewage only, 110.832 miles; for sewage and surface water, 69.575 miles; for surface water only, 62.736 miles.

Method of disposal: Partly chemical precipitation and partly sand filtration.

COLLECTION

Mains (Everything but House and Catch Basin Connections)

	For sewage only	For sewage and surface water	For surface water only
1. Miles stone,		.109	3.119
2. Miles brick,	13.62	18.646	10.720
3. Miles concrete,	.366	.712	3.340
4. Miles pipe,	96.846	50.378	45.557
5. Miles extended during year,	2.006	.086	1.309
6. Number of inverted siphons,	8		
7. Number of manholes,	8,111 (All kinds)		
8. Method of flushing: Partly by 2½" fire-hose attached to hydrants three times a year, partly by direct connection to water mains.			
9. Method of cleaning: In large sewers a sectional track is laid and pails of silt carried to manholes and hoisted. In smaller sewers scrapers are pulled through by men, horses or hoisting engines, as circumstances may require.			
10. Number of automatic flushing tanks,	11	2	
11. Number of direct connections with water mains for flushing,	28	55	
12. Number of flushings of entire system during year,	1		
13. Cost of flushing per mile,			
14. Number of miles cleaned,			
15. Cost of cleaning per mile,			
16. Number of stoppages,	2		
17. Miles of permanent underdrains,	3.19		
18. Number of storm overflows,			
19. Method of ventilation, By perforated covers, or manholes.			
20. Cost of maintaining sewer system, exclusive of disposal works (including cost of flushing and cleaning sewers; cost of cleaning catch basins, and unclassified expense),	\$45,788.81		

HOUSE CONNECTIONS

21. By whom made? Licensed drain layers.			
22. Sizes,	6"	6"	6"
23. Number made during year,	396		111
24. Lineal feet laid during year,	29,272		
25. Lineal feet discontinued during year,			
26. Total miles in use,	184.17	(All kinds)	
27. Average cost per ft., connections made during year,	\$0.80	(All kinds)	
28. Number of stoppages coming to attention of department,	8		

CATCH BASINS

29. Number,	3,835.
30. Number cleaned,	5,968.
31. Average amount material removed per catch basin,	2.47 cu. yds.
32. Cost of removing material per cubic yard,	\$1.36.
33. Cost of removing material per catch basin per year,	\$3.35.

DISCHARGE OF SEWAGE

34. Estimated population using sewer system,	178,000.		
35. Number of buildings connected, not known.			
36. Daily discharge for year,	19,077,740	35,420,800	11,024,100
37. Daily discharge for each user,	109.9	204.2	63.5
38. Daily quantity of factory waste, not known.			
39. Daily leakage into sewers,	3,683,600		
40. Daily leakage per mile of sewer,	16,118		
41. Are quantities given under 3 to 7 estimated or measured? 36, measured; 37, population estimated; 39 and 40, estimated.			

PUMPING

42. Description of plants: 1, Gold Street, vertical type centrifugal pump, electric power; 2, Lake View, single stage, direct connected, motor driven centrifugal pumps; 3, Massasoit Road, two 25 H. P. General Electric vertical motors operating two 4" centrifugal pumps.	
43. Description of fuels or power used:—	
A. Coal.	
(a) Kind	
(b) Brand	
(c) Average cost per gross ton delivered \$	
(d) Percentage of ash	
B. Fuel for internal combustion engines.	
(e) Kind and grade	
(f) Average cost \$	
C. Electricity.	
(g) Average cost per k. w. hr., \$0.02.	
44. Amount of fuel or power consumed for the year,	
45. Total pumpage for year with or without allowances for slip, gals.	
46. Average static head against which pump works,	ft.
47. Average dynamic head against which pump works,	t.
48. No. of gallons raised one foot per unit of fuel or power,	
49. Cost of pumping figured on pumping station expenses per million gallons raised one foot (dynamic), not including fixed charges,	

50. Describe screens: At Stations 1 and 3, baskets made of vertical rods, hoisted for cleaning. No screen at Station No. 2.

DISPOSAL

Settling, Septic and Chemical Precipitation Tanks

51. Number of tanks: Settling, 2; Septic, 0; Chemical precipitation, 14.
 52. Total capacity of tanks up to flow line: 4.2 million gallons.
 53. Average daily quantity of sewage treated: 15,085,455.
 54. Average length of time sewage remains in tanks: 5.3 hours.
 55. Disposition of effluent: discharged into Blackstone River.
 56. Disposition of sludge: pressed, and cake hauled to dump; small portion taken by farmers.
 57. Volume of sludge produced per 1,000,000 gallons sewage. (If this is not known give depth of sludge in tank when cleaned), 5,705.
 58. How often are tanks emptied? 6, roughing, 2 to 4 weeks; others 3 to 6 weeks.
 59. Cost of tanks: \$265,628.75.
 60. Cost of maintenance, including cost of disposing of sludge, \$41,662.27.
 61. Kinds and quantities of chemicals used per 1,000,000 gals.: 847 pounds lime; lime only used.

SEWAGE BEDS OR FILTERS

62. Type: Intermittent sand filters.
 63. Date of construction of works: 1899 to 1910.
 64. Cost of beds: \$308,812.44.
 65. Total net filtering area December 1, 1917: 72.6 acres.
 66. Number of beds: 73.
 67. Average area of beds: 0.99 acre.
 68. Were loam and subsoil removed? Yes.
 69. Character of filtering material (give effective size if available): Average, 14 beds, 0.23 mm.; 9 beds, 0.16 mm.; 8 beds, 0.20 mm.; others not determined.
 70. System of underdrains (depth, distance apart, etc.): 4 to 6 feet deep; 35 to 50 feet apart; open joints surrounded with cobbles.
 71. Average daily quantity of sewage treated: 3,992,285 gallons.
 72. Average daily quantity of sewage treated per acre (net area): 55,000 gallons.
 73. Maximum daily quantity of sewage treated: 12,960,000 gallons.
 74. Preliminary treatment, passed through grit chambers: 40 ft. x 10 ft. x 10 ft.; and settling tank 40 ft. wide x 166 2-3 ft. long x 7 ft. deep.
 75. Dosing apparatus and size of dose: flow controlled by gate valves on main dikes, and molasses gates at distributors.
 76. How long does sewage flow on one bed? 2 to 6 hours.
 77. How often is each bed used? 1 to 4 times weekly.
 78. Method of caring for surface of filters (number of times raked, harrowed, ploughed, furrowed, etc.): occasional raking of top half-inch with wire-tooth horse weeder. Deposit raked up in the fall and again in the spring. Deposit removed in spring. Drains relaid in twenty-six beds.
 79. Cubic yards of material removed from surface of beds: 20,000.
 80. Cost of removing same: _____
 81. Are crops raised, and if so, what kind? None.
 82. Amount received for crops: _____
 83. Total cost of maintenance: \$22,599.58.
 84. Cost of maintenance per million gallons filtered: \$15.51.
 85. Water capacity of contact or trickling filters and decrease in same since plant was started: _____

FINANCIAL

CONSTRUCTION

Receipts		Expenditures	
86. Balance of previous year,	\$17,535.59	93. Collection works:	
87. Bonds issued,	50,000.00	(a) mains,	\$117,649.56
88. Appropriation,	20,000.00	(b) house connections,	
89. Assessments,	37,950.77	94. Disposal and purification works,	
90. House connections,		95. Balance,	50,097.71
91. Other sources,	42,260.91		
92. Total,	\$167,747.27	96. Total,	\$167,747.27

MAINTENANCE AND OPERATION

Receipts		Expenditures	
97. Balance of previous year,	\$1,432.17	103. Administration*,	
98. Appropriation,	119,200.00	104. Repairs†,	\$9,345.48
99. Assessments,		105. Cleaning sewers,	3,498.73
100. Rentals,		106. Cleaning catch basins,	21,816.62
101. Other sources,	4,134.17	107. Flushing sewers,	246.18
		108. Pumping,	11,129.65
		109. Disposal or purification**,	75,172.12
		110. Unclassified expenses†,	3,238.53
		111. Balance,	819.03
102. Total,	\$124,766.84	112. Total,	\$124,766.84
		113. Interest on bonds,	76,645.00
		114. Sinking fund,	

GENERAL

115. Total cost of collecting mains‡,	\$6,088,318.83
116. Total cost of pumping system,	30,738.83
117. Total cost of disposal works,	771,879.82
118. Total cost of works to date††,	\$6,885,436.48
119. Bonded debt at date,	2,009,500.00
120. Value of sinking fund at date,	998,547.90
121. Average rate of interest on bonds: 3.5 per cent.	
122. Proportion of cost of system assessed on abutters: 60 per cent.	
123. Yearly assessment for maintenance: none.	
124. Method of assessing abutters and rate of assessment: front foot assessment, based on cost, ranges from 100 per cent. on inexpensive work to small percentage on expensive work. Average assessment \$1.25 to \$1.80 per foot on each side of street.	

*Administrative expense is distributed in pro rata charges (based on pay rolls) into the various construction, maintenance and purification accounts.

†Includes general repairing of sewers and manholes on same and catch basins connected thereto.

**Including payment for maintenance of joint disposal works.

‡Includes "maintenance of regulators," "maintenance of brooks and rivers," "damages to property," and "vacation expense."

††Including New Outfall Sewer.

††Approximate.

ANNUAL REPORT

OF THE

Board of Assessors

OF THE

CITY OF WORCESTER

FOR THE YEAR ENDING NOV. 30, 1917



COMMONWEALTH PRESS

WORCESTER, MASS.

1918

REPORT OF THE BOARD OF ASSESSORS

EXPENDITURES FOR THE YEAR ENDING NOVEMBER 30, 1917

SALARIES	1917
Salary of Assessor Arthur H. Burton, Chairman	\$575.00
Salary of Assessor George B. Hurlburt, Clerk	2,300.00
Salary of Assessor Charles H. Harris	2,300.00
Salary of Assessor George C. Hunt	1,700.27
Assistant Assessors	2,347.90
Clerical Service	6,419.36
	<hr/>
	\$15,642.53

MISCELLANEOUS	
Adding-machine supplies	\$1.00
Advertising	27.13
Automobile hire	452.00
Blankbooks, stationery and supplies	625.31
Books and subscriptions	104.50
Expenses for corporation returns (Mass. Corpns.)	63.11
Engineers' services and materials and new plans	2,220.82
Foreign Corporation returns (E. W. Prescott)	247.25
Incidental expenses	24.15
New England Telephone & Telegraph Co., tolls, rental and service	17.60
Printing and binding	1,516.78
Refreshments and entertainments	26.00
Real estate transfers, mortgages and probates	880.00
Traveling expenses	23.06
Typewriter supplies	9.00
	<hr/>
Total	\$6,237.71

VALUATION OF CITY

Books	Polls	Real Estate	Personal	Total	Street Sprinkling	Moth Extermination
A-B	1,222	\$22,581,400	\$6,929,750	\$29,511,150	\$10,371.33	\$716.90
C-D	1,228	17,725,100	2,219,800	19,944,900	10,114.62	492.45
E-F-G	1,183	14,401,350	1,287,600	15,688,950	7,490.08	440.70
H-I-J-K	1,278	17,821,000	2,147,600	19,468,600	8,730.56	723.95
L-M	1,891	16,174,450	1,869,750	18,044,200	8,644.00	431.25
N-O-P-Q	918	18,010,800	4,482,250	22,493,050	7,591.26	577.55
R-S	1,317	18,745,350	3,256,200	22,001,550	9,795.07	560.55
T-U-V- W-Y-Z }	950	29,825,500	8,537,000	38,362,500	10,614.58	738.95
Resident bank shares,	9,437	\$154,784,950	\$30,729,950	\$185,514,900	\$73,351.50	\$4,682.30
			730,056	730,056		
			\$31,460,006	\$186,244,956		

Tax on 53,848 polls at \$2.00.....	\$107,696.00
Tax on \$186,244,956 at \$20.00.....	3,724,899.12
	<hr/>
Total amount raised.....	\$3,832,595.12
Amt. of Income Tax of 1917 (Sec. 24, Chap. 269, Gen'l Acts of 1916).....	286,379.52
	<hr/>
	\$4,118,974.64
Total state, county and city tax.....	4,086,952.64
	<hr/>
Overlayings.....	32,022.00
State tax, *levy \$420,656.06	State tax per \$1,000 \$2.26
County tax... 186,869.00	Co. tax per \$1,000 1.00
City tax..... 3,479,427.58	City tax per \$1,000 16.74
	<hr/>
\$4,086,952.64	Pro rata per \$1,000 \$20.00

AMOUNTS RECEIVED FROM CORPORATION TAX

1904.....	\$173,390.53
1905.....	186,722.57
1906.....	182,165.73
1907.....	184,099.78
1908.....	194,033.42
1909.....	223,946.31
1910.....	269,642.33
1911.....	306,038.54
1912.....	338,568.82
1913.....	346,445.74
1914.....	352,222.35
1915.....	365,450.48
1916.....	357,761.94
1917.....	423,126.82

*Including Highway tax, \$1,446.06.

NATIONAL BANK SHARES, 1917.

	No. of Shares	Tax Val.	Tax Value	Tax	Res. Shares	Tax Val.	Tax	All Others	Tax Valuation	Tax
Mechanics	2,000	218	\$486,000	\$8,720.00	1,351	\$294,518	\$5,890.36	649	\$141,482	\$2,829.64
Merchants	7,500	156	1,170,000	23,400.00	2,693	420,108	8,402.16	4,807	749,892	14,997.84
*Worcester	4,000	10	40,000	800.00	1,543	15,430	308.60	2,457	24,570	491.40
			\$1,646,000	\$32,920.00		\$730,056	\$14,601.12		\$915,944	\$18,318.88

Resident shares, \$14,601.12; all others, \$18,318.88. Total, \$32,920.00.
 *In liquidation.

TAX RATES OF MASSACHUSETTS CITIES FOR	1916	1917
Beverly	\$15.60	\$18.80
Brockton	22.80	23.00
Cambridge	23.50	23.50
Chelsea	24.00	23.80
Chicopee	18.70	18.70
Everett	23.90	21.80
Fall River	21.20	24.70
Fitchburg	20.40	22.80
Gloucester	22.00	23.40
Haverhill	20.20	22.80
Holyoke	18.40	18.80
Lawrence	18.80	18.80
*Leominster		21.75
Lowell	21.20	23.40
Lynn	21.00	23.00
Malden	21.40	23.30
Marlboro	21.60	22.00
Medford	19.80	21.40
Melrose	22.00	23.40
Newburyport	19.20	20.00
New Bedford	23.00	23.00
Newton	18.90	19.80
North Adams	21.10	22.40
Northampton	19.80	20.40
Pittsfield	22.60	21.00
Quincy	22.00	25.60
*Revere		24.00
Salem	22.90	24.50
Somerville	21.40	22.00
Springfield	17.80	17.80
Taunton	22.40	22.60
Waltham	20.60	21.00
Woburn	22.30	21.20
Worcester	20.00	20.00

*Made cities in 1917.

Cities whose tax rate is lower than Worcester: Beverly, Chicopee, Holyoke, Lawrence, Newton and Springfield; six in 1917 compared with nine in 1916.

Average tax rate in 34 cities for 1917, \$21.89.

Average tax rate for 32 cities in 1916, \$20.87.

Owing to special legislation, the Boston tax rate is omitted from table of averages.

EXCISE TAX, OCTOBER, 1917

Worcester Consolidated St. Ry. Co..... \$25,297.085

INCREASE IN VALUATION FOR 1917

Buildings.....	\$6,596,350
Land.....	3,969,200
<hr/>	
Increase in Real Estate.....	\$10,565,550
Decrease in Personal.....	12,873,267
<hr/>	
Net loss.....	\$2,307,717

The increase in real estate for 1917 is the largest increase Worcester ever had on real estate.

The loss in personal property is due to the amount of intangible property taken from this department and is now assessed by the State Income Tax Assessor, the actual loss being \$12,873,267.00, while the estimated loss was about \$16,000,000.00, showing a large gain in our tangible property. From this intangible the City received from the State \$286,379.52, and more yet to come estimated at \$15,000.00 to \$20,000.00 additional.

We would also call your attention to an increase of \$65,364.88 received from the Corporation tax, which, if everything is taken into consideration, is the most successful year this department has ever had.

RECAPITULATION

Books	Property Owners	Houses	Horses	Cows	Neat Cattle	Sheep	Swine	Fowls
A-B	2,951	2,328	531	144	21	..	17	1,115
C-D	3,007	2,332½	402	71	28	4	26	819
E-F-G	2,624	2,161	319	99	3	..	17	970
H-I-J-K	3,000	2,250	429	107	12	..	38	806
L-M	3,302	2,531¼	361	81	5	..	3	605
N-O-P-Q	2,188	1,749½	277	82	3	..	..	915
R-S	3,034	2,259	329	33	..	..	5	2,118
T-U-V- W-Y-Z }	2,409	1,723½	363	76	8	7	47	838
	22,515	17,334¼	3,011	693	80	11	153	8,186

RECAPITULATION OF EXEMPT PROPERTY

	PERSONAL	REAL	TOTAL
Literary Institutions . . .	\$740,600	\$3,501,100	\$4,241,700
Benevolent Institutions .	83,800	1,608,500	1,692,300
Scientific Institutions . . .	29,000	234,800	263,800
Houses of Religious Worship	3,100	3,786,250	3,789,350
Agricultural Societies . . .	9,300	156,000	165,300
Temperance Societies . . .	1,800	24,600	26,400
Rural and Swedish Cemeteries		4,900	4,900
	<u>\$867,600</u>	<u>\$9,316,150</u>	<u>\$10,183,750</u>

Increase during year, \$530,000.00.

This does not include city, state or county property, all of which is exempt.

TABLE OF TAX RATES AND SUBDIVISION OF SAME, ALSO CITY, COUNTY AND STATE WARRANTS AND OVERLAYINGS FOR TEN YEARS

Year	Tax Rate	City Rate	County Rate	State Rate	City Warrant	County Warrant	State Warrant	Total	Overlays
1908	\$17.00	\$14.35	\$1.04	\$1.61	\$1,871,113.56	\$134,260.00	\$207,627.00	\$2,213,000.56	\$62,107.68
1909	16.40	14.12	1.01	1.27	1,939,495.66	134,260.00	169,107.00	2,242,862.66	22,320.25
1910	16.40	14.01	.94	1.45	2,049,838.06	131,936.00	204,474.50	2,386,248.56	12,196.19
1911	17.00	14.71	.90	1.39	2,194,968.00	131,936.00	204,474.50	2,531,378.50	57,227.58
1912	17.20	14.74	.94	1.52	2,304,253.05	142,931.00	232,329.50	2,679,513.55	39,990.70
1913	17.60	14.94	.83	1.83	2,456,815.11	134,823.00	296,763.50	2,888,401.61	59,783.91
1914	19.60	16.85	.87	1.88	2,978,087.10	149,342.00	324,859.81	3,452,288.91	16,202.68
1915	20.40	17.46	.92	2.02	3,165,643.00	163,861.00	362,573.81	3,692,077.81	57,265.34
1916	20.00	17.44	.91	1.65	3,339,772.70	171,654.00	310,134.03	3,821,560.73	48,358.73
1917	20.00	16.74	1.00	2.26	3,479,427.58	186,869.00	420,656.06	4,086,952.64	32,022.00

Beginning with the year 1914, the City Government, by permission from the Legislature under a new law, established the rate of \$14 per thousand on the average valuation for the past three years for municipal expenses, instead of \$12 per thousand as formerly.

SUPPLEMENTARY TAXES

POLLS

October supplementary	500	\$1,000
November supplementary	530	1,060
December supplementary	167	334
	<u>1,197</u>	<u>\$2,394</u>

**TOTAL VALUE OF POLLS, REAL AND PERSONAL PROPERTY,
FOR TEN YEARS, INCLUDING THE DECEMBER
SUPPLEMENTARY ASSESSMENTS**

Year	Polls		Real	Personal
1908	39,646@ \$2,	\$79,292	\$103,733,750	\$26,465,626
1909	39,799@ \$2,	79,598	105,968,050	28,483,852
1910	41,985@ \$2,	83,970	110,513,550	31,383,057
1911	43,122@ \$2,	86,244	114,600,150	33,143,590
1912	44,390@ \$2,	88,780	118,915,600	34,976,268
1913	45,938@ \$2,	91,876	126,386,000	37,449,545
1914	46,318@ \$2,	92,636	134,601,500	39,235,679
1915	47,838@ \$2,	95,676	139,822,850	40,251,336
1916	50,595@ \$2,	101,190	144,323,350	44,943,373
1917	56,257@ \$2,	112,514	154,815,500	31,525,656

**AVERAGE TAX RATES OF MASSACHUSETTS CITIES FOR TEN
YEARS**

Beverly	\$16.18
Brockton	21.39
Cambridge	21.33
Chelsea	22.59
Chicopee	20.01
Everett	20.99
Fall River	20.78
Fitchburg	20.00
Gloucester	20.36
Haverhill	19.58
Holyoke	17.58
Lawrence	17.72
Leominster	21.17
Lowell	20.42
Lynn	20.46
Malden	19.81
Marlboro	21.60
Medford	20.12
Melrose	20.28
Newburyport	19.57
New Bedford	22.47
Newton	18.42
North Adams	21.75
Northampton	17.75
Pittsfield	18.91
Quincy	20.00
Revere	22.80
Salem	20.00
Somerville	19.94
Springfield	17.95
Taunton	20.40
Waltham	17.00
Woburn	21.26
Worcester	17.76

ANNUAL INCREASE OF VALUATION

1883 increase over previous year	\$3,067,822.00
1884 increase over previous year	2,200,541.00
1885 increase over previous year	1,943,516.00
1886 increase over previous year	1,851,998.00
1887 increase over previous year	4,741,536.00
1888 increase over previous year	5,194,711.00
1889 increase over previous year	4,849,465.00
1890 increase over previous year	4,065,359.00
1891 increase over previous year	4,200,898.00
1892 increase over previous year	3,407,444.00
1893 increase over previous year	3,050,903.00
1894 increase over previous year	2,320,971.00
1895 increase over previous year	1,683,140.00
1896 increase over previous year	3,697,456.00
1897 increase over previous year	6,705,319.00
1898 increase over previous year	3,578,174.00
1899 increase over previous year	10,274,334.00
1900 loss over previous year	292,126.00
1901 increase over previous year	2,234,162.00
1902 increase over previous year	1,930,880.00
1903 increase over previous year	1,732,566.00
1904 increase over previous year	1,406,521.00
1905 increase over previous year	1,517,400.00
1906 increase over previous year	2,360,999.00
1907 increase over previous year	1,521,087.00
1908 increase over previous year	4,575,838.00
1909 increase over previous year	4,060,776.00
1910 increase over previous year	7,828,405.00
1911 increase over previous year	6,089,633.00
1912 increase over previous year	5,756,728.00
1913 increase over previous year	9,334,527.00
1914 increase over previous year	9,941,484.00
1915 increase over previous year	6,863,607.00
1916 increase over previous year	9,354,087.00
1917 decrease over previous year*	2,307,717.00

*See page 8 for explanation of decrease.

**TABLE OF POLLS, REAL ESTATE, PERSONAL ESTATE AND TAX
RATES FROM 1890 TO 1917 FOR THE
CITY OF WORCESTER**

Year	Polis	Real Estate	Personal Estate	Total	City, County and State Tax	Rate
1890	24,753	\$57,810,050	\$15,607,410	\$73,417,460	\$1,183,721.06	\$15.60
1891	25,609	60,934,800	16,683,558	77,618,358	1,173,272.06	14.60
1892	26,927	64,142,400	16,883,402	81,025,802	1,233,607.06	14.60
1893	28,303	66,836,150	17,240,555	84,076,705	1,304,442.06	15.00
1894	27,414	69,183,050	17,214,626	86,397,676	1,866,301.06	15.20
1895	28,444	71,104,650	16,976,166	88,080,816	1,399,771.06	15.40
1896	30,204	74,953,100	16,825,172	91,778,272	1,480,728.56	15.60
1897	30,676	78,501,750	19,981,841	98,483,591	1,502,175.52	14.80
1898	31,151	81,260,650	20,801,115	102,061,765	1,695,377.27	16.20
1899	32,256	83,478,100	28,857,999	112,336,099	1,831,330.34	16.00
1900	33,711	86,158,600	25,885,373	112,043,973	1,877,076.01	16.40
1901	34,347	88,054,200	26,223,935	114,278,135	1,940,293.21	16.40
1902	34,934	90,140,650	26,068,365	116,209,015	1,914,967.34	16.00
1903	35,684	92,358,300	25,583,281	117,941,581	2,135,165.54	17.60
1904	35,839	94,087,100	25,261,002	119,348,102	2,185,673.85	17.40
1905	36,717	95,669,850	25,195,652	120,865,502	2,117,713.77	17.00
1906	38,047	97,461,400	25,765,101	123,226,501	2,104,988.63	16.60
1907	38,870	99,568,150	25,179,488	124,747,588	2,056,012.60	16.00
1908	38,305	103,703,650	25,619,776	129,323,426	2,213,000.56	17.00
1909	39,091	105,896,500	27,487,702	133,384,202	2,242,862.66	16.40
1910	41,279	110,447,200	30,765,407	141,212,607	2,386,248.56	16.40
1911	42,234	114,584,150	32,718,090	147,302,240	2,531,378.50	17.00
1912	43,445	118,751,500	34,307,468	153,058,968	2,679,513.55	17.20
1913	45,030	126,079,900	36,313,595	162,393,495	2,888,401.61	17.60
1914	45,363	134,509,500	37,825,479	172,334,979	3,452,288.91	19.60
1915	46,846	139,751,950	39,446,686	179,198,586	3,692,077.81	20.40
1916	49,433	144,219,400	44,333,273	188,552,673	3,821,560.73	20.00
1917	53,848	154,784,950	31,460,006	186,244,956	4,086,952.64	20.00

NOTE.—Above amounts are exclusive of the additions made in the December Supplementary Tax levy.

In submitting this report, we would respectfully call your attention to the fact that while the average increase in the tax rate for 34 cities was \$1.02 per thousand, Worcester rate has remained the same; also our increase in real estate values is the largest in the history of the City, and the Corporation Tax showed an increase of \$65,364.68, thus showing the year 1917 the most prosperous year ever enjoyed by this Department.

Respectfully submitted,

GEO. B. HURLBURT, *Chairman*,
CHAS. H. HARRIS, *Clerk*,
GEO. C. HUNT,

Assessors of the City of Worcester.

ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF WORCESTER
MASSACHUSETTS
FOR THE
YEAR ENDING DECEMBER 31, 1917



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF THE BOARD OF HEALTH

*To His Honor, Pehr G. Holmes, Mayor, and the City Council
of the City of Worcester:—*

Gentlemen: The Board of Health respectfully submits
the following report for the year ending December 31, 1917:

FOR FINANCIAL YEAR ENDING NOVEMBER 30, 1917

HEALTH DEPARTMENT	DR.	CR.	
Appropriation		\$37,934.67	
Receipts		1,251.19	
Administration expenses	\$7,281.30		
Inspection:			
Animals, meat and provisions	1,900.10		
Plumbing	4,090.92		
General	967.00		
Fumigating	2,717.33		
Bacteriological Department	1,440.40		
Bathhouses	1,500.91		
Smallpox Hospital	6,137.86		
Expenses patients in other cities and towns	5,853.01		
General department expenses	6,392.98		
	\$38,281.81	\$39,185.86	
Balance			\$904.05
ISOLATION HOSPITAL	DR.	CR.	
Appropriation		\$54,656.50	
Receipts:			
Board of patients		22,534.27	
Ambulance Service		231.00	
Sundry Sources		356.23	
Administration Expenses	\$2,639.97		
Prof. care of patients	16,348.39		
Department expenses	36,054.43		
Gen'l house and prop. expenses	22,732.96		
	\$77,775.75	\$77,778.05	
Balance			\$2.30
MILK INSPECTION:			
Appropriation		\$2,141.69	
Receipts		518.41	
Expenditures	\$2,632.03		
	\$2,632.03	\$2,660.10	
Balance			\$28.07
MEDICAL INSPECTION:			
Appropriation		\$4,676.07	
Expenditures	\$4,656.34		
	\$4,656.34		
Balance			\$19.73

VITAL STATISTICS

Population, water census, 1917.....			187,492
Deaths (stillborns excluded).....			2,790
Death rate per thousand (stillborns excluded).....			14.88
Death rate per thousand (stillborns and deaths at State Insane Hospitals excluded).....			13.56
Death rate per thousand (stillborns and nonresidents excluded)...			12.64
Males.....	1,504	Residents.....	2,368
Females.....	1,286	Non-residents.....	420
Stillborns.....	183	Insane.....	246
		Unknown.....	2
Living Births.....			5,801
Birth rate per thousand.....			28.27
Deaths under one year.....			498
Rate of deaths of babies to births.....			9.39

DEATHS AT HOSPITALS AND STATE INSTITUTIONS

State Insane Hospitals.....	246
City Hospital.....	538
St. Vincent Hospital.....	127
Memorial Hospital.....	137
Home Farm.....	19
Belmont Hospital.....	114
Hahnemann Hospital.....	21
Smallpox Hospital.....	3

BURIAL PLACES

St. John's Cemetery.....	665
Hope Cemetery.....	663
Notre Dame des Canadiens Cemetery.....	494
Swedish Cemetery.....	191
Rural Cemetery.....	40
Notre Dame du Lac Cemetery.....	1
Out of Town.....	735
Holy Cross, private.....	1

NATIVITY OF THOSE WHO DIED

Worcester.....	896	Holland.....	2
Massachusetts.....	462	Ireland.....	328
Other States.....	369	Italy.....	47
Albania.....	8	Lithuania.....	42
Armenia.....	9	Norway.....	6
Australia.....	2	Persia.....	1
Austria.....	3	Poland.....	18
Azores, The.....	1	Portugal.....	2
Belgium.....	1	Russia.....	52
Bohemia.....	1	Scotland.....	17
Brazil.....	1	Spain.....	1
British Provinces.....	48	Sweden.....	124
Canada.....	158	Syria.....	5
Denmark.....	3	Switzerland.....	1
England.....	78	Turkey.....	10
Finland.....	24	Wales.....	1
France.....	3	West Indies.....	1
Germany.....	23	Unknown.....	27
Greece.....	19	At Sea.....	1

LOCALITY

Wards	1	2	3	4	5	6	7	8	9	10	Total
No. of deaths	202	578	310	298	200	134	147	691	114	126	2,790

AGES

Under 1 year	498	Between 20 and 30	203
Between 1 and 2	83	Between 30 and 40	228
Between 2 and 3	36	Between 40 and 50	269
Between 3 and 4	15	Between 50 and 60	345
Between 4 and 5	30	Between 60 and 70	405
Between 5 and 10	54	Between 70 and 80	362
Between 10 and 15	32	Between 80 and 90	165
Between 15 and 20	43	Over 90	22

PARENTAGE OF THOSE WHO DIED

American	778	Italian	128
Albanian	11	Lithuanian	118
Armenian	12	Mixed	214
Australian	1	Norwegian	5
Austrian	10	Polish	60
Azorian	1	Portuguese	2
Bohemian	1	Provincial	34
Canadian	217	Persian	1
Belgian	2	Russian	86
Danish	3	Scotch	26
Dutch	1	Spanish	1
English	76	Swedish	154
Finnish	57	Swiss	1
French	4	Syrian	13
Galician	2	Turkish	14
German	31	Unknown	194
Greek	17	West Indian	1
Hungarian	1	Welsh	1
Irish	512		

The following complaints were made during the year:

Animals a nuisance	24	Foul cess-pools	89
Bakeries	4	Foul privies	12
Dead animals	17	Frozen fixtures	20
Defective catch basins	1	Improper fixtures	20
Defective drainage	16	Improper rubbish receptacles	30
Defective plumbing	75	Inadequate water supply	42
Defective sinks	11	Insanitary condition of food supply	2
Defective traps	4	Insufficient closet accommodation	21
Defective ventilation	10	Leaking fixtures	18
Dirty alley-ways	20	No sewer connections	20
Dirty cellars	46	Not keeping quarantine	20
Dirty sheds	6	Odors	23
Dirty yards	436	Pigs kept without a license	14
Filthy chutes	9	Poultry	55
Filthy closets	33	Stagnant water on lot	10
Filthy dumps	79	Suspicious contagious diseases	15
Filthy stables	30	Throwing waste water into yard	4
Filthy stores	7	Unlicensed barns	17
Filthy swill-tubs	38	Water shut off	17
Filthy tenements	27	Wet cellars	10
Filthy piazzas	5		

RECORD OF COMMUNICABLE DISEASES.—By Wards

WARDS.	1	2	3	4	5	6	7	8	9	10	Totals
Diphtheria.....	21	57	76	31	32	62	20	14	9	11	333
Scarlet Fever.....	44	53	58	56	31	43	16	26	30	20	377
Measles.....	14	57	65	22	14	12	11	14	13	11	233
Tuberculosis.....	29	57	85	36	47	34	28	28	32	26	402
Ophthalmia Neo- natorum.....	12	21	19	16	15	12	12	30	15	2	154
Typhoid Fever.....	5	12	14	7	4	4	3	12	0	1	62
Epidemic Cerebro- spinal Meningitis..	2	0	3	0	0	0	1	0	0	0	6
Mumps.....	12	14	9	7	7	5	2	8	13	11	88
German Measles....	19	16	4	19	5	3	11	12	3	6	98
Varicella.....	26	23	21	28	18	9	16	12	5	10	168
Malaria.....	0	1	0	0	1	0	0	0	0	0	2
Whooping Cough....	19	15	4	10	2	7	12	3	6	9	87
Smallpox.....	0	6	7	6	7	3	6	1	2	1	39
Conjunctivitis.....	0	1	3	0	0	0	0	1	0	1	6
Dog-bite requiring anti-rabic treatment	0	0	1	0	0	0	0	1	1	0	3
Trachoma.....	0	3	2	1	1	0	1	0	1	1	10
Tetanus.....	0	0	0	0	0	0	0	3	0	0	3
Infantile Paralysis...	1	3	1	0	0	0	0	0	1	0	6
Lobar Pneumonia...	10	12	19	11	21	7	3	15	9	3	110
Pellagra.....	0	2	0	0	0	0	0	0	0	0	2
Dysentery (Amebic and Bacillary)....	0	0	0	1	0	0	0	0	0	0	1
Septic Sore Throat..	0	0	1	1	0	0	0	1	0	0	3

MORTUARY TABLE

Years.	Population.	No. of deaths.	Death rate per 1000. Stillborn excluded.	Years.	Population.	No. of deaths.	Death rate per 1000. Stillborn excluded.
1864	29,041	891	30.68	1891	89,000 estimated	1,586	17.82
1865	30,058	787	26.18	1892	98,000 estimated	1,762	18.94
1866	32,067	700	21.83	1893	98,000 estimated	1,895	19.33
1867	34,477	677	19.63	1894	100,410 estimated	1,728	17.20
1868	36,687	766	20.88	1895	102,000 water cen.	1,827	17.91
1869	38,896	825	21.21	1896	103,086 water cen.	1,796	17.42
1870	41,105	938	22.82	1897	106,202 water cen.	1,791	16.86
1871	42,737	1,146	26.82	1898	108,468 water cen.	1,827	16.84
1872	44,369	1,394	31.41	1899	118,278 water cen.	1,800	15.89
1873	46,001	1,055	22.93	1900	118,421 U. S. cen.	2,223	18.77
1874	47,633	993	20.85	1901	121,064 water cen.	1,997	16.49
1875	49,265	1,043	21.17	1902	124,331 water cen.	1,875	15.07
1876	50,000 estimated	1,063	21.24	1903	127,286 water cen.	2,069	16.25
1877	50,000 estimated	1,097	21.94	1904	128,286 water cen.	1,993	15.52
1878	52,000 estimated	948	18.23	1905	132,550 water cen.	2,227	16.8
1879	53,000 estimated	910	17.16	1906	138,891 water cen.	2,273	16.36
1880	58,925 census	1,218	20.89	1907	147,084 water cen.	2,572	17.48
1881	61,000 estimated	1,153	18.90	1908	143,330 water cen.	2,330	16.25
1882	65,000 estimated	1,230	18.92	1909	146,417 water cen.	2,210	15.09
1883	67,000 estimated	1,291	19.27	1910	145,986 U. S. cen.	2,476	16.96
1884	70,000 estimated	1,303	18.61	1911	156,362 water cen.	2,357	15.07
1885	68,333 census	1,323	19.34	1912	160,123 water cen.	2,474	15.45
1886	70,000 estimated	1,188	16.97	1913	166,525 water cen.	2,540	15.25
1887	78,939	1,335	16.91	1914	166,922 water cen.	2,488	14.90
1888	82,000 estimated	1,471	17.94	1915	169,599 water cen.	2,465	14.53
1889	85,000 estimated	1,500	17.64	1916	178,547 water cen.	2,901	16.80
1890	84,655 census	1,436	16.96	1917	187,492 water cen.	2,790	14.88

DEATHS BY MONTHS SINCE 1887

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
1888	124	110	127	108	116	111	141	176	133	130	95	100	1,471
1889	129	125	143	126	108	96	164	164	124	104	114	109	1,500
1890	153	101	143	126	102	96	172	143	110	84	82	124	1,436
1891	103	113	114	121	143	90	147	166	127	137	181	185	1,586
1892	205	126	128	153	150	126	181	177	133	127	118	138	1,762
1893	143	123	168	159	170	149	190	212	180	127	137	137	1,895
1894	187	146	121	127	144	120	191	152	140	134	132	134	1,728
1895	165	158	200	147	142	107	147	168	158	156	134	145	1,827
1896	136	142	163	160	149	143	174	178	141	133	119	158	1,796
1897	162	154	158	143	117	118	172	188	153	157	131	138	1,791
1898	152	138	168	179	176	124	145	196	154	136	128	131	1,827
1899	154	171	167	136	151	124	153	171	140	136	143	154	1,800
1900	177	179	169	218	164	155	200	244	197	180	164	176	2,223
1901	186	175	189	156	131	156	196	188	177	140	145	153	1,997
1902	139	177	134	153	172	144	177	158	158	146	165	152	1,875
1903	192	192	137	165	172	152	199	181	178	148	129	174	2,069
1904	174	167	133	185	123	155	148	177	158	171	168	184	1,993
1905	186	193	195	194	184	165	217	222	175	175	162	159	2,227
1906	179	189	199	190	161	171	169	247	191	201	173	203	2,273
1907	216	222	230	264	196	186	183	258	231	133	167	236	2,572
1908	264	230	235	191	200	165	191	159	169	174	176	176	2,330
1909	177	170	185	197	188	186	181	210	130	165	181	190	2,210
1910	196	171	229	222	177	196	245	221	223	193	202	201	2,476
1911	222	196	235	194	198	179	237	180	136	139	172	169	2,357
1912	205	212	227	206	209	185	254	195	206	163	175	232	2,474
1913	253	234	247	197	211	133	209	216	230	203	173	179	2,540
1914	232	223	222	245	211	202	194	212	130	134	177	201	2,433
1915	205	209	239	253	185	179	176	137	196	225	175	231	2,465
1916	361	272	233	253	230	213	230	139	216	200	210	229	2,901
1917	259	251	229	276	262	208	197	251	193	217	213	230	2,791

REGISTRATION OF COMMUNICABLE DISEASES

YEAR	Diphtheria			Scarlet Fever			Typhoid Fever			Smallpox			Measles			
	No. of Cases	No. of Deaths	Death-rate per cent.	No. of Cases	No. of Deaths	Death-rate per cent.	No. of Cases	No. of Deaths	Death-rate per cent.	No. of Cases	No. of Deaths	Death-rate per cent.	No. of cases	No. of Deaths	Death-rate per cent.	
6 mos. of 1884	398	64	16.08	60	4	6.66										
1885	360	49	13.61	73	1	1.36	6 mos. of 1886									
1886	170	21	12.35	123	2	1.62	49	5	10.20							
1887	144	35	24.30	124	11	8.87	166	3	7.83							
1888	212	49	23.11	186	11	8.09	94	2	24.46	7	1	14.92	318	13	4.08	Report not required until July, 1888
1889	185	33	17.83	81	0	0	127	25	19.69				1,083	20	1.85	
1890	115	20	17.39	100	6	6.00	94	15	15.95				158	1	.63	
1891	174	35	20.11	296	13	4.39	84	18	21.42				681	7	1.02	
1892	203	58	28.57	449	16	3.58	92	19	20.65				51	1	1.96	
1893	123	35	20.84	179	10	5.58	143	31	21.67				1,112	16	1.43	
1894	199	74	37.18	161	7	4.34	160	31	20.62	16	0	0	485	11	.02	
1895	254	70	27.55	132	5	3.78	139	25	17.98				29	1	.34	
1896	352	70	19.85	224	6	2.67	127	14	11.02				456	7	.15	
1897	312	55	17.62	254	8	3.14	100	15	15.00				522	17	.03	
1898	296	34	11.48	215	5	2.32	81	13	16.04				23	0	0	
1899	377	40	10.61	585	10	.17	104	19	18.26				144	5	.30	
1900	580	55	9.46	475	36	7.59	147	32	21.76				609	24	3.94	
1901	266	17	6.39	218	13	5.96	110	26	23.63	11	4	36.36	68	2	2.94	
1902	160	9	5.62	438	15	3.42	90	18	20.00	6	1	16.66	636	4	.62	
1903	180	11	6.11	173	7	4.04	94	17	18.08	3	0	0.	493	32	6.49	
1904	109	8	7.34	161	5	3.1	104	5	4.8	0	0	0.	84	1	1.19	
1905	132	12	9.09	75	4	5.33	150	26	17.33	0	0	0.	317	6	1.89	
1906	758	48	6.33	137	2	1.46	103	15	14.56	0	0	0.	322	13	4.03	
1907	1,178	84	7.11	304	25	8.22	95	18	18.94	0	0	0.	92	12	13.04	
1908	696	57	8.18	366	38	10.38	86	14	16.27	0	0	0.	582	21	3.60	
1909	332	22	6.62	263	8	3.04	102	12	11.76	0	0	0.	130	7	5.33	
1910	531	49	9.22	150	5	3.33	292	23	7.87	0	0	0.	630	24	3.80	
1911	413	37	8.96	461	12	2.60	120	10	8.33	0	0	0.	246	6	2.44	
1912	411	26	6.32	329	11	3.34	70	5	7.14	0	0	0.	405	17	4.19	
1913	369	33	8.94	341	11	3.22	79	9	11.39	0	0	0.	651	17	2.61	
1914	280	16	5.71	186	8	4.3	75	6	8.00	1	0	0.	349	18	5.15	
1915	342	21	6.14	144	3	2.08	72	9	12.5	0	0	0.	71	2	2.81	
1916	306	24	7.84	255	2	.78	36	6	16.66	0	0	0.	1,166	55	4.71	
1917	333	39	11.71	377	5	1.32	62	8	12.90	39	8	20.51	233	12	5.15	

1917.

CAUSE OF DEATH	Under 1 yr.		1-2 yrs.		2-3 yrs.		3-4 yrs.		4-5 yrs.		5-10 yrs.		10-15 yrs.		15-20 yrs.		20-30 yrs.		30-40 yrs.		40-50 yrs.		50-60 yrs.		60-70 yrs.		70-80 yrs.		80-90 yrs.		Over 90 yrs.		Totals					
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
	Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total			
1 Typhoid fever.....	8	4	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	2
4 Malaria.....	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4
5 Smallpox.....	8	8	3	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7
6 Measles.....	12	3	2	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	5
7 Scarlet fever.....	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	4
8 Whooping cough.....	34	13	12	5	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	20		
9 Diphtheria and croup.....	39	2	8	3	1	4	4	6	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	21		
10 Influenza.....	16	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	9		
18 Erysipelas.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19 Other epidemic diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24 Tetanus.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28 Tuberculosis of the lungs.....	192	6	1	1	1	1	1	1	1	1	1	1	4	8	38	26	28	17	23	17	11	6	6	4	8	3	1	1	1	1	1	1	1	1	110	82		
29 Acute miliary tuberculosis.....	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3		
30 Tuberculous meningitis.....	32	6	2	4	2	3	2	2	1	1	2	1	1	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	12		
31 Abdominal tuberculosis.....	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2		
32 Pott's disease.....	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
34 Tuberculosis of other organs.....	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	10		
35 Disseminated tuberculosis.....	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36 Rickets.....	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37 Syphilis.....	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3
38 Cancer and other malignant tumors of the buccal cavity.....	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3
40 Cancer and other malignant tumors of the stomach, liver.....	58	58	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	27
41 Cancer and other malignant tumors of the peritoneum, intestines, rectum.....	34	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	15
42 Cancer and other malignant tumors of the female genital organs.....	20	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	20
43 Cancer and other malignant tumors of the breast.....	19	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	19
44 Cancer and other malignant tumors of the skin.....	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3
45 Cancer and other malignant tumors of other organs or of organs not specified.....	21	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	6

CAUSE OF DEATH	Under 1 yr.		1-2 yrs.		2-3 yrs.		3-4 yrs.		4-5 yrs.		5-10 yrs.		10-15 yrs.		15-20 yrs.		20-30 yrs.		30-40 yrs.		40-50 yrs.		50-60 yrs.		60-70 yrs.		70-80 yrs.		80-90 yrs.		Totals						
	M		F		M		F		M		F		M		F		M		F		M		F		M		F		M		F		Total				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total						
91 Broncho pneumonia.....	22	16	5	5	4	1																															
92 Pneumonia.....	211	12	13	6	3																																
93 Pleurisy.....	6																																				
94 Pulmonary congestion, pulmonary apoplexy	2																																				
95 Asthma.....	3																																				
96 Other diseases of the respiratory system (tuberculosis excepted)	2																																				
97 Diseases of the pharynx.....	2	1																																			
98 Diseases of the oesophagus.....	2	1																																			
99 Ulcer of the mouth.....	12																																				
100 Other diseases of the stomach (cancer excepted)	8	1																																			
101 Diarrhoea and enteritis (under 2 years)	131	69	46	6	10																																
102 Diarrhoea and enteritis (2 years and over)	30																																				
103 Appendicitis and typhlitis.....	29																																				
104 Hernia, intestinal obstruction	26	2	2	1																																	
105 Other diseases of the intestines	3																																				
106 Hydatid tumor of the liver.....	1																																				
107 Cirrhosis of the liver.....	14																																				
108 Biliary calculi.....	14																																				
109 Other diseases of the liver.....	16	1																																			
110 Other diseases of the digestive system (cancer and tuberculosis excepted)	8	1																																			
111 Acute nephritis.....	1																																				
112 Bright's disease.....	14																																				
113 Chyluria.....	321																																				
114 Other diseases of the kidneys and annexa	2																																				
115 Calculi of the urinary passages.....	2																																				
116 Diseases of the bladder.....	2																																				
117 Diseases of the urethra, urinary abscess, etc.	2																																				
118 Diseases of the prostate.....	10																																				
119 Uterine hemorrhage (non-puerperal)	1																																				
120 Uterine tumor (non-cancerous)	3																																				
121 Other diseases of the uterus.....	3																																				
122 Cysts and other tumors of the ovary	1																																				
123 Salpingitis and other diseases of the female genital organs.....	2																																				
124 Accidents of pregnancy.....	4																																				
125 Puerperal hemorrhage.....	2																																				
126 Other accidents of labor.....	3																																				
127 Puerperal septicæmia.....	2	1																																			
128 Puerperal albuminuria and convulsions	25	1																																			
129 Puerperal phlegmasia alba dolens, embolus	14																																				
130 Puerperal phlegmasia alba dolens, embolus	14																																				
131 Puerperal death.....	2																																				

The number of deaths during the year is 2,791, a mortality of 14.88 per thousand; excluding deaths at both State Hospitals, it is 13.56; excluding nonresidents, it is 12.64.

These figures are based on the census taken yearly under direction of the Water Department. Nonresidents do not include any with a Worcester address. All enter hospitals from other cities and towns.

PLUMBING

Nine hundred thirty-one plans of plumbing were filed at this office during the year. Four hundred twenty-seven were for new buildings, thirty of which were for garages; five hundred four were for old buildings of which five were for stables; a decrease over the previous year.

Number of inspections made	2,780
Water closets installed	1,725
Wash trays installed	820
Bathtubs installed	972
Wash bowls installed	1,511
Sinks installed	1,124
Urinals installed	105
Surface sewer connections	76
Sanitary sewer connections	345
Floor drains installed	198
Conductors	206
Cesspools	255
Drinking fountains	49
Stables	5
Garages	30

Nine violations of the plumbing ordinance were found.

STABLES

Twenty-eight applications for stable licenses were filed during the year. Twelve of these were for new stables with accommodations for thirty-four horses and fourteen cows. There were sixteen applications filed by new owners for licenses in old stables accommodating seventy-four horses and ten cows. All of these were granted except four for new stables for ten horses and two for old stables for nineteen horses and four cows.

Hearings were granted remonstrants on four applications and two licenses were granted.

BACTERIOLOGICAL DEPARTMENT

Four thousand, eight hundred thirty-four cultures of diphtheria were examined during the year, of which three hundred thirty-three were positive. The balance were negative and release cultures.

One thousand, three hundred thirty-five specimens of sputum were examined; three hundred thirty-three were positive; nine hundred thirty-seven were negative and sixty-five were poor specimens.

One hundred fifty-nine Widal tests for typhoid bacilli were made of which twenty-four were positive.

Three malaria tests were made, of which one was positive.

CATTLE INSPECTION AND SLAUGHTER HOUSES

The inspectors of meat and provisions were present at the killing of one thousand, five hundred forty-nine head of cattle; one thousand, five hundred thirty-seven hogs; one thousand, five hundred seventy-three calves, eleven sheep and one goat. Twenty-four carcasses of beef weighing eight thousand, seven hundred pounds, four hogs weighing four hundred eighty-four pounds, sixty-four calves weighing two thousand four hundred twenty-two pounds, other meats weighing three hundred ninety-nine pounds were condemned.

Three persons were prosecuted during the year. All were convicted and fined.

Three thousand nine visits were made to markets.

BATHHOUSES

The men's bathhouse was opened for use June 16, and closed September 30. The keeper reports that 52,873 persons used the bathhouse during the period of 107 days.

The use by months follows:

June	6,050
July	23,918
August	20,219
September	2,686

The women's bathhouse was opened for use June 16 and closed September 30. The matron reports that 41,712 persons used the bathhouse during the period of 107 days.

The use by months follows:

June	3,686
July	23,075
August	14,450
September	501

Owing to the need for strict economy, this year we are not renewing our recommendation for new bathhouses. The need exists, however, and whenever feasible ought to be met.

SCARLET FEVER

There were three hundred seventy-seven cases of this disease reported for the year; an average of 31.41 cases per month. Five of these cases died; a mortality of 1.32.

TYPHOID FEVER

There were sixty-two cases of this disease reported the past year; ten of these were nonresidents who entered local hospitals from other towns ill with the disease. Eight of these cases died; a mortality of 12.9. Six of these were residents; two, nonresidents.

DIPHTHERIA

There were 333 cases of this disease reported during the year, an average of 27.75 per month. Thirty-nine of these cases died—a mortality of 11.71. Nearly all of these fatal cases might have been saved if physicians were called earlier.

A sharp increase in the number of cases of this disease reported was noted in October and November. This was of a particularly virulent type causing fourteen deaths in October which was greater than the total number of deaths from this disease for the first eight months of the year.

Physicians were immediately notified and urged to use antitoxin promptly if the clinical symptoms were at all suspicious. It is a pleasure to record that the medical profession responded quickly, with the result that what looked like the beginning of an epidemic subsided to normal conditions.

PULMONARY AND LARYNGEAL TUBERCULOSIS

There were 402 cases of this disease reported during the year; 192 died of this disease during the year.

There were 229 rooms disinfected after death or removal.

WASSERMANN TESTS

The arrangements made with the Trustees of the City Hospital by which we are enabled to offer laboratory assistance to the medical profession, continues. Five hundred eighty-three specimens were examined, one hundred twenty-eight were positive, four hundred three negative and fifty-two poor specimens.

INCINERATOR

There were 9,667 loads of combustible rubbish of various sizes received, a daily average of 31.69 loads.

Of waste paper, there were 740 bales, weighing from 400 to 500 lbs. each which were saved.

There were 240 loads of rags, carpets, papers, books, bottles, etc., delivered.

In December, 1917, Mr. Joseph Fanelli, who has furnished the men employed here, most of the time without cost to the city, getting his recompense from the salvage, threw up the job owing to the fact that there was no market for the grade of paper salvaged.

Since that time this department was attending to the incineration of the rubbish, employing two men burning everything except book-paper and rags. How long this condition will continue, it is impossible to say at this writing.

INSPECTORS

We again call your attention to the great importance of proper inspection of food and the places where it is prepared and sold. In order that we may properly inspect these bakeries, restaurants, soda fountains and markets where food is prepared and sold, we must have additional inspectors. It is simply impossible with our present force to do this work properly.

INFANTILE PARALYSIS

Worcester was very fortunate during the summer in the few cases of this terrible disease with which we were afflicted. Six cases in all were reported, five of these were residents and one was a nonresident, with two deaths.

SMALLPOX

On January 24 a case of smallpox was reported. The patient was a male Finn residing in a boarding house on Heardsleigh Street. He was removed to the smallpox hospital, the house disinfected and the inmates of the building, which contained several tenements, vaccinated. We were unable to trace the source of this infection.

On March 8, a child who had been admitted to a local hospital, was found to be suffering with the disease and a visit to the home of this child disclosed the fact that another child was in the convalescent stage of the disease. On March 13, a man living in a tenement over the one occupied by these children was reported sick with the disease. Later

in the month a nurse and a laundress connected with the hospital where the child was an inmate, came down with the disease; while it was not possible to connect these children with the original Finn case, it is probable that they were exposed to the same infection, as they lived in the immediate neighborhood, and too, the time of infection was about the same.

On April 5th, a man was reported sick with the disease, who lodged in the centre of the city and so far as we were able to trace, had no connection with these earlier cases. On April 12 this man died.

On April 20, a suspicious case was reported from Cambridge Street. The house was visited, and it was learned that the wife of the sick man had died April 9, with what was supposed to be septicaemia. They had a wake and a church funeral. His disease looked exactly the same. It was finally decided he had hemorrhagic smallpox, a very virulent form of the disease. He died late that afternoon.

Every person who attended the wake and funeral of the wife was sought out and vaccinated. Three other cases, all women, and close friends of the woman who died, were subsequently reported to be suffering with the same ailment. These three women recovered. On April 28, a man in the eruptive stage was reported. He was president of a local labor union, had attended to his ordinary duties while suffering with smallpox and had presided over a very large meeting of the union. We were not able to connect this man directly with these cases, although he lived only a short distance from the man and wife who died. It is probable he was exposed to the same infection that started the disease in this neighborhood. From this man we were able to trace directly or indirectly twenty-two cases widely scattered over the entire east side of the city. The last of these twenty-two cases was reported May 31.

In addition, there occurred three cases in Fitchburg and three in Shrewsbury connected with this one case. Of these twenty-two cases five died and one of the Fitchburg cases died also.

A case was reported on June 14 and another on June 23. The first of these died. Neither of these could be positively connected with any of the preceding cases.

On July 18, a case was reported, the patient a woman who probably brought the disease from New York from which place she had arrived only a short time before.

On December 26, the last case for the year was reported, the patient, a young man returning from the west to his home for the Christmas vacation. Smallpox is very prev-

alent in the middle west. He undoubtedly brought the disease with him as he was here only a few days when he began to be ill.

In all thirty-nine cases were reported during the year, with nine deaths, a mortality of 20.51.

During this outbreak more than 12,000 persons were vaccinated by this department; large numbers were also vaccinated by private physicians.

VACCINATION

The number of vaccinations for the year is greatly in excess of the usual number, due to the outbreak of smallpox in the early months of the year. There were 12,760 persons vaccinated by this department alone, most of them in the offices of the department, but quite a large number at the factories where they were employed, our nurses assisting in vaccinating over 1,600 persons in one day. This work is performed by our Chairman, Dr. E. H. Trowbridge, with the assistance of a few other physicians.

RECOMMENDATIONS

The City Council at the close of the year made an appropriation of \$47,000 for the erection of a new ward for minor infectious diseases at the Belmont Hospital. As you fully understand, this will permit the starting of the building only and must be supplemented by an additional appropriation in the year 1918, to complete this much needed addition to our hospital accommodations.

A detailed report of the superintendent is appended.

REPORT OF SCHOOL NURSE

To the Honorable Board of Health of the City of Worcester:—

Gentlemen: The sixth annual report of the school nurse is hereby presented.

The work of the school nurse during the past year shows gratifying results from the advice and counsel given in other years. Mothers who are unable to follow instructions have learned from demonstrations how to treat conditions which arise in their family but were not previously dealt with intelligently. Occasionally, when parents could not see the necessity for medical expense, it was necessary for the nurse to make arrangements for treatment at the hospital or out-patient clinic.

Treatment under the direction of the medical inspectors such as syringing ears, using eye drops, treating skin diseases, dressing cuts, sores, burns and bruises, are given by the nurse. Instructions regarding bathing, proper preparing of food, ventilation and sanitation are included in the work. The nurse is called upon to take pupils, at the request of the parents, to the hospital for treatment; to visit homes to explain to parents the need for glasses or the correction of other physical defects; to persuade parents to make greater efforts towards cleanliness of the skin and scalp. Even to attend court for the protection of neglected children is sometimes an additional duty.

No single ailment of children is more responsible for feeble constitutions, tuberculous diseases, enlarged glands, etc., than dental caries.

Preservation of the teeth depends far more upon their cleanliness than upon any inherited quality of the teeth themselves. Instructions regarding the care of the teeth have been given to the children in all homes visited during the year.

Another condition that is frequently neglected is discharging ears. A child catches cold which results in middle ear suppuration and destructive processes are allowed to continue there for years, until the child's life is endangered as well as its hearing. Lack of knowledge of the serious consequences of such neglect is most frequently the cause of these dangerous results. Adenoids is another cause of defective hearing and the remedy in this case is easy and simple.

School health work is more than putting glasses on children who cannot see well, removing adenoids and tonsils and filling decayed teeth. It involves a wide understanding of

the various social, educational and economic conditions that are closely bound up with the physical condition of the child.

Thanks are due to the charitable societies that have so kindly co-operated with me in this work.

STATISTICS FOR THE YEAR

Total number of visits	1,608
Visits to homes	1,383
Visits to hospital	169
Visits to schools	56
Visits for infected scalps	13
“ “ pediculosis	629
“ “ rash	5
“ “ burns	5
“ “ scabies	45
“ “ impetigo	128
“ “ eczema	6
“ “ anaemia	6
“ “ ivy poison	5
“ “ cuts and sores	54
“ “ psoriasis	1
“ “ ringworm	8
“ “ skin disease	7
“ “ cleanliness needed	15
“ “ eyes—sore	13
“ “ eyes—refraction	24
“ “ ears—running	14
“ “ tonsils and adenoids	48
“ “ carious teeth	242
“ “ sore throat	37
to schools	56
“ miscellaneous	78
“ to hospital for defective vision	37
“ “ “ “ ears and eyes	21
“ “ “ “ tonsils and adenoids	19
“ “ “ “ cuts and bruises	19
“ “ “ “ scabies	7
“ “ “ “ skin diseases	19
“ “ “ “ burns	1
“ “ “ “ abscess	1
“ “ “ “ septic finger	3
“ “ “ “ anaemia	3
“ “ “ “ diabetes	1
“ “ “ “ heart	2
“ “ “ “ headache	1
“ “ “ “ paralysis	7
“ “ “ “ enuresis	5
“ “ “ “ chorea	3
“ “ “ “ sprains	2
“ “ “ “ fractures	2
“ “ “ “ adenitis	3
“ “ “ “ cough	6
“ “ “ “ nerves	1
“ “ “ “ septic fingers	3
“ “ “ “ fallen arches	2
“ “ “ “ spine	1
Total number of visits	1,608

Respectfully submitted,
 MINNIE G. BRENNAN, R. N.,
 School Nurse.

REPORT OF THE TUBERCULOSIS NURSE

To the Honorable Board of Health of the City of Worcester:—

Gentlemen: The fourth annual report of the Tuberculosis Nurse for the year ending December 31, 1917, is hereby submitted.

There were 402 new cases of pulmonary tuberculosis reported during the year.

There were 299 referred by physicians, 103 referred by institutions. These included 239 men, 154 women, 9 children. Advisory visits, 2,540.

Great care was taken this year as in previous years in trying to prevent the spread of pulmonary tuberculosis. We have found that the best results in fighting this dreaded disease have been obtained by the visiting nurse, the State Sanatoria, and the hospital for the far advanced case.

Respectfully submitted,
MARJIE L. WATSON, R. N.,
Tuberculosis Nurse.

REPORT OF THE CHILD HYGIENE NURSE

To the Honorable Board of Health of the City of Worcester:—

Gentlemen: The fourth annual report of the baby hygiene nurse for the year ending December 31, 1917, is hereby submitted:

Number of patients	2,011	Trachoma cases reported.....	10
Breast feedings	1,907	Advisory visits.....	483
Breast and bottle.....	64	Nursing visits.....	584
Bottle feedings.....	40	Total number of calls.....	3,088
Cases of ophthalmia neonatorum reported.....	154		

Great care was taken to prevent blindness among our new-born babies. I not only instructed the mothers in carrying out treatment in each case reported, but follow-up work was done until the babies' eyes were in perfect condition.

Respectfully submitted,
JANE FRANCES DOWD, R. N.,
Baby Hygiene Nurse.

MEDICAL INSPECTION OF SCHOOLS

A full report of the School Physicians follows:

LIST OF DISEASES FOUND IN SCHOOLS

I.—SPECIFIC INFECTIOUS DISEASES

Diphtheria.....	12	Pertussis	43
Influenza.....	6	Rubella	22
Infantile Paralysis.....	2	Scarlet Fever.....	13
Measles.....	46	Varicella	70
Mumps.....	135		

II.—DISEASES OF THE ORAL AND RESPIRATORY TRACT

1.—Mouth

Alveolar abscess.....	8
Stomatitis.....	2

2.—Pharynx

Pharyngitis, acute.....	452
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3.—Tonsils

Tonsillitis, acute.....	232
Tonsil, hypertrophied.....	1,190

4.—Nose

Epistaxis.....	2
Obstruction in nose	5
Rhinitis, acute.....	55
Unclassified nose affections.....	2

5.—Naso-Pharynx

Adenoid disease.....	237
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6.—Larynx

Laryngitis, acute.....	31
Laryngitis, chronic.....	1
Bronchitis.....	82

III.—DISEASES OF THE EAR

Earache	12
Imperfect hearing (without visible cause).....	10
Mastoiditis.....	3
Otitis media, catarrhal (acute and chronic).....	25
Otitis media, suppurative (acute and chronic).....	34
Unclassified ear affections.....	3

IV.—DISEASES OF THE EYE

Blindness, unilateral.....	1
Defective vision.....	70

1.—Eyelids

Blepharitis.....	11
Hordeolum.....	19
Unclassified affections of the eyelids.....	2

2.—Conjunctiva

Conjunctivitis.....	60
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4.—*Cornea*

Keratitis	1
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5.—*Muscles*

Strabismus	20
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V.—DISEASES OF THE SKIN

Acne	182	Furunculosis	18
Alopecia areata	2	Herpes	247
Bromidrosis	1	Impetigo contagiosa	546
Bruises	1	Pediculosis	858
Burns	1	Psoriasis	1
Dermatitis (including Rhus poi- soning)	159	Scabies	64
Eczema	95	Seborrhoea	1
Erysipelas	1	Tinea	32
Erythema, simplex	12	Urticaria	12
Favus	12	Vaccinia	1
Folliculitis	1	Verruca	3

VI.—MISCELLANEOUS DISEASES

Abscess	9	Infections	35
Abdominal	6	Jaundice	3
Adenitis	1,064	Myalgia	1
Adenitis, suppurative	27	Nausea	1
Anæmia (poor nutrition)	392	Nervousness	140
Articulation defective	4	Neuritis	1
Asthma	1	Onychia	1
Chorea	11	Paronychia	1
Colds	231	Paralysis	1
Congenital hip	14	Pneumonia	1
Contusions	6	Ptomaine poisoning	1
Cystitis	1	Pupils sent home because of contagious disease in family	23
Debility and indisposition	1	Rheumatism	4
Deficient mentally	1	Referred to family physician	19
Deformities, congenital	1	Referred to hospital	2
Dental caries and toothache	3,151	Referred to open air school	5
Diseases of glands	1	Septic finger	8
Diseases of the heart	66	Septic wound	2
Diseases of the kidneys	6	Spinal caries T. B.	2
Diseases of the nervous system (unclassified)	1	Spinal deformities traumatic	4
Dislocations	1	Spinal curvature	3
Enuresis	1	Sprains	5
Epilepsy	1	Torticollis	5
Examinations	6,215	Trauma	19
Fracture	3	Tuberculosis of the hip	4
Goitre	1	Ulcers, sores and abrasions	8
Headache	8	Unclean	1
Hernia	2		
Indigestion	17	Total examinations	16,717

DONATIONS

We are grateful to those many kind persons who so generously answer our appeals made in behalf of the unfortunate under our care.

Respectfully submitted,
EDWARD H. TROWBRIDGE, M. D.,
JAMES C. COFFEY,
GEORGE C. HUNT,

Board of Health.

REPORT OF THE RESIDENT PHYSICIAN OF BELMONT HOSPITAL

To the Honorable Board of Health of the City of Worcester:—

Gentlemen: I herewith submit my report of the Belmont Hospital for the year ending December 31, 1917, it being the twenty-first annual report.

ISOLATION WARDS FOR DIPHTHERIA AND SCARLET FEVER

Number of patients remaining in hospital January 1, 1917	45
Number of patients remaining in hospital December 31, 1917	40
Number of patients admitted during the year	570
Number of deaths	32
Death rate	5.61
Death rate for diphtheria	9.67
Death rate for scarlet fever	1.17
Largest number in hospital at one time	74
Smallest number in hospital at one time	18
Oldest person treated for diphtheria	69 yrs.
Youngest person treated for diphtheria	5 mos.
Oldest person treated for scarlet fever	37 yrs.
Youngest person treated for scarlet fever	8 mos.
Average number of days in hospital for diphtheria	20.9
Average number of days in hospital for scarlet fever	35.4
Total patient days	15,706

NUMBER TREATED FOR DIPHTHERIA

	Male	Female	Total	Death
Under 1 year	1	4	5	2
Between 1 and 2 years	7	3	10	1
Between 2 and 3 years	8	5	13	2
Between 3 and 5 years	33	24	57	6
Between 5 and 7 years	28	19	47	4
Between 7 and 10 years	20	19	39	4
Between 10 and 15 years	20	27	47	6
Between 15 and 20 years	3	8	11	0
Over 20 years	18	32	50	2
Totals	188	141	279	27

NUMBER TREATED FOR SCARLET FEVER

	Male	Female	Total	Deaths
Under 1 year	0	0	0	0
Between 1 and 2 years	1	1	2	0
Between 2 and 3 years	8	6	14	1
Between 3 and 5 years	34	27	61	2
Between 5 and 7 years	22	19	41	0
Between 7 and 10 years	23	36	59	0
Between 10 and 15 years	11	23	34	0
Between 15 and 20 years	5	19	24	0
Over 20 years	10	11	21	0
Totals	114	142	256	3

Intubation cases.....	28
Deaths.....	6
Death rate.....	21.4
Tracheotomy cases.....	0

PROBATION LIST

- 1 had Pneumonia.
- 1 had Broncho-pneumonia.
- 4 had Tonsillitis.
- 13 had Catarrhal Laryngitis.
- 6 had Measles.
- 1 had Coryza.
- 1 had Peritonsillar Abscess.
- 1 had Retropharyngeal Abscess.
- 1 had Urticaria.
- 2 Infants with Mother.

By probation is meant cases that enter as diphtheria or scarlet fever but who do not prove to have either disease.

Since the opening of the hospital there have been:

Scarlet fever and diphtheria, number of cases.....	65
Deaths.....	9
Death rate.....	13.8
Diphtheria, number of cases.....	4,727
Deaths.....	362
Death rate.....	7.6
Scarlet fever, number of cases.....	2,479
Deaths.....	109
Death rate.....	4.3
Intubations.....	625
Deaths.....	125
Death rate.....	20.0
Tracheotomies.....	27
Deaths.....	14
Death rate.....	51.8
Return cases 1917:	
Diphtheria.....	2
Scarlet fever.....	11

During the year we were able to accommodate some of the neighboring towns by admitting the following cases:

	Diphtheria	Scarlet Fever	Probation
Boylston.....	1		
Clinton.....	3	9	
Fitchburg.....	17	3	1
Jefferson.....	4		
Leominster.....	4	1	
Oxford.....	1		
Shrewsbury.....	1	5	
Millbury.....			2
Webster.....	2		
Whitinsville.....			1
Dudley.....	1		
Barre.....	1		
Hopedale.....	1		

	Diphtheria	Scarlet Fever	Probation
Northbridge.....	1		
Northboro.....	1		
Spencer.....	2		1
Sterling.....	2		
Sutton.....			1
Uxbridge.....	1		
Total, 67 cases.			

There have been sixty-nine different nurses on duty during the year; of these,

Seventeen were graduate nurses, one non-graduate nurse.

Three were special nurses with private patients.

Two were male nurses with private patients.

Five graduate nurses received certificates for our post-graduate course.

Thirty-seven pupil nurses were from Worcester City Hospital.

Two nurses contracted diphtheria and four contracted scarlet fever.

A morbidity record of 8.69 per cent. No other employee of the institution contracted any infectious disease. It is matter of record that in twenty-one years no laundress or ward-maid has ever contracted either disease; in the entire list of employees, outside of nurses, there have been two cases, one scarlet fever and one diphtheria.

AVERAGE DAILY NUMBER OF PATIENTS BY MONTHS

Months	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Jan...	23.4	29.6	8.2	7.6	16.0	13.0	17.5	40.	56.6	43.2	31.3	32.3	53.2	53.0	44.2	31.3	47.3	44.1
Feb...	26.8	24.	18.2	10.7	14.3	14.7	13.	52.5	62.6	44.2	27.1	37.7	49.1	59.5	37.2	33.1	56.6	50.9
Mar..	37.	25.	15.4	10.6	10.9	15.0	15.9	49.4	61.8	37.2	30.4	32.6	46.1	57.6	42.1	37.8	45.1	55.1
Apr...	33.	25.5	17.6	12.7	7.7	14.0	15.8	47.2	47.8	36.1	25.6	52.4	46.1	43.3	45.1	36.2	31.3	48.4
May..	27.	22.2	27.7	13.3	11.2	10.0	17.6	50.8	40.3	42.7	21.5	65.9	42.4	35.0	36.1	33.1	26.9	38.2
June..	25.	17.2	29.1	9.1	12.4	11.3	15.6	57.1	25.2	23.1	18.1	69.1	26.2	30.7	31.2	25.1	23.2	38.6
July..	8.9	8.9	17.9	4.6	7.6	8.2	17.5	35.2	18.2	14.2	27.7	46.9	13.2	24.3	20.1	16.7	20.3	28.6
Aug...	10.0	2.8	7.9	4.9	13.	6.9	21.5	31.2	29.	16.3	21.6	23.3	12.1	18.8	13.1	16.2	14.9	38.4
Sept..	26.0	8.6	15.	7.8	14.5	6.5	43.8	43.	36.3	27.1	28.9	23.3	19.2	19.8	20.1	19.6	28.8	23.6
Oct...	30.2	9.	13.6	10.6	8.6	10.9	46.4	42.	47.7	25.3	27.6	50.0	24.2	28.0	25.2	25.5	34.8	57.2
Nov..	29.6	11.0	14.1	18.8	6.	12.3	38.4	41.8	44.8	27.2	31.3	57.1	46.1	36.5	31.2	40.9	43.1	60.6
Dec...	7.7	26.3	4.3	22.5	11.0	19.7	38.8	56.8	41.6	24.1	29.6	45.5	56.1	53.0	30.1	36.1	50.4	47.8

**PROPORTION OF CASES REPORTED IN CITY WHICH CAME
TO THE HOSPITAL**

Diphtheria.	Per Cent.	Scarlet Fever.	Per Cent.
1897.....	20.8	1897.....	7.
1898.....	23.9	1898.....	9.7
1899.....	29.7	1899.....	17.7
1900.....	38.3	1900.....	27.2
1901.....	38.8	1901.....	28.89
1902.....	46.25	1902.....	21.68
1903.....	43.33	1903.....	20.23
1904.....	61.49	1904.....	28.57
1905.....	63.63	1905.....	28.
1906.....	48.9	1906.....	37.9
1907.....	59.67	1907.....	46.7
1908.....	60.91	1908.....	46.17
1909.....	62.3	1909.....	56.6
1910.....	64.33	1910.....	66.66
1911.....	68.52	1911.....	61.17
1912.....	67.64	1912.....	58.9
1913.....	68.83	1913.....	63.34
1914.....	69.64	1914.....	62.90
1915.....	69.97	1915.....	63.19
1916.....	72.54	1916.....	60.78
1917.....	83.78	1917.....	67.90

PATIENTS ADMITTED BY MONTHS.

Admitted	Diphtheria	Scarlet Fever	Scarlet Fever and Diphtheria	Probation	Totals	Admitted	Diphtheria	Scarlet Fever	Scarlet Fever and Diphtheria	Probation	Totals
January.....	27	23	1	1	52	July.....	14	10	0	1	25
February.....	20	33	1	1	55	August.....	15	10	0	2	27
March.....	19	32	1	3	55	September..	22	21	0	1	44
April.....	13	23	0	2	38	October....	53	23	0	5	81
May.....	15	23	0	2	40	November..	45	19	1	2	67
June.....	19	15	0	3	37	December..	17	24	0	8	49
							279	256	4	31	570

PATIENTS ADMITTED BY MONTHS SINCE OPENING
OF HOSPITAL

Months	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
Jan. . . . .	...	10	5	16	22	30	12	7	12	13	17	89	75	47	58	47	52	58	40	44	69	52
Feb. . . . .	...	3	6	7	27	17	16	7	8	12	11	92	77	41	40	37	47	58	38	30	51	55
Mar. . . . .	...	7	8	2	54	16	13	5	9	10	15	53	47	27	36	37	49	49	36	40	38	55
Apr. . . . .	...	2	11	11	21	21	19	16	7	16	14	81	41	34	23	56	37	43	31	36	28	88
May . . . . .	...	9	1	10	31	16	31	10	15	4	17	78	57	29	28	74	41	40	29	41	37	40
June . . . . .	...	5	3	15	16	12	16	4	9	11	23	100	26	18	27	66	18	29	26	20	18	37
July . . . . .	...	3	4	12	12	6	11	4	4	8	17	34	28	10	23	23	19	30	14	13	21	25
Aug. . . . .	...	5	7	23	17	1	8	7	17	6	50	78	34	29	35	31	17	20	14	22	28	27
Sept. . . . .	...	7	10	22	34	15	22	7	8	6	69	70	57	22	39	40	37	28	34	20	37	44
Oct. . . . .	...	5	12	25	39	15	11	16	8	7	83	62	68	40	38	68	43	39	31	39	43	81
Nov.	3	22	30	30	35	4	4	21	7	16	67	65	52	36	49	48	62	51	45	67	52	67
Dec.	8	14	7	30	30	4	7	17	12	19	67	75	52	38	46	53	68	77	28	56	54	49
	11	92	99	203	338	157	170	121	116	123	450	877	614	366	447	534	490	522	369	428	476	570

PUTNAM WARD FOR ADVANCED TUBERCULOSIS

The Putnam Ward for advanced tuberculosis was opened to admit patients December 7, 1914, and up to December 31st of that year, 36 patients had been admitted. During the year 1915, the first complete year in this department, 148 patients were admitted. In 1916, 153 admissions.

The third year is now ended and the detailed report follows:

Number of patients remaining in Putnam Ward, Jan. 1, 1917.....	36
Number of patients remaining in Putnam Ward, Dec. 31, 1917....	38
Number of patients admitted during year.....	161
Total number of patients treated.....	197
Number of deaths.....	86
Death rate.....	43.6
Oldest person treated for tuberculosis.....	64
Youngest person treated for tuberculosis.....	10
Total patient days in Putnam Ward for 1917.....	18,050

AGES OF TUBERCULAR PATIENTS ADMITTED IN 1917

			Died		Total
	Male	Female	Male	Female	
Under 14 years.....	0	1	0	0	0
Between 14 and 20 years.....	3	9	2	3	5
Between 20 and 30 years.....	39	20	19	5	24
Between 30 and 40 years.....	39	14	10	9	19
Between 40 and 50 years.....	14	6	6	4	10
Over 50 years.....	14	2	5	0	5
	<u>109</u>	<u>52</u>	<u>42</u>	<u>21</u>	<u>63</u>

ADMISSIONS AND DEATHS AT PUTNAM WARD BY MONTHS—1917

	Male	Female	Total	Deaths
January.....	12	3	15	8
February.....	13	2	15	12
March.....	15	2	17	9
April.....	15	3	18	10
May.....	6	6	12	6
June.....	9	8	17	6
July.....	6	1	7	2
August.....	8	3	11	7
September.....	9	6	15	3
October.....	6	6	12	11
November.....	6	3	9	8
December.....	8	5	13	4
	<u>118</u>	<u>48</u>	<u>161</u>	<u>86</u>

CLASSIFICATION OF PATIENTS ADMITTED TO PUTNAM WARD 1917

	Male	Female	Total
Incipient.....	3	2	5
Moderately advanced.....	51	21	72
Advanced.....	54	23	82
Non-tuberculous.....	2	0	2

**SETTLEMENT OF PATIENTS ADMITTED TO PUTNAM WARD
1917**

Worcester.....	69
State.....	83
Other cities in state.....	9
Not determined.....	0

**LENGTH OF STAY OF PATIENTS AT PUTNAM WARD WHOSE
TREATMENT TERMINATED DURING YEAR 1917**

	Male			Female			Total
	Died	Discharged	Total	Died	Discharged	Total	
Less than 1 week.....	8	4	12	2	6	8	20
1 week to 1 month.....	20	14	34	9	3	12	46
1 month to 3 months.....	9	20	29	7	9	16	45
3 months to 6 months.....	6	1	7	1	2	3	10
6 months to 9 months.....	3	0	3	0	2	2	5
9 months to 1 year.....	1	0	1	0	0	0	1
Over 1 year.....	5	4	9	1	0	1	10

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PATIENTS STILL IN HOSPITAL

	Male	Female	Total
Less than 1 week.....	1	1	2
1 week to 1 month.....	7	3	10
1 month to 3 months.....	5	2	7
3 months to 6 months.....	2	2	4
6 months to 9 months.....	2	2	4
9 months to 1 year.....	2	2	4
Over 1 year.....	5	2	7

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Patients admitted in 1914 still remaining in hospital.....	2
Patients admitted in 1914, died in 1917.....	1
Patients admitted in 1915, discharged in 1917.....	2
Patients admitted in 1915, still remaining in hospital.....	2
Patients admitted in 1915, died in 1917.....	3
Patients admitted in 1916, still remaining in hospital.....	4

NATIONALITY OF PATIENTS ADMITTED TO PUTNAM WARD

	Male	Female	Total
Albanian.....	1	0	1
American.....	44	20	64
Armenian.....	2	0	2
Austrian.....	1	0	1
Canadian.....	6	1	7
English.....	2	0	2
Finnish.....	5	3	8
French.....	1	0	1
Greek.....	10	2	12
Irish.....	10	5	15
Italian.....	5	0	5
Norwegian.....	3	0	3
Persian.....	1	0	1
Russian, including Polish.....	12	5	17
Swedish.....	5	7	12
Syrian.....	0	1	1
Turkish.....	9	0	9
	<hr/> 117	<hr/> 44	<hr/> 161

Total number of patients treated.....	202
Number of deaths.....	86
Number transferred to Sanatoria.....	12
Number eloped or failed to return.....	5
Men returned to work.....	5
Discharged for drunkenness.....	2
Discharged at their own request and against advice.....	20
Discharged for other misdemeanors off grounds.....	8

OUT-PATIENT DEPARTMENT—PUTNAM WARD

Number registered in 1917.....	167
Number of return visits.....	58

The administration of the hospital has been increasingly difficult owing to the scarcity, as well as the high cost of all classes of supplies, equipment and labor. The end of the year finds us seriously handicapped in every way.

The State Department of Health continues to provide us with an unlimited supply of high-grade antitoxin for which we should realize our great obligation.

We are also indebted to many friends and organizations for gifts of flowers and reading matter and other things which help to make the stay of the patients happier, and especially at Christmas time a most generous donation was made for the season's celebration. For all I wish to make grateful acknowledgment.

In conclusion I wish to express my gratitude to the Board and to the Medical Staff for their unfailing kindness to me throughout my service at the hospital, rendering it both possible and pleasant.

Respectfully submitted,
 MAY SALONA HOLMES, M. D.,
Superintendent and Resident Physician.

LABORATORY OF THE INSPECTOR OF MILK

To the Honorable Board of Health of the City of Worcester:—

Gentlemen: The Inspector of Milk respectfully submits the following report for the year 1917.

SAMPLES OF MILK ANALYZED

City	Months	Number of Samples	Number below Standard in Fats or Solids	Per cent. below Standard in Fats or Solids	AVERAGES			Cream	Skimmed Milk	Wardens Seat
					Solids not Fat	Fat	Total Solids			
	January.....	84	14	16.66	8.72	3.66	12.38	8	0	16
	February.....	59	10	16.94	8.65	3.49	12.14	9	0	9
	March.....	69	14	20.28	8.40	3.31	11.71	6	0	25
	April.....	231	34	14.71	8.42	3.47	11.89	11	0	68
	May.....	126	9	7.14	8.60	3.70	12.30	9	0	38
	June.....	342	21	6.14	8.40	3.45	11.85	2	0	116
	July.....	404	22	5.44	8.53	3.60	12.13	14	0	149
	August.....	343	28	8.16	8.46	3.56	12.02	3	0	105
	September.....	143	48	33.56	8.60	3.29	11.89	3	0	18
	October.....	85	15	17.64	8.65	3.63	12.28	13	0	12
	November.....	120	3	2.5	8.73	3.64	12.37	22	1	17
	December.....	86	24	2.8	8.64	3.58	12.22	14	0	11
	Totals.....	2,092	242	11.56	8.57	3.53	12.09	114	1	584

LEGAL STANDARDS

	Per cent.
Milk	
Fat	3.35
Total Solids	12.00
Light Cream	
Fat	15.00
Ice Cream	
Fat	7.00
Quantitative bacteriological examinations of milk and cream have been made with the following results:	
Class A Containing less than 10,000 bacteria per c. c.,	44
Class B Containing 10,000 to 50,000 bacteria per c. c.,	65
Class C Containing 50,000 to 100,000 bacteria per c. c.,	24
Class D Containing 100,000 to 250,000 bacteria per c. c.,	33
Class E Containing 250,000 to 500,000 bacteria per c. c.,	26
Class F Containing 500,000 bacteria and over per c. c.,	71
Total,	263

BACTERIA STANDARDS

Certified milk not to exceed 10,000.
 Inspected milk not to exceed 50,000.
 Market milk not to exceed 500,000.

COURT CASES

Nature of Complaints

Sale of milk to which water has been added	5
Keeping cows in barn without a license	1
Amount in fines and costs	\$158.81

SUMMARY

Number of samples of skimmed milk tested	1
Number of samples of cream tested	114
Number of samples of milk tested	2,092
Number of samples of milk, skimmed milk and cream tested for bacteria	263
Number of samples of butter, renovated butter and oleomargarine tested	8
Number of samples of vinegar tested	1
Number of inspections made at dairies, milk-rooms, etc.	328
Number of inspections and visits made on account of contagious diseases	17

MILK IS SAFEST IF PASTEURIZED

While pasteurization as applied to milk and milk products is in a way a new process of handling the city dairy supply, its functions may be understood if one will investigate the results of numerous tests made at our agricultural colleges and by health authorities. As a direct result of these tests, reliable authorities now agree that a "Safe Milk" from a health standpoint is a "Pasteurized Milk"; at the present time the consensus of opinion holds that the greatest degree of safety lies in the use of pasteurized milk.

Many cities now have rules or regulations requiring the pasteurization of milk and some states even forbid creameries to return or deliver any unpasteurized skimmed milk to be used as food for calves or swine. The reason for this is that it prevents the spread of disease among animals.

The International Association of Dairy and Milk Inspectors, at their meeting held in Washington, D. C., October, 1917, passed the following resolution:

That we recommend that all milk and cream be pasteurized, even that used in the manufacture of butter and ice cream.

The legislature of 1917 passed the following act:

CHAP. 259

AN ACT DEFINING PASTEURIZED MILK AND REGULATING THE SALE THEREOF

Be it enacted, etc., as follows:

Section 1. Pasteurized Milk is hereby defined to be natural cow's milk not more than 72 hours old when pasteurized, subjected for a period of not less than thirty minutes, to a temperature of not less than one hundred and forty degrees nor more than one hundred and forty-five degrees Fahrenheit, and immediately thereafter cooled therefrom to a temperature of fifty degrees Fahrenheit or lower.

Section 2. It shall be unlawful to sell, exchange or deliver, or to advertise, represent, or describe, or to offer or expose for sale or to have in possession with intent to sell, as pasteurized milk, milk not pasteurized in conformity with the provisions of this act.

Section 3. Any violation of this act shall be punished by a fine of not less than ten dollars for a first offence, and of not more than one hundred dollars for any subsequent offence.

Section 4. This act shall take effect on the first day of January in the year nineteen hundred and eighteen. (Approved May 16, 1917.)

The sale of pasteurized milk in this city is increasing. The amount sold in

1916—21,092 quarts or 32.2 per cent.

1917—25,563 quarts or 39.3 per cent.

CLEAN MILK CONTEST

In the Clean Milking Contest conducted during the year by the State Board of Agriculture to encourage the dairymen to become more proficient in their work of producing clean milk, the greatest number of superior merit cottons were obtained from milk producers supplying Worcester with milk and for the second time the first prize was awarded to the Worcester milk inspector.

MARKET MILK CONTEST

The five dealers in milk in this city receiving ribbons for the highest scores were as follows:

First	C. Brigham Co.	93.40
Second	D. L. Brooks	93.40
Third	Mattson & Nelson	92.10
Fourth	The Farmers' Co-operative Milk Distributing Co.	91.40
Fifth	J. C. McCarthy & Son	90.40

CONCLUSION

Oscar Forsdahl, a senior at the Worcester Polytechnic Institute, was employed during his summer vacation to assist in the collection of samples and laboratory work. He was careful and conscientious in his work.

I have endeavored to conduct myself and the department in a manner that would warrant a verdict of approval. To all who have in any way assisted me, I express my gratitude.

For the constant support of your Honorable Board, especial thanks is due and is hereby heartily given.

Respectfully submitted,

GUSTAF L. BERG,
Inspector of Milk.

REPORT
OF THE
PUBLIC SCHOOLS
OF THE
CITY OF WORCESTER

1917



COMMONWEALTH PRESS
WORCESTER, MASS.
1918

In School Committee, January 8, 1918.

**The annual report of the Superintendent was accepted, and
it was ordered that seventeen hundred copies be printed.**

JOSEPH BEALS, *Clerk.*

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**ORGANIZATION OF THE SCHOOL COMMITTEE
AND THE PUBLIC SCHOOLS**

WORCESTER, MASS.

January, 1918

ALBERT H. INMAN, *Chairman.*

CHARLES B. ELDER, *Vice-Chairman.*

JOSEPH BEALS, *Clerk.*

HOMER P. LEWIS, *Superintendent.*

JOHN F. GANNON, *Assistant Superintendent.*

ALICE LOUISE HARRIS, *Assistant Superintendent.*

WALTER S. YOUNG, *Assistant Superintendent.*

SCHOOL COMMITTEE

MEMBERS WHOSE TERM EXPIRES JANUARY, 1919

Ward	Residence
At Large ALBERT H. INMAN,	21 Germain street
2. THURE HANSON,	125 Eastern avenue
4. MICHAEL B. FOX,	6 Coral street
6. WALTER J. COOKSON,	12 Princeton street
8. JOHN E. RICE,	8 Silver street
10. CHARLES B. ELDER,	4 Chalmers road

MEMBERS WHOSE TERM EXPIRES JANUARY, 1920

1. U. WALDO CUTLER,	68 Lancaster street
3. FRANCIS A. UNDERWOOD,	15 Trumbull Square
5. JAMES F. TIMON,	546 Southbridge street
7. THOMAS F. MCGAULEY,	30 Tirrell street
9. JOHN A. CLOUGH,	1 Merrick street

MEETINGS OF THE SCHOOL COMMITTEE

Room 24, City Hall, at 8.30 o'clock P. M.

For Organization:

First Tuesday in each municipal year.

Regular Meetings:

First Friday of each month thereafter, except July and August, and the last Friday in June.

MEDICAL INSPECTORS

COOK, DR. P. H., Chandler, Salem, Sycamore, Thomas, North High (boys).

DEERING, DR. G. E., Ash, Bloomingdale, Lake View, Ledge, Mason.

EMERY, DR. G. E., Adams square, Belmont, East Kendall, Harlow.

FOLEY, DR. T. J., Blithewood avenue, Rice square, Richland street pa., Union avenue, Upsala, Vernon street pa.

KENNEY, DR. T. F., Adams street, Elizabeth, Gage, Sacred Heart Academy.

LANGLOIS, DR. W. E., Dartmouth, Grafton, Plantation street pa., St. Anthony.

LEIB, DR. E. R., Cambridge, Canterbury, Jamesville, Malvern road, Trowbridgeville.

LUSSIER, DR. C. A., Columbus Park, Downing, Illinois street pa., Woodland.

MAGUNE, DR. F. L., Andover, Edgeworth, Greendale, West Boylston, Burncoat Plain.

MCGILLICUDDY, DR. J. T., Providence, Orange street pa., St. Paul's pa., Temple street pa., Ward street.

MILLER, DR. L. C., Abbott, Midland, Oxford, Tatnuck, Commercial High (boys).

O'DAY, DR. G. F., Granite street Orph., Lamartine, Millbury, Quinsigamond.
WARD, DR. G. O., Freeland, Gates Lane, Sever, South High (boys), Valley Falls, Webster square.

WARD, DR. R. J., Classical High (boys), Lee, Winslow, Dix, North Worcester, North Pond.

MURPHY, DR. ANNA, Commercial High, Classical High, North High, South High, Trade Schools (all girls).

REPORT OF THE SUPERINTENDENT

CHRONICLE, 1917

Buildings asked for by School Committee:

- Gymnasium for Classical High School: March, 1917.
- Gymnasium for South High School: March, 1917.
- Six-room schoolhouse on Grafton St., near Pine Hill Road: December, 1917. (Renewal of previous request.)
- Eight-room schoolhouse in rear of Gates Lane schoolhouse: December, 1917. (Renewal.)
- Twelve-room schoolhouse in rear of Grafton St. schoolhouse: December, 1917. (Renewal.)
- Four-room schoolhouse at Jamesville: December, 1917.

Buildings occupied:

- Bloomington (addition): March, 1917.
- Burncoat: September, 1917.

State-aided vocational high school agricultural department established: September, 1917.

Courses in Agriculture organized on a project basis for high school students: October, 1917.

Boys in high schools allowed to leave regular school work without suffering undue retardation or penalty, to work on farms—thereby joining the United States Boys' Working Reserve: May, 1917.

Director of Cooking authorized to make changes in course in Cooking to meet present and changing conditions: May, 1917.

Classes in home economics for women held in the school kitchens for instruction in canning: summer of 1917.

General plan of Physical Training for grammar and high schools (as presented by Director Edward W. Wilder): adopted June 29, 1917.

Plan whereby more definite instruction in Music shall be given in the high schools and credit given for points toward graduation: adopted June 29, 1917.

Plan to give credit for Physical Training in high schools towards points for graduation adopted: November, 1917.

Classes for foreign women opened at Lamartine and Belmont St. schools: January, 1917.

Number of sessions for evening schools reduced to four evenings a week: beginning October, 1917.

Third year course in Cooking in evening schools discontinued: October, 1917.

Opening of schools deferred, on account of coal shortage, by vote of School Committee: December 26, 1917.

Usual teachers' meetings held by superintendents and directors during the year.

Course of lectures on History by Assistant Superintendent Young.

Meeting of Worcester County Teachers' Association: November 5, 1917.

Exhibition of drawings from the high schools, at City Hall: December, 1917.

Exhibition of drawings from evening classes, at Art Museum: May, 1917.

Exhibition of Home Industries and Products of Home Gardens, in Mechanics Hall: September 14 and 15, 1917.

Exhibition of Bird Houses made by pupils (and prizes awarded): April, 1917.

Talks on Gardening given in the schools by representative of Worcester County Farm Bureau: spring of 1917.

- Course of lectures for teachers in ungraded and special classes by Dr. Elizabeth Mateer of Massachusetts School for Feeble Minded at Waverly during winter of 1917.
- Classes in First Aid and Home Nursing opened for teachers: spring of 1917.
- Junior Red Cross Auxiliaries organized in the schools: fall and winter of 1917-18.
- Contributions by children to fund for Fatherless Children of France sent to Marshal Joffre: June, 1917.
- Contributions by children to relieve distress caused by Halifax Disaster sent to general fund for this purpose: November, 1917.
- Contributions by children for the relief of destitute children in the countries devastated by the World War sent to Children of America's Army of Relief: June to December, 1917.
- (The total amount contributed to the three funds mentioned above was \$3,391.98.)
- Liberty Bonds sold by children, and bought by schools and individual pupils: fall of 1917.
- Waste paper gathered by children and sold for the benefit of the Worcester War Chest: fall of 1917.
- Granting of sabbatical year with half-pay declared illegal by City Solicitor, and sabbatical leave granted to teachers in September, 1916, revoked by School Committee in April, 1917.
- Eighty-three teachers appointed in day and evening schools: one principal in high school; two principals in graded schools; fourteen teachers in high schools; forty teachers in graded schools; two teachers in ungraded schools; nine teachers in kindergartens; one director of physical training; eight teachers in evening high school; five teachers in evening elementary schools; one teacher in evening cooking.
- Seventeen resignations of teachers received: four teachers in high school; eleven teachers in graded schools; one teacher in cooking; one teacher in evening high school.
- Four teachers retired: one principal in high school; one principal in graded school; two teachers in graded schools.
- Deaths: Mary A. Cunningham, Lizette M. Draper, Elicia G. Goggin, George E. Reidy; Alfred S. Roe.

PRIZES AWARDED—TO BE EXPENDED FOR SCHOOL DECORATION, ETC.

- Prizes awarded (from David H. Fanning Fund) in connection with exhibition of home work and products of home gardens of pupils in the public schools, to the following schools: Downing St., Gates Lane, Malvern Road, Blithewood, Columbus Park, Woodland St., Freeland St., Rice Square, Bloomingdale, North Pond, North Worcester, Andover St., Trowbridgeville, Millbury St.
- Prizes awarded (from Inman Fund for Asters) to pupils in the following schools: Malvern Road, Trowbridgeville, Blithewood, Greendale.
- Silver cups awarded to the following schools: For flowers—Blithewood (second year); for vegetables—Malvern Road (third year—school becomes owner of the cup.)

IN SCHOOL COMMITTEE

- Re-organized School Committee in office: January, 1917.
- General revision of Rules and Regulations in progress during 1917.

(a) Votes (General)

- Recommendation for general salary increase of teachers: adopted January, 1917.

That the recommendation that the Sabbatical leave of absence for teachers be continued during the next school year under the same Rules as established for the current school year be referred back to the Committee on the Whole (due to question of its legality): voted April, 1917.

That the Superintendent be authorized to institute a friendly suit before the Supreme Court of Massachusetts to determine the legality of the Sabbatical Leave of Absence for teachers with half pay, with the understanding that no expense shall be incurred by the School Committee in the instituting of this suit: voted May, 1917.

Order that the School Committee petition the General Court to enact an act vesting authority with reference to purchase, lease and improvement of sites for schoolhouses, etc., etc., in the School Committee: voted December, 1917.

(b) Special Committees

Special committee to act upon letter from Women's Branch of National Security League offering to give talks to children: appointed February, 1917.

Special committee to consider and report upon advisability of introducing military drill in the public schools: appointed April, 1917.

Advisory Committee for the Agricultural Department: appointed June 29, 1917.

Special committee to visit private schools: appointed October, 1917.

Committee on Junior Red Cross Auxiliaries in the public schools: appointed November, 1917.

STATISTICS—I.

YEARS	School Census	Total Number of Pupils in Day Schools	Number of Different Pupils Enrolled in Graded Schools	Number of Different Pupils Enrolled in High Schools	Average Number Belonging in Day Schools	Average Number Belonging in Graded Schools	Average Number Belonging in High Schools	Average Attendance in Graded Schools	Average Attendance in High Schools	Number of Graduates from High Schools	Number of Sittings in Graded Schools	Number of Sittings in High Schools
1905	21,610	22,170	20,088	2,182	19,615	17,719	1,896	16,073	1,785	South Class. 74 Eng. 84 North 92	22,189	2,173
1906	22,495	22,810	20,712	2,247†	20,097	18,153	1,944	16,522	1,843	South Class. 89 Eng. 78 North 71	22,515	2,175
1907	22,680	23,237	20,896	2,341†	20,306	18,358	1,948	16,436	1,897	South Class. 80 Eng. 66 North 115	22,444	2,261
1908	22,589	23,268	21,199	2,303†	20,511	18,535	1,976	16,577	1,941	South Class. 98 Eng. 88 North 113	22,658	2,290
1909	21,349	22,645	20,485	2,476†	19,958	18,282	2,066	16,268	1,969	South Class. 126 Eng. 70 North 107	22,382	2,485
1910	23,160	22,552	20,425	2,440†	19,988	17,928	2,010	16,302	1,909	South Class. 139 Eng. 73 North 118	23,458	2,485
1911	23,446	23,070	20,988	2,794†	20,514	18,297	2,217	16,725	2,108	South Class. 123 Eng. 71 North 124	23,088	3,023
1912	23,232	23,589	20,488	3,101†	20,777	18,049	2,728	16,591	2,564	South Class. 125 Eng. 81 North 91	23,221	3,277
1913	24,067	24,031	20,701	3,330†	21,204	18,453	2,751	16,871	2,584	South Class. 138 Eng. 106 North 112	24,041	3,879
1914	26,836*	25,208	21,693	3,515†	22,317	19,429	2,888	17,589	2,732	South Class. 15 North 140 Comm. 188	24,910	3,726
1915	27,927*	26,450	22,518	3,937†	23,732	20,526	3,206	19,090	3,085	South Class. 176 North 92 Comm. 119	25,436	3,798
1916	none taken	26,558	22,841	4,017†	23,944	20,587	3,357	18,797	3,144	South Class. 166 North 134 Comm. 84	25,548	4,352
1917	23,231*	27,175	23,871	3,927†	24,490	21,264	3,226	19,675	3,043	South Class. 129 North 154 Comm. 96 North 78	25,768	4,352

*Including pupils also enrolled in graded schools. †5 to 16 years.

STATISTICS.—II.

YEARS	Valuation	Rate of Tax-ation	Ordinary Ex-pense of Day-Schools	Expended for all Purposes	Increase	Aver. Cost per Pupil for all Day Schools	Average Cost per Pupil for all Day High Schools	Average Cost per Pupil for all Day High Schools below High School	Average Cost per Pupil in Grades	Average Cost per Pupil in Kindergartens
1897	\$98,520,591.00	.0148	\$471,211.60	\$505,542.36	\$38,867.69	\$27.51	\$56.56	\$25.85	\$23.94	\$25.52
1898	102,125,965.00	.0162	485,280.51	515,131.48	9,589.12	27.24	56.08	25.18	25.63	32.68
1899	112,336,099.00	.016	513,606.26	547,449.29	32,317.81	27.42	58.38	24.53	25.64	30.35
1900	112,043,973.00	.0164	499,719.28	529,987.02	17,512.27	26.64	58.39	23.74	26.38	37.32
1901	114,278,135.00	.0164	517,869.20	553,195.98	23,268.96	27.19	59.46	24.50	26.58	30.67
1902	116,209,015.00	.016	523,335.25	552,277.07	918.91*	26.98	56.08	23.99	23.94	31.19
1903	117,341,581.00	.0176	559,205.05	598,922.22	41,645.15	28.60	58.38	26.77	25.63	32.68
1904	119,348,102.00	.0174	576,150.96	611,606.10	17,683.88	28.78	58.38	26.79	25.64	30.35
1905	120,865,502.00	.017	584,042.17	623,009.17	11,403.07	29.78	58.39	26.71	26.38	37.32
1906	123,226,501.00	.0166	601,122.64	642,059.19	19,050.02	29.91	59.46	26.75	26.58	30.67
1907	124,747,588.00	.016	627,779.35	670,341.28	28,282.09	30.92	62.83	27.53	27.34	31.96
1908	129,323,426.00	.017	677,849.85	730,212.16	59,870.88	33.05	65.91	29.54	29.32	35.36
1909	133,384,202.00	.0164	676,350.48	728,305.64	1,905.52*	33.89	67.04	30.06	29.90	33.75
1910	141,212,607.00	.0164	710,286.05	767,105.56	38,798.92	35.62	69.72	31.80	31.83	31.19
1911	147,302,240.00	.017	754,275.53	815,040.55	47,935.09	36.77	69.27	32.83	32.89	31.76
1912	153,088,968.00	.0172	792,880.17	852,634.69	37,594.04	38.16	66.50	33.88	34.01	31.56
1913	162,393,495.00	.0176	862,906.77	927,886.29	75,251.60	40.70	72.52	35.95	36.33	30.54
1914	172,334,979.00	.0196	902,553.62	967,802.52	39,916.23	40.44	75.87	35.18	35.34	32.75
1915	179,198,586.00	.0204	981,619.74	1,026,577.19	58,774.67	41.36	75.94	35.96	36.00	34.79
1916	188,552,673.00	.02	1,080,007.28	1,072,163.91	46,586.72	43.29	79.51	37.59	37.64	38.74
1917	186,244,956.00	.02	1,080,260.45	1,122,712.20	50,548.31	44.11	88.67	37.34	37.71	32.23

*Decrease

STATISTICS.—III.

YEARS	Teachers' Salaries, Day Schools	Increase	Expended for Books	Expended for Stationery, etc.
1897	\$326,101.42	\$23,484.00	\$12,989.27	\$7,883.58
1898	341,801.90	15,700.48	10,908.51	7,845.64
1899	359,692.68	17,890.78	16,576.02	9,507.28
1900	371,729.61	12,036.93	12,312.71	7,096.44
1901	388,202.72	16,473.11	11,945.81	7,217.35
1902	407,008.81	18,806.09	7,252.57	7,468.56
1903	412,494.01	5,486.20	11,612.11	6,597.65
1904	425,293.02	12,799.01	8,421.11	9,487.90
1905	438,873.94	13,580.92	12,564.54	7,300.46
1906	450,282.11	11,408.17	13,917.57	7,129.09
1907	469,517.23	19,235.12	13,971.85	8,097.88
1908	499,557.76	33,040.53	16,479.25	12,270.84
1909	509,224.03	9,667.27	15,514.37	8,970.24
1910	531,573.85	22,349.82	16,225.17	8,477.82
1911	568,551.34	36,977.49	16,096.21	8,753.01
1912	608,425.76	39,874.42	16,116.30	9,481.47
1913	653,197.73	44,771.97	17,392.82	10,384.64
1914	688,625.91	35,428.18	14,867.86	10,246.56
1915	736,566.50	47,940.59	17,447.19	10,163.38
1916	771,285.45	34,718.95	20,393.24	28,937.03*
1917	811,877.99	40,592.54	17,394.86	31,100.06

*More items included.

**STATISTICS—MISCELLANEOUS (Day Schools)
INSTRUCTION**

Years	SALARIES OF TEACHERS		Textbooks	Stationery, Supplies, etc.
	All	High		
1914	\$689,870.57	\$184,146.07	\$16,465.77	\$22,175.38
1915	738,252.53	199,114.75	18,810.38	24,115.38
1916	771,285.45	215,432.32	20,893.24	28,937.03
1917	811,877.99	226,106.06	17,394.86	31,100.06

Years	GENERAL CONTROL Salary of Superintendents and Executive Officers; other expenses	MAINTENANCE OF SCHOOL PLANT Repairs, replacement and repairs	OPERATION OF SCHOOL PLANT	
			Janitors' Service	Fuel
1914	\$29,429.17	\$29,790.83	\$63,007.61	\$40,338.31
1915	30,823.12	56,694.83	67,975.21	37,588.13
1916	31,958.00	57,818.13	69,636.64	41,057.62
1917	33,391.68	54,421.12	72,959.58	47,969.82

**COST PER PUPIL
INSTRUCTION**

Years	SALARIES OF TEACHERS		Textbooks	Stationery, Supplies, etc.
	All	High		
1914	\$30.912	\$63.762	\$.738	\$.994
1915	31.108	62.107	.793	1.016
1916	32.215	64.174	.872	1.209
1917	33.151	70.09	.71	1.269

Years	GENERAL CONTROL Salary of Superintendents and Executive Officers; other expenses	MAINTENANCE OF SCHOOL PLANT Repairs, replacement and repairs	OPERATION OF SCHOOL PLANT	
			Janitors' Service	Fuel
1914	\$1.319	\$1.335	\$2.823	\$1.808
1915	1.299	2.389	2.864	1.584
1916	1.335	2.415	2.903	1.715
1917	1.363	2.222	2.970	1.953

WORCESTER, MASS., January 8, 1918.

Mr. Chairman and Gentlemen of the School Committee:—

I herewith submit my fifteenth annual report:

ENROLLMENT IN THE PUBLIC SCHOOLS

The total enrollment in all the day schools for the year ending June 29, 1917, was 27,175, a gain over the previous year of 317. The average number belonging was 24,490, a gain of 546. The average attendance was 22,718, a gain of 777. As was to be expected, the greatest gain was in the lower elementary grades. The unprecedented demand for labor and the consequent high wages have caused an actual decrease in the number attending the high schools and the higher elementary grades.

EXPENDITURES

The total expenditures for all public schools, day and evening, was \$1,122,712.20. The cost per pupil in the day schools was \$44.11, an increase over the previous year of eighty-two cents. The cost per pupil in the high schools shows an increase of \$9.16. In the elementary schools there is an increase of seven cents. In the kindergarten and evening schools there is a decrease.

The increase in general prices in the last fifteen years, according to the best expert opinion, has been not less than 125%. The increase in the cost of elementary education per pupil is a little more than 50%. High school education costs 58% more per pupil. This marked falling behind of the cost of education as compared with general prices needs explanation if not apology. The explanation is to be found in the fact that teachers' salaries have not kept pace with the advance in general prices.

In my first report, that of 1903, I wrote a brief history of the Worcester public schools. As I am drawing near to the end of a term of service of fifteen years as Superintendent of Schools, it seems to me well to continue that history and to review briefly the work of the School Committee during those years.

Soon after my election to the superintendency I saw that it was impossible to obtain from the city sufficient funds to support fitly the schools as they were then organized. The buildings were inadequate and the teachers' salaries were insufficient. It seemed necessary to devise some economies that would not lessen materially the efficiency of the schools. With that end in view I recommended giving up the ninth grade of the elementary schools and the fifth year in the high

school. I also recommended raising the age of admission to the first grade from five to six years and to the kindergarten from four to five years. These changes approved by the Committee probably reduced the number enrolled in the schools by more than three thousand five hundred pupils with a consequent saving of not less than \$125,000 annually. Our pupils are as well prepared for the high school and college and for their work in life quite as adequately as before these changes were made. Semi-annual promotions, in which we have followed the practice of most large cities, have effected a considerable reduction in the cost of the schools inasmuch as at least a thousand pupils every year find it possible to make up deficiencies in a half year instead of in a year as formerly. The saving of a half year's time to the pupil is more important even than the saving of money to the city. So also the vacation school in which many pupils make up deficiencies in six weeks which would otherwise require twenty weeks, effects a considerable saving.

Fifteen years ago there was a strong feeling in the Committee as well as in the community in favor of small buildings located near each other. Such a system costs undoubtedly twenty-five per cent. more to accommodate the same number of pupils than a system of large buildings. It has been the policy of the Committee in recent years, to provide additional accommodations by enlarging old buildings rather than by organizing new districts. In fifteen years only three new districts have been organized, viz.: Andover Street, Columbus Park and Rice Square. New buildings have taken the place of old ones at Tatnuck and Burncoat Plain. Other additional accommodations have been supplied by additions to twenty school buildings.

Formerly the light conditions were exceedingly poor in many of our buildings. They are by no means ideal yet. The window area in a school room should be at least one-fifth of the floor area. Very few of the older buildings met these conditions. The window area in many buildings varied from one-fourteenth to one-twenty-eighth of the floor area. This condition may in a considerable degree account for the very poor showing made in respect to eyesight by the young men who have been examined for military service. That New England stands so low in this respect may be due to the slight attention paid to school architecture until recently. The worst conditions in our schoolhouses have been remedied by the insertion of about two hundred windows in the older buildings.

Two of our high school buildings have been much enlarged. These contain ample halls and gymnasiums. After the addi-

tion to the Classical High School was finished, it was deemed advisable to turn the building over to the use of newly organized High School of Commerce. No one now doubts the wisdom of the change.

From 1903 to 1907, the Superintendent had no assistant. In the latter year Miss Alice L. Harris was appointed Assistant Superintendent and assigned to the supervision of primary grades and special schools. In 1912, Mr. John F. Gannon and Mr. Walter S. Young were elected Assistant Superintendents. They supervise grammar grades and the high schools.

In 1903, manual training was offered only to two grades in the high school and the highest grade in the elementary school. Seven teachers were employed. At present it is offered to four grades in the elementary schools. Nineteen teachers are employed. The course in cooking has been extended to cover two years.

Sewing was first introduced into our schools in 1903 and Miss Clara M. Gove was appointed to direct the work. Instruction is given in this branch to girls of the fifth and sixth grades.

Miss Margaret B. Toole was made the first director of writing in 1906. The office of "woman supervisor of attendance" was created in 1910 and Miss Edith M. Dixon was appointed to this office.

During the past year the Committee has elected Mr. Edward W. Wilder, Supervisor of Physical Training. I shall take occasion later in my report to speak of the importance of this position and of its possibilities of development.

Medical inspection, first recommended in 1904, had its beginning in 1906. A school nurse was appointed in 1911 to assist the medical inspectors.

Newsboys' licenses for boys under fourteen years of age were first given in 1906.

During the period under review several teachers' clubs have been formed having for their object better social relations, a higher standard of scholarship, and a greater interest in pedagogical progress. I include in this report statements of the aims and purposes of three of these clubs, the Principals' Club written by a former president, Mr. Richard H. Mooney, the Levana Club written by a former president, Miss Alice H. Belding, and the Elementary Teachers' Association written by the president, Miss Anne L. Cullen.

An open-air school was established at the Lamartine Street school, April, 1909. In 1904, the first clerical assistant in elementary schools was appointed. There are now fifteen of these chosen mainly from the ranks of our teachers. The

amount of clerical work in our schools has increased immensely in the last fifteen years. It has been felt that the principal could employ his time much more advantageously than by giving it to this kind of work. Clerical assistants are assigned to schools having more than six hundred pupils in attendance.

Previous to 1904, the Preparatory schools contained three grades. The courses of study had not been properly systematized and hence pupils who entered the high schools from these schools were not given due credit for the work done in Latin, French and German. Now they are well prepared to take up the work of the second year in the high schools. These Preparatory schools, established in 1898, were the first Junior high schools in the country.

In 1905, teachers for the elementary schools were for the first time selected from a civil service list in which the rank of a candidate was determined by examination and success in teaching. Later this system was extended to include all candidates except applicants for positions in the high schools or as principals.

In 1911, Elizabeth Street school was made an observation school for students at the Worcester State Normal School. Inasmuch as a large proportion of these students are later to become teachers in our schools, the benefit accrues largely to the city.

The North High School, next to the High School of Commerce, the largest of our high schools, was organized in the Salisbury Street building in September, 1911. The large addition to this building was occupied in the fall of 1916. Three of our high schools offer the same courses of study, viz.: the Classical, South and North high schools. The High School of Commerce was organized in September, 1916. This is now much the largest of our four high schools. It enrolls more than forty per cent. of all our high school pupils. It has been found necessary to use the Sycamore Street building to accommodate the overflow from this school.

Courses in agriculture were offered in our high school in September, 1916. I include in this report an account of the work being done in this branch under the supervision of Assistant Superintendent, Mr. John F. Gannon.

The number of pupils enrolled in the day schools has increased from 22,479 in 1903 to 27,175, 1917. The increase would have been much greater but for raising the age of admission to six years and abolishing the ninth grade in the elementary schools.

The introduction of semi-annual promotions has operated

in the same direction by shortening the period necessary for the completion of the course of study for many pupils.

Since April, 1903, the number of Kindergartens has increased from thirteen to thirty-eight. The number of special and ungraded schools for foreigners and for backward pupils has increased from two to twenty-two.

The recent appointment of a physical director who has charge of all physical training and athletics in our schools is the first step, it may be hoped, of a most important advance movement. Hitherto the time given to physical training especially in the grades has been insignificant. Our athletics have resulted in the training of the few to give exhibitions of their power or skill before the many who received no physical benefit therefrom.

It is now proposed to give much more time to physical training in all grades so that it shall have a real significance in the education of the children. Every child not physically disqualified will be encouraged to compete with his equals and to take pride in his gain in power from day to day. His physical training will be a real factor in the promotion of his health and his fitness for whatever service he may be called upon to render in later life.

This scheme of physical training should include, when fully developed, giving the physical director charge not only of physical training and athletics, but also some supervision of the study of physiology and hygiene in the grades and in the high schools, and the direction of medical inspection. Medical inspection has fully justified its introduction into our schools, but it leaves much to be desired for fullest efficiency. In some cities this work is carried on largely by trained nurses. Worcester has fifteen medical inspectors and only one nurse. Where nurses are employed, cases needing attention are followed up in the homes, and parents are required to give them due attention.

Everywhere there is a growing tendency among those who are directing education to give much more time and thought to schemes for improving the health and physical powers of pupils. Recent examinations of young men in respect to fitness for military service have emphasized the need of a radical revision of systems of physical education.

Respectfully submitted,
HOMER P. LEWIS.

THE PRINCIPALS' CLUB OF WORCESTER

"We all are Ready at Thy Pleasure, Well Disposed."

Probably of all the activities promoted for the benefit of the public schools of the city by Superintendent Homer P. Lewis, during his many years as the directing head of the public schools of Worcester, no one thing will give him more general satisfaction in the years to come, than the organization of the Principals' Club.

This club has done a work not only for the principals, directly, but indirectly for the whole teaching force of the city, giving them a new appreciation of their mission and a new revelation of their useful labor. It is a source of inspiration and advancement to its members socially, ethically, intellectually and professionally.

Through its meetings, principals are brought together and made acquainted with one another, and by its means new principals have a special opportunity of learning the ways of the schools from an experienced body of teachers. They soon feel a deep and abiding sense of the responsibility resting upon them in moulding the character of the youth committed to their care by the Commonwealth. The meetings present occasions for comparing views in regard to teaching, for enriching courses of study and for acquaintance with all new educational movements.

By an interchange of experience, in an environment entirely professional, a quickened interest in school management, organization and government is created.

The gatherings also afford a generous relaxation and a most agreeable respite from school labors.

They promote a unity of purpose, a higher view of the duties of teachers, and a better esprit du corps. They break up that feeling of exclusiveness and self-satisfaction which school life is apt to engender, and cause those who participate in their proceedings to return to their employment with a fresh spirit and a renewed energy for their intellectual life.

Common interests and objects of pursuit, create among teachers, peculiar feelings of sympathy and fellowship and a hearty reciprocation of friendly regard.

Working alone, cheered and encouraged by no outside word of praise or approval, stimulated by no hope of glittering prizes of place and power, the teacher finds in the meetings of this club, an inspiration and a benediction. His desires, energies and ambitions are strengthened, and his increasing friendships are a source of mutual appreciation and pleasure.

At the suggestion of the superintendent, a plan and an organization of the club were reported at a meeting of principals, April 28, 1905. The objects of the club as set forth in its constitution, read as follows: (1) To promote good fellowship among its members; (2) to create and maintain a professional spirit; (3) to assist by organized effort such measures as may from time to time commend themselves to this body; (4) and to give support to efforts calculated to improve the public school system.

The club holds eight meetings a year, one in each school month, except September and June. Of these meetings, six are professional in character, while two are wholly social.

The professional meetings are addressed by men and women of reputation in educational and civic life, on subjects which pertain to the objects for which the association was formed.

Each meeting is under the direction of the following sub-committees, appointed by the board of officers: Committee on professional progress, on cultural and special subjects, on civics—the home and school, on school management, on school sanitation, and on school decoration. These committees assume the full responsibility for their respective meetings.

The club is a member of the Massachusetts State Federation of Teachers and is represented in that organization by delegates on the following committees:

Committee on legislation, publicity, editorial, propaganda, nominations, hospitality, curriculum, taxation, salaries, minimum wage, ethical and legal relations, hygiene and physical education, the text-book law, the metric system and statistics.

The presidents of the club have been:

Edward W. Woodward.....	1905-1906
Edward R. Goodwin.....	1906-1907
John E. Lynch.....	1907-1908
Frank A. Andrews.....	1908-1909
Emma A. Porter.....	1909-1910
Homer P. Lewis.....	1910-1911
Edgar E. Thompson.....	1911-1912
Joseph Jackson.....	1912-1913
Emma M. Plimpton.....	1913-1914
Thomas J. Higgins.....	1914-1915
Richard H. Mooney.....	1915-16-17
Frederick W. Vermille.....	1917

Since the organization of the club, the following members have laid their books aside and registered their final reports:

William Henry Bartlett,	July	5, 1904
Thomas William Butler,	September	10, 1905
Margaret G. Carrigan,	November	13, 1907
Ella L. Dwyer,	February	21, 1908
Francis Patrick McKeon,	December	30, 1908
Joseph Chauncey Lyford,	July	25, 1909
Minnie W. Sherman,	February	12, 1910
Owen Henry Conlin,	April	28, 1910
Emma Adelaide Porter,	March	6, 1915
Nellie C. Thomas,	December	10, 1916
Alfred Seelye Roe,	January	6, 1917
Arthur G. Lewis,	March	11, 1917
Mary J. Mack,	April	20, 1917
Lizette M. Draper,	September	28, 1917

In submitting this history of the Principals' Club, I may be allowed to extend to Mr. Lewis, the felicitations of the members, on his approaching retirement from active school life and extend to him the wish which Horace vouchsafed to Augustus:

"Serus in coelum redeas."

THE LEVANA CLUB

The Levana Club, the oldest of the three teachers' organizations, was formed April 29, 1905. This club has consistently and persistently followed the aims outlined in its constitution:—a closer union among women teachers in order to further social, ethical, and intellectual culture; a higher standard of excellence among teachers; and the creation of a deeper sense of the dignity of the profession of teaching.

A greater solidarity, a realization of the strength which comes from united effort, has come to our teaching force as a result of work accomplished by the club. The professional standing of teachers has gained distinctly through its efforts; some of the leading educators of the country have spoken on vital topics under its auspices. The club has from the first actively advanced the work of the Massachusetts Teachers' Federation, which has accomplished much for the professional and economic benefit of the teachers,—consequently of the pupils and other citizens,—of the commonwealth.

Through its dues, sales, lectures, and entertainments, the club has raised and disbursed a considerable sum of money. This has been used in divers ways,—to provide attractive club quarters for its various activities, to engage speakers and instructors for club members and others, to

aid its members during illness, to lend the helping hand in charitable or civic work.

The faithful, conscientious work done by the members of the Levana Club during the last thirteen years must of necessity have its good effect, even though indirect, on the life of our entire community.

THE WORCESTER ELEMENTARY TEACHERS' ASSOCIATION

The Worcester Elementary Teachers' Association, now in its sixth year, is composed of regular classroom teachers. It is a professional organization whose object is "to create and foster a spirit of mutual helpfulness among its members; to advance them intellectually; and by co-operation to promote their material interests and well-being."

Believing that the freedom and material welfare of teachers are not only legitimate, but from every professional point of view, most important questions, the Association has endeavored to secure better conditions for teachers, to the end that the children and the community may enjoy the right to receive from the teachers their highest professional service. Among the problems which have been taken up are pensions, tenure, certification of teachers and salaries. To these questions and others pertinent to the school the Association hopes to direct its energies.

It has been the endeavor of the Association to apply democracy among teachers by giving opportunity to develop and express opinions on subjects on which experience has qualified them to speak. In this manner there has come to the teachers a gain in broadened experience, deeper, wider and a more intelligent sympathy for each other, for the children and for the community.

To Homer P. Lewis, Superintendent of Schools:—

DEAR SIR: In accordance with your request I herewith submit to you my report on Agriculture in the Worcester Public Schools.

The phases of agriculture which ordinarily come within the scope of the activities of a city public school system are Home Gardens, School Gardens, courses in elementary agriculture in the high schools, and large gardens cultivated by schools as a whole or by organized groups of students and teachers.

All these phases of agriculture have been tried from time to time with varying success in the Worcester Public School system. With your permission, I will write briefly concerning each of these.

HOME GARDENS

In my report for 1916, I called your attention to the reasons which the United States Bureau of Education considered as sufficiently important to cause School Boards throughout the country to take an active interest in the home garden movement.

During the last two years, the World War has given added impetus and force to this movement and the year 1918 promises to far excel all other years in the number and value of home gardens. School authorities throughout the entire country are encouraging home gardens as never before. City, State and Federal organizations as well as private corporations and individuals are lending their aid, each in its own peculiar way, to increase food production by means of garden products and thus help win the war and reduce the high cost of living.

During the summer of 1916, our records show that 933 home gardens were begun. Of this number less than one-half were of much value from a productive view point. The educational value, however, cannot be too highly commended and the experience of each year always carries over to the next a knowledge which serves as a distinct asset for the new venture in gardening. The garden is a place in which the mind as well as the body must be exercised if desirable results are to be obtained. Any one can start a garden but it is the thinker and manual worker combined who obtains the best results.

In 1917 the number of home gardens was 2,356. While this number was naturally decreased as the summer advanced, nevertheless, owing to the great demand for garden products, many home gardens were carefully cultivated and proved well worth while for the time and energy expended.

During the season of 1916 and 1917, there was maintained a form of supervision under the direction of the teachers of agriculture in the North and South high schools. This plan, as outlined in my report for 1916, has many good features from an educational view point as it gives the student good field experience and excellent opportunities to supplement the theory and textbook work of the classroom. But after two years' trial I have come to the conclusion that this form of supervision and instruction is not broad enough in its scope, inasmuch as it contains no real power to effect the continuance and productivity of the gardens. To my mind the entire home garden problem is well taken care of by the plan recommended by

the agricultural department of the State Board of Education. This plan, with slight modifications, will make our home garden movement much more efficient. I will explain this plan under the topic "State Aided Vocational Agriculture."

SCHOOL GARDENS

In France, since 1887, no plan of a school building could be accepted unless provisions for a school garden were attached. In *Education*, May, 1901, Henry Lincoln Clapp made the statement that "the absence of the school garden is the most radical defect in our elementary education."

Dr. Hodge, in *Nature Study and Life*, says: "The form a school garden should take, the things planted in it, and the sphere of its influence in the education of a neighborhood, must, of course, vary with local needs and conditions. Where home gardens are lacking or neglected, nothing can so awaken the children to the resources and possibilities of life and nature. Even where home gardens are all that could be wished or desired, the school garden can furnish opportunities for class lessons in soils, soil preparation, fertilization, methods of planting seeds, method of propagating fruit and forest trees by seeds, cuttings, buds, grafts, pruning, thinning fruit, insects and fungus diseases. A wild-flower garden along one fence with a fernery in a shady corner will afford instruction as to the whole life story of these plants and supply nature study and drawing material, always fresh and near at hand, without the necessity of trespassing on private grounds or robbing waysides. I do not wish to be understood as advocating any serious encroachment by the school garden on the playgrounds. Trees are not only an ornament but additions to playgrounds and might well be selected with some regard to instructive and pleasing variety and especially to attracting birds. A list that might meet these requirements will differ greatly with soil, locality, and available space.

"For the fruit garden we should have one or several, if there is room, of each of the standard fruits—peach, pear, plum, apple, quince, grape, cherry—the best for the locality; or several varieties may be grafted into one tree, for experiments in cross pollination. A number of the bush fruits—raspberries, blackberries, currants, gooseberries and strawberries—might furnish instructive materials, but it should be remembered that they ripen during the summer vacation and hence belong more properly in the home gardens.

"The school grounds often afford opportunities for landscape gardening. Flowers may be arranged in harmonious and pleasing combinations of color and against suitable backgrounds of shrubbery. The trees may be grouped naturally to form artistic pictures. The building, if practicable, can be covered with woodbine, ampelopsis, with wistarias and begonias, actinidias and honeysuckles interspersed, and with climbing roses trained about the lower windows. Thus the school may be made an attractive place, supply material for practical instruction, and at the same time elevate the taste of the community.

"Whenever possible, besides the general features described, each child should be given a plot, where he can plant whatever he pleases. This will serve to develop individuality, and the condition of the plot will be the natural index of what a child knows and is able to do by himself.

"By being content to begin in a moderate, sensible way, by planting those things adapted to local conditions and needs, and varieties which will flower or fruit either before the middle of June or after the first of September, a school garden is reasonably sure to grow in favor."

While Dr. Hodge was in Worcester, many of our schools had excellent school gardens. The one at Upsala Street was of such a high order that Dr. Hodge cites it several times in his book. For the last ten years the activity in school gardens has been sporadic. Occasionally, when the interest and zeal of the principal and teachers were aroused, school gardens came and flourished. But because of other interests and no well defined policy, nothing of a permanent nature in school gardens exists at present in the Worcester school system.

Last year the teachers and pupils of Woodland Street conducted a large school garden in an empty lot near the school building. This garden contained 8,600 square feet. One-half was planted with potatoes, and the remainder with beans, corn, cabbage, beets and tomatoes. The principal reported that this garden was well worth while, both from an educational as well as economic viewpoint, and plans to continue it next year.

It seems to me that the present year, because of war conditions, is a most auspicious one to resurrect the school garden plan in Worcester. I do not think that it is advisable to force principals and teachers to take on garden work. A modest beginning, however, could be made this year by co-ordinating the work in the grammar schools with the regular agriculture in the high schools. I suggest that this year at least the grammar school work in agriculture be entirely of a

voluntary nature. Principals of grammar schools could ask the regular agriculture teachers for advice and aid in the school garden projects.

There are several reasons why this work should be voluntary this year. Many schools because of their location and the living customs of the neighborhood are not suitable for garden activities. Garden propaganda must be carefully introduced before any start for successful gardens can be made in some city sections. Again, this year is one of many and varied outside activities, and teachers and pupils are doing a great deal besides their regular school work. Consequently, during the coming season it seems that extra work should not be forced on them. If, however, the school garden has its initiative in the school itself and agencies practical and educational are asked to co-operate, the results are sure to be more valuable and lasting than if high school agricultural instructors are assigned to go from school to school demonstrating and lecturing on school gardens.

HIGH SCHOOL AGRICULTURE

By a vote of the Worcester School Committee, February, 1916, agriculture was made an elective study in the school curriculum. This course is as truly educational as any other subject. The student receives credit for his work and such credit is considered as important as that received from any other study. The object of the course when first established was not to make farmers of the boys and girls. Farmers are not made out of children unless they are willing to be farmers. At present courses in agriculture are taught in the South, North and High School of Commerce. Near each school is a large demonstration plot in which the teachers are able to demonstrate in a practical way certain parts of the course. Each student has a plot of his own, for which he is held responsible. His rating in the course is determined not only from his text-book knowledge but also from the practical manner in which he conducts his garden plot and obtains results. It is hoped that these high school garden plots will serve as centers from which a large and flourishing system of home gardens will radiate.

The classes in agriculture are taught by teachers regularly employed as high school teachers and by an agricultural teacher who is under the supervision of the agricultural department of the State Board of Education.

STATE AIDED VOCATIONAL AGRICULTURAL EDUCATION

The Worcester course of study for high school students of agriculture was approved by the State Board of Education, September 6, 1917, and adopted by the Worcester School Committee at its meeting Friday, September 7, 1917. Preliminary organization and arrangement of classes were completed so that work began Monday, October 1, 1917. Members of the classes in agriculture who were unable to satisfy the vocational requirements were permitted to continue the study of agriculture as an adjunct to their course in biology. This was allowed because some students had completed a half year's work in agriculture and were desirous to finish a year's work.

The following excerpts from Bulletin No. 72 of the State Board of Education fully explain the present conditions under which agriculture is taught in the Worcester High Schools.

AUTHORIZATION

"The School Committee is hereby authorized to establish and maintain a state-aided vocational agricultural department in connection with the high school, in accordance with Chapter 471 of the Acts of 1911 and any acts in amendment thereof or dependent thereon."

CONTROL

"Chapter 471 of the Acts of 1911 and local ordinances have invariably vested control of departments in school committees."

"The school committee designates the superintendent of schools as its executive officer."

"The school committee may transact business relating to agricultural department at its meetings where other business receives attention; but it is required to keep in one place for convenient reference, a separate and complete record of all its acts which affect the agricultural department."

ORGANIZATION

"The following plan of organization has the approval of the Board of Education. It provides for the distinctive management of schools and departments with important adaptations to the needs of each. It also outlines the work of the advisory committees which the law requires boards of control to appoint 'to counsel with and advise' them concerning the efficient training of their agricultural pupils."

"The superintendent of schools is the executive officer of the school committee in the administration of a department, and not merely for the purpose above stated of official communication between his committee and the Board of Education."

"The duties of the superintendent of schools include nomination of teachers, and making records and reports required by the Board of Education."

"The agricultural instructor is chosen because of his liking for country life, his demonstrated ability in practical farming, his salutary influence upon boys and young men fourteen to twenty-five years of age, and his special qualifications for the teaching and supervision of home farm projects."

"The superintendent of schools prior to nominating an agricultural instructor, confers with the agricultural representative of the Board of Education, following the plan of 'approval in advance.'"

"The agricultural instructor is responsible for the conduct and the efficient agricultural training of the pupils in his department."

"A department employs more than one special agricultural instructor, depending upon the enrollment of pupils."

"An instructor in a department must have an all-round knowledge of farm work and of the sciences applicable thereto. If there are two agricultural instructors in a department, a degree of specialization is possible and desirable."

"An agricultural instructor is not permitted to teach non-agricultural subjects, nor to perform any other non-agricultural school work."

"Ability to co-operate in farm bureau work with adult farmers is of fundamental importance. Through such work the instructor comes to know the farming of his vicinity as he could not otherwise hope to do, and no man can be expected to teach farming in a community unless he knows the farming of that community."

"The advisory committee of a department is made up of the best practical farmers, varying from five to fifteen in number, from the neighborhoods from which pupils are expected."

"Each committee has at least one woman member, if there is a capable woman farmer in the vicinity, and often the secretary of the committee is a woman."

"The superintendent and the special agricultural instructor are expected to meet with the committee, unless requested not to do so on particular occasions."

“The advisory committee serve without pay, and are generally under no expense for travel since they usually live near the department.”

“An advisory committee usually organizes for business with a chairman and a secretary. In some cases standing committees are appointed such as committees on dairying, fruit growing, and the like. Record of the attendance at meetings and of the action is kept.”

“Members may be assigned to visit school in turns, and to report their impressions of the policy of the school and the efficiency of the individual members of the staff at meetings of the full committee. A director or agricultural instructor may be invited to sit with the whole committee or with a standing committee. The members are busy people and generally without experience in teaching. Perhaps their best service is rendered when directors and instructors take the initiative in pointing out problems confronted and difficulties to be overcome. Committee members are urged to visit and pass judgment upon the home project or other agricultural work of the pupils.”

“No reports or recommendations are official until voted by a majority and transmitted in writing by the secretary to the School Committee.”

The following advisory board of the Department of Agriculture of the Worcester High Schools was elected:

Mrs. Louis H. Buckley, Messrs. J. Lewis Ellsworth, George F. Booth, H. Ward Moore, Arthur E. Hartshorn, Mark O. Carroll and Lars Petterson.

On July 10, at a meeting called in Room 12, City Hall, the Advisory Board met and organized as follows: Chairman, J. Lewis Ellsworth; Secretary, Mrs. Louis H. Buckley. During the summer, the Advisory Board, in company with the Superintendent and Assistant Superintendent of Schools, made a general inspection of the agricultural activities of the high school students. Individual members of the board have kept in touch with the work and have invariably reported that the agricultural work was being conducted along lines which met with their approval.

“The agricultural department in a high school may be organized with 50 per cent. given to regular high school subjects.” (Pamphlet No. 72, State Board of Education.)

Since October 1, 1917, our schools have a legally incorporated state-aided vocational department in the North High School and in the High School of Commerce. This department is the natural evolution of the courses in agriculture which were given during 1916 and 1917.

At present the plan is to have the students of agriculture take regular high school work before 11 A. M. The remainder of the day is devoted entirely to agriculture. In this way the requirements of the State Board of Education are satisfied and the student is provided with an opportunity to do enough regular high school work so that he may obtain a high school diploma which will aid him greatly in seeking admission to higher institutions of learning, should he wish to attend one after his high school course.

During 1916 and 1917 the course in agriculture was a one-year course. At present the agriculture course is planned for two years. If demand warrants, a four years' course in agriculture similar to the plan as outlined in the rules and regulations for such work recommended by the State Board of Education may be adopted.

It is my belief that there is an opportunity in the high schools of Worcester to have the academic work run parallel with the vocational agriculture without either suffering because of the other. The next few years should decide this question.

It is not supposed that every boy and girl should be interested in agriculture and enter the course. On the contrary, it is the duty of the several principals to see that some pupils do not attempt agriculture. It does seem, however, that our high schools should furnish several good-sized classes of boys who will be greatly benefited by taking up the study of agriculture in their high school years and at the same time derive considerable valuable experience and profit from their projects in market gardening, poultry and fruit projects.

Under your guidance, I have organized the work for the year 1918 as follows:

The academic work will be given to the pupils of agriculture by the regular teachers of our high school staffs. Agriculture and related subjects will be given by Mr. Herbert R. Kinney and Mr. Clarence E. Lee. As you know, both have been recommended by Mr. Rufus W. Stimson of the State Board of Education. Mr. Kinney has proved his value as a practical instructor in the large emergency gardens which the Worcester school department conducted so successfully last year. His work next year will be along analogous lines, with short unit courses which he will give from time to time to any who may wish to take the same. Mr. Lee comes to us from Concord, Mass., after several years of successful teaching and co-operative work with the farmers of that vicinity.

Under these two able experts, the pupils of the Worcester high schools have an opportunity to avail themselves of a

form of education which will aid them greatly not only in an educational way but also in a material way. Added to these advantages will also come the great value of the home and farm project which should not only aid the students but also the entire family.

To my mind Worcester is entering into the plan of State-aided vocational agricultural education at a most opportune time. Never in the history of our country has there been such a demand for food production and for the care and conservation of agricultural products.

It is now universally agreed that the food question will be the greatest factor in winning the war. For every man at the front we must have a producer at home. The agricultural programme which the Worcester school authorities have planned for 1918 will measure large not only in educational value, and reduction of the high cost of living to individual families; but also in increasing the amount of food produced and thus materially giving aid to our great and glorious country in winning the war, which is the principal work for each and every American citizen.

Let us hope that the season of 1918 will close with results which will prove that the Worcester School Committee exercised admirable foresight and wisdom in adopting this form of education, which is of value to pupil, family, state and nation.

Respectfully submitted,

JOHN F. GANNON,
Assistant Superintendent.

Mr. Homer P. Lewis, Superintendent of Schools:—

DEAR SIR:—The work of the Supervisor of Attendance for the past year has proceeded along the same line as in previous years,—that of trying to make the co-operation between the home and school closer and more helpful to both the child and the teacher. This is done by visiting the child's home and talking with the mother about the child's development and interests and making her understand what the school is trying to do for him and what effect regularity of attendance, punctuality and physical well-being have upon his progress. Then a report is given the teacher with suggestions as to what seems most to appeal to the child. Many times it is apparently a great shock to the mother to be told that Johnny has been late 14 times when she was sure that he had been late only once in a

while. A friendly call brings home delinquencies much more forcibly than a cursory glance at the term report which often is scarcely noticed and very frequently cannot be read by the illiterate parent.

Every day adjustments, often very simple, are made which improve the attendance and help the child to get along in school with the minimum amount of difficulty. A case in point is that of Anna K. who told her teacher one day that she would hereafter have to be absent every morning to take her little brother to the hospital to have his neck dressed. The mother is sickly and Anna is the oldest child and therefore the responsible one of the family. She is in the sixth grade and absence every morning for an indefinite number of weeks meant that she would probably have to repeat the grade. A visit was made to the hospital and a consultation held with the doctor. The result was that the District Nursing Society was asked to send a nurse to the home every day but the two that it was necessary for the child to report at the hospital. It was arranged to make one of those days Saturday, so by this small adjustment Anna's absent marks were reduced from 5 to 1.

A Psychological Clinic has been held monthly at the City Hall with a physician from the State Hospital and a physician and a psychologist from the Massachusetts School for the Feeble Minded in attendance. Ninety children have been examined at these clinics. There has been invariable satisfaction on the part of the parents with the advice given at the clinics, for the parents usually attend with the children, watch all proceedings and with their own eyes and ears note the children's responses to questions and then talk the matter over with the examiners. Very frequently unsuspected physical defects which can be remedied are discovered at these clinics.

An illustration of what these conferences may mean to the community is shown in the case of Margaret L. Margaret is now 17, has been troublesome for four years, defiant of parental authority and very unstable and susceptible to influence, especially in the wrong direction. She was examined at the clinic during the past year and was found to have the mentality of a child of 12. The mother was warned that she needed the closest kind of supervision and must be carefully guarded. Some time after, Margaret had been more than usually trying and a neighbor had commented to the mother on "what she would do to her." The mother replied, "See here, Mrs. X., I know she ought not to act like that but you see I've had her examined at the City Hall and they said her brain was only 12 years

old like Katie's and that I must treat her as if she was that age and make allowances for her and see that nothing bad happened to her. They said I mustn't whip her and I'm not going to." If this gospel can spread itself among the people,—that there are in our midst many children who will never be anything but children mentally even though bodily they are men and women, and that they must be watched over and protected as such by their parents and the community, a great social responsibility will in time be built up and the problem of the feeble minded will be helped immeasurably.

Six children who could not be cared for at home and in our ungraded classes have been sent to Waverly and one to the State Hospital for Epileptics at Monson. The type of child whom it seems necessary to send away for care and training is that of James T., a boy who behaved fairly well while under the close supervision of the teacher of an ungraded class but who was the despair of his parents while not in school, for he stayed out nights, sleeping in barns or cellars and took great delight in annoying or hurting other children of the neighborhood. One day he followed a little girl home from school along a lonely path and threatened to shoot her, meanwhile brandishing a revolver. When the child reached home she was hysterical and her parents were naturally most incensed.

In cases where it has seemed necessary to send children to ungraded classes at some distance from home, adjustments often have had to be made, as in the case of Mary and Florence M. At noon these children go to a Day Nursery for their dinner and incidentally get a far better one than they would get at home. In this case the father, realizing the situation, is paying the small amount required by the Day Nursery.

It is rather gratifying to have an increasing number of parents coming to the office to talk over their problems and ask advice, showing that they look upon the visitor as a friend rather than as an officer of the law, and displaying a most receptive and co-operative attitude.

Respectfully submitted,
EDITH MONTGOMERY DIXON.

REPORT OF SPECIAL COMMITTEE ON PRIVATE SCHOOLS

Education is primarily a function of the state. Responsibility for the schools rests ultimately with the civic authority, just because a high standard of intelligence and virtue is

fundamental to a democratic system. What this standard shall be is no matter of choice on the part of individuals or of subordinate groups of individuals within the State. A democratic state and a progressive and high-principled public school system are mutually self-dependent, self-evident. Without such standardization through the central civic authority, confusion and demoralization might easily wreck the happiness and welfare of the individual homes and individual communities that make up the state.

The standards for the schools are fixed by the state, but their administration is very largely delegated to the local community; though with such fundamental state provisions as shall insure the democratic well-being of the state as a whole. This responsibility, delegated to the city and the town, is an off-set to the expense incurred in the case of such individual parents or institutions as, of their own accord, choose to bear the cost of educating privately their own children. In the case of Worcester, taking the bare statistics without interpretation, about 19% of the community's children are so educated. Under this state provision the public school system of Worcester becomes in some measure responsible for the character of the fourteen schools of elementary grade that share in any degree the school population here. At least it becomes responsible for some annual inspection of such schools.

Under the guidance of Superintendent Lewis this duty has, this year, been performed through a sub-committee of the School Board, specially appointed for this purpose. This special committee begs leave to submit this brief report.

All the private institutions for the definite training of Worcester's youth in citizenship seem to be meeting the bare requirements of the Statute at least. Of the Bancroft School comment is unnecessary. It has every opportunity to do good work that adequate equipment and personality, both on the part of teachers and of pupils, can furnish. It ought to be efficient, and it is so. The opportunity to visit it is always a privilege.

The Adventist school and the Greek school have as yet less foundation for abundant existence, but their work may at present be regarded as within the letter of the law. If parents choose to segregate their children from the vastly larger opportunities of the public schools, there is nothing to be said. The responsibility is theirs, within the limitations of the law.

Among the eleven so-called Parochial Schools there is, naturally, some diversity of resources as to physical equipment, teaching power, and qualities to build upon in the

pupils. In the far-reaching public school system this diversity can be, and is, very largely equalized. But marked progress from year to year is to be noted in these schools, and even a rapid passage from room to room reveals an excellent spirit and much excellent teaching. Several comparatively new, well-constructed parish school buildings are a credit to the churches that have provided them, and fill a definite place in their respective sections of the city. We might wish that a larger proportion in these schools continued through the upper grades and to a high school course, either under the parish or the public school system. The public high school records show that those scholars who do so continue maintain a good standing.

From this system of church schools, paralleling the public school system as it does very largely, at least through the elementary grades, there are some things to be learned, especially by those auxiliary agencies of education, the homes and the non-Romanist churches. Reverence, responsiveness to accepted authority, prompt and cheerful "conformity to some sort of law," are high qualities of character, too little cultivated by whole classes of people among us. Unless the homes and the free churches in the community at large learn better to co-operate with, and especially to supplement the public schools in establishing right ideals of loyalty and high moral principle as based upon the compelling power of intelligent, genuine religion, we shall have to rely continuously, to some extent, upon the competition of private schools for a part of the necessary framework of enduring and worthy citizenship.

The public schools assume the state to be the source of standards of intelligent citizenship, as developed in the schools. They must also be able to assume the co-operation of the intelligent home and the aspiring church. Some progress toward such co-operation is apparent. But the slow results make the School Board appreciative of any right incentive that the church schools may be able to bring into the higher life of the community, while it recognizes the superior advantages of the city's schools, in most respects, for the bringing out, the educating, of disciplined, dependable, free character in the coming generations.

ATTENDANCE IN PRIVATE SCHOOLS

	No. of Pupils Enrolled since Sept., 1917	Average At- tendance since Sept., 1917	No. of Rooms Occupied	Average Num- ber of Pupils	No. of Teachers
Academy of the Sacred Heart, Gage St.,	734	661	17	44	17
Ascension School, Vernon St.,	704	553	14	40	16
Bancroft School, Elm St.,	170	145	12	14	13
Holy Family School, Orange St.,	408	345	8	51	8
Holy Name of Jesus School, Illinois St.,	643	625	11	58	13
St. Anne's Orphanage, Granite St.,	406	225	5	46	8
St. Anthony's School, Green St.,	140	129	4	35	4
St. John's School, Temple St.,	260	248	7	37	7
St. John's School (Girls), Temple St.,	471	394	8	59	9
St. Joseph's School, Plantation St.,	770	720	14	55	15
St. Mary's School, Richland St.,	762	748	12	64	13
St. Paul's School, Chatham St.,	364	342	9	40	9
Seventh Day Adventist School, Austin St.,	11	10	1	11	1
Greek-American School, Trum- bull St.,	20	19	1	20	1
	<hr/> 5,863	<hr/> 5,164	<hr/> 123	<hr/> 48	<hr/> 134

Mr. Homer P. Lewis, Superintendent of Schools:—

DEAR SIR:—In accordance with the annual custom I herewith submit for your approval the report of the attendance officers for the year ending December 31, 1917.

During the year the attendance officers made 4,371 visits to school buildings and investigated 10,304 cases of absences. These investigations disclosed 323 cases of truancy, a reduction of almost 20 per cent. in comparison with 1916.

Twenty-five habitual truants and one habitual school offender were brought before the court during the year and were dealt with as follows:

Fifteen truants and one school offender were committed to the training school; seven truants were placed on file; one on probation and two were given into the custody of the State Board of Charity as neglected children.

During the year this department prosecuted eight parents of children for failing to cause their children to attend school as the law directs. Of these prosecutions, two were fined, five, after continued hearings and after giving assurance to the court that the offence would not be repeated, were placed on file, and one was discharged. We also prosecuted two cases of failure to attend evening school, one being fined, the other placed on file. Criminal proceedings were also taken against the management of a local theater for admitting children under fourteen years of age during the hours that the public schools were in session. This prosecution, which resulted in a fine, had a very salutary effect upon the section in which this theater is located.

SUPERVISION OF NEWSBOYS

The supervision of newsboys continues as in former years. Eighty violations of this statute were dealt with as follows: Forty-two written notices were sent to parents of children who were violating this law for the first time; three second offenders were referred to the juvenile probation officer and one persistent offender was brought before the court.

The remaining thirty-four were disposed of through this office.

Respectfully submitted,

R. J. KERWICK,
Chief Attendance Officer.

WORCESTER HIGH SCHOOLS

GRADUATING EXERCISES

CLASS OF 1917A

AT CLASSICAL HIGH SCHOOL

FRIDAY, FEBRUARY 2, 1917, AT 3 P. M.

PROGRAMME

1. MUSIC, Overture: "Morning, Noon and Night in Vienna" Suppé
WORCESTER HIGH SCHOOL ORCHESTRA
2. ESSAY, "Education as an Antidote for International Brutality"
JULIA MURIEL ALBERT, HIGH SCHOOL OF COMMERCE
3. ORATION, "A Debate: Resolved, That the United States Should Grant
the Philippine Islands Independence by the Year 1930"
FRANK BIRGER HANSON, NORTH HIGH SCHOOL
4. ORATION, "The Evolution of the Pistol"
BURTON SAMUEL HAYER, SOUTH HIGH SCHOOL
5. ORATION, "Some Criticisms of the Adamson Bill"
RICHARD THOMAS FRANCIS HOEY, CLASSICAL HIGH SCHOOL
6. MUSIC, Selection: "The Blue Paradise" Eysler and Romberg
WORCESTER HIGH SCHOOL ORCHESTRA
7. ADDRESS
REV. CHARLES B. ELDER, *Vice-Chairman of the School Committee*
8. MUSIC, "Sobre La Plaza" Rollinson
WORCESTER HIGH SCHOOL ORCHESTRA
9. PRESENTATION OF DIPLOMAS by His Honor MAYOR PEHR G. HOLMES
10. MUSIC, "America"

WORCESTER HIGH SCHOOLS

GRADUATING CLASS

FEBRUARY 2, 1917

CLASSICAL HIGH SCHOOL

Edward Joseph Feeherry
Alsie Evelyn GoodnowRichard Thomas Francis Hoey
William Alton O'Toole

PARTIAL COURSE

Joseph Pemstein

HIGH SCHOOL OF COMMERCE

Clara Fannie Abelson
Julia Muriel Albert
Gösta Anton Bergwall
Edythe Etta Cobane
John Kenneth Fogerty
Emma Jeannette French
Raymond Blackie Hatch
Frank William Hohler
Ebba Matilda JohnsonStella Veronica Maloney
Agnes Anna Murphy
Irene Frances McCann
Bernice Madeline Mort
Helen Gertrude O'Connell
Saul Clifford Quinn
Mary Gertrude Ryan
Helen Christine Silven
Marjorie Isabelle Wilson
Edward Joseph Witt

SOUTH HIGH SCHOOL

George Nelson Buell	Eleanor Marion Johnson
Anna Louise Callan	Nora Theresa Keating
Helen Marie Cummings	Mary Jane King
Beatrice Hartwell	Edward Philip Reidy
Burton Samuel Hayer	Frederick William Ricker
	Ruth Farnum Wall

NORTH HIGH SCHOOL

Franklin Elliott Barrett	Frank Birger Hanson
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WORCESTER CLASSICAL HIGH SCHOOL

GRADUATING EXERCISES

CLASS OF 1917

CLASSICAL HIGH SCHOOL HALL
(CORNER IRVING AND CHATHAM STREETS)

FRIDAY, JUNE 29, 1917, AT 3 P. M.

PROGRAMME

MUSIC

- | | |
|--|------------|
| (a) ORCHESTRA, March, "Stars and Stripes" | Sousa |
| 1. ORATION, "The Trend of the World Toward Complete Democracy" | |
| JACOB TASHAMKA | |
| MUSIC | |
| (b) PIANO SOLO, "Staccato Etude" | Rubinstein |
| HENRY BERMAN | |
| 2. ESSAY, "What the American Women Can Do to Help the United States
in the Present War" | |
| CONSTANCE YVETTE LETOURNEAU | |
| MUSIC | |
| (c) ORCHESTRA, Overture, "Orpheus in the Underworld" | Offenbach |
| 3. ORATION, "Reconstruction After the War" | |
| MAX WOLFF | |
| MUSIC | |
| (d) VIOLIN SOLO, "Salute D'Armour" | Elgar |
| HANNAH FRANCES MANOOGIAN | |
| 4. ADDRESS | |
| REV. HENRY STILES BRADLEY, D. D. | |
| MUSIC | |
| (e) ORCHESTRA, "Fifth Nocturne" | Leybach |
| 5. PRESENTATION OF DIPLOMAS by MR. U. WALDO CUTLER | |
| CLASS SONG | |

Feiga's Orchestra

HONOR LIST

SECOND GRADE

Constance Yvette LeTourneau	Jacob Tashamka
Max Jacob Wolff	

CLASS SONG

Oh, Classical, once more we bring to thee our tribute fair,
 Let far and wide our praises ring to show the love we bear.
 Our Class of nineteen seventeen brings loyalty to thee,
 Our purpose firm we here declare steadfast and true to be.

In after years, when High School days are in the misty past,
 We'll not forget the friendships dear which held us to the last.
 The Red and White, our banner bright, to us will ever be
 A sign of dearest memories of happy days with thee.

THE CLASSICAL HIGH SCHOOL

GRADUATING LIST

CLASS OF 1917

Helena Catherine Barron	Madelyn Dorothy Green
Marian Ruth Bean	Esther Frances Grover
Eunice Isabel Beaudette	Catherine Eunice Hall
Joseph Beaudoin	Ernest Hansen
Henry Berman	Madeline Marie Hayden
Irving Ellsworth Bigelow	William Thomas Heagney
Miles David Blanchard	Mildred Phyllis Henry
Dorothea Bliss	Marion Louise Higgins
William Francis Bowen	George Ambrose Horan
Abraham Bradley	Elizabeth Mary Horgan
Anna Frances Callahan	Joel Bernard Horowitz
Frances Elizabeth Callery	Wilfred Consitt Howe
John Loyal Carney	Israel Nathan Jasper
Harry Corash	Helen Florence Kaffeman
Ethel Cotton	Charles Kangisser
Donald Cragin	Anne Rachael Keeley
Alice Elizabeth Dapper	Ruth Elizabeth Keeley
Marjorie Day	Catherine Frances Kelley
Margaret Mary Donahue	Harry Norton Kelley
Everett Carroll Donnelly	Irene Estelle Kilmer
Abigail Eleanor Mary Doran	William Thomas Lee
Francis John Doran	Neil Francis Leonard
Francis Martin Dyer	Constance Yvette LeTourneau
William Hersch Ecker	Louis Solomon Levensohn
Evangeline Eells	Martha Eveline Libby
Alice Gertrude Fallon	Mary Magdalene Loftus
Nathaniel Aaron Feingold	Catherine Theresa McCabe
Marguerite Gloria Fernane	Margaret Josephine Mary McCarthy
Dorothy Fish	Virginia McGown
Richard Edmund FitzGerald	Margaret Agnes McGuinness
Ellen Frances Foster	James Francis McKenna
Gladys Friedberg	Mary Florentine McNamara
Mildred Viola Gage	Alfred Whittlesey Mahan
Dorothy Irene Gilbert	Beatrice Virginia Manning
Louis Francis Gleason	Hannah Frances Manoogian
Raymond Ellsworth Goodhue	Charles Burton Mascroft
Ruth Adams Graham	Mary Rita Melican
Abraham Greenberg	Anna Ranghild Meyn
Archie Greenberg	Frances Sue Migauckas

Eleanor Caroline Miller
 Stanley Baker Milton
 Catherine Gertrude Murphy
 Frederick Lawrence Murphy
 Bertha Madeline Naphen
 Frank Kenneth Newkirk
 Samuel Nicoll
 Charles Stanley Nutt
 Carl George Nylin
 John Murray O'Connor
 Edward Paul O'Day
 John Leary O'Donnell
 Marie Ferris O'Donnell
 Henry Francis O'Malley
 Viola Eliza Page
 Agnes Evelyn Quinn
 Helen Muriel Richardson
 Sarah Josephine Rogers
 Marion Frances Rowe
 Kathryn Evelyn Saunders
 Abigail Farwell Scott
 Michael Hubert Selzo
 Louis Mark Shack
 Francis Edward Shannon

John Redmond Shannon
 Gladys Shaughnessy
 Mary Gardiner Howard Short
 Harry Charles Shulman
 Henry Macey Silverman
 Herman Slobin
 Ruth Goodwin Smith
 Beatrice Marie Antoinette Soulliere
 Gladys Sperry
 Mary Gertrude Splaine
 Florence Elizabeth Splane
 Arnold John Jerome Statz
 Gertrude Agnes Sullivan
 Mary Frances Sweeney
 Jacob Tashamka
 Chester Joseph Toohil
 George Frederick Trulson
 Foster Cook Whidden
 Evelyn Mary White
 Lillian Cecelia Wickstrom
 Mary Francis Williams
 Max Jacob Wolf
 Jeanette Ethyle Ziskin

PARTIAL COURSE

Elisabeth Chamberlain
 Anna Patricia Foley
 William Irving Goldberg
 Agnes Barbara King
 Francis Joseph McCarthy

Anna Catherine Moran
 Ruth Elizabeth O'Hara
 Florence Gwendoline Siegel
 Ruth Louise Stewart

WORCESTER HIGH SCHOOL OF COMMERCE

GRADUATING EXERCISES

CLASS OF 1917

HIGH SCHOOL OF COMMERCE HALL

FRIDAY, JUNE 29, 1917, 8 P. M.

MARCH, "Hall of Fame"

Allen

HIGH SCHOOL OF COMMERCE ORCHESTRA

1. ESSAY, "Sacrifice"

ELEANOR TANKARD

2. ESSAY, "Chopin, Man and Musician"

EVELYN ROSE ROUSSEAU

MUSIC

CHORUS, "Praise Ye the Father"

Gounod

THE CLASS OF 1917

3. ORATION, "The Democracy of Edwin Markham"

CARL WILFRED SUNDIN

4. ESSAY, "A Modern Martyr"

EDITH DOROTHY CLARK

- MUSIC
- SELECTION, "Miss Springtime" Schwarzwald
HIGH SCHOOL OF COMMERCE ORCHESTRA
5. ADDRESS, WALTER S. YOUNG, *Assistant Superintendent of Schools*
6. PRESENTATION OF DIPLOMAS
HOMER P. LEWIS, *Superintendent of Schools*
- MUSIC
- CHORUS, "TO COMMERCE"
CLASS OF 1917
- MARCH
HIGH SCHOOL OF COMMERCE ORCHESTRA

SCHOOL SONG

TO COMMERCE

Words by R. R. Greenwood Music by Charles I. Rice
(Copyright, 1916, by Worcester High School of Commerce)

I

Give a rouse and a cheer
And a paean of vict'ry sing;
Swell the song with voices clear
Till the firmament doth ring
To Commerce! To Commerce! To Commerce we sing!

II

We be sons and daughters staunch
With the spirit of our youth,
And our banner we will launch
In the glowing light of Truth
To Commerce! To Commerce! To Commerce we sing!

III

We will stand and hold the field
Tho' the battle rages long,
With no blot upon our shield
While we shout again the song
To Commerce! To Commerce! To Commerce we sing!

IV

Let defeat or vict'ry come
We will cherish with a will
The love that makes us one,
While our cheers shall echo still
To Commerce! To Commerce! To Commerce! To Commerce!

HONOR LIST

FIRST HONOR

Edith Dorothy Clark
Helen Isabel Husband

Estelle Rosanna Gentese
Lillian Nelson

SECOND HONOR

Dorothy Mae Hayden
Beatrice Pearl Rousseau
Blanche Fidelia Small

Carl Wilfred Sundin
Eleanor Tankard
Ethel Lilas Willard

HIGH SCHOOL OF COMMERCE

"FORWARD"

September 1913—June 1917

Bertha Louise Adams	Vera May Hopkins
Sooren Simon Alexanian	Alice Marilla Hudson
Dorothy Anna Anderson	Nathan Wolf Hurwitz
Florence Irene Anderson	Helen Isabel Husband
Winthrop Raymond Atwood	Charles Cleon Hutchins
Addison Wilbur Barr	Margaret Bertha Ingalls
Alva Genevieve Benson	Florence Sofia Jacobson
Gustaf Eric Berger	John Towers Jacobson
Teckla Evelyn Bergstrom	Sadie Lena Jaffe
Louis Harry Berkovitz	Elsa Ingeborg Louise Johnson
Cecelia Rose Agnes Bianchi	Hilda Victoria Johnson
Charles Weeks Bigelow	Hildur Louise Johnson
Arthur William Bloom	Doris Thelma Jones
Celia Winifred Bottcher	Mabel Marie Jones
George Everett Boylan	Ellen Frances Kane
Chester Earl Brooks	Martha Gertrude Keirstead
Henry Brunell	Margaret Frances Kelley
Ellen Pauline Casey	Mary Agnes Kelly
Herman Sidney Chase	Mary Frances Kirby
Edith Dorothy Clark	Eva Kulin
Maurice Albert Cohan	Robert Edward William Larson
Mary Emma Coleman	Charles Bragg Lewis
Muriel Frances Collie	Caroline Graton Livermore
Roy Stanley Coxon	Elna Louise Ljunggren
Israel Zelig Crock	Amy Christine Ljungquist
Rose Beatrice Davidian	Joseph Daniel Looney
Ethel Ruth Davidian	Anna Theresa Loughlin
Jane Ellen Donohue	Josephine Frances Lowrey
Dorothy Annette Duggan	Anna Rose Mallozzi
Norma June Dukett	Ethel Christina Malm
Lillian Alma Dupre	Catherine Marion Maloney
Marion Durgin	Adeline Mary Massei
Gunhilde Amelia Ekstedt	Jacob Matzkin
Ruth Eileen Farnon	Anna Frances McTigue
Irene Jessie Faucher	Irene Agnes Menanson
Dorothy Gertrude Foley	Julia Mintz
Mary Lucy Foley	Margaret Helen Molloy
Dora Anna Frostholm	Lillian Nelson
Mildred Gladys Fuller	Mary Evelyn Elizabeth Norton
Estelle Rosanna Gentesse	Edith May Frances Palmer
Louise Marble Gibson	Louis Papazian
Marguerite Malvina Giguere	Lawrence Walter Parsons
Rose Ida Glick	Stanley Morse Patridge
Nathan Goldstein	Elsie May Perkins
Ruth Edith Gorman	Rudolph Oscar Person
Mildred Elizabeth Graf	Ellen Elfreda Peterson
Violet Janet Green	Lillian Adelle Pratt
Florence Agnes Margaret Guilmette	Stella Proodian
Ethel Doris Hamill	Grace Evelyn Putnam
Eldora Fuller Harcus	Lorena Gertrude Rabidou
Madeleine Veronica Harrington	Beatrice Pearl Rousseau
Dorothy Mae Hayden	Evelyn Rose Rousseau
Chester Frederick Hays	Josephine Louise Ryan
Lillian Mae Hilton	Mary Elizabeth Celia Ryan

4. SONG, "The Vision" Faure
Soprano Solo, ALICE DIANA CROSSLAND
Violin Obligato, WILGER LANCASTER JONES
5. ESSAY, "Women and the War"
PAULINE GENEVIEVE WRIGHT
6. ESSAY, "Our Debt to France"
FRANCES ELIZABETH MARBLE
7. MUSIC, "Sobre La Plaza" Rollinson
SOUTH HIGH SCHOOL ORCHESTRA
8. ADDRESS
JOHN A. CLOUGH, Esquire
9. PRESENTATION OF DIPLOMAS
His Honor, MAYOR PEHR G. HOLMES
10. SCHOOL SONG
Pianist, JAMES ALEXANDER STEPHEN GOW

HONOR LIST

FIRST GRADE

Esther Christine Kiak	Adra Cordelia Powers
Frances Elizabeth Marble	Zarouhie Thomajanian
Florence Mary Nicholson	Walter Francis Wheaton
	Pauline Genevieve Wright

SECOND GRADE

Agatha Elizabeth Devaney	Emily Shephardson Pond
Ruth Evelyn Maynard	Marion Elizabeth Prentiss

SCHOOL SONG

South High, thy praises
We, thy loyal sons, now sing,
Trusting thy name revered
Ever shall be.
Sturdy in mind and arm,
Fearing no foe nor harm,
Here's a toast for storm or calm,
South High, to thee.

South High, thy honor
Guarded well from boast and stain,
Emblem of motive pure
Ever shall be.
Thy honor our concern,
Our worth thy best return,
Here's a toast we give and learn,
South High, to thee.

South High, thy future,
Far as human love can keep,
Safe from unworthy ways
Ever shall be.
Loyal in word and deed,
This our parting word, our creed,
One more toast—one last Godspeed,
South High, to thee.

SOUTH HIGH SCHOOL

"Be Awake to Opportunity"

Four Year Course

Florence May Ashworth
 Evelyn Louise Barnes
 Anna Loretta Beahan
 Mary Teresa Beahan
 Hazel Constance Bender
 Ella Hazel Mae Bogardus
 James Bernard Burns
 Gertrude Anna Frances Callan
 Harriet Marie Carey
 Edith Augusta Carlson
 John Hayes Carter
 Hollis Wesley Colwell
 Cecelia Rosalie Cooney
 Edward Francis Cross
 Alice Diana Crossland
 Grace Elizabeth Rita Cummings
 Chester Pliny Currier
 Donald Hector Dalbeck
 Mary Madeline Delaney
 Agatha Elizabeth Devaney
 Sarah Ellen Dolan
 Anna Elizabeth Dunphy
 Lester Stowe Eastman
 Ernest Elliott Eaton
 Frank Lemuel Firth
 Hazel Harriet George
 James Alexander Stephen Gow
 Phebe Gross
 Agnes Regina Hannon
 Kenneth Clarke Harding
 George Harold Hayes
 Maurice Weston Haynes
 Earl Charles Heap
 Mortimer Church Hemenway
 Elfreda Augusta Hodgson
 Randolph Emery Hodgson
 Frank Ashworth Hughes
 Alvin Ernest Hugo
 Warren Main Humes
 Theodore Howard Johnson
 Wilger Lancaster Jones
 Mary Veronica Keating

Esther Christine Kisk
 Carl Frederic Lincoln Malmstead
 Frances Elizabeth Marble
 Ruth Marsh
 Ruth Evelyn Maynard
 Grace Elizabeth Rita McAuliffe
 Marcus Arthur McCarron
 Ralph Hunter McNabb
 Mildred Emma Mills
 Gladys Elizabeth Molloy
 Mesrop Nicholas Mooradkanian
 Catherine Louise Morrill
 Margaret Ellen Morris
 Francis Patrick Mulvihill
 Marie Agnes Golden Murphy
 Hazel Belle Nelson
 Florence Mary Nicholson
 Beatrice Thayer Norwood
 Winthrop LeRoy Parker
 Mae Parkinson
 Emily Shepardon Pond
 Adra Cordelia Powers
 Marion Elizabeth Prentiss
 Dorothy Rice
 Cecil Henry Bain Sandy
 George Bullard Schoonmaker
 John Francis Egan Shea
 Marjorie Lucile Sibley
 Ethel Caroline Skinner
 Frances Mary Sweeney
 Zarouhie Thomajanian
 Margaret Frances Torpey
 Clifford William Trombly
 Evelyn Frances Vinton
 Frank John Ward, Jr.
 Walter Francis Wheaton
 George Edwin White
 Alexander Lewis Wilson
 Earl Reginald Wolcott
 Gertrude Lucy Wright
 Pauline Genevieve Wright
 Ruth Beatrice Yagjian

PARTIAL COURSE

Francis Xavier Brophy
 Walter Minot Chase
 Margaret Agnes Collins
 Elizabeth Mary Cove
 Michael Patrick Crowe
 Walter Daniels Duggan
 Charles Joseph Finnegan
 Margaret Durkee Foskett.

Emma Louise Marguerite Jerome
 Herbert Albert Malm
 Paul Edmund Nicholson
 Anna Pierce
 Henry Edward Ryan
 Donald Kidder Trow
 Walter Cornelius Van der Pyl
 William Stowell White

WORCESTER NORTH HIGH SCHOOL
GRADUATING EXERCISES
CLASS OF 1917
NORTH HIGH SCHOOL HALL
FRIDAY, JUNE 29, 1917, AT 2.30 O'CLOCK P. M.

PROGRAMME

1. MARCH, "Spirit of Independence" Holzmann
NORTH HIGH SCHOOL ORCHESTRA
2. ESSAY, "Women in the War"
MARION IRENE BUTLER
3. MUSIC, "Spring Flowers" Shamann
NORTH HIGH SCHOOL GLEE CLUB
4. ORATION, "America's Duty to the World's Democracies"
GEORGE STEPHEN RYAN
5. OVERTURE, "Miss Springtime" Kalman
NORTH HIGH SCHOOL ORCHESTRA
6. ADDRESS, JOHN F. GANNON, *Assistant Superintendent of Schools*
7. MUSIC, "The March of Progress" Meyerbeer
THE CLASS
8. ADDRESS AND PRESENTATION OF DIPLOMAS
ALBERT H. INMAN, *Chairman of the Worcester School Committee*
9. MUSIC, The Class Song
Words by MILDRED IDELLA GELLEY
Music by CECIL DANA MASTERS
THE CLASS
10. MARCH
NORTH HIGH SCHOOL ORCHESTRA

HONOR LIST

FIRST GRADE

George Stephen Ryan

SECOND GRADE

Marion Irene Butler
Carl John Gustafson

CLASS SONG

Words by Mildred I. Gelley

Music by Cecil D. Masters

1

O, comrades dear, the time has come,
The parting of the ways.
And now to Alma Mater, fair,
We sing our grateful praise.
Though she has trained our class beloved,
By sturdy discipline
Yet all aglow with love and light
Our guiding star she's been.

2

While we are traveling life's hard path
Our thoughts will e'er turn back
And linger on the school we love,
Her Orange and the Black.
Her noblest call will lead us on
Through all the years to come,
And ever in discouragement
Our thoughts will turn to home.

3

Our Foster Mother she has been,
 Our Alma Mater, true.
 And love for her will ever be
 As deep as heaven's blue.
 O, favored school, our wishes kind
 We leave, as on our way,
 We pass from out thine honored halls
 On our Commencement day.

NORTH HIGH SCHOOL
 POST CERTAMEN PRAEMIUM

Four Year Course

Herbert Parker Adams
 Alice Lillian Banaghan
 Elizabeth Bartlett
 William Joseph Baxter
 Alfred Louis Boutillette
 Mildred Elizabeth Brown
 Helen Elizabeth Burke
 Marion Irene Butler
 Ralph Russell Callahan
 Monica Beatrice Campbell
 Harry Leslie Church
 Louise Parsons Crathern
 Marion Hill Crathern
 John Peter Daly
 Anne Gertrude Drohan
 James Leon Davidson
 Mary Agnes Deviny
 Lillian Louise Donnelly
 Astrid Margaret Ehnborg
 August Wilhelm Elander
 Harold Benson Fenwick
 Ronald Latin Findlay
 Edward Joseph Forde
 Rudolph Ronald Frosthalm
 Margaret Fuller
 Roger Alden Fuller
 Helen Frances Gearin
 Mildred Idella Geley
 Elizabeth Angela Gilgan
 Carl John Gustafson
 Charles Edmund Hamel
 Irving Wilfred Hedberg
 Paul Christian Hedenstad
 Mary Frances Henry
 Francis Willis Hutchins
 Geraldine Mary Judge
 Mary Helen Kelliher
 Charles Donald Kendall

Howard Pearson Kennedy
 Henry James Kimball
 Alonzo Franklin Knotts
 Clarence Dewey Knott
 Mehran John Koobatian
 Thomas William Leydon
 Joseph Vincent Loftus
 Helen Veronica Lyons
 Katherine Marcella MacNamara
 Sitinick Victoria Mamigonian
 Louise Marshall
 Beaven Joseph McCady
 John William McKeon, Jr.
 Gertrude Emogene Merriam
 Helen Alice Miller
 Stuart Carleton Morgan
 Helen Marie Murphy
 Everett Carl Nilson
 Linnea Julia Norberg
 Walter Leonard Norby
 Raymond Francis O'Maley
 Walter Duncan Pierce
 Helen Hamilton Parker
 Howard Prentiss Putnam
 Marian Belle Robinson
 Ralph Russell
 George Stephen Ryan
 Nina Florence Scott
 Lillian Gertrude Sheehan
 David Harthan Smith
 John Joseph Sullivan
 Jessie Dobie Thornton
 Virginia Potter Tichenor
 Francis Milot Underwood
 Donald Wilson Van de Mark
 Helen Wattie
 Eleanor Maria Way
 Ruth Lillian Whiting

PARTIAL COURSE

Franklin Armand Bickford

Cecil Dana Masters

Donald Kenneth Burns

CLASSICAL HIGH SCHOOL

Graduates of 1917 attending higher (or other) institutions.	
Boston University	2
Clark College	6
Colby College	1
Columbia University	1
Holy Cross College	11
Massachusetts Agricultural College	2
Mt. Holyoke College	3
Smith College	2
Tufts College	1
University of Vermont	1
Wellesley College	3
Williams College	2
Worcester Polytechnic Institute	5
Worcester Normal School	19
Worcester Art School	1
Capen School	2
Andover Academy	2
St. Elizabeth's, New Jersey	1
Boston Conservatory	1
Business College	8
Total	<hr/> 74

HIGH SCHOOL OF COMMERCE

Graduates of 1917 attending higher (or other) institutions.	
Clark College	6
New School of Design, Boston	2
Post Graduates	6
Pratt Institute	1
Springfield International Y. M. C. A.	1
State Normal School, Fitchburg	1
State Normal School, Worcester	7
Tufts Dental College	1
Worcester Polytechnic Institute	5

SOUTH HIGH SCHOOL

Graduates of 1917 who are attending higher (or other) institutions.	
Art School	2
Business College	9
Clark	1
Dartmouth	1
Holy Cross	1

Kindergarten Training	2
Massachusetts Agricultural College	3
Middlebury College	1
Mt. Holyoke	3
Normal School	8
Post Graduates	12
Simmons	1
Smith	1
St. John's Parochial	1
St. Stephen's College	1
Trinity	1
University of Pennsylvania	1
Wellesley	4
Wilbraham	1
Worcester Academy	1
Worcester Polytechnic Institute	6

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NORTH HIGH SCHOOL

Graduates of 1917 attending higher (or other) institutions.	
Boston University	1
Bowdoin College	1
Bradford Academy	2
Clark College	5
Connecticut Agricultural College	2
Dartmouth College	1
Holy Cross College	1
Massachusetts Agricultural College	1
Massachusetts College of Pharmacy (Boston, Mass.) ..	1
Normal Schools:	
Fitchburg, 1	}
Framingham, 3	
Worcester, 11	
Smith College	1
Tufts College	1
Vassar College	1
Worcester Tech	7
Total	40

OFFICE OF THE CITY TREASURER,
WORCESTER, MASS., December 11, 1917.

Mr. Homer P. Lewis, Superintendent of Schools:—

SIR: As Treasurer, ex-officio, of the A. H. Bullock High School and Apparatus Fund, the undersigned presents the

following statement covering all receipts and payments during the financial year ending November 30, 1917, together with balances on hand:

Balance November 29, 1916.....	\$2,841.43	
Receipts during year, viz.: dividends on savings bank deposits.....	113.72	
		<hr/>
		\$2,955.15
Payments during year, viz.: sundry bills.....		190.94
		<hr/>
Balance November 30, 1917, on de- posit in sundry savings banks of Worcester.....		\$2,764.21

Yours respectfully,

H. C. SMITH,
City Treasurer and Collector of Taxes.

REPORT OF THE CLERK OF THE SCHOOL COMMITTEE

I. POPULATION

Population, census of 1915	162,697
Population, 1917 (Water Dept., estimated)	187,492
Children between the ages of 5 and 16, April, 1917	28,231
Children between the ages of 5 and 7, April, 1917	5,279
Children between the ages of 7 and 14, April, 1917	19,097
Children between the ages of 14 and 16, April, 1917	3,855

II. FINANCIAL

Valuation, April, 1917	\$186,244,956.00
Decrease for the year	2,307,717.00
City debt, December 1, 1917, less cash and Sinking Fund	7,176,536.32
State, City and County tax, 1917	8,832,595.12
Rate of taxation . . . . .	.02
Value of schoolhouses and lots	4,864,766.61
Value of school furniture and janitors' supplies	197,638.34
Value of books, supplies and apparatus	138,125.00
Ordinary expenses of day schools (less revenue)	*1,080,260.45
Boarding truants at county training school	2,640.05
Vacation school	3,452.00
Evening schools (all)	36,359.70
Expended for all purposes (less revenue)	1,122,712.20
Average cost per pupil for day schools:	
All pupils	44.11
High school pupils	88.67
All pupils below high schools	37.34
All pupils below high schools except kindergarten pupils	37.71
Cost of kindergartens	45,347.78
Average per pupil	32.23
Cost of evening schools (regular)	31,827.41
Average per pupil	18.29
Cost of Classical High School	61,819.78
Average per pupil	89.59
Cost of High School of Commerce	95,547.35
Average per pupil	81.52
Cost of South High School	62,784.45
Average per pupil	93.98
Cost of North High School	66,087.05
Average per pupil	94.68
<u>Expended by City Council for new schoolhouses</u>	<u>151,034.47</u>

*Beginning with this item the figures given are for the school year 1916-17.

III. SCHOOLHOUSES

Number occupied December, 1917..... 75

(a) Rooms

High School rooms, not including laboratories or recitation rooms	110
High School rooms, additional	84
Manual training rooms	20
Cooking school rooms	9
Recitation rooms or other rooms	15
Preparatory grammar rooms	14
Grammar rooms, Grade VIII-IV	267
Primary rooms, Grade III-I	238
Special and ungraded school rooms	20
Kindergarten rooms	37
	<hr/>
	804

Evening schools, both sexes:

High School of Commerce, Belmont Street, Canterbury Street, Chandler Street, Gage Street, Grafton Street, Greendale, Lamartine Street, Millbury Street, Providence Street, Quinsigamond, Webster Square	12
Free evening drawing schools	6
Free evening cooking schools	6
Free evening manual training schools	1
Free evening patternmaking school	1
	<hr/>
	26

(b) *Sittings*

Number in Classical High School	941
Number in High School of Commerce	1,161
Number in Sycamore Branch	272
Number in South High School	790
Number in North High School	1,188
Number in preparatory grammar schools	592
Number in grammar schools, Grades VIII-IV	12,109
Number in primary schools, Grades III-I	10,934
Number in special and ungraded schools	531
Number in kindergartens	1,602
	<hr/>
	30,120

IV. TEACHERS. SCHOOL YEAR 1916-1917

Men teachers in high schools	59
Women teachers in high schools	96
Men teachers in elementary schools	23
Women teachers in all grades below the high schools	778
Special teachers of drawing: Men 2, women 5	7
Special teachers of music: Man 1, women 2	3
Special teachers of physical training: Men 3, women 4	7
Special teachers in manual training department, men	12
Special teachers in manual training department, women	7
Special teachers in cooking department, women	7
Special teachers in sewing department, women	7
Special teacher of writing, woman	1
Whole number of teachers in day schools	<hr/>
	852

Men teachers in evening schools.....	48
Women teachers in evening schools.....	52
Teachers in evening drawing, manual training and cooking schools:	
Men 8, women 8.....	16
Evening school teachers who also teach in the day schools: Men	
24, women 14.....	38
Whole number of different teachers.....	930

V. PUPILS. SCHOOL YEAR 1916-1917

Number enrolled in day schools.....	27,175
In evening schools (regular).....	2,621
In evening drawing schools.....	182
In evening cooking schools.....	218
In evening manual training and patternmaking schools.....	56
Total enrollment in all the public schools.....	30,252
Number over 16 years old in day schools.....	1,588
Number enrolled in private schools.....	5,863
Average number belonging in the public day schools.....	24,490.4
Increase.....	546.0
Average daily attendance in day schools.....	22,717.9
Increase.....	777.3
Per cent. of daily attendance to average number belonging....	92.7
Increase.....	1.1
Number registered in Classical High School.....	811
Number of graduates:	
January, 1917.....	4
June, 1917.....	125
Average number belonging.....	689.8
Average daily attendance.....	657.3
Per cent. of daily attendance to average number belonging....	95.2
Number registered in High School of Commerce.....	1,460
Number of graduates:	
January, 1917.....	19
June, 1917.....	135
Average number belonging.....	1,171.5
Average daily attendance.....	1,090.0
Per cent. of daily attendance to average number belonging....	93.0
Number registered in South High School.....	832
Number of graduates:	
January, 1917.....	11
June, 1917.....	84
Average number belonging.....	666.9
Average daily attendance.....	627.9
Per cent. of daily attendance to average number belonging....	94.1
Number registered in North High School.....	824
Number of graduates:	
January, 1917.....	2
June, 1917.....	76
Average number belonging.....	697.5
Average daily attendance.....	667.5
Per cent. of daily attendance to average number belonging....	95.7

**FINANCIAL STATEMENT FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1917**

I. SALARIES

Unexpended balance, November 30, 1916.....	\$931.43	
Appropriation by City Council.....	848,500.00	
Revenue (tuitions).....	6,338.75	
		\$855,770.18
<i>Expenditures</i>		
Salaries of teachers, day schools.....	\$822,720.22	
Salary of Superintendent.....	4,500.00	
Salaries of Assistant Superintendents (three).....	9,000.00	
Salary of Clerk.....	2,991.66	
Salaries of Attendance Officers (four).....	4,949.85	
Salary of Supervisor of attendance.....	1,062.48	
Salary of Inspector of schoolhouses.....	1,483.32	
Salaries of Census enumerators.....	1,026.88	
Other salaries and clerical labor.....	6,150.11	
		\$853,884.52
Unexpended balance November 30, 1917.....		1,885.66
		\$855,770.18

II. SALARIES OF JANITORS

Unexpended balance November 30, 1916.....	\$478.33	
Appropriation by City Council.....	78,000.00	
Revenue.....	150.20	
		\$78,628.53
<i>Expenditures</i>		
Janitors, day schools.....	\$75,203.59	
Janitors, evening schools.....	3,010.40	
		\$78,213.99
Unexpended balance November 30, 1917.....		414.54
		\$78,628.53

III. TEXTBOOKS, STATIONERY AND SUPPLIES

Unexpended balance November 30, 1916.....	\$40.38	
Appropriation by City Council.....	45,000.00	
Revenue (books and supplies sold).....	706.50	
		\$45,746.88
<i>Expenditures</i>		
Textbooks.....	\$17,077.81	
Supplementary books.....	5,060.78	
Reference books.....	888.48	
Stationery, blank books, etc.....	9,797.29	
Pens, pencils, ink, etc.....	4,365.81	
Apparatus and materials for illustration.....	7,741.24	
Three pianos.....	785.00	
Miscellaneous.....	2.66	
		\$45,719.07
Unexpended balance November 30, 1917.....		27.81
		\$45,746.88

IV. PRINTING AND MISCELLANEOUS

Unexpended balance November 30, 1916	\$249.29	
Appropriation by City Council.....	9,500.00	
Revenue.....	63.34	
		<hr/>
		\$9,812.63
<i>Expenditures</i>		
Printing.....	\$2,274.38	
Transportation of children.....	846.50	
Express, postage, car fares, etc.....	2,695.22	
Towels, soap, etc.....	641.30	
Miscellaneous.....	3,326.85	
		<hr/>
		\$9,784.25
Unexpended balance November 30, 1917.....		23.38
		<hr/>
		\$9,812.63

V. TRUANT SCHOOL

Unexpended balance November 30, 1916	\$361.82	
Appropriation by City Council.....	2,525.00	
		<hr/>
		\$2,886.82
Expended for boarding truants.....	\$2,867.89	
Unexpended balance November 30, 1917.....	18.93	
		<hr/>
		\$2,886.82

VI. MANUAL TRAINING

Unexpended balance November 30, 1916	\$1,210.57	
Appropriation by City Council.....	4,000.00	
Revenue.....	61.93	
		<hr/>
		\$5,272.50
<i>Expenditures</i>		
High manual training.....	\$1,019.04	
Grade manual training.....	1,794.35	
Cooking.....	1,888.94	
Sewing.....	574.34	
		<hr/>
		\$5,271.67
Unexpended balance November 30, 1917.....		.83
		<hr/>
		\$5,272.50

VII. EVENING SCHOOLS

Unexpended balance November 30, 1916	\$1,273.20	
Appropriation by City Council.....	29,000.00	
		<hr/>
		\$30,273.20
<i>Expenditures</i>		
Salaries of teachers, regular.....	\$20,391.69	
Salaries of teachers, others.....	3,306.75	
Books and supplies, regular.....	2,088.98	
Books and supplies, others.....	586.48	
		<hr/>
		\$26,373.90
Unexpended balance November 30, 1917.....		3,899.30
		<hr/>
		\$30,273.20

EXPENDED BY THE SUPERINTENDENT OF PUBLIC BUILDINGS

Care of Schoolhouses

Care of clocks	\$688.33	
Fuel	44,757.09	
Electric light, power and gas.....	2,968.39	
Water	3,149.40	
Janitors' supplies.....	3,083.11	
Removing snow, ashes, rubbish, etc.....	4,290.46	
Miscellaneous.....	8,237.62	
	<hr/>	
	\$67,169.40	
Less revenue.....	646.17	
	<hr/>	\$66,523.23
Ordinary repairs of schoolhouses.....	\$26,107.06	
Less revenue.....	3,257.87	
	<hr/>	\$22,849.19
Permanent improvements of schoolhouses	\$22,984.10	
Less revenue.....	879.59	
	<hr/>	\$22,104.51

SUMMARY

Total unexpended balance November 30, 1916 ...	\$4,545.02	
Total appropriation by City Council.....	1,016,525.00	
Total revenue	7,320.72	
	<hr/>	
Total amount available for the support of all the schools		\$1,028,390.74
Total expenditure for the support of all the schools.....	\$1,022,115.29	
Total unexpended balance November 30, 1917 ...	6,275.45	
	<hr/>	\$1,028,390.74
Net expenditure by the School Committee.....	\$1,014,794.57	
Net expenditure by the Superintendent of Public Buildings.....	111,476.98	
	<hr/>	\$1,126,271.50
Net cost of all the schools.....		\$1,126,271.50

STATISTICAL TABLE
 SHOWING THE COST PER PUPIL IN THE GRADES (EXCLUDING KINDERGARTEN) FOR REGULAR TEACHERS AND FOR BOOKS AND SUPPLIES

SCHOOLS	Teachers, 1914-15	Teachers, 1915-16	Teachers, 1916-17	Average for 3 years	Books and Supplies, 1914-15	Books and Supplies, 1915-16	Books and Supplies, 1916-17	Average for 3 years
Abbott street.....	24.98	25.56	23.75	24.75	1.05	.86	1.13	1.01
Adams square.....	20.87	21.31	22.52	21.40	1.02	1.25	1.33	1.20
Adams street.....	21.65	21.87	18.93	20.82	.97	1.85	1.84	1.22
Andover street.....	22.50	21.14	25.95	23.19	3.77	1.00	1.41	2.06
Ash street.....	22.50	21.89	22.91	22.43	1.41	1.72	1.53	1.55
Belmont street.....	25.77	25.93	26.17	25.96	1.01	1.41	1.61	1.31
Blithewood.....	19.72	23.72	20.59	21.34	1.80	1.91	2.06	1.92
Bloomingtondale.....	22.19	25.38	17.81	21.79	1.14	1.31	1.21	1.22
Burncoat plain.....	22.81	17.87	11.64	17.44	2.11	1.56	1.10	1.59
Cambridge street.....	25.20	23.95	24.06	24.40	1.20	1.15	1.47	1.27
Canterbury street.....	24.19	23.11	22.17	23.16	.90	.90	1.07	.96
Chandler street.....	24.70	25.12	23.84	24.55	.82	.63	1.11	.85
Columbus park.....	19.66	25.72	22.49	22.69	5.15	1.38	1.26	2.60
Dartmouth street.....	20.15	24.18	23.05	23.13	1.05	1.64	1.60	1.43
Dix street.....	27.02	25.90	25.23	26.07	1.25	1.32	1.07	1.21
Downing street.....	25.29	23.47	22.12	24.26	1.06	1.04	1.31	1.14
East Kendall street.....	23.00	26.87	21.83	22.27	1.11	.97	1.02	1.08
Edgeworth street.....	23.63	23.64	22.00	23.09	1.16	1.44	1.25	1.28
Elizabeth street.....	26.27	26.37	22.64	24.76	1.02	1.07	1.23	1.11
Freeland street.....	24.30	23.63	24.63	25.89	1.03	1.50	1.32	1.28
Gage street.....	26.75	25.84	23.01	25.20	.94	1.10	.87	1.00

Gates lane.....	25.75	24.90	23.03	24.53	93	1.05	1.00	99
Grafton street.....	21.00	24.77	22.35	22.71	1.51	1.15	1.20	1.29
Greendale.....	23.46	22.75	20.17	22.13	1.21	1.21	2.19	1.46
Harlow street.....	18.93	23.62	22.35	21.63	98	2.52	1.82	1.61
Jamesville.....	18.23	18.82	20.85	19.80	96	1.07	1.08	1.04
Lake View.....	21.85	25.26	20.63	22.58	1.16	1.97	1.50	1.21
Lamartine street.....	24.17	27.62	26.70	26.16	1.19	1.37	1.53	1.36
Ledge street.....	26.22	27.58	25.96	26.59	1.15	1.26	1.79	1.40
Lee street.....	23.15	22.40	21.56	22.37	1.48	2.10	.92	1.50
Ludlow street.....	29.35	26.56	20.53	25.48	1.86	1.27	1.77	1.47
Malvern road.....	28.30	25.65	25.23	26.39	88	.98	1.79	1.22
Midland street.....	20.08	16.94	20.64	19.22	90	.90	1.91	1.24
Millbury street.....	28.32	29.86	27.83	28.67	1.07	1.08	1.61	1.25
North Pond.....	31.85	50.98	24.64	35.82	1.43	5.60	2.02	3.02
North Worcester.....	.....	28.43	28.43	.....	.....	.....	2.91	.....
Oxford street.....	24.90	23.27	23.92	24.03	1.08	1.49	.92	1.15
Providence street.....	22.65	25.08	24.36	24.03	1.25	1.24	1.83	1.27
Quinsigamond.....	23.07	23.55	23.06	23.23	.90	1.10	1.12	1.04
Rice square.....	.....	21.83	25.98	.....	.....	3.64	1.56	.....
Salem street.....	28.15	20.90	21.07	21.71	.60	.77	.90	.76
Sever and Winslow streets.....	26.73	28.44	30.42	28.53	1.14	1.60	2.07	1.60
Tatnuck.....	25.10	23.55	23.91	24.19	.91	1.10	1.38	1.13
Thomas street.....	28.92	27.03	23.99	24.98	1.35	1.32	1.16	1.28
Trowbridgeville.....	20.30	21.37	22.31	21.38	1.31	1.23	2.10	1.55
Union Hill.....	20.69	21.67	20.78	21.05	.90	.72	.83	.82
Unsala street.....	21.59	22.91	20.04	21.51	.78	.68	.92	.79
Ward street.....	23.08	29.55	24.59	25.74	.74	1.44	.90	1.08
Webster square.....	24.30	26.08	21.91	24.10	1.07	1.02	.92	1.00
West Boylston street.....	25.40	26.99	23.22	25.20	1.70	2.02	1.34	1.69
Woodland and New Woodland.....	24.95	23.94	23.57	24.15	.96	1.27	1.41	1.21
Average.....	24.05	25.68	22.94	23.87	1.29	1.35	1.38	1.32

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STATISTICAL TABLE
 SHOWING THE NUMBER, ATTENDANCE, ETC., OF THE PUPILS IN THE PUBLIC DAY SCHOOLS, BY BUILDINGS, FOR THE SCHOOL YEAR
 ENDING JUNE 29, 1917

SCHOOLS	Whole number enrolled during the year	Males	Females	Average membership for the year	Average attendance	Per cent. of attendance	Number over 16 years of age	Membership at the close of the year	Number of cases of cardiness	Average for the year	Number of 1/2 day's absences	Average to each pupil for the year
Classical High.....	811	469	342	689.8	657.3	95.2	883	674	1,225	1.7	6,375	9.2
High School of Commerce.....	1,460	447	1,013	1,171.5	1,090	93	682	1,108	3,022	2.5	14,233	12.1
South High.....	832	408	424	666.9	627.9	94.1	234	629	1,342	2.5	7,367	11
North High.....	824	445	379	697.5	667.5	95.7	195	674	1,763	2.5	5,340	7.6
Abbott street.....	453	230	223	440.1	415.3	94.3	2	401	1,176	3	7,145	16.2
Adams square.....	320	171	149	299.6	277.6	92.6	...	298	418	1.3	7,672	25.6
Adams street.....	361	180	181	311.8	286.9	91.7	1	316	735	2.3	7,643	24.5
Andover street.....	233	112	121	207.2	195.8	94.4	...	214	37	1	4,452	21.4
Ash street.....	262	141	121	231.3	217.4	94	...	232	64	2	4,519	19.5
Belmont street.....	725	363	362	649.2	590.8	91	9	612	728	1.1	18,153	27.9
Bilthewood.....	159	82	77	143.2	136.4	95.2	...	149	79	1.6	2,737	19.4
Bloomington.....	215	104	111	207.4	193.5	93.8	...	197	128	6	4,804	28.1
Burncoat plain.....	133	76	57	115.5	108	93.5	...	128	68	5	3,134	27.1
Cambridge street.....	708	375	333	632.7	592.6	93.6	...	643	504	7	13,252	20.9
Canterbury street.....	964	488	476	803.5	752.7	93.6	1	788	584	7	20,116	25
Chandler street.....	411	194	217	366.2	334.1	91.1	4	344	413	1.1	10,637	28.5
Columbus park.....	215	117	98	197.7	186.1	94	...	201	261	1.3	4,048	20.5
Dartmouth street.....	648	343	305	571.2	523.5	91.6	...	590	849	6	15,932	27.8
Dix street.....	670	332	338	594.2	553.6	93	1	602	422	7	12,395	20.8
Downing street.....	539	266	273	430.9	450	93.1	2	469	336	7	11,244	23.3
East Kendall street.....	628	325	303	579.1	539.9	98.2	...	582	101	1	12,432	21.5
Edgeworth street.....	643	336	307	600.5	551.7	93.5	...	576	142	2	13,089	21.7
Elizabeth street.....	514	262	252	459.4	428.8	93.8	2	432	193	4	8,917	19.4

Freeland street.....	325	172	153	307.8	286.2	92.	..	296	432	1.1	7,536	24.4
Gage street.....	818	425	393	629.8	563	89.5	..	607	1,817	2.8	18,331	27.9
Gates lane.....	556	296	260	505.8	472.3	98.3	..	492	263	.5	11,100	21.9
Grafton street.....	992	505	487	883.4	818.1	98.4	5	880	547	.6	23,243	26.3
Greendale.....	436	207	229	407.3	372.8	90.9	..	412	333	.8	11,183	28.2
Harlow street.....	437	228	214	407.3	380.6	98.2	..	405	286	.5	8,511	20.9
Jamesville.....	76	43	33	76.2	70.7	92.8	1	76	39	.5	1,781	22.
Lake view.....	252	124	128	245.5	220.6	89.8	..	231	318	1.2	7,492	30.5
Lamarine street.....	1,125	609	516	922.6	839.4	90.	24	956	461	.4	26,922	29.6
Ledge street.....	855	413	442	730.9	676.3	92.5	4	792	409	.6	16,560	22.6
Lee street.....	155	79	76	135.8	123	91.2	..	136	116	.8	4,492	33.
Ludlow street.....	118	60	58	137.	128.1	93.5	..	129	143	1.	2,817	20.5
Malvern road.....	303	149	154	269.1	244.5	90.8	2	273	260	.9	6,771	26.1
Mason street.....	27	21	6	22.9	21.5	93.8	2	24	65	2.8	239	10.4
Midland street.....	323	156	167	321.7	301	93.5	..	311	310	.9	6,915	21.4
Milbury street.....	883	462	421	834.5	760.8	91.1	6	797	531	.9	20,361	22.7
North pond.....	87	44	43	69.	63.6	92.1	..	68	48	.6	2,010	29.9
North Worcester.....	17	8	9	15.3	14.9	97.3	..	17	8	.5	294	19.2
Oxford street.....	351	184	167	291.8	263.3	90.2	1	287	146	.5	10,221	35.5
Providence street.....	764	369	395	653.2	600.	91.	11	639	472	.7	17,351	26.5
Quinsigamond.....	817	446	371	801.7	747.8	93.2	..	811	189	.2	18,714	23.3
Rice square.....	462	237	225	376.5	344.7	91.5	1	432	298	.7	10,331	27.4
Salem street.....	173	87	86	149.6	141.3	94.4	..	146	141	.8	3,151	20.2
Sever street.....	253	121	132	228.5	215.5	94.4	..	219	240	1.	3,508	15.3
Tatnuck.....	280	142	138	238.6	222.4	98.2	1	257	168	.7	5,390	22.5
Thomas street.....	484	226	258	406.3	378.7	93.	1	379	420	1.	9,227	22.
Trowbridgeville.....	149	75	74	136.	129.5	95.1	..	133	19	1.	2,533	18.7
Union hill.....	431	232	199	381.9	351.5	92.	..	390	202	.5	8,745	22.8
Upeala street.....	698	357	336	660.6	623.6	94.	..	657	41	..	11,371	17.2
Ward street.....	484	256	238	424.6	390.5	91.9	..	424	432	.8	10,813	24.
Webster square.....	162	85	77	123.4	111.4	90.3	..	139	96	.7	3,780	30.6
West Boylston street.....	317	163	154	274.9	255.9	93.	..	270	165	.6	6,248	22.7
Winslow street.....	479	242	237	395.	363.6	92.	..	432	615	1.5	11,368	23.7
Woodland street (new).....	321	151	170	310.	293.8	94.8	8	302	284	.9	4,353	14.
Woodland street.....	665	343	322	598.9	549.6	91.8	..	564	555	.9	14,322	23.9
Total.....	*27,175	13,653	13,522	24,490.4	22,717.9	92.7	1,588	24,241	23,908	.9	544,230	22.2

* This figure does not include 623 pupils, 325 males and 298 females, who are included in the enrollment of the High Schools, because they are also included in the enrollment of the Grammar Schools.

STATISTICAL TABLE
 SHOWING THE NUMBER, ATTENDANCE, ETC., OF THE PUPILS IN THE PUBLIC SCHOOLS, BY GRADES,
 FOR THE SCHOOL YEAR ENDING JUNE 29, 1917

SCHOOLS	Whole number enrolled during the year	Males	Females	Average membership for the year	Average attendance	Per cent. of attendance	Number over 16 years of age	Membership at the close of the year	Number of cases of tardiness	Average to each pupil for the year	Number of days' absence	Average to each pupil for the year	Average age Jan. 1, 17, in years and months
Classical High.....	811	469	342	689.8	657.3	95.2	383	674	1,225	1.7	6,375	9.2	15-9
High School of Commerce.....	1,460	447	1,013	1,171.5	1,090	93.	682	1,108	3,022	2.5	14,233	12.1	15-8
South High.....	832	408	424	666.9	627	94.1	234	629	1,342	2.5	7,367	11	16-1
North High.....	445	824	379	697.5	667	95.7	195	674	1,763	2.5	5,340	7.6	15-9
Preparatory Grammar Schools.	469	255	214	448.6	430	195.8	1	432	348	7.	3,968	8.7	13-8
Grammar Schools, Grade VIII.	1,577	781	796	1,502.4	1,420	94.5	40	1,483	884	5.	27,426	18.2	13-8
“ “ “ VII.	1,550	737	813	1,443.4	1,362	94.4	9	1,406	815	5.	30,660	21.2	12-11
“ “ “ VI.	2,240	1,121	1,119	2,070.1	1,925	93.9	1	2,032	1,459	7.	48,593	23.4	11-9
“ “ “ V.	2,484	1,227	1,257	2,332.1	2,184	93.6	1	2,291	1,536	6.	52,915	22.7	11-2
“ “ “ IV.	2,736	1,407	1,239	2,596.4	2,442	194.	1	2,613	1,836	7.	58,463	22.5	10-2
Primary Schools, Grade III.	2,851	1,419	1,432	2,667.8	2,486	193.2	1	2,662	2,382	8.	62,842	23.5	9
“ “ “ II.	2,965	1,577	1,388	2,828.3	2,608	92.2	1	2,882	2,267	8.	73,814	26.1	7-10
“ “ “ I.	3,809	1,990	1,819	3,199.3	2,898	790.6	1	3,187	3,342	1.	95,970	29.9	6-10
Kindergartens.....	2,268	1,145	1,123	1,407.3	1,205	185.6	1	1,359	1,304	1.	35,271	25.	5-5
Special and ungraded schools.	450	297	153	349.8	318	91.1	41	371	641	1.8	10,887	31.1	11-5
Suburban schools.....	472	253	219	419.2	393.6	93.9	1	438	242	.6	10,006	23.8	9-3
Aggregate for day schools.....	*27,798	13,978	13,820	24,490.4	22,717	92.7	1,588	24,241	23,908	.9	544,230	22.2	.....
Evening schools (regular).....	2,621	1,888	733	1,739.6	1,056.8	.....	.....	.....	.....	.....	.....	.....	.....
Evening drawing schools.....	182	182	.....	104.9	82.4	.....	.....	.....	.....	.....	.....	.....	.....
High manual training.....	360	360	.....	327.3	.....	.....	.....	.....	.....	.....	.....	.....	.....

STATISTICAL TABLE
 SHOWING THE NUMBER, ATTENDANCE, ETC., OF THE PUPILS IN THE PUBLIC SCHOOLS, BY GRADES,
 FOR THE SCHOOL YEAR ENDING JUNE 29, 1917

SCHOOLS	Whole number en-rolled during the year	Males	Females	Average number-ship for the year	Average attendance	Per cent of attendance	Number over 16 years of age	Membership at the close of the year	Number of cases of tardiness	Average to each pupil for the year	Number of days absence	Average to each pupil for the year	Average age Jan. 1, '17, in years and months
Classical High	811	469	342	689.8	657.3	95.2	383	674	1,225	1.7	6,375	9.2	15-9
High School of Commerce	1,460	447	1,013	1,171.5	1,090	93	682	1,108	3,022	2.5	14,233	12.1	15-8
South High	832	408	424	666.9	627.9	94.1	234	629	1,942	2.5	7,367	11	16-1
North High	445	824	379	697.5	667.5	95.7	195	674	1,763	2.5	5,340	7.6	15-9
Preparatory Grammar Schools	469	255	214	448.6	430	95.8	1	482	348	7	3,968	8	7-13
Grammar Schools, Grade VIII	1,577	781	796	1,502.4	1,420.9	94.5	40	1,483	884	5	27,426	18.2	13-8
" " " VII	1,560	737	813	1,443.4	1,362.4	94.4	9	1,406	815	5	30,660	21.2	12-11
" " " VI	2,240	1,121	1,119	2,070.1	1,925.3	93	1	2,032	1,459	7	48,593	23.4	11-9
" " " V	2,484	1,227	1,257	2,332.1	2,184	93.6	1	2,291	1,536	6	52,915	22.7	11-2
" " " IV	2,736	1,407	1,289	2,596.4	2,442	94.2	1	2,513	1,836	7	58,463	22.5	10-2
Primary Schools, Grade III	2,851	1,419	1,432	2,667.8	2,486	92.8	2	2,662	1,882	7	62,842	23.5	9
" " " II	2,965	1,577	1,388	3,228.8	2,608	92.2	2	2,882	2,267	8	73,814	26.1	7-10
" " " I	3,809	1,990	1,819	3,199.3	2,898.7	90.6	2	3,187	3,342	1	95,970	29.9	6-10
Kindergartens	2,268	1,145	1,123	1,407.3	1,205.1	85.6	2	1,359	1,304	1	35,271	25	5-5
Special and ungraded schools	450	297	153	349.8	318.9	91.1	41	371	641	1.8	10,887	31.1	11-5
Suburban schools	472	253	219	419.2	398.6	93.9	1	438	242	1.6	10,006	23.3	9-3
Aggregate for day schools	*27,798	13,978	13,820	24,490.4	22,717.9	92.7	1,588	24,241	23,908	9	544,230	22.2	.....
Evening schools (regular)	2,621	1,388	733	1,739.6	1,056.4	.....	.....	.....	.....	.....	.....	.....	.....
Evening drawing schools	182	182	.....	104.9	82.4	.....	.....	.....	.....	.....	.....	.....	.....
High manual training	360	360	.....	327.3	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE
SHOWING THE LOCATION, SIZE AND VALUE OF THE SCHOOLHOUSES AND SCHOOLHOUSE LOTS BELONGING TO THE SCHOOL DEPARTMENT,
CITY OF WORCESTER

LOCATION	When Erected	Material	Stories	No. of School Rooms	Estimated Value	Size of Lots Sq. Ft.	Value of Lots	Total Value of Houses and Lots
1 High School of Commerce	1871-1914	Brick	3	41	\$377,050	51,756	\$63,099.58	\$445,149.53
2 Classical High	1892	"	4	22	190,000	39,836	30,000.00	220,000.00
3 South High	1900-1	"	3	20	180,000	51,499	25,749.50	205,749.50
4 North High	1889-1916	"	2	28	335,747.39	81,211	46,828.80	382,576.19
5 Sycamore High	1866	"	2	8	18,000	12,600	7,560.00	25,560.00
6 Abbot Street	1895-1905	"	2	12	55,000	41,273	4,127.80	59,127.80
7 Adams Square	1868	"	2	8	45,000	24,709	3,218.06	48,218.06
8 Adams Street	1897-1916	"	2	8	45,898.89	30,000	3,000.00	48,898.89
9 Andover Street	1914	"	2	6	51,808.54	42,631	4,902.87	56,706.11
10 Armandale Street .....	.....	Wood	1	1	500	5,061	789.15	1,269.15
11 Ash Street	1860	Brick	3	6	13,500	13,422	4,697.70	18,197.70
12 Belmont Street	1871	"	3	18	50,000	39,930	15,972.00	65,972.00
13 Blitewood	1895	Wood	2	2	5,000	45,743	238.72	5,238.72
14 Bloomingdale	1897-1917	Brick	2	8	57,643.02	39,452	2,231.40	59,874.42
15 Burncoat Plain	1856	"	1	1	1,500	23,769	475.88	1,976.88
16 Burncoat	1917	"	2	6	42,341.29	72,720	9,737.60	52,068.80

17 Cambridge Street—1	1870-1916	Brick	8	14	65,137.40	32,589	4,888.85	70,025.75117
18 Cambridge Street—2	1891	"	2	8	27,000	.....	.....	27,000.0018
19 Canterbury Street—1	1876	"	3	12	45,000	41,868	6,233.95	51,233.9519
20 Canterbury Street—2	1898	"	3	6	35,000	.....	.....	35,000.0020
21 Chamberlain	.....	.....	..	..	.....	21,780	1,089.00	1,089.0021
22 Chandler Street	1884	Brick	2	10	35,000	34,977	12,241.95	47,241.9522
23 Columbus Park	1914	"	2	4	48,113.75	46,455	11,151.48	59,265.1823
24 Dartmouth Street	1895-1909	"	2	14	65,000	40,500	5,398.29	73,898.2924
25 Dix Street—1	1867	"	3	12	40,000	35,189	8,797.25	48,797.2525
26 Dix Street—2	1902	"	3	6	38,000	.....	.....	38,000.0026
27 Downing Street	1891	"	2	12	45,000	36,243	5,451.45	50,451.4527
28 East Kendall Street	1899-1909	"	2	14	70,000	27,832	4,174.80	74,174.8028
29 Edgeworth Street	1870-1903	"	3	14	65,000	30,761	2,460.88	67,460.8829
30 Elizabeth Street	1894	"	2	12	45,000	30,486	5,487.48	50,487.4830
31 Freedom Street	1885	"	2	10	45,000	29,623	8,886.90	53,886.9031
32 Gage Street	1884-1899	"	3	16	60,000	40,864	6,129.60	66,129.6032
33 Gates Lane	1898-1903	"	2	12	60,000	46,288	6,943.20	66,943.2033
34 Grafton Street—1	1879	"	2	8	80,000	51,250	13,812.50	42,812.5034
35 Grafton Street—2	1900	"	3	12	60,000	.....	.....	60,000.0035
36 Greendale—1	1886	Wood	1	1	2,000	13,991	1,399.10	3,399.1036
37 Greendale—2	1894	Brick	2	8	48,000	25,816	1,848.96	46,548.9637
38 Harlow Street	1897-1915	Brick	2	12	69,923.06	29,698	4,454.70	74,377.7638
39 Jansenville	1887	Wood	1	2	4,000	23,230	1,161.50	5,161.5039
40 Lake View	1879	"	2	6	12,000	23,626	1,176.80	13,176.8040
41 Lanartine Street—1	1867	Brick	3	12	22,000	48,183	9,686.40	31,686.4041

SHOWING THE LOCATION, SIZE AND VALUE OF THE SCHOOLS AND SCHOOLS HOUSE LOTS BELONGING TO THE SCHOOL DEPARTMENT,
CITY OF WORCESTER.—(Continued)

LOCATION	When Erected	Material	Stories	No. of School Rooms	Estimated Value	Size of Lots Sq. Ft.	Value of Lots	Total Value of Houses and Lots
42 Lamartine Street—2	1897	Brick	2	8	\$40,000.00	.....	.....	\$40,000.00 43
43 Lamartine Street—3 (Meade St.)	1912	"	2	12	96,347.46	27,551	6,887.75	93,235.21 43
44 Lodge Street—1	1896-1907	"	3	12	40,452.90	59,584	17,380.40	57,833.30 44
45 Lodge Street—2	1896-1910	"	2	6	73,000	.....	.....	73,000.00 45
46 Lee Street	1885	"	2	4	15,000	29,191	4,378.65	19,378.65 46
47 Ludlow Street	1881-1905	"	2	4	20,000	27,590	1,654.80	21,654.80 47
48 Malvern Road	1896-1907	"	2	3	46,788.60	36,975	2,958.00	49,746.60 48
49 Mason Street	1864	"	2	2	6,000	13,315	3,328.75	9,328.75 49
50 May Street Schoolhouse Site	.....	.....	..	..	.....	8,712	.....	..... 50
51 Midland Street	1897-1916	Brick	2	8	64,135.45	27,000	4,482.08	68,617.53 51
52 Millbury Street—1	1888	"	2	9	26,000	108,013	15,451.95	41,451.95 52
53 Millbury Street—2	1885	"	2	4	14,000	.....	.....	14,000.00 53
54 Millbury Street—3	1892	"	2	4	20,000	.....	.....	20,000.00 54
55 Millbury Street—4	1898	"	2	8	40,000	.....	.....	40,000.00 55
56 North Pond	1864	Wood	2	2	3,500	23,046	661.38	4,161.38 56
57 North Worcester	1898	"	1	1	2,500	43,560	500.00	3,000.00 57
58 Oxford Street	.....	Brick	3	9	25,000	16,914	23,679.60	48,679.60 58
59 Providence Street—1	1857	"	4	8	25,000	49,995	24,997.50	49,997.50 59
60 Providence Street—2	1897	"	2	8	45,000	.....	.....	45,000.00 60
61 Quindamond—1	1870	"	3	3	20,000	81,030	13,248.75	33,248.75 61

63	Quinsigamond—2	1889	Brick	2	8	35,000	.....	.....	35,000.00 63
64	Quinsigamond—3	1899	"	3	6	30,000	.....	.....	30,000.00 63
64	Rice Square	1915	"	..	..	76,439.22	95,470	8,958.28	85,392.50 64
65	Roosevelt	.....	.....	..	..	.....	111,820	.....	..... 65
66	Salen Street	1860	Brick	2	4	15,000	12,780	6,390.00	21,390.00 66
67	Sover Street	1902	"	3	6	38,000	18,396	7,353.40	45,353.40 67
68	Tatnuck (Old)	1860	"	2	2	8,000	19,955	1,597.20	4,597.20 68
69	Tatnuck (New)	1910	"	2	4	40,314.27	49,598	18,564.21	64,378.48 69
70	Thomas Street	1851	"	3	12	30,000	23,433	12,888.15	42,888.15 70
71	Trowbridgeville	1897-1913	Wood	2	2	18,100.84	26,825	1,609.50	14,710.34 71
72	Union Hill	1898-1907	Brick	2	8	45,000	23,660	3,549.00	48,549.00 72
73	Upsala Street	1895-1903	"	2	14	60,000	49,183	5,568.30	65,568.30 73
74	Walnut Street	.....	"	3	7	14,000	9,205	10,125.50	24,125.50 74
75	Ward Street	1894	"	2	12	55,000	33,325	6,665.00	61,665.00 75
76	Washington Street	1866	"	2	2	3,000	7,704	4,832.40	7,822.40 76
77	Webster Square	1858	"	2	4	10,000	23,948	4,789.60	14,789.60 77
78	West Boylston Street	1902-1915	"	2	8	52,364.48	37,863	5,573.60	57,938.08 78
79	Winslow Street	1878	"	2	14	30,000	34,325	9,730.00	39,730.00 79
80	Woodland Street—1	1870	"	3	13	30,000	40,424	16,169.60	46,169.60 80
81	Woodland Street—2	1881	"	2	4	12,000	.....	.....	12,000.00 81
82	Woodland Street (New)	1897	"	2	8	40,000	46,380	11,595.00	51,595.00 82
-	10 Portable Schoolhouses*	.....	Wood	..	..	14,710	.....	.....	14,710.00 —

Total value of real estate.....\$4,364,763.61

*1 at Providence, 1 at Belmont St., 1 at Union Hill, 1 at Gates Lane, 2 at Blithewood, 1 at Canterbury St., 1 at Grafton, 1 at Tatnuck, 1 at Upsala.

TABLE
SHOWING THE BIRTHPLACES OF THE CHILDREN IN THE PUBLIC DAY
SCHOOLS, JUNE 30TH, FOR THE LAST 12 YEARS

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
United States . . .	18272	18448	18482	17888	18085	18370	18681	19072	20194	21629	21880	22359
Canada	215	197	179	176	158	153	149	168	33	144	133	137
Ireland	110	65	59	54	51	45	39	41	145	45	38	21
England	111	130	152	157	178	194	206	221	219	228	213	204
Germany	15	15	8	9	7	12	5	5	9	10	14	40
Armenia							64	71	67	75	53	42
Scotland	27	23	32	38	44	32	46	53	61	70	65	64
Sweden	276	286	252	240	220	230	240	215	210	207	219	196
Russia	440	548	578	592	629	691	727	743	776	774	673	407
Italy	125	106	148	150	164	223	225	233	368	341	323	506
Finland	55	84	66	69	76	90	89	92	102	99	91	96
Syria							35	56	55	43	34	46
Other countries . .	203	176	234	221	228	212	101	116	114	120	104	123
Total	19849	20078	20190	19594	19790	20252	20557	21136	22353	23785	23865	24241

TABLE
SHOWING THE PARENTAGE OF THE CHILDREN IN THE PUBLIC DAY SCHOOLS, JUNE 30TH, FOR THE LAST TWENTY-FIVE YEARS

	1898	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
United States...	6685	7025	7183	7582	7858	8201	8390	8576	8980	9029	8696	8645	8703	8835	8681	8533	8941	8424	8514	8673	8990	8984	9486	9944	9641
Canada...	1181	1112	1230	1350	1567	1701	1766	1752	1656	1548	1640	1476	1356	1404	1429	1998	1828	1268	1235	1264	1267	1892	1440	1272	1845
Ireland...	3148	3163	3136	3173	3243	3361	3365	3339	3419	3462	3148	3374	2952	2885	2795	2825	2825	2502	2470	2460	2360	2484	2490	2387	2316
England...	798	782	815	841	832	898	940	923	939	879	861	838	825	799	808	818	754	760	791	767	721	830	838	836	852
Germany..	240	239	237	252	259	274	278	270	262	260	265	246	244	223	220	217	191	178	154	153	141	157	178	147	143
Armenia..																									
Scotland..	172	178	201	229	264	217	240	239	246	247	255	238	233	246	228	238	232	224	198	230	213	209	238	240	218
Sweden...	1406	1509	1684	1818	2036	2312	2475	2555	2709	2862	2753	2891	2837	2882	2838	2869	2740	2647	2636	2634	2599	2701	2716	2678	2683
Russia....	228	258	321	339			628	713	836	961	983	1161	1237	1408	1650	1769	1872	2081	2301	2396	2651	3102	3526	3821	3663
Italy.....								156	205	234	243	257	258	337	396	463	500	569	635	729	855	1049	1150	1266	1410
Finland...								117	117	136	132	152	170	188	267	267	286	335	355	392	498	482	527	599	634
Syria.....																									
Other Countries	401	405	448	517	597	694	749	493	564	336	534	321	613	642	721	798	725	857	913	476	478	536	668	628	727
Total....	14209	14671	15255	16151	17145	18209	18831	19133	19833	19964	19500	19594	19428	19849	20078	20190	19594	19790	20252	20557	21136	22353	23785	23865	24241

ABSENCE AND TARDINESS

Years	Average Number Belonging	Number of Half Day's Absences	Average to each Pupil	Number of Cases of Tardiness	Average to each Pupil
1867	5,343	189,225	35.6	30,727	6.4
1868	5,874	225,284	38.5	29,457	5.6
1869	6,097	196,159	32.	27,422	5.
1870	6,385	216,096	33.7	25,710	4.6
1871	6,588	233,852	34.6	23,707	4.
1872	6,238	243,575	39.	21,608	3.9
1873	6,180	184,148	29.8	11,132	2.
1874	6,521	166,591	24.2	15,656	2.6
1875	6,705	188,438	27.1	15,648	2.3
1876	7,042	192,079	29.3	15,871	2.4
1877	7,003	176,635	25.2	15,256	2.3
1878	7,686	188,284	24.5	16,449	2.1
1879	7,745	205,681	26.5	16,956	2.2
1880	8,419	258,314	30.7	19,547	2.3
1881	8,860	276,570	31.2	18,702	2.1
1882	9,008	290,475	32.2	22,512	2.5
1883	10,098	361,997	35.8	24,258	2.4
1884	10,147	385,238	37.9	26,333	2.5
1885	10,758	398,281	37.	25,582	2.4
1886	10,751	442,239	41.1	25,407	2.4
1887	10,774	368,837	34.2	23,792	2.3
1888	11,255	444,884	39.4	24,312	2.2
1889	11,437	421,050	36.8	22,971	2.
1890	11,961	441,715	36.9	25,598	1.9
1891	12,285	437,970	35.7	22,609	1.8
1892	13,082	474,365	36.3	22,701	1.7
1893	13,469	384,646	28.5	23,849	1.7
1894	14,128	337,001	23.8	23,895	1.7
1895	14,694	368,773	25.1	24,938	1.7
1896	15,287	375,080	24.5	26,327	1.7
1897	16,374	397,208	24.2	25,320	1.5
1898	17,480	405,652	23.1	26,741	1.5
1899	18,386	525,846	28.6	27,527	1.5
1900	18,756	629,188	33.5	27,523	1.5
1901	19,044	612,148	32.1	29,439	1.5
1902	19,395	619,630	31.9	30,208	1.5
1903	19,554	697,821	35.6	28,435	1.4
1904	20,019	633,409	31.6	26,046	1.3
1905	19,615	583,249	28.7	23,865	1.2
1906	20,086	594,806	29.6	24,896	1.2
1907	20,306	675,004	33.2	25,917	1.2
1908	20,511	636,742	31.	22,968	1.1
1909	19,958	570,389	28.5	22,330	1.1
1910	19,938	562,877	28.2	22,269	1.1
1911	20,514	547,525	26.7	22,923	1.1
1912	20,777	517,751	24.9	24,933	1.2
1913	21,204	558,296	26.3	25,497	1.2
1914	22,317	546,261	24.5	26,000	1.1
1915	23,732	487,286	20.5	24,399	1.
1916	23,944	610,351	25.5	24,280	1.
1917	24,490	544,230	22.2	23,908	.9

LIST OF TEXTBOOKS USED IN HIGH SCHOOLS

GERMAN

		Price
German Reader, Super;	Ginn & Co.	\$0.35
Märchen und Erzählungen, I-II, Guerber;	D. C. Heath & Co.	.50
Graded German Lessons, Collar's Eysenbach;	Ginn & Co.	1.00
Essentials of German, Vos;	Henry Holt & Co.	.80
Practical German Lessons, Thomas;	Henry Holt & Co.	.95
German Grammar, Bacon;	Allyn & Bacon	1.00
German Exercises, Wesselhoeft;	D. C. Heath & Co.	.45
Im Vaterland, Bacon;	Allyn & Bacon	1.00
German Composition, Pope;	Henry Holt & Co.	.85
German-English and English-German Dictionary;	Henry Holt & Co.	1.50
German Composition, Dresden;	American Book Co.	.35
Elementary German Reader;	Ginn & Co.	.60
German Composition, Harris;	D. C. Heath & Co.	.45
German-English and English-German Dictionary,	Blackley and	1.50
Friedlander;	Longmans, Green & Co.	1.00
English for German Composition, Jagemann;	Henry Holt & Co.	.70
German Syntax, Jagemann;	Henry Holt & Co.	.80
Heath's German Dictionary;	D. C. Heath & Co.	1.00

FRENCH

French Grammar, Worman;	American Book Co.	.80
Grammaire Française, Bruce;	D. C. Heath & Co.	.95
Grammaire Française, Larousse;	T. H. Castor & Co.	.40
Chardenal's Complete French Course;	Allyn & Bacon	1.00
Lessons in Idiomatic French, Hennequin;	American Book Co.	.70
French Reader, Super;	D. C. Heath & Co.	.60
Introductory French Prose Composition, François;	American Book Co.	.20
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Exercises in French Composition, Brigham;	D. C. Heath & Co.	.10
French Composition, Parts I-V, Grandgent;	D. C. Heath & Co.	.10
French Grammar, Frazer and Squair;	D. C. Heath & Co.	.95
A French Reader, Aldrich and Foster;	Ginn & Co.	.45
French Composition, Selections, Grandgent;	D. C. Heath & Co.	.45
Heath's French Dictionary;	D. C. Heath & Co.	1.00
Contes et Légendes, Guerber;	American Book Co.	.50
Foundations in French, Aldrich & Foster;	Ginn & Co.	.75

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A Spanish Grammar, Hills and Ford;	D. C. Heath & Co.	1.05
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Latin Book, Second; Miller & Benson;	Scott Foresman & Co.	
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Latin Prose Composition, Pearson;	American Book Co.	.80
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American Literature, Pace;	Allyn & Bacon	

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Second Reader, The World's Greatest Short Stories;	Powers & Lyons	.40

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The Story of Worcester, O'Flynn;	Little, Brown & Co.	60
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Baldwin and Bender's Series of Readers;	American Book Co.	25 to 40
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Boy Blue and His Friends, Blaisdell;	Little, Brown & Co.	35
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Carroll & Brooks Series of Readers;	D. Appleton & Co.	25
Child Life Readers, Blaisdell;	The Macmillan Co.	25 to 40
Dramatic Reader, Knight;	American Book Co.	40
Dramatic Reader, Cyr;	Ginn & Co.	25
Dramatic Readings for Schools, Lansing;	The Macmillan Co.	
Easy Road to Reading, Smith;	Lyons & Carnahan	25 to 35
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First Book for Non-English Speaking People;	D. C. Heath & Co.	25
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Hiawatha Industrial Readers (The);	Rand McNally & Co.	
Holton Primer;	Rand, McNally & Co.	20
Kipling Readers;	D. Appleton & Co.	
Mother Goose Primer, Wiley;	Chas. E. Merrill Co.	30
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New Education Readers, Books I to IV;	American Book Co.	30 to 40
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Outdoor Primer, Grover;	Rand, McNally & Co.	20
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Reading and Language Lessons, Chancellor;	American Book Co.	25
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Child's Garden of Verses, Stevenson;	Rand, McNally & Co.	40
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Our Trees and How to Know Them;	J. B. Lippincott Co.	
Plant Life;	D. C. Heath & Co.	25
Plants and Their Children, Dana;	American Book Co.	55
Reynard, the Fox;	American Book Co.	25
School and Home Gardens, Meier;	Ginn & Co.	65
Stories Mother Nature Told Her Children, Andrews;	Ginn & Co.	50
Trail to the Woods, Hawkes;	American Book Co.	35
Watcher in the Woods, Sharp;	The Century Co.	
Water Babies, Kingsley;	Ginn & Co.	30
White Patch, Patri;	American Book Co.	
Wilderness Babies, Schwartz;	Little, Brown & Co.	50
Wonderful House That Jack Has, Millard;	The Macmillan Co.	40

MATHEMATICS

Everyday Arithmetic, Book I, Hoyt & Peet;	Houghton, Mifflin & Co.	35
Algebra for Grammar Schools, Wheeler;	Little, Brown & Co.	95
First Journeys in Numberland, Harris-Waldo;	Scott, Foresman & Co.	30
Nichols' Graded Lessons in Arithmetic;	Thompson, Brown & Co.	20
Number by Development, Gray;	J. B. Lippincott Co.	
Vocational Arithmetic, Vincent;	Houghton, Mifflin Co.	45

MISCELLANEOUS

A Civil Service Manual, English and Allied Subjects, Ewart, Field & Morrison;	The Home Correspondence School	75
A Civil Service Manual, Geography, Civil Government, Spelling, Ewart, Field & Morrison;	The Home Correspondence School	75
American History, Ashley,	The Macmillan Co.	10
Brewer's Collection of Popular Songs; Orville Brewer Pub. Co.		
Caesar for Beginners, St. Clair;	Longmans, Green & Co.	
Champion Spelling Book, Hicks;	American Book Co.	
Chez Nous, A French First Reader, David; Henry Holt & Co.		65
Civics, An Elementary, McCarthy, Swan & McMullen;	Thompson, Brown & Co.	40
Civics for Foreigners, Plass;	D. C. Heath & Co.	50
Cuentos Modernos, Johnson;	American Book Co.	50
Despues la Cluvia el sol;	R. D. Cortina Co.	
El Capitan, Veneno;	D. C. Heath & Co.	45
Elementary Spanish Reader, Loiseaux; Silver, Burdett & Co.		75
English Composition and Literature, Webster;	Houghton, Mifflin Co.	75
English for Foreigners, O'Brien;	Houghton, Mifflin Co.	40
English for Foreigners, Wallach;	Silver, Burdett & Co.	35
Essentials of English, First and Second Books;		
Pearson & Kirchwey;	American Book Co.	35 and 55
First Book in German, Bagster-Collins; The Macmillan Co.		90
First Manual of Composition, Lewis; The Macmillan Co.		50
First Reader for Foreigners, Sharp; American Book Co.		35
First Reader for New American Citizen, Mintz;	The Macmillan Co.	40
First Lessons in English for Foreigners in Evening Schools, Houghton;	American Book Co.	30
French Course, Longmans Modern, Part I, Bertenshaw;	Longmans, Green & Co.	45
French for Daily Use, Prentys;	Wm. R. Jenkins Co.	
German Lessons, Harris;	D. C. Heath & Co.	50
History of American Literature, Halleck; American Book Co.		
How to Learn English, Prior & Ryan; The Macmillan Co.		
Introduction a la Lengua Castellana; William R. Jenkins		1. 00
Lehrbuch der Deutschen Sprache, Spanhoofd;	D. C. Heath & Co.	85
Lessons in English for Foreign Women, Austin;	American Book Co.	
Mastery of Words, The, Arnold; Iroquois Publishing Co.		
New American Citizen, Mintz; The Macmillan Co.		
One Hundred and One Best Songs;	The Cable Co.	
Practical Exercises in English, Buehler; American Book Co.		40
Practice Work in English, Knight; Longmans, Green & Co.		
Practical Speller for Evening Schools, Mintz;	The Macmillan Co.	
Preparing for Citizenship, Guitteau; Houghton, Mifflin & Co.		65
Primary Number Manual, Bigelow; D. C. Heath & Co.		25
School Hygiene, Shaw; The Macmillan Co.		85
Selections from American Orations, Brittain & Harris;	American Book Co.	
Selections from Standard French Authors, Guerlac; Ginn & Co.		45
Spanish Commercial Reader, Harrison;	Ginn & Co.	

Spanish Composition, Umphrey;	American Book Co.	
Spanish Grammar, Abridged, Olmsted & Gordon;	Henry Holt & Co.	
Spanish Tales for Beginners, Hills;	Henry Holt & Co.	
Standard Dictionaries;	Funk & Wagnalls	
Standard Song Classics, Baldwin & Newton;	Ginn & Co.	1. 20
Vergil's Aeneid, Books I-VI, Ballard;	Houghton, Mifflin Co.	
Webster-Cooley Two-Book Course in Language, Grammar and		
Composition, Books I and II;	Houghton, Mifflin Co.	35 and 50
What to do at Recess, Johnson;	Ginn & Co.	20
Word-Mastery, Akin;	Houghton, Mifflin Co.	20

ORGANIZATION OF THE PUBLIC SCHOOLS

CLASSICAL HIGH SCHOOL

(Corner Irving and Chatham Streets)

Teachers	Salary	Date of Appoint.
Chester T. Porter, Principal (appointed),	\$3,000	July, '98
Daniel F. O'Regan, Assistant Principal (appointed),	2,200	July, '12
Martha Fagerstrom, Clerical Assistant,	850	July, '07
Dorothy B. Crane, Clerical Assistant,	650	Feb., '16
William F. Abbot,	2,400	Sept., '80
Susan J. W. Brown,	1,200	Sept., '13
Lillian M. Crawford,	1,400	July, '98
Maud A. Dodge,	1,400	Sept., '89
John E. Dowd,	1,800	July, '09
Albert Farnsworth (appointed),	1,700	Jan., '18
Georgiana K. Fiske,	1,100	Sept., '13
Marion L. Gaillard,	1,250	Sept., '05
Annie May Henderson,	1,400	Sept., '94
Perry S. Howe,	2,000	Feb., '12
Frances M. Hunt,	1,400	July, '98
Mary P. Jefts,	1,400	Jan., '80
Frank P. McNamara (appointed),	1,700	Jan., '18
George B. O'Flynn,	1,200	Sept., '13
Elizabeth E. Pierce,	1,175	July, '06
Harriet R. Pierce,	1,400	Sept., '94
Martin M. Post,	2,000	July, '08
Eugene H. Powers,	1,100	July, '15
Florence M. Powers,	900	Sept., '13
Allan G. Rice,	1,600	July, '11
Florence E. Ryan,	950	Nov., '12
Anne F. Smith,	1,050	July, '09
Gertrude Souther,	850	July, '16
Caroline P. Townsend,	1,400	Jan., '69
Mary A. Waite,	1,100	July, '08
Margaret M. Walsh (appointed),	800	Feb., '18
Gertrude E. Williams,	1,250	Mar., '07
Frank A. Wilson,	2,000	Oct., '95

HIGH SCHOOL OF COMMERCE

(Corner Walnut and Maple Streets)

Calvin H. Andrews, Principal,	\$3,200	Sept., '98
Robert T. Elliott, Assistant Principal,	2,300	July, '07
Alice M. Jackson, Clerical Assistant,	850	July, '05
Anna T. Kelley, Clerical Assistant,	850	Nov., '81
Gladys M. Dowley, Clerical Assistant (Permanent Substitute),	600	
Sarah M. Averill,	1,400	April, '81
Walter E. Barnard,	1,400	Feb., '17
Margaret T. Brown,	950	April, '95
Grace A. Buxton,	1,350	Dec., '16
Laura E. Carrigan,	1,300	Oct., '02

Teachers	Salary	Date of Appoint.
Elizabeth M. Craighead,	1,300	July, '13
L. Edith Curtis,	1,050	Sept., '15
Charles E. Disney,	1,800	Feb., '11
Harold L. Fenner,	1,800	Feb., '13
Florence N. Flagg,	1,400	Dec., '02
Joseph L. Flaherty,	1,700	Nov., '07
Grace A. Gates,	1,300	Nov., '16
Helen E. Greenwood,	1,400	July, '01
Rolland R. Greenwood,	1,800	Oct., '10
Grace Harding (appointed),	950	July, '17
Marion L. Higgins,	1,125	Feb., '12
Charles E. Hutchins,	2,000	May, '14
Helena T. Kavanagh,	1,000	Sept., '13
Clara L. Kneeland, Permanent Substitute,	800	
Edna H. Legg,	1,400	Sept., '93
Bertha E. Longley,	1,400	Sept., '94
Charlotte R. Lowell (appointed),	1,100	Nov., '17
Walter A. Morrill (appointed),	1,600	July, '17
Alma F. Morrisette,	1,100	Mar., '08
Matthew R. McCann,	1,850	Feb., '11
Jean B. McIver,	1,400	Mar., '01
William T. McKenna,	2,000	Sept., '04
Florence E. McMahan,	1,050	April, '10
Albert F. Norris,	1,400	Feb., '16
John W. Oakes,	1,250	July, '14
John F. O'Connor,	2,000	July, '92
Paul A. Oehme,	1,200	Sept., '13
Joseph H. Perry,	2,400	Sept., '82
Ethel L. Rider (appointed),	1,050	July, '17
Marion E. Rose,	1,400	Sept., '92
Mary M. Sexton,	900	July, '14
Max Small (substitute),	600	
Laura G. Smith,	975	Feb., '14
Ruth A. Smith,	1,000	Feb., '17
Timothy J. Stevenson,	1,500	Sept., '14
Myron W. Stickney,	2,000	July, '01
Helen J. Stimpson,	1,400	Sept., '99
Frederick A. Sweet,	2,000	Nov., '00
Ruth Woodward (substitute),	600	
Anjennette Newton, Salesmanship Class,	1,350	Sept., '16

HIGH SCHOOL OF COMMERCE

(Sycamore Street)

Mary M. Bradley,	\$1,025	Feb., '11
Louise E. Carlton (appointed),	900	Oct., '17
Patrick A. Dolan (appointed),	1,400	July, '17
Grace M. Ellis,	875	Mar., '16
Margaret H. O'Donnell,	950	July, '07
Helen M. O'Leary (appointed),	850	July, '17
Willard L. Osborn,	1,200	July, '16

SOUTH HIGH SCHOOL

(Richards Street)

Edward M. Woodward, Principal,	\$3,200	Sept., '86
Thomas F. Power, Assistant Principal (appointed),	2,200	July, '12
Georgianna M. Newton, Clerical Assistant,	850	Nov., '81

Teachers	Salary	Date of Appoint.
Susan A. McGauley, Clerical Assistant (appointed),	850	Oct., '09
Sarah Averill,	1,400	Dec., '97
Samuel Beeber,	2,000	July, '12
Bertha Blodget,	850	Sept., '13
M. Ethel Cochran,	1,000	July, '14
Eleanor Conlon,	1,400	Dec., '02
Oliver R. Cook,	2,000	Sept., '97
Helena M. Corey,	1,400	July, '95
Alice L. Day,	1,250	May, '93
Charles W. Delano,	2,000	July, '96
Ellen E. Fitzgerald,	1,125	May, '90
LeRoy M. Handy,	1,500	Oct., '14
Grace L. Hill,	1,400	July, '96
Cora S. Hopwood,	1,200	Feb., '07
Ruth Jenkins,	1,150	May, '16
Florence E. Johnson,	1,250	Sept., '07
Marietta Knight,	1,400	Sept., '87
Grace N. Laird,	1,300	Nov., '04
Marian C. Legg,	1,025	Feb., '11
Harold C. Martin,	1,900	Dec., '11
Wendell P. Parker,	2,000	Sept., '96
Alice E. Phillips,	1,100	Sept., '13
Mary K. Richardson,	825	Jan., '16
George G. Sampson,	2,000	July, '08
Everett G. Sherwin,	2,000	Mar., '92
Caroline F. Silvester,	1,400	May, '92
Leonora Vinal,	1,400	July, '96
Thomas F. Waugh,	1,700	July, '16
Elizabeth C. Woodman,	1,500	July, '95

NORTH HIGH SCHOOL

(Salisbury Street)

Charles E. Burbank, Principal,	\$3,200	Sept., '92
George H. Boyden, Assistant Principal (appointed),	2,200	July, '12
Sara E. Newcomb, Clerical Assistant,	850	July, '12
Amy W. Greene, Clerical Assistant,	650	Sept., '16
Genevieve K. Ball,	950	July, '15
Mildred L. Brennan,	925	Feb., '14
Lawrence W. Brigham,	1,200	July, '16
Sarah Brigham,	1,400	Sept., '76
Jennie D. Carruthers (appointed),	950	July, '17
William J. Casey,	1,600	Feb., '13
George B. Cashen,	1,500	July, '11
Josephine E. Davis,	1,250	Sept., '06
Ernest W. Desper,	2,000	July, '93
Cara F. Dillingham,	1,175	Feb., '11
Franklin B. Dowd,	1,900	Feb., '14
Helen M. Downey,	1,075	Feb., '11
Mariquita P. Eddy,	1,150	Sept., '16
W. Roscoe Fletcher,	2,000	Feb., '07
Mae E. Guerin (appointed),	850	July, '17
Hervey F. Houghton,	1,950	Feb., '11
Ralph A. Lane,	1,800	Sept., '11
A. Mae Lawrence,	1,400	July, '01
Anna T. Marble,	1,000	July, '12

Teachers	Salary	Date of Appoint.
Mary G. Morrison,	1,000	Sept., '13
Arthur C. Nutt,	1,900	July, '14
Harriet E. Roe,	1,025	Feb., '11
Katherine M. Quint,	1,300	July, '12
Jennie E. Schofield,	925	Feb., '14
Eunice W. Smith,	925	Feb., '14
Cora B. Squier,	1,200	Sept., '07
Mary A. R. Streeter,	1,050	Oct., '09
John F. Sullivan,	1,100	July, '16
Olive Tolman,	1,050	July, '14
Anna M. Waite,	1,075	Sept., '82
A. Harry Wheeler,	2,000	Sept., '94
Jane M. Wheeler,	1,300	April, '95
Ruth G. Woodis, Permanent Substitute,	800	

ABBOTT STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.
Clough,	Alice H. Belding, Principal,		\$1,500	Jan., '88
"	Margaret Scott, Assistant to Principal,	VIII	950	Jan., '88
"	Louise A. Stockdale,	VIII-VII	850	April, '88
"	S. Alice Hopwood,	VII-VI	850	Jan., '92
"	Ethel M. Woods,	VI-V	850	May, '94
"	Elise S. Topanelian,	V	850	Sept., '96
"	Marietta Matthews,	IV	850	May, '94
"	Margaret E. Scannell,	IV-III	750	Feb., '13
"	Gertrude E. Nash,	III-II	850	Nov., '89
"	Cora B. Janes,	II	850	June, '98
"	Emma A. Hopwood,	I	850	Feb., '95
"	Minnie I. Gage,	I	850	Feb., '90
"	Grace A. Coleman, Kindergartner,		850	July, '04

ADAMS SQUARE

Hanson,	Mary Drake, Principal,		\$1,200	May, '84
"	Alice G. Nichols, Assistant to Principal,	VIII	700	Sept., '10*
"	Ethel M. Rankin,	VII	800	July, '11
"	Sarah C. Gunn (appointed),	VI	700	Nov., '17
"	Alice R. Christman,	V	750	Feb., '13
"	Ina A. Whitman,	IV	850	Sept., '94
"	Elsa Dahl,	III	700	Sept., '14
"	Helen B. Diggins,	II	600	Mar., '16
"	Gertrude I. Meagher,	I	800	July, '11

ADAMS STREET

Hanson,	Ellen E. Moynihan, Principal,		\$1,150	Oct., '99
"	Catherine P. Sullivan, Assistant to Principal,	IV	700	Sept., '14
"	Mary Millea,	IV-III	600	Feb., '16
"	Anita Asher,	III-II	600	Feb., '16
"	Martha Osterberg,	II	850	April, '04
"	Gertrude V. Traynor,	II-I	700	July, '14
"	Florence L. Cota,	I	850	Feb., '94

*Reappointed November, 1915.

Visitors	Teachers	Grade	Salary	Date of Appoint.
Hanson,	Lillie R. Cone,	I	650	July, '15
"	Mary A. Murphy, Kindergartner,		850	July, '04
"	Nora A. Reardon, Acting Kindergartner,		550	Oct., '12
ANDOVER STREET				
Cutler,	Alma A. Bacon, Principal,		\$1,200	Nov., '01
"	Rose L. M. Girardin, Assistant to Principal,	VI	600	Feb., '16
"	Agnes B. Gilway,	V	700	Sept., '14
"	Mary E. Marshall,	IV	700	July, '14
"	Lillian A. Warner,	III	850	July, '09
"	Hilma Holter,	II	850	Jan., '02
"	Grace L. Diggins,	I	550	Feb., '17
ASH STREET				
Underwood,	Joseph J. Kiley, Principal (appointed),		\$1,300	July, '06
"	Mary M. McKeon, Assistant to Principal,	VI	700	July, '14
"	Elizabeth M. Wall,	V	700	Sept., '14
"	Cora E. Fleming,	IV	650	Mar., '15
"	Anna R. Lee,	III	850	Oct., '00
"	Cornelia V. Davis,	II	850	June, '94
"	Anna L. Donovan	I	650	Sept., '15
BELMONT STREET				
Hanson,	Benjamin E. Martin, Principal,		\$2,000	July, '15
"	Addie T. Riordan, Assistant to Principal,	VIII	950	May, 84*
"	Mary E. Loughlin,	VIII	950	March, '91
"	Nellie I. Truchon, Preparatory,		950	May, '97
"	Emma E. Allison, Preparatory,		950	Oct., '99
"	Mary L. Gaffney, Preparatory,		950	April, '84
"	Katharine M. Corliiss,	VII	850	Nov., '06
"	Annie E. Murphy,	VII-VI	850	May, '01
"	Georgiana M. O'Connor,	VI-V	850	Feb., '92
"	Catherine C. Moynihan,	V	800	Sept., '11
"	Elizabeth O'Connell,	V-IV	600	Jan., '17
"	Alice Chapin,	IV	850	Sept., '83
"	Loretta G. Griffin,	III	850	Feb., '09
"	M. Agnes Maroney,	III-II	850	May, '93
"	Elizabeth G. Shanahan,	II	850	Nov., '01
"	Sarah E. Wilson,	I	850	Oct., '94
"	Alice F. Dee,	I	750	Feb., '13
"	Frances R. Boyle (appointed),	I	550	March, '17
"	Lydia W. Ball, Clerical Assistant,		800	Sept., '76
BLITHEWOOD				
Cookson,	Abbie C. Knight, Principal,	VII-VI	\$1,000	Oct., '88
"	Mabelle E. Coté,	V-IV	650	March, '15
"	Anna C. Conroy (appointed),	III-II	550	Feb., '18
"	Alice I. Farnan (appointed),	I	550	March, '17
"	Angela R. Cooney (appointed),	I	550	Oct., '17

*Reappointed September, 1900.

BLOOMINGDALE				
Visitors	Teachers	Grade	Salary	Date of Appoint.
Fox,	Louise M. Beaumont, Principal,		\$1,050	March, '03
"	Jennie M. Smith, Assistant to Principal,	VI	650	July, '15
"	Maria McLaughlin,	V	850	July, '01
"	Anna G. Apholt,	IV-III	550	Feb., '17
"	Sarah C. Warren,	III-II	700	Oct., '14
"	Ruth W. Power (appointed),	II-I	550	Dec., '17
"	Mary E. Higgins,	I	850	Nov., '93
BURNCOAT				
Hanson,	Katherine T. Kennedy, Principal,	VII-VI	\$1,000	March, '01
"	Margaret V. Leahy,	V-IV	850	Oct., '08
"	Anna M. Fitzpatrick (appointed),	IV-III	550	Sept., '17
"	Helen G. Moran,	II	750	Jan., '14
"	Anne F. Kane,	I	600	Sept., '16
CAMBRIDGE STREET				
Cookson,	William A. Tierney, Principal,		\$2,200	July, '99
"	Agnes L. Harrington, Assistant to Principal,	VIII	950	July, '06
"	Katherine Leonard,	VII	800	July, '16
"	Alice M. Burrill,	VI	700	Sept., '80*
"	Eva C. Cunningham,	VI	650	Sept., '15
"	Catherine V. Conlon,	VI-V	850	Oct., '99
"	Alice M. Leonard,	V	850	March, '98
"	Mary E. Finneran,	IV	850	March, '08
"	Margaret H. Casey,	IV	850	April, '95
"	Mary C. O'Grady,	III	850	March, '00
"	Frances C. Mooney,	III-II	800	July, '09
"	Esther C. McSheehy,	II	850	April, '94
"	Agnes T. Hart,	III	850	Oct., '04
"	Florence H. Towne,	I	850	March, '92
"	Anna M. Sears,	I	800	July, '14
"	Catherine T. Healy,	I	700	Oct., '14
"	Alice O. Brownhill, Kindergartner,		850	July, '04
"	Beatrice M. Mack, Assistant,		500	Sept., '14
"	Margaret A. Tracy, Ungraded School,		850	May, '10
"	Mary J. Walsh, Clerical Assistant,		550	March, '17
CANTERBURY STREET				
Timon,	Thomas J. Higgins, Principal,		\$2,300	April, '87
"	Anna G. Cullen, Assistant to Principal,	VIII	950	May, '91
"	Ellen T. McGillicuddy,	VIII	950	April, '93
"	Emily F. Fagan,	VII	850	Feb., '95
"	Lena R. Adams,	VII	850	May, '99
"	Mary J. Callahan,	VI	850	Oct., '98
"	Catherine T. Courtney,	VI	600	Feb., '16
"	Mary M. Bowen,	V	850	Sept., '81
"	Gertrude L. Murphy,	V	850	Oct., '05
"	J. Rose Cunningham,	V	600	July, '16

*Reappointed July, 1916.

Visitors	Teachers	Grade	Salary	Date of Appt.
Timon	Margaret Mullany,	IV	850	Feb., '04
"	Etta T. Whalen,	IV	850	May, '83
"	Mary E. Reynolds,	III	850	May, '89
"	Mary G. Wilmouth,	III	850	April, '04
"	Ruth I. Bacon,	II	800	Sept., '15
"	Ella M. Quinn,	II	850	Sept., '10
"	Ella T. McInerny,	I	850	Oct., '99
"	Geraldine E. Condon,	I	750	Feb., '13
"	Ethel G. Tolman,	I	700	Oct., '14
"	Ella G. Melaven, Kindergartner,		850	July, '96
"	Sarah C. Montgomery, Kindergartner,		550	Sept., '14
"	Maria F. Bosworth, Clerical Assistant,		700	Sept., '84
CHANDLER STREET				
Rice,	Cora A. Baldwin, Principal,		\$1,500	July, '02
"	Jane E. Millea, Assistant to Principal,	VIII	950	Feb., '05
"	Carrie L. Stockwell,	VII	850	Oct., '97
"	Margaret E. Flynn,	VI	850	April, '95
"	Fanny A. Williams,	V	850	Sept., '76
"	Ada Condy,	IV	850	Sept., '92
"	Cora E. Kemp,	III	850	Oct., '87
"	Ida B. Woodward,	II	850	Nov., '00
"	Margaret E. Maher,	II-I	750	March, '13
"	Rose A. Parrott,	I	850	March, '98
"	Mildred L. Bacon, Kindergartner,		650	Oct., '12
COLUMBUS PARK				
McGauley,	Helen F. Walker, Principal,		\$1,075	Nov., '89
"	Helen H. Todd, Assistant to Principal,	VI	700	April, '14
"	Katherine L. Power,	V	850	Feb., '08
"	Mabel E. Nutting,	IV	550	Feb., '17
"	Florence L. Brigham,	III	700	July, '16
"	Abbie T. Morrill,	II	750	Sept., '13
"	Mabel R. Quinn,	I	850	July, '07
DARTMOUTH STREET				
Fox,	Frank A. Andrews, Principal,		\$1,600	Nov., '01
"	Katharine T. Sullivan, Assistant to Principal,	VII	850	July, '06
"	Katharine C. Flood,	VI	850	Sept., '08
"	Helen M. Fleming,	VI	850	Sept., '10
"	Gertrude E. Mongovan,	V	800	Sept., '11
"	Maria J. Burns,	V	850	July, '06
"	Margaret C. Gleason,	IV	850	Oct., '99
"	Gertrude C. Power,	IV	800	Oct., '12
"	Katherine L. Broderick,	III	850	May, '96
"	Helena C. Cannon,	III	850	Nov., '10
"	Alice A. Dorman,	II	650	Sept., '15
"	Sabina W. Cahill,	II	650	Oct., '15
"	Josephine E. Eagan,	I	850	Jan., '97
"	Hannah M. Sullivan,	I	700	Oct., '14
"	Catherine L. Coffey (appointed),	I	550	Oct., '17
"	May H. Wiley, Kindergartner,		600	May, '16
"	Maude Butler, Assistant,		450	Oct., '17
"	Rebecca H. Davie, Clerical Assistant,		700	Sept., '81*

*Reappointed September, 1914.

DIX STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.
Elder,	Frederick W. Vermille, Principal,		\$2,400	Sept., '92
"	Theresa V. Dowd, Assistant to Principal,	VIII		
"	Mary K. McAuliffe,	VIII	950	Feb., '92
"	Anna T. Cavanaugh, Preparatory,		900	Oct., '09
"	Annie B. Parker, Preparatory,		950	Dec., '82
"	Cecile I. Bieberbach,	VII-VI	950	Feb., '93
"	Anna T. Lahey,	VI	850	Nov., '01
"	Rose H. Mahan,	V	650	Sept., '15
"	Katherine A. Coughlin,	V-IV	850	Nov., '91
"	Margaret S. Kilpatrick,	IV	650	Feb., '15
"	Margaret T. Ahaesy,	IV-III	600	Feb., '16
"	Alice W. Giddings,	III	850	Dec., '04
"	Agnes Dolan,	II	850	Sept., '74
"	Marietta McNulty,	II	850	Oct., '99
"	Grace I. Chapin,	I	850	Jan., '92
"	Elizabeth F. Ryan,	I	850	Jan., '97
"	Florence L. Goddard, Kindergartner,		850	Dec., '04
"	Mabel Sherman, Assistant (appointed),		450	Nov., '07
"	Myrtis I. Kirby, Clerical Assistant,		700	Oct., '17

DOWNING STREET

Rice,	Kate E. Smith, Principal,		\$1,500	Feb., '88
"	Edith A. Gainsman, Assistant to Principal,	VII	850	Nov., '01
"	Mary A. Daly,	VI	850	Feb., '98
"	Anna M. Babcock,	VI-V	850	Nov., '94
"	Pearl A. Miller,	V	600	Sept., '16
"	Anna H. Duquette,	IV	850	June, '93*
"	Josephine P. Convery,	IV-III	850	Oct., '88
"	Elizabeth W. Carver,	III	850	Nov., '00
"	Mary T. Lynch,	II	850	Feb., '00
"	Ellen G. McDermott,	I	850	May, '96
"	Mabel T. Kneeland,	I	850	April, '07
"	Ellen T. Maher,	I	850	Oct., '99
"	Marion E. Taft, Kindergartner,		850	June, '03
"	Dorothy M. Buttrick, Assistant (appointed),		450	Sept., '17

EAST KENDALL STREET

Hanson,	Edith M. Rolston, Principal,		\$1,900	Nov., '84
"	Carrie A. Thompson, Assistant to Principal,	VIII	950	May, '86
"	Ethel G. Ward (appointed),	VII	550	July, '17
"	Katherine V. Keany,	VI	850	Feb., '00
"	Nora T. Salmon,	VI	850	June, '03
"	Tina C. Weibust,	V	750	Oct., '13
"	Katherine F. Simonds,	V-IV	850	April, '97
"	Esther R. Cannon,	IV	700	July, '14
"	Agnes C. Burns,	IV-III	850	Oct., '04
"	Alice L. Farwell,	III	850	Sept., '08
"	Mary M. Carroll,	II	700	Feb., '14
"	Mary T. Sharkey,	II	850	April, '00
"	Theresa F. McQueeny (appointed),	I	550	Oct., '17
"	Josephine V. Kane,	I	850	July, '06
"	Lella M. Ayres, Kindergartner,		850	March, '99

*Reappointed December, 1906.

EDGEWORTH STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.
Cutler,	William F. Butler, Principal,		\$1,900	March, '00
"	Julia A. Butler, Assistant to Principal,	VIII	950	Feb., '95
"	Katharine T. Goulding,	VII	800	July, '11
"	Katherine E. White,	VI	850	April, '95
"	Margaret T. Hurley,	VI-V	850	Sept., '10
"	Catherine V. O'Toole,	V	750	Jan., '14
"	Mary L. Scott,	IV	850	Nov., '98
"	Isabella G. Diggins,	IV-III	850	Nov., '93
"	Annie T. McGrath,	III	850	Feb., '91
"	Ellen M. Holley,	III-II	850	May, '01
"	Mary E. Sayle,	II	850	Sept., '06
"	Alice E. Deignan,	II-I	800	Sept., '11
"	Elizabeth G. McManus,	I	850	May, '01
"	Rebecca M. Maguire,	I	600	Oct., '16
"	Nellie J. Bryant, Kindergartner,		850	Jan., '07
"	Rhea Y. Houle, Assistant (appointed),		450	Sept., '17
"	Nellie G. Carey, Ungraded School,		900	June, '90
"	Grace E. Lewis, Clerical Assistant (appointed),		600	Sept., '86*

ELIZABETH STREET

Hanson,	Emma M. Plimpton, Principal,		\$1,500	Sept., '81
"	Gertrude M. Dodge, Assistant to Principal,	VIII	875	Feb., '09
"	Winifred C. Callahan,	VII	850	Jan., '06
"	Mary V. Smith,	VI	850	May, '15
"	Maude A. Willard,	V	850	Sept., '08
"	Florence G. Holden,	IV	850	Dec., '01
"	Helen J. Kennedy (appointed),	IV-III	550	Oct., '17
"	May L. Brooks,	III	850	June, '99
"	Martha E. Peck,	III-II	850	Feb., '93
"	Margaret J. Shea,	II	650	Oct., '15
"	Bessie L. Jardine,	I	750	Oct., '13
"	Mary J. M. Larkin,	I	850	Feb., '04
"	G. Hazel Swan, Kindergartner,		850	July, '06
"	Helen L. Shepard, Assistant (appointed),		450	July, '17

FREELAND STREET

McGauley,	Jennie L. Dearborn, Principal,		\$1,275	Dec., '77
"	Florence S. Jenkins, Assistant to Principal,	VII	850	April, '95
"	Susan R. Hartwell,	VI	850	Sept., '86
"	Myra T. Warfield,	VI-V	800	March, '94†
"	Anna V. Matthews,	V-IV	600	Feb., '16
"	Annabel E. Doyle (appointed),	IV	550	Oct., '17
"	Maud B. Hubley,	III	850	Oct., '03
"	Grace H. Bishop,	II	850	Sept., '90
"	Emily B. Pellet,	I	850	June, '93

*Reappointed November, 1917.

†Reappointed July, 1911.

GAGE STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.
Underwood,	George F. McCauley, Principal (appointed),		\$1,400	Oct., '02
"	Netty A. Starkey, Assistant to Principal,	VI	850	May, '90
"	Teresa K. Garvey,	VI-V	700	July, '14
"	Agnes V. Mara,	V	600	Feb., '16
"	Jennie E. Maloney,	IV	850	Dec., '74
"	Mary J. O'Connor,	IV-III	850	Sept., '74
"	Katherine G. Shea,	III	850	Feb., '09
"	Jennie A. Casey,	III-II	850	Jan., '89
"	Mary E. Donohue,	II	850	July, '03
"	Mary G. Coffey,	II-I	850	Dec., '08
"	Esther Lundberg,	I	850	Oct., '06
"	Mary F. Murphy,	I	700	Sept., '14
"	Margaret E. McManus,	I	850	July, '06
"	Mary F. McKenna,	I	850	Jan., '09
"	C. Grace Connell, Kindergartner,		750	Feb., '11
"	M. Emma Batty, Acting Kindergartner (appointed),		550	July, '17
"	Alice A. Powers, Ungraded School,		900	Jan., '08
"	Joie F. Riordan, Ungraded School,		900	May, '96
"	Carrie L. Fletcher, Clerical Assistant,		700	Oct., '87

GATES LANE

McGauley,	Annie W. Newell, Principal,		\$1,800	March, '85
"	Florence Maynard, Assistant to Principal,	VIII	950	Sept., '06
"	Fannie M. Holmes,	VIII-VII	950	May, '01
"	Catherine A. Doyle,	VII	800	Feb., '11
"	Almira G. Coulson,	VI	700	July, '14
"	Hattie G. Gates,	VI-V	850	Sept., '80
"	A. Eliese Tilson,	V	850	Nov., '01
"	E. Jennie Meyers,	V-IV	850	Oct., '97
"	Addie M. Ginn,	IV-III	850	Nov., '00
"	Mary E. McPartland,	III	800	Feb., '11
"	Mary V. Sullivan,	III-II	850	Oct., '09
"	Madge L. Goodspeed,	II-I	650	Jan., '18
"	Marion E. Woodhead,	I	650	July, '15
"	Carrie C. Kinsley, Kindergartner,		850	Feb., '02
"	Bessie S. Pierce, Ungraded School,		900	Dec., '98

GRAFTON STREET

Underwood,	Joseph E. Underwood, Principal,		\$2,300	Dec., '90
"	Kate A. McLoughlin, Sub-Master,	VIII	1,050	Feb., '80
"	Nellie A. McDonnell,	VIII	950	Nov., '00
"	Harriet A. Sayle,	VIII	950	Oct., '99
"	Mary E. F. Shea,	VIII	900	April, '04
"	Edward A. Quinland,	VII-VI	850	Sept., '82
"	Carrie M. Adams,	VII-VI	850	Sept., '78
"	Katharine L. McQuaid,	VI	850	March, '93
"	Helen L. King,	VI-V	700	Dec., '14
"	Mary E. Keeley,	V	750	Feb., '13
"	Kathrine M. Daley,	IV	850	Nov., '07
"	Mary M. Moran,	IV	850	June, '94

Visitors	Teachers	Grade	Salary	Date of Appoint.
Underwood,	Mary A. Fleming,	III	850	May, '97
"	Katherine C. McNamara,	III	850	Sept., '05
"	Katherine Sayle,	III-II	850	Sept., '92
"	Annie G. Roche,	II	750	Oct., '13
"	Gertrude T. Kane,	II	850	Oct., '04
"	Mary G. Daley,	I	850	Feb., '04
"	Adeline V. Callahan,	I	800	July, '11
"	Anna E. Fitzpatrick (appointed),	I	550	Feb., '17
"	Mary I. McDonald,	I	550	Feb., '17
"	Minnie T. Burke, Kindergartner,		850	Nov., '00
"	Elizabeth F. McCauley, Kindergartner,		600	Oct., '12
"	Margaret G. Sullivan, Ungraded School,		900	May, '89
"	Mary B. Kennedy, Ungraded School,		875	Feb., '09
"	Ray B. Dann, Clerical Assistant,		550	March, '17

GREENDALE

Cutler,	Anna M. Johnson, Principal,		\$1,150	Jan., '89
"	Mary E. Thompson, Assistant to Principal,	VIII	950	May, '98
"	Agnes R. Morrison,	VIII	650	Sept., '15
"	Warren K. Harrod,	VII-VI	850	May, '01
"	Cora D. E. Robinson,	VI-V	850	March, '88
"	Alice S. Nelson,	V-IV	850	Dec., '02
"	Mary A. Shea,	IV-III	650	July, '15
"	Mary E. Haskell,	III-II	850	May, '03
"	Sara I. Cunningham,	II-I	600	Oct., '16
"	Sarah B. Marsh,	I	700	April, '14
"	Grace L. Bancroft, Kindergartner,		750	March, '11

HARLOW STREET

Cutler,	Annie J. Butterfield, Principal,		\$1,300	Feb., '88
"	Mary E. Lewis, Assistant to Principal,	VII-VI	850	March, '09
"	Annie G. Thompson,	VI-V	850	April, '87
"	Elsie G. Doherty,	V	850	Oct., '09
"	Stella A. Morrisette,	IV	850	Sept., '07
"	Agnese G. Salmon,	III	850	Oct., '04
"	Nellie E. Conlon,	III	600	Feb., '16
"	Harriet A. Foley,	II	850	Sept., '94
"	Julia E. McNulty,	II	850	June, '00*
"	Margaret Quinn (appointed),	I	650	July, '17
"	Elizabeth M. St. John,	I	850	July, '07
"	H. Mabel McGowan, Kindergartner,		850	March, '99

JAMESVILLE

McCauley,	Florence St. Amour, Principal,	V-III	\$900	May, '02
"	Mabel A. Kelley (appointed),	II	550	Oct., '17
"	(Substitute),	I	500	

LAKE VIEW

Hanson,	Wilfred E. L. Todd, Principal,		\$1,200	April, '00
"	Avis M. Quinlan, Assistant to Principal,	VIII-VII	850	Oct., '10
"	Ellen C. Thompson,	VII-VI	700	March, '14

*Reappointed September, 1908.

Visitors	Teachers	Grade	Salary	Date of Appoint.
Hanson,	Katherine A. Dunn,	V-IV	650	July, '15
"	Carrie L. Granger,	III-II	800	Dec., '07
"	Ella C. Waugh,	II-I	750	Feb., '13
"	Florence E. Howe, Kindergartner,		700	April, '12

LAMARTINE STREET

Timon,	Richard H. Mooney, Principal,		\$2,400	Sept., '81
"	Francis J. Dolan, Assistant to Principal,		850	Dec., '05
"	Mary J. Sullivan,	VIII	950	Sept., '84
"	Mary E. Killelea,	VIII	950	Oct., '97
"	Mary C. Healy,	VII	850	March, '01
"	Francis J. Dolan,	VII		
"	Elizabeth T. Sharry,	VI	850	Oct., '99
"	Catherine M. McHugh,	VI	850	Dec., '91
"	Ellen G. Daley,	V	850	May, '84
"	Ellen A. Courtney,	V	850	Dec., '94
"	Anna T. Smith,	V-IV	850	Feb., '84
"	Margaret M. Gaynor,	IV	850	Nov., '96
"	Agnes T. Sullivan,	IV	850	Feb., '04
"	Mary F. McGrath,	III	850	June, '96
"	Elizabeth G. McHugh,	III	850	June, '97
"	Margaret B. Smith,	II	850	Dec., '01
"	Julia V. Welch,	II	850	Oct., '09
"	Annie G. O'Day,	II	850	May, '95
"	Catherine A. McHugh,	II-I	850	Nov., '01
"	Alice M. Cannon,	I	800	Feb., '11
"	Loretta D. Cannon,	I	800	Oct., '11
"	Sarah M. Kneeland,	I	850	Nov., '98
"	Margaret G. Regan,	I	800	Oct., '12
"	Catherine E. F. Hunt,	I	700	Oct., '14
"	Mary R. Murphy,	I	900	Sept., '15
"	Mabel Leland, Kindergartner,		850	Oct., '06
"	Fanny M. Hamilton, Kindergartner,		850	Sept., '92
"	Marguerite F. Hayward, Kindergartner,		600	Oct., '13
"	Mary E. Murphy, Ungraded School,		900	May, '01
"	Thomas F. Donovan, Ungraded School,		900	March, '07
"	Lillian A. Troy, Open Window School,		900	March, '04
"	Anna B. Leland, Clerical Assistant,		700	Sept., '78*

LEDGE STREET

Fox,	Thomas F. O'Flynn, Principal,		\$2,300	Nov., '99
"	Abigail L. O'Hara, Assistant to Principal,			
"		VIII	950	Jan., '88
"	Martha E. Ormsby,	VIII	950	Nov., '00
"	Margaret F. G. Lee,	VIII-VII	950	Oct., '04
"	Joseph M. Tracy,	VII	850	Jan., '11
"	Alice G. McMahon,	VI	850	Sept., '73
"	Helen G. Morgan,	VI	850	Oct., '03
"	Jane H. Sullivan,	V	850	Dec., '08
"	Mary A. Quinn,	V	850	Oct., '89
"	Lillian G. Roche,	IV	750	Feb., '13
"	Agnes E. Daniels,	IV	850	Nov., '01
"	Katherine T. McCarthy,	III	850	Oct., '99
"	Grace C. Coffey,	III	850	Oct., '07

*Reappointed May, 1896.

Visitors	Teachers	Grade	Salary	Date of Appoint.
Fox,	Mary Early,	II	850	April, '10
"	Catherine R. Wheatley,	II	850	Nov., '91
"	Eugenia C. Reidy (appointed),	II	700	March, '98*
"	Mary T. Looney,	I	850	Oct., '09
"	Florence M. Flynn (appointed),	I	550	Oct., '17
"	Lillian R. Ferguson,	I	750	Oct., '13
"	Katherine C. Sullivan, Kindergartner,		750	Oct., '10
"	Alice E. Sawyer, Kindergartner,		600	Oct., '13
"	Ellen A. Maher, Special School,		650	Oct., '13
"	Loretta A. Regan, Ungraded School,		800	June, '12
"	Ella J. Emerson, Clerical Assistant,		700	May, '81
LEE STREET				
Cutler,	Annie Y. Milliken, Principal,	VI-V	\$1,000	March, '91
"	Margaret M. Mathews,	IV-III	850	Feb., '02
"	Carrie C. Deuel,	II-I	850	Sept., '05
"	Elizabeth T. Dillingham, Kindergartner,		850	Sept., '01
LUDLOW STREET				
McGauley,	Emma S. Barrett,	VI-V	\$1,000	Oct., '91
"	Josephine M. Fitzgerald (appointed),	IV-III	550	March, '17
"	Irene F. Wilmouth,	II	700	Feb., '14
"	Sabina G. O'Connor,	II-I	850	May, '00
MALVERN ROAD				
Cookson,	Carrie A. Hildreth, Principal,		\$1,200	Sept., '85
"	Jennie H. Quinn, Assistant to Prin- cipal,	VIII-VII	950	Feb., '93
"	Gertrude McQuaid,	VII-VI	850	Sept., '07
"	Margaret McAuliffe,	VI-V	850	Feb., '01
"	Annie F. Cox,	IV	850	July, '06
"	Margaret F. Kennedy,	III	600	March, '16
"	Agnes W. Hines,	II	850	Oct., '08
"	Frances E. Reardon,	I	850	Nov., '08
"	Mary A. Bowen, Kindergartner,		700	July, '04
MASON STREET (Special School)				
Clough,	Margaret V. Kirby, Principal,		\$1,000	Nov., '01
"	Eleanor MacDermott,		900	Jan., '07
MIDLAND STREET				
Elder,	Mary E. Latchford, Principal,		\$1,175	Oct., '04
"	Saidie P. O'Leary, Assistant to Prin- cipal,	VII-VI	850	May, '02
"	Agnes J. Murphy,	VI-V	550	Feb., '17
"	Helen R. Warner,	V-IV	750	Sept., '13
"	Esther V. Lundgren,	IV	600	July, '16
"	Frances C. Brady (appointed),	III	700	Nov., '17
"	Mabel H. Sears,	III-II	850	July, '08
"	Lella O. Cunningham,	II-I	850	Sept., '05
"	Clara H. Bemis,	I	850	Sept., '88
"	Adelle P. Emerson, Kindergartner,		850	Feb., '01

*Reappointed November, 1917.

MILLBURY STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.	
Timon,	G. Milton Fisher, Principal,		\$2,300	Feb.,	'96
"	Mary A. O'Rourke, Assistant to Principal,	VIII	950	Jan.,	'80
"	Anna L. Campbell,	VIII-VII	950	May,	'05
"	Sarah E. Earley, Preparatory,		950	Feb.,	'88
"	Anna L. Callahan, Preparatory,		950	Dec.,	'81
"	Bertha E. Jenkins, Preparatory,		950	June,	'06
"	Margaret C. Kennedy,	VII	850	Sept.,	'05
"	Ella L. Raymond (appointed),	VII-VI	550	July,	'17
"	Teresa J. Cavanaugh,	VI-V	800	July,	'16
"	Mary J. Campbell,	V	850	Nov.,	'86
"	Mary L. Amiot,	V-IV	850	April,	'10
"	Loretta I. Sharron,	IV	600	Jan.,	'17
"	Katherine T. Degnan,	IV-III	850	Feb.,	'96
"	Kate A. Kennedy,	III	850	Sept.,	'94
"	Rose G. Doherty,	III	850	May,	'92
"	Margaret L. Walsh,	II	850	Sept.,	'87
"	Anna E. Conlon,	II	850	Nov.,	'93
"	Elizabeth H. M. Boyd,	II-I	850	March,	'94
"	Bridget A. Sullivan,	I	700	July,	'14
"	Julia W. Smith,	I	850	Nov.,	'88
"	Elizabeth L. Brennan,	I	850	Nov.,	'04
"	Ellen J. O'Leary, Kindergartner,		700	Feb.,	'13
"	Evelyn Verstein, Assistant (appointed),		450	July,	'17
"	Emma L. Brennan, Ungraded School,		875	Jan.,	'13
"	Annie T. Mellen, Clerical Assistant,		700	March,	'09

NORTH POND

Cutler,	Harriet E. Wheeler, Principal,	VI-IV	\$900	Oct.,	'90
"	Ellen R. McKenna (appointed),	III-I	550	Sept.,	'17

NORTH WORCESTER

Cutler,	Catherine H. McKenna (appointed),	IV-I	\$550	Jan.,	'17
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OXFORD STREET

Clough,	Alice G. Draper, Principal,		\$1,150	Oct.,	'90
"	Ruth J. Johnson, Assistant to Principal,	VII	850	Dec.,	'02
"	Mary A. Morrissey,	VI	850	Sept.,	'85
"	Mary C. McDonnell,	V	750	Oct.,	'13
"	Mary J. Burns,	IV	850	Sept.,	'98
"	Alice A. Lee,	III	750	Oct.,	'13
"	Marie Sullivan,	III-II	650	July,	'15
"	Elizabeth S. McManus,	II-I	650	Nov.,	'11
"	Mary E. Nagle,	I	800	Oct.,	'13

PROVIDENCE STREET

Fox,	Henry H. Kendall, Principal,		\$2,100	Dec.,	'09
"	Ellen A. Healy, Assistant to Principal,	VII	850	Oct.,	'05
"	Margaret G. M. Hunt (appointed),	VII	550	July,	'17
"	Florence P. Costello,	VI	800	Oct.,	'11

Visitors	Teachers	Grade	Salary	Date of ApPOINT.
Fox,	Ellen F. Regan,	VI	850	July, '07
"	Mary E. Joyce,	V	850	Sept., '87
"	Ellen G. Dunn,	V	850	Jan., '10
"	Anna G. Cronin,	IV	850	Nov., '06
"	Hannah T. McDonnell,	IV	850	May, '97
"	Mary A. Hunt,	III	650	March, '15
"	Ellen M. Devlin,	III	850	Sept., '93
"	Christina J. Clancy,	II	850	Sept., '08
"	Alice G. Shevlin (appointed),	II	550	Oct., '17
"	Catherine A. Dolan (appointed),	I	550	Oct., '17
"	Clara F. Daly,	I	750	March, '18
"	Mary L. Spring,	I	700	May, '84*
"	Clara B. Rood, Kindergartner,		850	July, '95
"	Catherine J. Murphy, Ungraded School,		900	Nov., '94
"	Ella J. Thayer, Clerical Assistant,		850	April, '94
QUINSIGAMOND				
Cookson,	George Rugg, Principal,		\$2,300	Sept., '10
"	Mary E. Regan, Assistant to Prin-	Prin-		
"	cipal,	VIII	950	Feb., '05
"	Katherine A. Kelley,	VIII	900	July, '09
"	Elizabeth G. Curley,	VII	700	Feb., '14
"	Ruth F. Powers (appointed),	VII	550	Nov., '17
"	Mary A. Matthews,	VI	850	July, '09
"	Olga A. Johnson,	VI	650	July, '15
"	Hannah E. Mulcahy,	V	850	Dec., '99
"	John J. Pratt,	V	850	Feb., '99
"	Mary M. Sullivan,	V	800	July, '11
"	Anna B. McTiernan,	IV	850	Oct., '04
"	Julia L. Buckley,	IV	850	May, '10
"	Ella V. Mangan,	III	850	Feb., '04
"	Margaret W. Dolan,	III	800	Sept., '11
"	Margaret G. Ward,	II	650	July, '15
"	Stella A. Cannon,	II	850	Oct., '09
"	Elizabeth V. McCann,	II-I	650	Oct., '15
"	Mary V. McCarthy,	I	850	April '09
"	Gertrude A. Courtney,	I	750	Oct., '13
"	Anna C. Conlin,	I	600	Jan., '17
"	Martha L. Whitlock, Kindergartner,		750	Nov., '10
"	Mary C. Scully, Ungraded School,		850	May, '10
RICE SQUARE				
Cookson,	John B. Crowley, Principal,		\$1,475	Jan., '08
"	Bertha J. Hopkins, Assistant to Prin-	Prin-		
"	cipal,	VII	850	Sept., '94
"	Gertrude W. Thompson,	VI	750	Nov., '13
"	Catherine T. Traynor,	VI-V	850	Sept., '08
"	Julia E. Fleming,	V	700	Sept., '14
"	Mary A. Cannon,	V-IV	700	Feb., '14
"	Blanche Convery,	IV-III	825	Dec., '06
"	Mildred A. Briery,	III	650	March, '15
"	Florence E. Fox,	III-II	650	July, '15
"	Ethel E. Ackerman (appointed),	II	550	Sept., '17
"	E. Mildred Horan,	I	650	July, '15
"	Mary F. Horan,	I	700	Nov., '14
"	Cora F. Casey, Kindergartner,		650	Sept., '14
"	Elizabeth M. Shea, Ungraded School,		600	Feb., '17

*Reappointed October, 1914.

SALEM STREET

Visitors	Teachers	Grade	Salary	Date of Appoint.
Underwood,	Mary A. McGillicuddy, Principal,	V-IV	\$1,040	Sept., '83
"	R. Louise Nield,	III	850	March, '94
"	Catharine A. Hagerty,	II	650	Oct., '15
"	Laura M. Connor,	I	800	Dec., '11

SEVER STREET

Elder,	Edgar E. Thompson, Principal,		\$2,400	Jan., '91
"	A. Louise Penniman, Head Teacher,			
		VIII	1,000	May, '87
"	Mary A. McAuliffe,	VIII	950	May, '96
"	A. Louise Jones, Preparatory,		950	Feb., '00
"	S. Elisabeth Belcher, Preparatory,		950	Sept., '94
"	Annie E. Clancy, Preparatory,		950	Sept., '93
"	Mary F. Kane, Preparatory,		925	April, '07
"	Ellen M. Skerry,	VII	850	Dec., '10

TATNUCK

Elder,	Mary E. Cunningham, Principal,		\$1,200	Nov., '04
"	Mary M. Haire, Assistant to Principal,			
		VIII-VII	950	Jan., '08
"	Della E. Galvin,	VI-V	800	Dec., '12
"	Delia M. Hale,	V-IV	850	Dec., '94
"	Mabel B. Hilton,	III	600	March, '16
"	Katherine C. Leahy,	II	850	March, '09
"	Edith Cushman,	I	700	Sept., '14
"	Lillian I. King, Kindergartner,		700	Dec., '12

THOMAS STREET

Underwood,	Katharine T. Butler, Principal,		\$1,450	June, '97
"	Josephine E. Beford, Assistant to			
	Principal,	VII	800	Feb., '11
"	Annie V. McGourty,	VI	850	March, '08
"	Ellen M. Schofield,	V	750	Feb., '13
"	Mary F. D. Murphy,	V-IV	600	March, '16
"	Irene M. Kennedy,	IV	750	Jan., '14
"	Sarah A. McCormick,	III	850	May, '90
"	Mary E. Ridler,	III	850	Dec., '91
"	Ruth A. Underwood (appointed),	II	550	July, '17
"	Frances E. McKeon (appointed),	II-I	550	March, '17
"	Mary E. Lahay,	I	850	April, '07
"	Mary W. Reynolds, Kindergartner,		800	Oct., '10
"	Cecilia T. Kelley, Ungraded School,		900	March, '90

TROWBRIDGEVILLE

McGauley,	Mabel E. Burrage, Principal,	VII-VI	\$1,000	Jan., '97
"	Mary T. Donnelly,	VI-V	750	Sept., '13
"	Grace L. Bowen,	IV-III	700	July, '14
"	Mary A. Duke,	II-I	750	March, '13

UNION HILL

Visitors	Teachers	Grade	Salary	Date of Appoint.
Fox,	Etha M. Stowell, Principal,		\$1,500	May, '75
"	Mary F. McTiernan, Assistant to			
"	Principal,	V	850	March, '07
"	Edith M. Harlow,	IV	850	Oct., '99
"	Kate A. Butler,	IV-III	850	Dec., '78*
"	Alice R. Joyce,	III	850	May, '01
"	Sarah L. Gallagher,	III-II	850	June, '98
"	Mary M. O'Gara,	II	750	Sept., '13
"	Mary E. Scully,	I	800	Sept., '11
"	Esther C. Emmons,	I	850	April, '06
"	Elizabeth J. Casey, Kindergartner,		850	April, '95

UPSALA STREET

Cookson,	Mary C. Henry, Principal,		\$1,900	Nov., '90
"	Leonora M. F. Lavin, Assistant to			
"	Principal,	VIII	950	June, '99
"	Margaret N. McCarthy,	VII	750	Feb., '13
"	Catherine A. V. O'Connell,	VI	700	Oct., '14
"	Mary B. Dee,	VI-V	800	Feb., '11
"	Alice I. Burns,	V	850	April, '09
"	Mary T. Leahy,	V-IV	850	Sept., '05
"	Lena G. Navin,	IV	650	March, '15
"	Mary C. Moynihan,	III	850	July, '06
"	Ethel M. Piper,	III	850	March, '03
"	Anna T. Hurley,	II	800	Sept., '11
"	Winifred D. Sweet (appointed),	I	550	Jan., '18
"	Anna L. Curtis,	I	850	April, '00
"	Mary E. O'Neil,	I	850	March, '98
"	Mary E. Garrity,	I	850	Oct., '08
"	Mary E. Toole, Kindergartner,		750	Oct., '11
"	Margaret A. Murray, Assistant (ap-		450	Sept., '17
"	pointed),			
"	Agnes McCartney, Clerical Assistant		600	Nov., '91†
	(appointed),			

WARD STREET

Timon,	A. Teresa Timon, Principal,		\$1,500	Oct., '77
"	Mary G. Geary, Assistant to Prin-			
"	cipal,	VII	850	May, '91
"	Delia M. Breen,	VI	850	May, '04
"	Katherine A. G. Foley,	VI-V	850	Oct., '03
"	M. Agnes Mongovan,	V-IV	850	Jan., '06
"	Anna M. Dean,	IV	850	Sept., '89
"	Elizabeth M. Flanagan,	III	850	Oct., '99
"	Frances E. Joyce,	III-II	850	Sept., '95
"	Katherine A. Horgan,	II	700	Sept., '13
"	Margaret E. Conlon,	II-I	850	Feb., '98
"	Jennie F. Brennan,	I	850	Oct., '91
"	Katherine A. Carroll,	I	850	Nov., '01
"	Lilla M. Streeter, Kindergartner,		850	Sept., '94

*Reappointed July, 1906.

†Reappointed March, 1917.

WEBSTER SQUARE

Visitors	Teachers	Grade	Salary	Date of Appoint.
McGauley,	Florence D. Gilbert, Principal,	IV-III	\$1,000	Oct., '90*
"	Mary R. Galvin,	II	850	July, '06
"	M. Frances Killelea,	I	850	Oct., '03
"	Helen M. Longley, Kindergartner,		850	Sept., '95

WEST BOYLSTON STREET

Cutler,	Grace E. Oliver, Principal,		\$1,200	Nov., '01
"	Jamie L. Kennard, Assistant to Principal,	VII-VI	800	Sept., '11
"	Margaret D. Donahue,	VI-V	600	Dec., '16
"	Margaret V. Gray,	V-IV	850	April, '07
"	Mary A. Gilgan,	IV-III	850	Feb., '97
"	Theresa M. Carroll,	III-II	850	Nov., '00
"	Anne Ralph,	II-I	750	Oct., '13
"	Abbie C. Ostrom,	I	700	Oct., '14
"	Katherine H. Taft, Kindergartner,		850	July, '04

WINSLOW STREET

Clough,	Edgar E. Thompson, Principal,		\$1,150	Feb., '89
"	Lucy R. Poland, Head Teacher,	VI	850	Feb., '93
"	Winnifred G. Crane,	VI	850	Feb., '93
"	Emma G. Goodwin,	V	850	April, '82
"	Catherine T. Donnelly,	V-IV	850	May, '89
"	Alice M. Kennedy,	IV	750	Feb., '13
"	Hattie L. Partridge,	III	850	July, '87
"	Genevieve B. Convery,	III-II	850	Nov., '01
"	Anne L. Cullen,	II	850	April, '00
"	Edna A. Collamore,	I	850	Oct., '03
"	Elizabeth R. Murphy,	I	850	Oct., '03
"	Mary H. Woodward, Kindergartner,		850	March, '99
"	Carrie M. Bunce, Ungraded School,		900	April, '90
"	Mary F. Barker, Clerical Assistant,		700	May, '75

(NEW) WOODLAND STREET

Rice,	John E. Lynch, Principal,		\$2,400	Sept., '83
"	Katherine E. Kerrigan, Head Teacher,			
"		VIII	1,000	Nov., '04
"	Kate A. Welch,	VIII	950	Sept., '08
"	Emma Buckley,	VIII	950	May, '79
"	Ellen G. Callahan, Preparatory,		950	Sept., '00
"	Elizabeth S. Campbell, Preparatory,		950	May, '99
"	Annie B. Whitman, Preparatory,		950	Nov., '04
"	J. Eva Conner,	VII	850	Jan., '10
"	Susan C. Taft,	VII	850	April, '96

WOODLAND STREET

Rice,	John E. Lynch, Principal,			
"	Joseph J. Riedl, Head Teacher,	VI	\$1,150	July, '03
"	Minnie Higgins,	VI	700	July, '14
"	Sarah J. Melaney,	VI-V	850	Sept., '72
"	Mary G. Shea,	V	800	March, '11
"	Lillian A. Meehan,	V	800	Oct., '11

*Reappointed September, 1903.

Visitors	Teachers	Grade	Salary	Date of Appt.
Rice,	Minnie L. Warner,	IV	650	Oct., '15
"	Grace M. Kennedy,	IV	850	March, '10
"	Lillian G. Connors,	III	600	Sept., '16
"	Margaret I. Melanefy,	III	850	May, '70
"	Helena M. Kalaher,	III-II	850	Sept., '77
"	Joanna T. Daly,	II	850	May, '95
"	Julia A. Daly,	I	750	Sept., '13
"	Inez B. Curtis,	I	750	Sept., '13
"	Lucy H. Olmsted, Kindergartner,		850	July, '01
"	Catherine M. Maloney, Ungraded School (appointed),		600	Sept., '17
"	Carrie F. Meriam, Clerical Assistant,		700	Sept., '74

PREPARATORY GRAMMAR SCHOOLS

Mary A. Gendron, French,	\$950	Jan.,	'05
Effie M. Starkey, French,	950	May,	'96
Julia A. Quinn, French,	950	May,	'86
Helen Beals, German (substitute),	700		
Emilie C. Caase, German,	900	Feb.,	'12
Catherine P. Mullany, German,	950	Nov.,	'94

PHYSICAL TRAINING

Edward W. Wilder, Director,	\$2,100	Sept.,	'17
Ralph W. Ward, South High—Boys,	1,600	July,	'16
Albert C. Ott, North High School—Boys (substitute),	1,200		
Florence E. Bennett, High School of Commerce—Girls,	1,050	Sept.,	'12
Aileen M. Foley, South High School—Girls,	850	Oct.,	'15
Sylvia L. Handy, North High School—Girls,	850	Sept.,	'16
Anna T. Mooney, High School of Commerce—Girls,	750	Sept.,	'16
Anna G. Foley, Elementary Schools,	1,100	March,	'85

MANUAL TRAINING

Arthur J. Bean, Director,	\$2,200	June,	'04
Arthur H. Atkins, Dix Street,	1,500	Sept.,	'09
Allison P. Ball, Walnut Street,	1,600	July,	'02
Edgar B. Donaldson, Cambridge Street,	1,500	Jan.,	'12
Daniel P. Dyer, Belmont Street,	1,500	July,	'02
Chester M. Greene, Oxford Street,	1,500	July,	'05
Frank E. Jones, Ledge Street,	1,500	Sept.,	'10
Joseph L. Judge, Millbury Street,	1,500	Sept.,	'11
James F. Leary, South High School,	1,600	July,	'07
Arthur A. Pelton, Classical High School,	1,600	Sept.,	'96
H. Louis Thompson, Woodland Street,	1,400	Feb.,	'12
William R. Traill, Walnut Street,	1,600	July,	'00
Minnie L. Boynton,	950	Oct.,	'08
May S. Clark (substitute),	500		
Catherine E. Dunn,	850	Sept.,	'13
Sarah V. Earley,	950	Nov.,	'01
Helen Moriarty,	950	Sept.,	'07
Mildred A. Raynes,	950	Jan.,	'08
Sara M. Walker,	950	Jan.,	'08

COOKING

Teachers	Salary	Date of Appoint.
Jessica Scott, Director,	\$975	Jan., '03
Edna Bruso, Freeland Street,	850	Sept., '06
Minnie A. Davis, Ledge Street,	850	Feb., '86
Katherine E. Finneran, Cambridge Street,	800	April, '12
(Substitute), Millbury Street,	500	
Ruth A. Roundy, Winslow Street,	650	Sept., '15
Mildred C. Thomas, Belmont Street,	650	July, '15

SEWING

Clara M. Gove, Director,	\$975	March, '04
Elizabeth E. Ironside,	875	July, '05
Mary L. Boland,	875	July, '05
Grace M. Casey,	775	July, '13
Margaret C. Garrity,	625	July, '16
Ethel I. Ray,	775	July, '13
Helen C. Warren (substitute),	525	

DRAWING

Edward H. Thornhill, Director,	\$2,200	Sept., '03
Frank J. Darrah,	1,600	Jan., '89
Mildred E. Lusk,	950	Sept., '14
Helen D. Marshall,	1,000	Dec., '94
Anna D. McAuliffe,	1,000	June, '13
Ethel M. Smith,	900	July, '15
Florence E. Thayer,	1,000	July, '02

MUSIC

Charles I. Rice, Director,	\$2,200	Sept., '89
Maud L. Davis,	1,000	Dec., '84
Agnes G. Garvey,	1,000	Feb., '92

WRITING

Margaret B. Toole, Director,	\$1,200	May, '93
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AGRICULTURE

Herbert R. Kinney, Instructor,	\$125 per month	
Clarence E. Lee, Instructor (appointed),	1,800	Feb., '18

ABSENT ON LEAVE

Grace L. Aldrich,	Elizabeth Powell,
Andrew G. Aldrin,	Elizabeth Ott Richardson,
Edith L. Barber,	Margaret Power Rose,
Mary Butler Brigham,	Mary E. Sayward,
Charles S. Carroll,	John O. Shields,
Florence L. Cobb,	Mary C. Smith,
Carl Johnson,	Nellie F. Tolman.
Ethel M. McTaggart,	

ATTENDANCE OFFICERS

Richard J. Kerwick, Chief,	106 West Street
Michael J. English,	65 East Central Street
William J. McCleery,	30 Piedmont Street
James P. Foley,	12 Granite Street

SUPERVISOR OF ATTENDANCE

Edith M. Dixon,

11 Walnut Street

KINDERGARTENS

	Salary	Date of Appoint
Mary H. Barker, Director,	\$1,500	Oct., '98
Abbott Street, Grace A. Coleman.		
Adams Street, Mary A. Murphy.		
Adams Street, Nora A. Reardon, Acting Kindergartner.		
Cambridge Street, Alice O. Brownhill.		
Cambridge Street, Beatrice M. Mack, Assistant.		
Canterbury Street, Ella G. Melaven.		
Canterbury Street, Sarah C. Montgomery.		
Chandler Street, Mildred L. Bacon.		
Dartmouth Street, May H. Wiley.		
Dartmouth Street, Maude Butler, Assistant.		
Dix Street, Florence L. Goddard.		
Dix Street, Mabel Sherman, Assistant.		
Downing Street, Marion E. Taft.		
Downing Street, Dorothy M. Buttrick, Assistant.		
East Kendall Street, Lella M. Ayres.		
Edgeworth Street, Nellie J. Bryant.		
Edgeworth Street, Rhea Y. Houle, Assistant.		
Elizabeth Street, G. Hazel Swan.		
Elizabeth Street, Helen L. Shepard, Assistant.		
Gage Street, C. Grace Connell.		
Gage Street, M. Emma Batty, Acting Kindergartner.		
Gates Lane, Carrie C. Kinsley.		
Grafton Street, Minnie T. Burke.		
Grafton Street, Elizabeth F. McCauley.		
Greendale, Grace L. Bancroft.		
Harlow Street, H. Mabel McGowan.		
Lake View, Florence E. Howe.		
Lamartine Street, Mabel Leland.		
Lamartine Street, Fanny M. Hamilton.		
Lamartine Street, Marguerite F. Hayward.		
Ledge Street, Katherine C. Sullivan.		
Ledge Street, Alice E. Sawyer.		
Lee Street, Elizabeth T. Dillingham.		
Malvern Road, Mary A. Bowen.		
Midland Street, Adelle P. Emerson.		
Millbury Street, Ellen J. O'Leary.		
Millbury Street, Evelyn Verstein, Assistant.		
Providence Street, Clara B. Rood.		
Quinsigamond, Martha L. Whitlock.		
Rice Square, Cora F. Casey.		
Tatnuck, Lillian I. King.		
Thomas Street, Mary W. Reynolds.		
Union Hill, Elizabeth J. Casey.		
Upsala Street, Mary E. Toole.		
Upsala Street, Margaret A. Murray, Assistant.		
Ward Street, Lilla M. Streeter.		
Webster Square, Helen M. Longley.		
West Boylston Street, Katherine H. Taft.		
Winslow Street, Mary H. Woodward.		
Woodland Street, Lucy H. Ohmsted.		

PUBLIC EVENING SCHOOLS

EVENING SCHOOL CALENDAR

1917-1918

October 1, 1917, to March 23, 1918, inclusive.

VACATIONS AND HOLIDAYS

1918

February 22.

Columbus Day, October 12.

November 28, 29.

December 24 to January 1, 1919, inclusive.

HIGH SCHOOL

Teachers	Salary per Evening
Daniel F. O'Regan, Principal,	\$6.00
Lilla F. Upton, Clerical Assistant,	2.25
Henry A. Allen (substitute),	2.00
Maud Y. Anderson,	3.00
Susie W. Boyles,	3.00
Frederick Bucklin,	3.00
Harry J. Cahill,	3.00
Thomas A. Carey,	3.00
Frederick A. Carroll,	3.00
William J. Casey,	3.00
George B. Cashen,	3.00
Virginie T. Dénéchaud,	3.00
Ernest W. Desper,	3.00
W. Roscoe Fletcher,	3.00
George W. Grant,	2.50
Rolland R. Greenwood,	3.00
Hervey F. Houghton,	3.00
Perry S. Howe,	3.00
Charles B. Hurd (substitute),	2.00
Ralph R. Kendall,	3.00
Mabel A. Kenney,	3.00
Mary A. Kenney,	3.00
Gertrude E. Kneeland,	2.50
Ralph A. Lane,	3.00
Ella A. Morrill (substitute),	2.00
Walter A. Morrill,	3.00
Matthew R. McCann,	3.00
Grace McDermott,	3.00
George B. O'Flynn,	3.00
Martin M. Post,	3.00
Bertha M. Reed (substitute),	2.25
Robert J. Reich,	3.00
Mary M. Sexton (substitute),	3.00
John P. Shea,	2.50
Timothy J. Stevenson,	3.00
William A. Tierney,	3.00
Margaret B. Toole,	3.00
Thomas F. Waugh (substitute)	2.00

BELMONT STREET

Teachers	Salary per Evening
William F. Butler, Principal,	\$3.50
Frances V. Doane,	1.75
John J. Pratt,	1.75
Arthur P. Rochette,	1.75
Eleazar H. Sarkisian,	1.75
Katherine A. Sexton,	1.75
Kathryn Butler (substitute),	1.50
Katherine G. Murphy (substitute),	1.25

CANTERBURY STREET

George F. McCauley, Principal,	\$2.50
Margaret E. Donahue (substitute),	1.25

CHANDLER STREET

Thomas F. O'Flynn, Principal,	\$3.50
Mary D. McMurray (substitute),	1.25
Lillian E. Shea (substitute),	1.00
Beryl T. Wolcott (substitute),	1.00

GAGE STREET

James M. Daley, Principal,	\$3.50
Mary A. Gleason,	1.75
Rachael E. Greeko,	1.75
Anthony A. Lepore,	2.50
Jessie D. Grant (substitute),	1.25
Marie C. Hackett (substitute),	1.25
A. Loretta Leonard (substitute),	1.00
Anna M. Malozzi (substitute),	1.50

GRAFTON STREET

John B. Crowley, Acting Principal,	\$3.25
Evelyn Coonan (substitute),	1.25
Anna M. Lee (substitute),	1.00
Shokri Swydan (substitute),	1.75

GREENDALE

Thomas F. Donovan, Principal,	2.50
Elfreda W. Anderson (substitute),	1.75

LAMARTINE STREET

Mark N. Skerrett, Principal,	\$3.50
Julia A. Courtney,	1.75
Margaret A. Mooney,	1.75
Mary C. McAuliffe,	1.75
Joseph J. Riedl,	1.75
Madelaine Avietiene (substitute),	1.75
Harry J. Meleski (substitute),	1.25

MILLBURY STREET

Edward A. D. Moss, Principal,	\$3.00
James F. Crotty,	1.75
Theodore E. Shea,	1.75

PROVIDENCE STREET

Teachers	Salary per Evening
William I. McLoughlin, Acting Principal,	\$3.50
Peter Chipas,	1.50
Anna L. Cushman,	1.75
Florence M. Hackett,	1.75
Catherine V. McMahon,	1.75
Alice C. Fagan (substitute),	1.25
M. Grace Goodrow (substitute),	1.25
Ethel Mahaney (substitute),	1.00

QUINSIGAMOND

Joseph M. Tracy, Acting Principal,	\$2.00
Theresa E. Rogers (substitute),	1.00

WEBSTER SQUARE

Joseph J. Kiley, Acting Principal,	2.00
Catherine M. Burns (substitute),	1.00

FREE EVENING COOKING SCHOOLS

Jessica Scott, Director,	\$3.50
Mary G. Moore (substitute),	2.00
Mildred C. Thomas, Belmont Street,	2.50
Charlotte M. Hindle, Belmont and Winslow Streets,	2.50
Edna Bruso, Freeland Street,	2.50
Ruth A. Roundy, Winslow Street,	2.25

FREE EVENING DRAWING SCHOOLS

Charles R. Hoyle,	Architectural,	\$4.50
Howard W. Meakin (substitute),	Architectural,	2.00
Frank J. Darrah,	Freehand,	5.00
Ethel M. Smith,	Freehand,	2.50
George E. Marble,	Mechanical,	4.50
John A. Dahlin (substitute),	Mechanical,	2.00

FREE EVENING MANUAL TRAINING SCHOOLS

Arthur H. Atkins,	\$3.00
Daniel P. Dyer,	2.50
Frank E. Jones,	3.00

ABSENT ON LEAVE

Harry J. Cahill,
 Francis J. Dolan,
 Joseph L. Flaherty,
 Charles J. Hickey,
 Clara L. Kneeland,
 Albert F. Norris,
 Arthur R. Petterson,
 Louis E. Vaughan.

TEACHERS APPOINTED, 1917

DAY SCHOOLS

Anna G. Apholt,	Bloomington.
Ethel E. Ackerman,	Rice Square.
Walter E. Barnard,	High School of Commerce.
M. Emma Batty,	Providence Street.
Frances R. Boyle,	Belmont Street.
Frances C. Brady,	Midland Street.
Maude Butler,	Dartmouth Street.
Dorothy M. Buttrick,	Downing Street.
Louise E. Carlton,	High School of Commerce (Sycamore Branch).
Jennie D. Carruthers,	North High School.
Catherine L. Coffey,	Dartmouth Street.
Angela R. Cooney,	Providence Street.
Ray B. Dann,	Grafton Street.
Grace L. Diggins,	Andover Street.
Catherine A. Doyle,	Freeland Street.
Patrick A. Dolan,	High School of Commerce (Sycamore Branch).
Annabel E. Doyle,	Freeland Street.
Dorothy B. Durkee,	Adams Square.
Alice I. Farnan,	Blithewood.
Albert Farnsworth,	Classical High School.
Josephine M. Fitzgerald,	Ludlow Street.
Anna E. Fitzpatrick,	Grafton Street.
Anna M. Fitzpatrick,	Burncoat.
Florence M. Flynn,	Ledge Street.
Carrie L. Granger,	Lake View.
Mae E. Guerin,	North High School.
Sarah C. Gunn,	Adams Square.
Grace Harding,	High School of Commerce.
Rhea Y. Houle,	Edgeworth Street.
Margaret G. M. Hunt,	Providence Street.
Mabel A. Kelley,	Jamesville.
Helen J. Kennedy,	Elizabeth Street.
Joseph J. Kiley,	Ash Street, Principal.
Grace E. Lewis,	Edgeworth Street.
Charlotte R. Lowell,	High School of Commerce.
Catherine M. Maloney,	Woodland Street.
Sarah C. Montgomery,	Canterbury Street.
Walter A. Morrill,	High School of Commerce.
Agnes J. Murphy,	Midland Street.
Margaret A. Murray,	Upsala Street.
Agnes McCartney,	Upsala Street.
George F. McGauley,	Gage Street, Principal.
Mary I. McDonald,	Grafton Street.
Susan A. McGauley,	South High School.
Catherine H. McKenna,	North Worcester.
Ellen R. McKenna,	North Pond.
Frances E. McKeon,	Thomas Street.
Frank P. McNamara,	Classical High School.
Theresa F. McQueeny,	East Kendall Street.
Mabel E. Nutting,	Columbus Park.
Helen M. O'Leary,	High School of Commerce (Sycamore Branch).
Chester T. Porter,	Classical High School, Principal.

Ruth W. Power,
 Ruth F. Powers,
 Margaret Quinn,
 Ella L. Raymond,
 Eugenia C. Reidy,
 Ethel L. Rider,
 Elizabeth M. Shea,
 Helen L. Shepard,
 Mabel Sherman,
 Alice G. Shevlin,
 Ruth A. Smith,
 Winifred D. Sweet,
 Ruth A. Underwood,
 Evelyn Verstein,
 Mary J. Walsh,
 Ethel G. Ward,
 Edward W. Wilder,

Bloomingtondale.
 Quinsigamond.
 Harlow Street.
 Millbury Street.
 Ledge Street.
 High School of Commerce.
 Rice Square.
 Elizabeth Street.
 Dix Street.
 Providence Street.
 High School of Commerce.
 Upsala Street.
 Thomas Street.
 Millbury Street.
 Cambridge Street.
 East Kendall Street.
 Physical Director.

EVENING SCHOOLS

William J. Casey,
 George B. Cashen,
 Julia A. Courtney,
 Mary A. Gleason,
 George W. Grant,
 Rolland R. Greenwood,
 Florence M. Hackett,
 Charlotte M. Hindle,
 Perry S. Howe,
 Ralph A. Lane,
 Margaret A. Mooney,
 Mary C. McAuliffe,
 Martin M. Post,
 Albert F. Norris,

High School.
 High School.
 Lamartine Street.
 Gage Street.
 High School.
 High School.
 Providence Street.
 Cooking.
 High School.
 High School.
 Lamartine Street.
 Lamartine Street.
 High School.
 High School.

RESIGNATIONS, 1917

DAY SCHOOLS

Doris Clark,
 Mary E. A. Connolly,
 Florence I. Day,
 Louise L. Dorman,
 Allene N. Durkee,
 Dorothy B. Durkee,
 Emma J. Goddard,
 Jessie S. Goodwin,
 Charlotte M. Hindle,
 Alice H. Johnson,
 Juliet F. Kane,
 Frederic H. Lincoln,
 May T. McCann,
 Anna J. A. McQuaid,
 Floyd A. Ramsdell,
 Estella C. Stafford,

Greendale.
 Rice Square.
 Lake View.
 Dartmouth Street.
 Harlow Street.
 Adams Square.
 Bloomingtondale.
 Classical High School.
 Cooking.
 High School of Commerce.
 Canterbury Street.
 Classical High School.
 Gates Lane.
 New Woodland Street.
 High School of Commerce.
 Bloomingtondale.

EVENING SCHOOLS

Thomas H. Clark,

High School.

TEACHERS RETIRED, 1917

TEACHERS RETIRED, 1917

Louise A. Dawson,	May, 1917.
Ella W. Foskett,	July, 1917.
M. Rosalie Goddard,	July, 1917.
Edward R. Goodwin,	July, 1917.

INSPECTOR OF SCHOOLHOUSES AND SUPERVISOR OF JANITORS

Edward J. Goodwin,

7 Hudson

JANITORS IN THE PUBLIC SCHOOLS

School	Janitor	Residence
High School of Commerce,		Arthur B. Powers, 12 Irene
High School of Commerce,		Charles G. Williams, 811 Main
High School of Commerce,		William J. Williams, 106 Elm
High School of Commerce (Sycamore St.),		Alfred Riding, rear 6 Coral
Classical High,		Charles H. Evers, 80 Chatham
South High,		Frank J. Kane, 315 Grafton
South High,		John H. Cooney, 1 Hawthorne
North High,		Charles W. Berglund, 25 Kendall
North High,		George Nixon, 66 Edgeworth
Abbott Street,	Benjamin F. B. Walker,	100 Dewey
Adams Square,	Patrick Tivnan,	4 Henchman
Adams Street,	Thomas J. Flanagan,	361 Shrewsbury
Andover Street,	John F. Hannan,	12 Windsor
Ash Street,	James H. Butler,	474 Grove
Belmont Street,	Axel T. Forsman,	49 Stanton
Blithewood Avenue,	Mason Putnam,	127 Blithewood Ave.
Bloomingtondale,	Harry Brearly,	308 Plantation
Burncoat,	John O. Carlson,	3 Stanton
Cambridge Street, Nos. 1-2,	Thomas J. Masterson,	7 Dorrance
Canterbury Street, No. 1,	John F. Cooney,	19 Camp
Canterbury Street, No. 2,	James P. Butler,	7 Freeland Ter.
Chandler Street,	A. Warren Davis,	1 Rupert
Columbus Park,	Edward J. Curtis,	7 Columbus
Dartmouth Street,	Timothy F. Twomey,	23 Wellington
Dix Street, Nos. 1-2,	William F. Scribner,	22 John
Downing Street,	William H. Daley,	7 Plane
East Kendall Street,	Salem A. Covey,	440 Shrewsbury
Edgeworth Street,	Patrick J. Masterson,	286 Millbury
Elizabeth Street,	Wendell P. Dewey,	18 Arnes
Freeland Street,	Mathew Hogan,	5 Hathaway
Gage Street,	Martin H. Tubridy,	54 Laurel
Gates Lane,	Geo. F. Oakley,	7 Gates Lane
Grafton Street, No. 1,	David J. O'Sullivan,	20 Euclid Ave.
Grafton Street, No. 2,	George D. Woodward,	26 Cutler
Greendale, Nos. 1-2,	George A. Sanders,	8 Emerson Rd.
Harlow Street,	John J. Gartland,	13 Kendall
Jamesville,	Walter B. James,	1 Clover

Lake View,
 Lamartine Street, No. 1,
 Lamartine Street, No. 2,
 Lamartine Street, No. 3,
 Ledge Street, No. 1,
 Ledge Street, No. 2,
 Lee Street,
 Ludlow Street,
 Malvern Road,
 Mason Street,
 Midland Street,
 Millbury Street, Nos. 1-2,
 Millbury Street, Nos. 3-4,
 North Pond,
 North Worcester,
 Oxford Street,
 Providence Street, No. 1,
 Providence Street, No. 2,
 Quinsigamond, Nos. 1-3,
 Quinsigamond, No. 2,
 Rice Square,
 Salem and Washington Streets,
 Sever Street,
 Tatnuck,
 Thomas Street,
 Trowbridgeville,
 Union Hill,
 Upsala Street,
 Ward Street,
 Webster Square,
 West Boylston Street,
 Winslow Street,
 Woodland Street, New,
 Woodland Street, Nos. 1-2,

John J. Haran, 81 Ingleside Ave.
 Denis J. Callahan, 57 Barclay
 Michael Leyden, 21 Canton
 George Webber, 34 Princeton
 Peter D. Cooney, 22 Portland

 Michael J. O'Connor, 10 Ludlow
 Clarence E. Taylor, 136 Stafford
 Samuel D. Reed, 39 Clifton
 Matts Nordstrom, 149 Belmont
 John McGrath, 17 Blanche
 William E. Shea, 18 Lewis
 Charles G. Peterson, 900 Grove
 Mrs. Herbert A. Libbey, 2 Brattle
 Oscar J. Holmes, 54 Alvarado Ave.
 William E. Daley, 117 Orient
 John J. Holloran, 17 Fruit
 Francis G. McGrath, 15 Blanche
 Owen J. Derry, 3 Lenora
 John Kelley, 12 Massasoit Rd.
 Frank E. Dunton, 5 Mt. Pleasant
 James M. Dunton, 27 Hawley
 Simon C. Berglund, 186½ Vernon
 John M. Burke, 6 Pelham
 Arthur F. Snyder, 12 Knox
 Elias E. Rickards, 3 Hudson pl.
 Thomas J. Tivnan, 2 Louise
 John F. Foran, 39 Perry Ave.
 Noel H. Conger, 29 Webster
 H. Raymond Jones, 110 Thomas
 Jerry G. Young, 2 Shelby Pl.
 Daniel F. Kelley, 146 Canterbury
 Michael J. Mullaney, 27 Gates

REPORT OF ATTENDANCE OFFICERS, 1917

WORK OF ATTENDANCE OFFICERS FOR THE YEAR 1917

Months	Visits to buildings	Cases reported	Excused	Truants	Arrested for truancy	Arrested for school offender	Committed to training school	Otherwise disposed of	Adults arrested	Newboys arrested	Not attending any school	Emp. cert. issued	Educational certificates of literacy issued	Educational certificates of literacy issued	Military issued
Jan.....	626	1,183	1,159	24	1	1	1	1	1	1	5	384	824	824	61
Feb.....	432	838	824	14	2	1	1	1	1	1	2	398	727	727	49
Mar.....	591	1,365	1,326	39	5	1	5	1	2	2	15	429	852	852	60
April.....	405	1,017	988	34	1	1	1	1	1	1	11	435	768	768	47
May.....	578	1,472	1,416	56	3	1	2	2	2	1	9	577	988	988	59
June.....	304	760	722	38	3	1	2	1	1	1	2	602	983	983	96
July.....												668	890	890	83
Aug.....												465	994	994	52
Sept.....	272	873	845	28	4	4	4	4	4	4	14	693	1,188	1,188	83
Oct.....	408	1,152	1,101	51	3	2	2	1	3	3	15	598	1,002	1,002	74
Nov.....	419	984	908	26	2	2	2	2	2	2	15	632	1,069	1,069	64
Dec.....	386	710	697	13	2	2	2	2	2	2	2	441	1,087	1,087	54
Totals..	4,371	10,304	9,981	323	25	1	17	9	11	1	90	6,322	11,272	11,272	762

SUMMARY FOR 1917

Number arrested for truancy.....	25
Number arrested for school offender.....	1
Number committed to training school.....	17
Number of cases otherwise disposed of.....	9
Number of adults arrested.....	11
Number of boys released from training school during the year.....	9
Number of boys in training school, Jan. 1, 1918.....	55

SCHOOL CENSUS SEPT. 1, 1915, AND April 1, 1917

Wards	1915	1917	Gain	Loss	5 to 16		5 to 7		7 to 14		14 to 16		Illit- erates	
					Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Male	Female
					1	2960	2688	272	1357	1831	248	257	924	883	185	191	...	...
2	2926	2536	....	390	1277	1259	245	272	837	780	195	207	...	...
3	4107	3714	....	393	1828	1886	366	331	1257	1360	205	195	...	...
4	3492	3922	430	....	1927	1995	336	363	1329	1322	262	310	...	...
5	3731	4149	418	....	2074	2075	388	401	1455	1424	231	250	...	...
6	3679	3393	....	286	1649	1744	363	358	1090	1175	196	211	...	...
7	2528	2839	311	....	1489	1400	263	255	974	918	202	227	...	...
8	1750	1527	....	223	748	779	182	118	502	516	114	145	...	1
9	1404	1639	235	....	796	843	130	128	542	607	124	103	1	2
10	1350	1824	474	....	929	895	156	169	618	534	155	142	...	...
Totals	27927	28231	1868	1564	14024	14207	2627	2652	9528	9569	1869	1986	1	3

Net gain, 304

*No census taken in 1916.

Number of boys between 5-16	14,024
Number of girls between 5-16	14,207
Total	28,231
Number of boys between 5-7	2,627
Number of girls between 5-7	2,652
Total	5,279
Number of boys between 7-14	9,528
Number of girls between 7-14	9,569
Total	19,097
Number of boys between 14-16	1,869
Number of girls between 14-16	1,986
Total	3,855
Number of male illiterate minors	1
Number of female illiterate minors	3
Total	4

There are 135 children between seven and sixteen years of age who, through mental or physical defects, are not enrolled in any school.

There are also 1407 children between five and seven years of age who, though apparently in normal health, do not attend any school.

In Memoriam**MARY A. CUNNINGHAM**

Teacher in Elementary Schools, 1889-1917

Died April 26, 1917

LIZETTE M. DRAPER

Teacher in Elementary Schools, 1898-1895

Principal in Elementary Schools, 1895-1917

Died September 26, 1917

ELICIA G. GOGGIN

Teacher in Elementary and High Schools, 1906-1917

Died December 6, 1917

GEORGE E. REIDY

Teacher in Elementary Schools, 1901-1908

Sub-Master in Elementary Schools, 1908-1911

Teacher in High Schools, 1911-1917

Died October 9, 1917

ALFRED S. ROE

Principal Worcester Classical and English High School, 1881-1890

Supervisor of Evening Schools, 1902-1917

Died January 6, 1917

SCHOOL CALENDAR FOR 1918

Vacation periods indicated by full-face figures

1918	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	1918	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
JAN.	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	JULY	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24 31	11 18 25	12 19 26	13 20 27
FEB.	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22	2 9 16 23	AUG.	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24 31
MARCH	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	SEPT.	1 8 15 22 29	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28
APRIL	7 14 21 28	8 15 22 29	1 9 16 23 30	2 10 17 24	3 11 18 25	4 12 19 26	5 13 20 27	OCT.	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26
MAY	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	NOV.	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30
JUNE	2 9 16 23 30	3 10 17 24	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	DEC.	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28

ANNUAL REPORT
OF THE
CITY SOLICITOR
OF THE
CITY OF WORCESTER
FOR THE
YEAR ENDING NOVEMBER 30, 1917



THE COMMONWEALTH PRESS
WORCESTER, MASS.
1918

REPORT OF THE CITY SOLICITOR FOR 1917

April 29, 1918.

To the Honorable City Council of the City of Worcester:—

Gentlemen:—We submit the following report of the Law Department work for the year 1917.

During the greater part of the session of the State Legislature we devoted considerable time to legislative committee hearings upon bills affecting the City. We opposed a large number of general bills which, if enacted, would impose great financial burdens upon the City. Many bills of this character failed through our efforts and the efforts of other city and town solicitors who are now taking more interest in opposing such legislation and assisting Worcester and Boston in the work of opposing legislation hostile to municipalities. We also drafted and secured the enactment of several special bills for the City.

The legislative committee of the City Council met frequently with us during the early part of the legislative session, and their discussions and recommendations relative to proposed legislation have been helpful.

A large number of opinions have been given to the Mayor and heads of departments during the year. Another volume of opinions, comprising 621 typewritten pages, covering a period from October 4, 1912, to May 10, 1917, has been bound in book form with an index, and numbered Volume 5.

Cases arising under the Workmen's Compensation Act to the number of 160 were investigated by this department during the year. Two of these were fatal accidents. Seven conferences were had before one of the members of the Industrial Accident Board and four hearings.

The Joint Standing Committee on Claims gave four hearings during the year and held four meetings, at which were considered and adjusted 135 claims.

The number of sidewalk accident cases was about the same as during the previous year. We believe that such accidents may be substantially reduced in number if a more careful inspection of the sidewalks is made by the police officers and other officials of the City charged with that duty and repairs promptly made.

Following is a list of the more important matters which have required special effort:—

- Water-taking cases.
- Workmen's compensation.
- Ordinance changes and additions, including traffic regulations.
- General legislative acts affecting cities.
- Special Worcester legislation.
- Lake Quinsigamond bridge legislation.
- Preparing and approving contracts, agreements, deeds and other instruments of conveyance.
- Drafting orders, ordinances, legislative acts and land takings.
- Preparing forms for use in the several city departments.
- Attending hearings before arbitrators, Industrial Accident Board and Committee on Claims.
- Adjustment of suits and claims.
- Trials of cases in the various courts.
- November 30, 1916, there were pending in court 87 cases.
- In 1917 there were 35 new cases filed. During the year 39 cases were disposed of by trial or settlement. There were pending November 30, 1917, 77 cases in the Superior Court and 6 in Central District Court.

Pending cases in Superior Court are classified as follows:

Water rights taken.....	4
Land damage.....	25
Street betterment assessment appeals.....	9
Sewer assessment appeals.....	6
Personal injuries for accidents on sidewalks and ways...	24
Miscellaneous.....	9
	77

Respectfully submitted,
 E. H. VAUGHAN,
City Solicitor.
 JOHN W. MAWBEY,
Asst. City Solicitor.

PENDING CASES

IN SUPERIOR COURT

No.	Attorney	Plaintiff	
TAKING OF WATER RIGHTS			
12444	C. & B.	Anna A. Battelle	Pine Hill
14064	C. & B.	Anna A. Battelle	Pine Hill
9951	W. H. W.	Charles F. Stevens	Beaver Brook
9952	W. H. W.	Mary B. Stevens	Beaver Brook
LAND DAMAGE			
14534	H. L. P.	Mary A. Baker	Cambridge Street
14535	H. L. P.	E. Ellsworth Barrows	Cambridge Street
14536	H. L. P.	Ellen J. Canane	Cambridge Street
14793	J. O. S.	Crompton Associates	Wabash Avenue
14794	J. O. S.	Crompton Associates	Providence Street
14537	H. L. P.	Curtis & Marble Machine Co.	Cambridge Street
14547	S. & O.	Mary G. E. Delaney, et al.	Cambridge Street
14671	J. W. B.	Thomas W. Dwyer	Cambridge Street
13794	S. G. & D.	Arthur W. Ewell, Exor.	Madison Street
13793	S. G. & D.	Jane E. Ewell, et al.	Madison Street
15047	T. S. & G.	Harris Glick	Harding Street
13044	S. S. & B.	Anna E. Henderson, et al.	Sylvan Street
14544	H. L. P.	Georgianna L. Ives	Cambridge Street
12943	T. & T.	Clara M. Kronoff	Holden
12944	T. & T.	Clara M. Kronoff	Holden
16467	T. S. & G.	Thomas J. Lynch	Madison Street
14675	J. F. M.	Thomas J. McManus	Cambridge Street
14668	T. D. & W.	Bridget M. Murphy, et al.	Cambridge Street
14669	T. D. & W.	William J. B. Murphy	Cambridge Street
13921	A. H. B.	N. Y., N. H. & H. & Norwich & Worcester Railroad	Madison Street
13923	H. L. P.	Norman B. Parsons	Apricot & Armandale Streets
16538	L. E. F.	Morris J. Price	Brunswick Street
7636	T. B. & T.	Spencer Wire Company	Webster Street
4162	W. H. W.	Charles F. Stevens	Beaver Brook
14971	T. S. & G.	John B. Syme	Providence Street
APPEAL FROM STREET BETTERMENT ASSESSMENT			
13123	C. E. M.	Charles M. Callahan	Trumbull Street
16974	W. H. W.	Church of the Unity	Elm Street
11795	T. D. & W.	Howard Bros. Mfg. Co.	Foundry Street
11794	T. D. & W.	William H. Inman	Foundry Street
13121	C. E. M.	C. Eugene McGillicuddy	Trumbull Street
13122	S. & O.	Mary E. O'Callahan	Trumbull Street
16539	L. E. F.	Morris J. Price	Brunswick Street
16394	V. E. R.	John W. Stake	Brunswick Street
16393	V. E. R.	Eric G. Sundin	Brunswick Street
APPEAL FROM SEWER ASSESSMENT			
14195	H. L. P.	Frank M. Bacon, et al.	Autumn Street
7084	T. H. S.	H. I. Gould Company	Stafford Street
15218	H. S. H.	H. Spencer Haskell	Courtland Street
14065	H. L. P.	Norman B. Parsons	Apricot & Armandale Streets
14066	H. L. P.	Norman B. Parsons	Apricot & Armandale Streets
16532	F. E. D.	Worcester Consolidated Street Railway Company	Lake Avenue

TORT. PERSONAL INJURIES, CAUSED BY SIDEWALK DEFECTS

16261	V. E. R.	Annie Anderson	Greenwood Street
15694	G. F. M.	Margaret Beauvais	Main Street
16260	L. E. F.	Nathan Berk	Jefferson Street
15355	W. C. M.	Maude E. Burbank	Main and Oread Streets
15354	W. C. M.	William F. Burbank	Main and Oread Streets
15356	W. C. M.	Merton W. Clement	Main and Oread Streets
14816	D. G.	Annie Cohen	Harrison Street
16471	M. & D.	Henry J. Conroy	Lafayette Street
16209	S. & O.	Blanche Convery	Birch Street
16018	W.C.&D.A.F.	Josephine Cramer	Market Street
15278	R. B. F.	George N. Gates	Front Street
16499	C. F. C.	Judith Johnson	Edward Street
16225	S. S. & B.	Mary E. Kennedy	Hamilton Street
15726	F. P. M.	Mary E. Laverty	Harding Street
16046	G. F. M.	John H. McCormick	Southbridge Street
15662	D. P. C.	Anne E. McGourty	Maywood Street
16235	S. & O.	Mary McSherry	Vernon Terrace
16270	V. E. R.	Mary O'Connor	Lafayette Street
16074	F. P. R.	John Pawlosky	Southbridge Street
15939	J. F. M.	Mary A. Quinn	Portland Street
14267	F. B. H.	Charles H. Steele	Main Street
16367	G. & G.	Margaret Sullivan	Prospect Street
15241	E. A. R.	John Szutowicz	Harding Street
16658	S. & O.	Catherine T. Tierney	Federal Street

MISCELLANEOUS

3	R. A. S.	Boston & Albany R. R.	Grade Crossing
15917	G. H. B.	Brown-Wales Company	Contract
12768	T. D. & W.	Arthur E. Leary	Bill in equity to restrain piggery nuisance.
11704	V. E. R.	Alfred N. Magoon	Bill in equity to restrain interference with right to quarry.

CITY OF WORCESTER, PLAINTIFF

2		Boston & Albany R. R. Co.	Grade Crossing
4		Boston & Albany R. R. Co.	Grade Crossing
168		Boston & Albany R. R. Co.	Grade Crossing
16453		Inhabitants of the Town of West Boylston	
6781		Worcester & Nashua R. R. Co.	Grade Crossing

IN CENTRAL DISTRICT COURT

CITY DEFENDANT

355	T. B. & T.	Arthur Bacon.	Tort.	Southbridge Street
1722	T. A. M.	Charles J. Flynn.	Tort.	Fremont Street

CITY PLAINTIFF

925	L. E. F.	Bernard Cotton.	Contract
734	T. D. & W.	John J. Cross.	Contract
1682	L. M. F.	J. Frank DeFalco.	Contract
910	E. G. N.	James Ferguson.	Contract

ABBREVIATIONS

C. E. M.	C. E. McGillicuddy
T. D. & W.	Thayer, Drury & Walker
S. & O.	Sullivan & O'Connell
T. S. & G.	Thayer, Smith & Gaskill
G. F. M.	George F. McInerny
T. H. S.	Thomas H. Sullivan
H. L. P.	Harry L. Parker
S. S. & B.	Sibley, Sibley & Blair
T. & T.	Taylor & Taylor
H. S. H.	H. S. Haskell
F. B. H.	Frank B. Hall
E. A. R.	E. A. Ryan
C. F. C.	Charles F. Campbell
C. & B.	Cushing & Bishop, 54 Devonshire Street, Boston
W. H. W.	Winfred H. Whiting
V. E. R.	Victor E. Runo
R. A. S.	Ralph A. Stewart, Boston, Mass.
T. B. & T.	Thayer, Bullock & Thayer
S. G. & D.	Smith, Gage & Dresser
A. H. B.	A. H. Blackman
T. A. M.	Thomas A. McAvoy
J. W. B.	James W. Burke
J. F. M.	John F. McGrath
W. C. M.	William C. Mellish
M. & D.	Morrison & Davenport
D. G.	David Goldstein
G. & G.	Garrity & Garrity
F. P. M.	Francis P. McKeon
D. P. C.	Daniel P. Callahan
J. O. S.	J. Otis Sibley
L. E. F.	Louis E. Feingold
F. E. D.	F. E. Dewey
W. C. & D. A. F.	W. C. & D. A. Foley
R. B. F.	Raymond B. Fletcher
G. H. B.	George H. Brown, Boston, Mass.
L. M. F.	L. M. Friedman
E. G. N.	E. G. Norman

APPENDIX

GOVERNMENT AND OFFICERS OF THE CITY OF WORCESTER FOR 1918

MAYOR

PEHR G. HOLMES, 27 Holden Street

MAYOR'S CLERK

CHARLES H. BENCHLEY

MAYOR'S PRIVATE SECRETARY

CLINTON P. ROWE

ALDERMEN

FRED A. MINOR, President

ALDERMAN-AT-LARGE

NARCISSE J. LAVIGNE, 28 Westfield Street

- Ward 1. ROSS C. PURDY, 45 Institute Road
" 2. WILLIAM T. MITCHELL, 23 Forbes Street
" 3. CORNELIUS W. CORBETT, 18 Bradley Street
" 4. MARTIN J. O'BRIEN, 36 Houghton Street
" 5. MICHAEL J. FITZGERALD, 2 Euclid Avenue
" 6. CARL J. ROLANDER, 21 Hillside Street
" 7. JOHN C. WARE, 80 Lakewood Street
" 8. FRED A. MINOR, 29 King Street
" 9. J. FRANCIS SOUTHGATE, 5 Crown Street
" 10. L. DWIGHT GRANGER, 55 Stark Road

W. HENRY TOWNE, Clerk

HARLAN W. COLLIE, Page

COUNCILMEN

FRANK M. MCGAULEY, President

- Ward 1. *Alfred E. Rankin, 18 Norton Street
**Albert W. Blackmer, 53 Institute Road
**Hjalmar Johnson, 402 West Boylston Street
- Ward 2. *Michael J. O'Hara, 553 Sunderland Road
*Nils Petterson, 139 Belmont Street
**Edward B. Moor, 85 Burncoat Street
- Ward 3. *William F. Nardi, 51 Suffolk Street
**Edward F. Meehan, 40 Gage Street
**Charles E. Scott, 8 Carroll Street
- Ward 4. *William J. Guilfoyle, 82 Pattison Street
*Joseph S. Martin, 46 Aetna Street
**Joseph F. Quinlan, 66 Providence Street
- Ward 5. *Joseph V. Rafferty, 57 Endicott Street
**Joseph W. Leyden, 72 Ward Street
**William Francis Shea, 22 Ellsworth Street
- Ward 6. *Olof F. Ohlson, 10 Brunswick Street
*Isaiah J. Styles, 1 Boyden Street
**David C. Hult, 57 Greenwood Street
- Ward 7. *Frank E. Freeman, 231 June Street
**Frank M. McGauley, 80 Tirrell Street
**Andrew J. Wright, 500 Park Avenue
- Ward 8. *Howard A. Nash, 17 Lagrange Street
*Parker Trowbridge, 835 Main Street
**George H. Mirick, 11 Oberlin Street
- Ward 9. *Charles B. Rugg, 488 Pleasant Street
**Albert H. Moss, 175 Chandler Street
**John E. Parks, 8 Deerfield Street
- Ward 10. *Arnold J. Booth, 22 Rhodes Road
*William S. Griffin, 12 Rockwood Avenue
**Edward E. Stone, 14 Berkshire Street

S. Hamilton Coe, Clerk

John C. Raine, Page

*Term expires 1919.

**Term expires 1920.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL, 1918

Finance—The President of the Board of Aldermen, Aldermen Mitchell and Fitzgerald, the President of the Common Council, Councilmen Guilfoyle, Moss and Moor.

Charities—Aldermen Rolander, Granger and Corbett, Councilmen Styles, O'Hara, Wright and Leyden.

Claims—Aldermen Mitchell, Southgate and Fitzgerald, Councilmen Hult, Parks, Johnson and Martin.

Education—Aldermen Purdy, LaVigne and Corbett, Councilmen Trowbridge, Booth, Parks and Quinlan.

Fire Department—Aldermen Rolander, Ware and Fitzgerald, Councilmen Nash, Styles, Freeman and Scott.

Legislative Matters—Aldermen Purdy, Ware and Corbett, Councilmen Mirick, Wright, Blackmer and Rafferty.

Lighting Streets—Aldermen Southgate, Mitchell and Fitzgerald, Councilmen Ohlson, Trowbridge, Freeman and Quinlan.

Mayor's Inaugural Address and Unfinished Business—Aldermen O'Brien, LaVigne and Purdy, Councilmen Nardi, Johnson, Wright and Trowbridge.

Military Affairs—Aldermen Ware, Purdy and Corbett, Councilmen Meehan, Rugg, Blackmer and O'Hara.

Ordinances—Aldermen Southgate, LaVigne and O'Brien, Councilmen Ohlson, Hult, Parks and Shea.

Police—Aldermen LaVigne, Southgate and Fitzgerald, Councilmen Styles, Moor, Ohlson and Meehan.

Printing—Aldermen Ware, Granger and O'Brien, Councilmen Petterson, Griffin, Johnson and Guilfoyle.

Public Buildings—Aldermen LaVigne, Southgate and O'Brien, Councilmen Petterson, Nash, Booth and Nardi.

Public Health—Aldermen Fitzgerald, Granger and Mitchell, Councilmen Mirick, O'Hara, Griffin and Scott.

Sewers—Aldermen Granger, Purdy and Corbett, Councilmen Rankin, Hult, Petterson and Martin.

Streets—The President of the Board of Aldermen, Aldermen Mitchell and O'Brien, the President of the Common Council, Councilmen Leyden, Freeman and Shea.

Water—Aldermen Ware, Rolander and Corbett, Councilmen Moss, Stone, Rankin and Rafferty.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN

Assessments for Sewers—Aldermen Granger, Purdy and Corbett.

Assessments for Street Betterments—The President of the Board of Aldermen, Aldermen Mitchell and O'Brien.

Bills in Second Reading—Aldermen Granger and Fitzgerald.

Street Railways—The President of the Board of Aldermen, Aldermen Mitchell and Rolander.

Elections and Returns—Aldermen Corbett and Rolander.

Enrollment—Aldermen O'Brien and LaVigne.

STANDING COMMITTEES OF THE COMMON COUNCIL

Bills in Second Reading—Councilmen Moss, Nash and Guilfoyle.

Enrollment—Councilmen Leyden, Rugg and Petterson.

Street Railways—Councilmen Parks, Griffin, Freeman and Martin.

CITY OFFICERS

*CITY CLERK
W. HENRY TOWNE

**ASSISTANT CITY CLERK
CARL H. JOHNSON

***CITY TREASURER AND COLLECTOR OF TAXES
HARRY C. SMITH

****DEPUTY COLLECTOR OF TAXES
HARRY B. OTIS

CITY SOLICITOR
JOHN W. MAWBEY

†ASSISTANT CITY SOLICITOR
FRANK L. RILEY

††CITY AUDITOR
FRANK E. WILLIAMSON

CITY MESSENGER
EDWIN M. C. FRENCH

CLERK OF COMMITTEES
WILLIAM H. PRATT

CITY ENGINEER
FREDERICK A. McCLURE

STREET COMMISSIONER
JAMES C. BLAKE

ASSISTANT STREET COMMISSIONER
RALPH G. LINGLEY

SUPERINTENDENT OF SEWERS
MATTHEW GAULT

*Elected triennially. Term expires first Monday in January, 1920.

**Appointed by the City Clerk and confirmed by the City Council.

***Elected triennially. Term expires first Monday in January, 1921.

****Appointed by the Collector of Taxes and approved by the Board of Aldermen.

†Appointed by the City Solicitor, confirmed by the City Council and approved by the Mayor.

††Elected triennially. Term expires first Monday in January, 1919.

**SUPERINTENDENT OF LIGHTING STREETS
HENRY A. KNIGHT**

**WATER COMMISSIONER
GEORGE W. BATCHELDER**

**WATER REGISTRAR
GEORGE W. BATCHELDER**

**SUPERINTENDENT OF PUBLIC BUILDINGS
GEORGE C. HALCOTT**

**ASSISTANT SUPERINTENDENT OF PUBLIC BUILDINGS
GEORGE W. SHERMAN**

ASSESSORS OF TAXES

One member elected by concurrent vote in January, annually, for three years.

George B. Hurlburt, Chairman,	Term expires 1919
Charles H. Harris, Clerk,	Term expires 1921
George C. Hunt,	Term expires 1920

SUPERVISOR OF WIRES

Appointed by the Mayor, annually, and confirmed by the City Council.

HENRY A. KNIGHT

CITY PHYSICIAN

Appointed by the Mayor with the approval of the Board of Aldermen, in January, triennially

HUGO O. PETERSON, M. D.

Term expires 1921

BOARD OF HEALTH

One member appointed by the Mayor in January, annually for three years, and confirmed by the Board of Aldermen.

Edward H. Trowbridge, M. D., Chairman,	Term expires February, 1920
James C. Coffey, Executive Officer,	Term expires February, 1919
George C. Hunt,	Term expires February, 1921

TRUSTEES OF THE CITY HOSPITAL, AT LARGE

One elected by concurrent vote in January, annually, for six years.

Samuel E. Winslow, President,	Term expires 1919
Malvin G. Overlock, Vice-President, Auditor,	Term expires 1920
Burton H. Wright, Secretary, Auditor,	Term expires 1923
Matthew J. Whittall, Auditor,	Term expires 1921
David A. Scott,	Term expires 1924
Clifford S. Anderson,	Term expires 1922

TRUSTEES OF THE CITY HOSPITAL REPRESENTING CITY COUNCIL

One Alderman and two Councilmen elected by concurrent vote in January, annually.

John C. Ware, Alderman

Howard A. Nash, Councilman

Joseph W. Leyden, Councilman

COMMISSIONERS**HOPE CEMETERY**

One member elected by concurrent vote in January, annually, for five years.

H. Spencer Haskell, Chairman,	Term expires 1920
William Woodward, Secretary,	Term expires 1919
Edward M. Wood, Manager,	Term expires 1923
B. Edwin Guy, Assistant Manager,	Term expires 1921
James E. Orr, Auditor,	Term expires 1922

JAQUES FUND AND OTHER FUNDS OF THE CITY HOSPITAL

One member elected by concurrent vote in January, annually, for three years.

Francis H. Dewey, Chairman,	Term expires 1920
John E. White,	Term expires 1921
Frank A. Drury,	Term expires 1919
Harry C. Smith, Treasurer	

LIQUOR LICENSE

Appointed by the Mayor in January, and confirmed by the City Council.

Elmer C. Potter, Chairman,	Term expires January 1, 1922
H. Oscar Rocheleau, Secretary,	Term expires January 1, 1920
E. Walter Smith,	Term expires January 1, 1921

SINKING FUNDS

One member elected by concurrent vote in December, annually, for three years.

James Logan, Chairman,	Term expires first Monday in January, 1919
A. George Bullock, Secretary,	Term expires first Monday in January, 1921
George W. Mackintire,	Term expires first Monday in January, 1920
Harry C. Smith, Treasurer	

PARKS AND RECREATION COMMISSION

Appointed by the Mayor and confirmed by the City Council in accordance with Chap. 204 of the Special Acts of 1917.

George F. Booth, Chairman,	Term expires May 7, 1920
George S. Barton, Secretary	Term expires May 7, 1921
Charles L. Allen,	Term expires May 7, 1920
Rev. John J. McCoy,	Term expires May 7, 1920
Harry Worcester Smith,	Term expires May 7, 1919
James Logan,	Term expires May 7, 1919
Adrian VanLeeuwen,	Term expires May 7, 1921
Thomas E. Holland, Director and Executive Officer	

PLANNING BOARD

Constituted pursuant to an ordinance passed April 12, 1915. One member appointed by the Mayor, with the approval of the City Council, before the first Monday in May, annually, for five years.

Edwin H. Marble, Chairman,	Term expires first Monday in May, 1923
Mark N. Skerrett, Secretary,	Term expires first Monday in May, 1921
**Harry A. Cooke,	Term expires first Monday in May, 1920
John F. Jandron,	Term expires first Monday in May, 1919
Samuel H. Pitcher,	Term expires first Monday in May, 1922

** Appointed to fill the vacancy caused by the resignation of Arthur C. Comins.

TRUSTEES OF THE AARON AND LUCRETIA BANCROFT SCHOLARSHIP FUND

One member elected by concurrent vote in January, biennially, for six years.

Dana M. Dustan,	Term expires January 31, 1919
Reginald Washburn,	Term expires January 31, 1921
George A. Lindberg,	Term expires January 31, 1923

TRUSTEES OF TRUST FUNDS

Constituted pursuant to Chap. 39 of the Revised Ordinances of 1909.
One elected by concurrent vote in January, annually, for two years.

Waldo Lincoln, Chairman,	Term expires February 1, 1919
Myron F. Converse,	Term expires February 1, 1920
Harry C. Smith, Secretary and Treasurer	

TRUSTEES OF INDEPENDENT INDUSTRIAL SCHOOLS

Constituted pursuant to Chap. 25 of the Revised Ordinances of 1909, as amended by an ordinance passed January 31, 1910. Three members elected in joint convention in December, annually, for three years.

Louis H. Buckley, President
Charles F. Marble, Clerk

Louis H. Buckley,	Term expires 1919
George N. Jeppson,	Term expires 1919
Cornelius J. Carmody,	Term expires 1919
Thomas J. Lynch,	Term expires 1920
John B. Moos,	Term expires 1920
**John F. Tinsley,	Term expires 1920
Charles F. Marble,	Term expires 1921
George I. Alden,	Term expires 1921
James C. Blake,	Term expires 1921

LICENSE BOARD

Constituted pursuant to Chap. 26 of the Revised Ordinances of 1909.

George C. Halcott, Superintendent of Public Buildings, Chairman
George H. Hill, Chief of Police
Wesley N. Avery, Chief Engineer of the Fire Department
James C. Coffey, Executive Officer of the Board of Health
James C. Blake, Street Commissioner
William H. Pratt, Clerk

***FENCE VIEWERS**

Maurice L. Katz,	William I. Thompson,	John Warden
*Field Driver, William N. Berry		
	*Pound Keeper, William N. Berry	

†LOCAL SUPERINTENDENT FOR THE SUPPRESSION OF GYPSY AND BROWN TAIL MOTHS

Thomas E. Holland

†FOREST WARDEN

Wesley N. Avery

*Appointed by the Mayor, annually, in accordance with Chap. 180 of the Acts of 1903.

†Appointed by the Mayor, annually in January, in accordance with Chap. 601 of the Acts of 1913.

**Elected to fill the vacancy caused by the death of William Wattie.

ENGINEERS OF THE FIRE DEPARTMENT

Elected in joint convention in December, 1915, to hold office during good behavior.

Wesley N. Avery, Chief
 William B. Spooner, First District Chief
 Edward L. Janes, Deputy Chief
 James F. Adams, Second District Chief
 Charles L. McCarthy, Third District Chief

SUPERINTENDENT OF THE FIRE ALARM TELEGRAPH

William H. McClure

DIRECTORS OF THE FREE PUBLIC LIBRARY

Two members elected in joint convention in December, annually, for a term of six years from the first day of January next ensuing.

Chandler Bullock, President,	Term expires 1919
George H. Blakeslee, Secretary,	Term expires 1920
Gustaf A. Berg,	Term expires 1919
Charles A. Harrington,	Term expires 1920
Michael F. Fallon,	Term expires 1921
Louis E. Feingold,	Term expires 1921
Harry G. Stoddard,	Term expires 1922
Francis P. McKeon,	Term expires 1922
Alfred Thomas,	Term expires 1923
Shepherd Knapp,	Term expires 1923
Vincent E. Tomlinson,	Term expires 1924
Lucius J. Knowles,	Term expires 1924

Robert K. Shaw, Librarian

OVERSEERS OF THE POOR

Except the members ex-officio, two members are elected by concurrent vote in December annually, for three years from the first Monday in January next ensuing.

GEORGE F. BROOKS, Chairman

MEMBERS EX-OFFICIO

Frank M. McGauley, President of the Common Council.
 Carl J. Rolander, Chairman on the part of the Board of Aldermen, and
 Isaiah J. Styles, Chairman on the part of the Common Council, of the
 Committee on Charities.

MEMBERS ELECTED

Frank E. Murray,	Term expires 1919
Wilhelm Forsberg,	Term expires 1919
Philip H. Duprey,	Term expires 1920
Albert I. Johnson,	Term expires 1920
Charles S. Holden,	Term expires 1921
George F. Brooks,	Term expires 1921

Gerhard Becker, Clerk

KEEPER OF THE ALMSHOUSE

Elected by the Overseers of the Poor.

THOMAS HORNE

CHIEF OF POLICE

Appointed by the Mayor under the provisions of an ordinance passed December 1, 1900 (now Chap. 81, Revised Ordinances of 1909), to hold office during good behavior.

GEORGE H. HILL

DEPUTY CHIEF OF POLICE

Appointed under the same provisions as the Chief of Police.

THOMAS McMURRAY

KEEPER OF THE LOCK-UP

Appointed by the Mayor in January, annually.

GEORGE H. HILL

REGISTRARS OF VOTERS

Except the City Clerk, one member appointed by the Mayor in March or April, annually, for three years.

Edwin R. Shumway, Chairman,
Nicholas J. Skerrett,
Emil Zaeder,

Term expires 1919
Term expires 1920
Term expires 1921

W. Henry Towne, ex-officio, Clerk

INSPECTOR OF MILK, BUTTER, CHEESE, LARD AND VINEGAR

Appointed by the Board of Health under Chap. 462, Acts of 1906.

GUSTAF L. BERG

INSPECTOR OF PETROLEUM

Appointed by the Mayor in March, annually.

JOSEPH W. HANNAN

***SEALER OF WEIGHTS AND MEASURES**

Appointed by the Mayor in March or April, annually.

JAMES A. HEALEY

***DEPUTY SEALERS OF WEIGHTS AND MEASURES**

CHARLES ROSS

LEWIS T. CLEMENTSON

PATRICK A. NOLAN

INSPECTOR OF ANIMALS

Appointed by the Mayor in March, annually, pursuant to Sec. 12, Chap. 90, of the Revised Laws.

WARREN L. THAYER

LABOR REGISTRAR CLERK

MARY L. CONNOR

*By rule of Civil Service Commissioners placed under Civil Service.

SCHOOL COMMITTEE

ALBERT H. INMAN, Chairman
 CHARLES B. ELDER, Vice-Chairman

- *At Large. Albert H. Inman
- **Ward 1. U. Waldo Cutler
- *Ward 2. Thure Hanson
- **Ward 3. Francis A. Underwood
- *Ward 4. Michael B. Fox
- **Ward 5. James F. Timon
- *Ward 6. Walter J. Cookson
- **Ward 7. Thomas F. McGauley
- *Ward 8. John E. Rice
- **Ward 9. John A. Clough
- *Ward 10. Charles B. Elder

Joseph Beals, Clerk.

SUPERINTENDENT OF SCHOOLS

Elected by the School Committee

HOMER P. LEWIS

*Term expires January, 1919.

**Term expires January, 1920.

SALARIES, 1918

Mayor	\$4,000 00
City Clerk	2,700 00
City Clerk, as Registrar of Voters	600 00
Assistant City Clerk	1,200 00
City Treasurer and Collector, all services	4,000 00
City Engineer	4,000 00
City Solicitor	3,800 00
Assistant City Solicitor	2,000 00
City Physician	700 00
City Auditor	3,000 00
Clerk of Committees	2,800 00
City Messenger	2,000 00
Street Commissioner	3,000 00
Assistant Street Commissioner	2,000 00
Water Commissioner and Water Registrar	3,200 00
Superintendent of Sewers	3,000 00
Superintendent of Public Buildings	2,600 00
Assistant Superintendent of Public Buildings	2,000 00
Superintendent of Street Lighting, to provide his own transportation	1,600 00
Supervisor of Wires, to provide his own transportation	800 00
Clerk, Common Council	900 00
Three Assessors, each	2,600 00
Assistant Assessors, each, per day	8 50
Inspector of Animals	400 00
Inspector of Milk, Butter, Cheese, Lard and Vinegar	1,700 00
Sealer of Weights and Measures	1,700 00
Deputy Sealers of Weights and Measures, each	1,300 00
One License Commissioner (Chairman)	1,000 00
Two other License Commissioners, each	550 00
One member of the Board of Health (Executive Officer)	2,500 00
One member of the Board of Health (M. D.)	700 00
One member of the Board of Health	200 00
Chief of Police	3,000 00
Deputy Chief of Police	2,300 00
Police:	
Captains	2,000 00
Lieutenants	1,800 00
Captain of Detectives	2,000 00
First Lieutenant of Detectives	1,800 00
Detective Lieutenants, each	1,800 00
Sergeants	1,600 00
Patrolmen:	
First six months, per day	2 82 1-7
Twelve months after six months, per day	3 07 1-7
Twelve months after eighteen months, per day	3 32 1-7
After two and one-half years, per day	3 57 1-7
Superintendent of Fire Alarm Telegraph	1,850 00
Three Registrars of Voters, each	600 00
Chief Engineer of the Fire Department	3,000 00
Deputy Chief Engineer	2,100 00

First District Chief.....	1,800 00
Second District Chief.....	1,800 00
Third District Chief.....	1,800 00
Physician and Surgeon.....	500 00
Captains of Companies, each, per day.....	4 82 1-7
Lieutenants of Companies, each, per day.....	4 07 1-7
Engineers of Steamers, each, per day.....	4 07 1-7
Hosemen, each, per day.....	8 07 1-7
Call Men, each, per year.....	8 57 1-7*
	275 00

*After two years' service.

APPROPRIATIONS

Assessors' Department:	
(Salaries).....	\$15,900 00
(Miscellaneous).....	6,860 00
Auditing Department.....	11,300 00
City Clerk Department.....	6,200 00
City Hospital.....	160,000 00
City Messenger Department.....	28,000 00
Clerk of Committees Department.....	4,090 00
Engineering Department.....	10,175 00
Fire Department:	
(Payrolls).....	278,000 00
(Automobile Maintenance).....	2,680 00
(Fire Alarm Telegraph).....	8,100 00
(Fuel).....	7,990 00
(Horses, Hay and Grain).....	6,000 00
(Hose, Fittings, and Apparatus Repairs).....	1,370 00
(New Apparatus Account).....	21,000 00
(Miscellaneous).....	10,000 00
General Expense.....	30,500 00
Health Department:	
(Belmont Hospital).....	33,000 00
(Medical Inspection of Public Schools).....	67,000 00
(Milk Inspection).....	4,750 00
.....	2,310 00
Incidental Expenses:	
(New Rifle Range Account).....	100 00
Inspection and Construction of Buildings Department:	
(Repairs and Improvements of Engine Houses).....	24,000 00
(Repairs and Improvements of Police Buildings).....	7,100 00
(Care of Schoolhouses).....	1,200 00
(Ordinary Repairs of Schoolhouses).....	76,525 00
(Permanent Improvements of Schoolhouses).....	24,000 00
.....	24,000 00
Law Department.....	8,500 00
Overseers of Poor Department:	
(City Relief).....	65,000 00
(Home Farm).....	38,000 00
(House Ofal).....	21,000 00
Parks and Recreation Commission.....	45,000 00
(Forestry).....	8,000 00
(Public Playgrounds).....	24,000 00
Moth and Beetle Extermination.....	10,000 00
Pensions.....	29,800 00
Police Department:	
(Pay Rolls).....	336,100 00
(Miscellaneous).....	33,000 00
Public Library Department:	
(Salaries and Pay Rolls).....	48,000 00
(Books and Periodicals).....	14,000 00
(Heat, Light and Repairs).....	7,500 00
(Miscellaneous).....	5,000 00

Schools:	
(Salaries).....	929,500 00
(Salaries, Janitors).....	87,800 00
(Textbooks, Stationery and Supplies).....	45,000 00
(Printing and Miscellaneous).....	9,300 00
(Truant School).....	2,980 00
(Manual Training).....	4,220 00
(Evening Schools).....	20,000 00
Schools (Industrial Schools).....	9,000 00
(Industrial Schools—Girls' New Building).....	5,000 00
(Industrial Schools, Maintenance—Boys).....	36,800 00
(Industrial Schools, Maintenance—Girls).....	17,000 00
Schoolhouses.....	20,000 00
Sealer of Weights and Measures Department.....	4,000 00
Sewer Department:	
(Construction).....	18,000 00
(Maintenance).....	49,000 00
(Purification).....	73,000 00
Sewers (Purification, Filtration Beds).....	7,000 00
(Brooks and Rivers, Maintenance).....	500 00
Soldiers' Benefits.....	60,000 00
Street Construction (Land Damage Account).....	75,000 00
Street Department:	
(Salaries and Clerical Service).....	18,500 00
(Bridges and Repairs).....	2,000 00
(Construction).....	20,000 00
(Maintenance).....	200,000 00
(Paving Account).....	28,000 00
(Macadam Paving Account).....	8,000 00
(Sidewalks and Crosswalks).....	10,000 00
(Street Cleaning).....	110,000 00
(Street Sprinkling).....	70,000 00
Street Lighting Department.....	191,000 00
Supervision of Wires Department.....	4,500 00
Treasury Department.....	20,200 00
Water Department:	
(Construction).....	20,000 00
(Maintenance).....	130,000 00
Interest on Water Loan.....	201,250 00
Water Loan Serial Fund.....	159,715 00
Water Loan Sinking Fund.....	61,800 00
Interest.....	281,000 00
Interest on Sewer Loan.....	76,125 00
Serial Fund.....	209,494 05
Serial Sewer Fund.....	30,500 00
Sinking Fund.....	314,425 00
	<hr/>
	\$5,178,609 05

ORDINANCES

AN ORDINANCE

AMENDING CHAPTER XX OF THE REVISED ORDINANCES OF 1909 RELATIVE TO FIRE DEPARTMENT

Be it ordained by the City Council of the City of Worcester as follows:

Section 28 of Chapter XX of the Revised Ordinances of 1909 is hereby amended by striking out the word "seven" in the third line of said section and inserting in place thereof the word "five," so that said section as amended shall read as follows:

Section 28. No person shall be eligible, hereafter, for examination for membership in the Fire Department who is not at least five feet five inches in height.

IN COMMON COUNCIL, DECEMBER 31, 1917.

Passed to be ordained.

WINFRED H. WHITING, President.

IN BOARD OF ALDERMEN, DECEMBER 31, 1917.

Passed to be ordained.

VINCENT E. TOMLINSON, President.

Approved, January 4, 1918.

PEHR G. HOLMES, Mayor.

A Copy, Attest:

W. HENRY TOWNE, City Clerk.

AN ORDINANCE

AMENDING AN ORDINANCE TO ESTABLISH THE TAX LIMIT

Be it ordained by the City Council of the City of Worcester as follows:

The ordinance to establish the tax limit, approved February 24, 1914, is hereby amended by striking out the word "fourteen" in the seventh line of section one of said ordinance and inserting in place thereof the word sixteen, and by striking out the words "in any year succeeding the adoption of this ordinance" in the fifth and sixth lines thereof, so as to read as follows:

Section 1. The taxes assessed on property in the city of Worcester, exclusive of the State tax and other amounts assessed upon the city by the Commonwealth, the County tax and sums required by law to be raised on account of the city debt, shall not exceed the amount of sixteen dollars on every one thousand dollars of the average of the assessors' valuation of the taxable property in the city of Worcester for the preceding three years, such valuation being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment.

IN COMMON COUNCIL, FEBRUARY 18, 1918.

Passed to be ordained under a suspension of the rules by a yea and nay vote of twenty-five yeas to no nays.

FRANK M. MCGAULEY, President.

IN BOARD OF ALDERMEN, FEBRUARY 18, 1918.

Passed to be ordained by a yea and nay vote of ten yeas to no nays.

FRED A. MINOR, President.

Approved, February 18, 1918.

PEHR G. HOLMES, Mayor.

A Copy, Attest:

W. HENRY TOWNE, City Clerk.

CITY OF WORCESTER

IN CITY COUNCIL, NOVEMBER 26, 1917.

Whereas, Colonel E. R. Shumway Camp No. 28, United Spanish War Veterans, by its duly accredited officers, has caused to be erected in Armory Square, a memorial statue commemorating the deeds of Worcester men who gave up their lives in the Spanish American War, and

Whereas, the officers of Colonel E. R. Shumway Camp No. 28, United Spanish War Veterans, did, on the nineteenth day of April, nineteen hundred and seventeen, present said statue to the City of Worcester, Now, Therefore, be it

Ordered: That the City Council of the City of Worcester hereby accepts full and complete charge and custody of the Memorial Statue in Armory Square, said statue to be perpetually kept and cared for by the City, all in accordance with the communication on file in the office of the City Clerk, given April 19, 1917, under the hands and seal of the duly accredited officers of Colonel E. R. Shumway Camp No. 28, United Spanish War Veterans; and it is further

Ordered: That the City Clerk be, and is hereby, authorized to cause a true copy of the communication of the officers of said Camp No. 28, United Spanish War Veterans, whereby the memorial statue at Armory Square was presented to the City, and a copy of this order to be printed in the City Document of 1917; and that a true copy of said communication and order be presented to the Worcester Society of Antiquity.

Approved, November 28, 1917.

PEHR G. HOLMES, Mayor.

A Copy, Attest:

W. HENRY TOWNE, City Clerk.

Headquarters
COL. E. R. SHUMWAY CAMP, NO. 28
UNITED SPANISH WAR VETERANS
Department of Massachusetts

55 Pearl Street

Worcester, Mass., April 19, 1917.

TO ALL THE PEOPLE OF WORCESTER

GREETING: Whereas, there existed in the West Indies, in the year of our Lord eighteen hundred and ninety-eight, certain remnants of the vast original Colonial possessions of the Spanish Government which once claimed the entire Western Hemisphere as its own under the ancient right of discovery,

And Whereas, these vast territorial possessions had diminished by revolt and otherwise from the yoke of tyranny and oppression forced upon them by the avaricious representatives of the Spanish régime until the inhabitants of the Islands of Cuba and Porto Rico were the only remaining subjects of Spain left in the New World,

And Whereas, these poor Colonists were little or no better in their condition of living than mere slaves without voice in their own Government and deprived of reasonable advantages of social life and education and religious opportunities,

And Whereas, they had made ineffectual attempts from time to time to achieve political independence from Spain only to have the bonds of serfdom fastened more cruelly upon them after each failure,

And Whereas, this manner of treatment was not in accord with the ideas and practices of the great Republic of the United States whose people sympathized most deeply with the Spanish Colonists,

And Whereas, certain events occurred during the year eighteen hundred and ninety-seven which called forth a protest from the Government of the United

States directed to the Government of Spain on behalf of the Cuban inhabitants,

And Whereas, the Spanish Government saw fit to not only ignore these protests of the United States but increased their cruelties toward their unfortunate island subjects and insolently and maliciously persecuted all citizens of the United States who dwelt within the borders of the Spanish Colonies,

And Whereas, this degrading condition of affairs became no longer tolerable to the people of the United States, whose Government had been grossly insulted and the lives and property of fellow citizens ruthlessly destroyed and the United States Battleship "Maine" blown up with terrible loss of American lives on February 15, 1898, in the harbor of Havana, Cuba,

Now, Therefore, the people of the United States of America through their Congress and President did on the twenty-first day of April, 1898, declare that a state of war existed between the Government of Spain and the Government of the United States, and the President, William McKinley, did on the same day call for volunteers to defend the honor of the nation and free our Cuban neighbors from an intolerable bondage, then did the following named youth of our fair City of Worcester respond to that unselfish appeal and did serve their country in the manner hereinafter set forth and the first list is the Roll of Honor, being those who died in service:

Name	Co. Regiment	Place and Date
Corp. Marvin F. Ames	H 2nd	Santiago, Aug. 13, '98
Priv. Joseph H. Boardman	A 2nd	Worcester, Sept. 3, '98
Priv. George W. Brosnihan	G 9th	Egmont Keys, Fla., Aug. 20, '98
Priv. Charles E. Buck	H 2nd	Santiago, July 30, '98
Priv. Earle E. Clarke	H 2nd	U. S. Transport Mobile, Aug. 17, '98
Priv. Joseph M. Coffee	G 9th	Camp Meade, Va., Sept. 25, '98
Priv. John J. Creaven	G 9th	Montauk, Sept. 26, '98
Corp. Robert H. Dowse	C 2nd	Montauk, Aug. 26, '98
Priv. Allie L. Farnier	H 2nd	Worcester, Oct. 1, '98
Priv. George L. Forest	A 2nd	Brooklyn, N. Y., Sept. 30, '98
Priv. William C. Green	H 2nd	Santiago, Aug. 9, '98
Priv. Fabian H. Hakanson	H 2nd	Santiago, Aug. 6, '98
Priv. Michael J. Haley	G 9th	U. S. S. Alleghany, Aug. 3, '98
Priv. Charles M. Haye	H 2nd	Montauk
Priv. George W. Hodgins	H 2nd	U. S. S. Missouri, Sept. 12, '98
Corp. John F. Horan	G 9th	Montauk, Sept. 9, '98
Priv. John F. Keagan	G 9th	Montauk, Sept. 29, '98
Priv. Joseph C. King	C 2nd	Div. Hospital, Santiago, Sept. 5, '98
Priv. Julius H. Lowell	A 2nd	
Priv. Silas I. Mayo	C 2nd	Santiago Div. Hospital, Aug. 7, '98
Priv. Charles McMann	G 9th	U. S. S. Alleghany, Aug. 30, '98
Priv. James F. McTiernan	G 9th	Montauk, Sept. 11, '98
Priv. John J. Moore	H 2nd	Worcester, Aug. 31, '98
Priv. John M. Moran	H 2nd	Montauk, Aug. 27, '98
Musician Harvey Randall	H 2nd	Santiago, May 5, '98
Priv. W. D. Roberts	C 2nd	Worcester, Sept. 3, '98
Priv. Arthur D. Stewart	C 2nd	Santiago, Aug. 10, '98
Priv. Edward F. Sullivan	G 9th	U. S. S. Alleghany, Aug. 27, '98
Priv. Henry Sullivan	G 9th	Santiago, July 23, '98
Priv. Frederick B. Taft	C 2nd	Santiago Div. Hospital, July 14, '98
Priv. Silas F. Undergrave	H 2nd	Santiago, Aug. 1, '98
Priv. Harold Wentworth	C 2nd	U. S. S. Mobile; buried at sea, Aug. 14, '98
Priv. James F. Wheeler	C 2nd	Santiago, Aug. 2, '98

The following list are the names of those who served their country and returned:

Name	Company	Regiment
Priv. Herbert B. Abbott	A	2nd
Priv. Harry H. Adams	C	2nd
Priv. Walter G. Adams	H	2nd
Priv. Timothy J. Ahern	G	9th
Priv. Onley T. Aldrich	C	2nd
Capt. Frank L. Allen	C	2nd
Priv. John D. Allen	H	2nd
Priv. John H. Allen	C	2nd
Priv. George E. Allison	A	2nd
Corp. Ralph L. Allison	A	2nd
1st Sergt. Walter H. Allison	A	2nd
Priv. Harry C. Amell	H	2nd
Henry A. Arsenault		12th U. S.
Priv. Williard O. Bachelor	H	2nd
Albert J. Bacon		12th U. S.
Priv. Herbert A. Ballou	A	2nd
Michael Banaghan		12th U. S.
Priv. Edward R. Barker	G	9th
Capt. Edwin G. Barrett	A	2nd
Priv. James M. Barrett	G	9th
Priv. Joseph A. Barrett	H	2nd
Priv. Charles A. Barton	A	2nd
Sergt. William E. Barton	C	2nd
Priv. Lyman Bartlett	C	2nd
Cook Augustus Beiersdorf	C	2nd
Priv. George H. BeJune	C	2nd
Priv. George E. Bennett	C	2nd
Priv. Charles A. Beyer	G	12th Reg. Inf.
Thomas H. Brackett	A	12th U. S.
Priv. James F. Bradley	C	2nd
Thomas F. Brazzill		12th U. S.
Priv. Emory A. Briggs	C	2nd
Sergt. Dexter E. Brigham	H	2nd
Priv. Irving A. Brigham	C	2nd
Priv. Ralph H. Brigham	A	2nd
Priv. Michael C. Brophy	G	9th
Corp. Earle Brown	A	1st R. I. Vol.
Priv. Charles A. Browne	C	2nd
Priv. Philimon Brule	A	2nd
Priv. J. F. Brusky	A	2nd
Wagoner Walter T. Brusio	A	2nd
Priv. David T. Burke	G	9th
Priv. Timothy T. Burns	G	9th
Priv. Clarence E. Butler	C	2nd
Priv. Walter H. Butler	C	2nd
Patrick J. Callahan		12th U. S.
Priv. William E. Cardin	A	2nd
Musician Jas. A. G. Casey	G	9th
Wagoner John Casey	G	9th
2nd Sergt. William F. Casey	G	9th
Musician Harry Taylor Chapin	C	2nd
William H. Charboneau		12th U. S.
Priv. Elmer I. Christenson	A	2nd
Artificer Sam. E. Clapp	A	2nd
Priv. Fred Hobart Clarkson	C	2nd
Priv. Herbert A. Coates	H	2nd
Corp. Charles H. Colburn	C	2nd

Name	Company	Regiment
Priv. James A. Cole	A	2nd
Priv. Henry G. Coley	A	2nd
Priv. James F. Connelly	G	9th
Priv. Clarence E. Cook	H	2nd
Priv. Benjamin Cooper	A	2nd
Priv. Chas. S. Corcoran	G	9th
Q. M. Sergt. John J. Corlias	G	9th
Priv. William G. Cornwell	A	2nd
James Cove	C	12th U. S.
Priv. Leonard M. Crooker	C	2nd
Priv. Forrest E. Crossman	C	2nd
Sergt. Jas. T. Cruikshank	A	2nd
Priv. Alfonso Daniels	A	12th U. S.
Priv. Orlo W. Davis	A	2nd
Priv. Fred P. Dean	C	2nd
4th Sergt. Charles Degnan	G	9th
Priv. Michael F. Delaney	G	9th
Gustaf Delin		12th U. S.
Priv. Joseph Demarco	H	2nd
Priv. William G. Dennis	C	2nd
Priv. Charles Ditson	H	2nd
Hugh F. Donahue		12th U. S.
James Donahue		12th U. S.
John Donahue		12th U. S.
Corp. Frank H. Doran	G	9th
Priv. Dennis J. Doyle	G	9th
Priv. Frank P. Doyle	G	9th
Priv. Eugene Drury	C	2nd
Ensign Ralph Earle		U. S. N. on board "Hornet"
Priv. William W. Eddy	C	2nd
Priv. Clifford T. Eldridge	C	2nd
Priv. Otto L.	H	2nd
Priv. Frank L. Fairbanks	A	2nd
Maj. Harry V. Fairbanks		2nd Mass. Infy. U. S. V.
Priv. John Farrell	G	9th
Priv. George S. Farron	C	2nd
Corp. Herbert R. Fay	A	2nd
Priv. Lewis M. Fay	A	2nd
1st Lieut. Edward B. Fish	H	2nd
Priv. Chas. A. Fisher	A	2nd
Priv. John J. Fitzgerald	G	9th
Richard Fitzgerald		12th U. S.
Priv. John E. Fitzpatrick	G	9th
Patrick J. Fitzpatrick		12th U. S.
Sergt. Chas. T. Fletcher	C	2nd
William H. Fletcher		12th U. S.
Priv. Charles J. Flint	H	2nd
Priv. James H. Flynn	C	2nd
Priv. Michael J. Flynn	G	9th
Priv. John E. Fogarty	G	9th
Chas. E. Fogerty	B	12th U. S.
Priv. Frank Forrest	G	9th
Priv. Quincy E. Fortier	A	2nd
James Gaffney		12th U. S.
Priv. Walter I. Gage	C	2nd
Musician Frederick C. Gagnon	A	2nd
Priv. Frank E. Gale	A	2nd

Name	Company	Regiment
Priv. Thomas H. Gannon	H	2nd
Priv. Daniel Gardner	G	9th
Priv. Octave E. Gardner	B	12th U. S.
Priv. Michael F. Garrett	G	9th
John Francis Garvey		
Joseph S. Grendon	H	2nd
Priv. John J. Gilchrist	G	9th
Priv. William F. Gilmore	G	9th
Priv. John H. Gilmore	H	2nd
Priv. Odiorne J. W. Gleason	C	2nd
Priv. Willis Gleason	H	2nd
Chas. Franklin Gletting	H	12th U. S.
Priv. Louis B. Glixman	C	2nd
Sergt. John G. Gowans	A	2nd
2nd Lieut. Harry T. Gray	H	2nd
Corp. John F. Green	G	9th
Priv. Ralph C. Green	A	2nd
Priv. Henry J. Greene	C	2nd
Priv. Henry Griffin	G	9th
Charles E. Griswold		12th U. S.
Priv. Michael F. Grogan	G	9th
Priv. Henry C. Grover	A	2nd
Priv. Michael T. Gully	G	9th
Priv. Edward F. Hackett	G	9th
Corp. John G. Hagberg	A	2nd
Priv. Fred C. Hale	C	2nd
Priv. Ernest B. Hall	A	2nd
Priv. Thomas H. Hammond	A	2nd
Priv. Francis Harvard	A	12th U. S.
Priv. Frederick R. Hayes	A	2nd
Priv. Michael J. Healey	G	9th
Priv. Ralph E. Henderson	C	2nd
Priv. Arthur L. Heywood	A	2nd
Priv. Charles S. Higginbotham	A	2nd
George H. Hill	C	2nd
Priv. Frank M. Hill	H	2nd
Priv. Michael L. Hoar	G	9th
Corp. Howard K. Hobbs	A	2nd
Sergt. Joseph W. Holbrook	C	2nd
Capt. Charles S. Holden	H	2nd
Priv. Walter F. Hooker	H	2nd
1st Sergt. Michael J. Horan	G	9th
Priv. Willard J. Humes	C	2nd
1st Lieut. John F. Hurley	G	9th
Priv. I. Simon	A	2nd
Priv. Albert Johnson	A	2nd
Frank A. Johnson		12th U. S. A.
Priv. Roland Johnson	C	2nd
Priv. Walter R. Johnson	A	2nd
Wagoner Louie S. Jones	H	2nd
Priv. Robert E. Jones	A	12th U. S.
Priv. George T. Jones	C	2nd
Sergt. Frederick B. Jordan	H	2nd
Priv. Frank E. Joyce	G	9th
Priv. Charles E. Kenney	G	9th
Priv. Thomas Francis Keevan	H	2nd
1st Lieut. Arthur C. King	C	2nd

Name	Company	Regiment
Corp. James F. King	G	9th
Priv. Jeremiah W. King	H	2nd
Corp. Joseph L. King	H	2nd
Corp. William H. King	H	2nd
Priv. Charles H. Knibbs	C	2nd
Priv. Herbert W. Kincade	C	2nd
Priv. Joseph T. Laflamme	A	2nd
Priv. Chas. F. Lamberton	A	2nd
Priv. James F. Lerner	G	9th
Corp. Thomas F. Lavin	G	9th
Priv. Everett W. Lawrence	H	2nd
Dwight B. Lawton		12th U. S. A.
Fred A. Lease		12th U. S. A.
Priv. Frank C. Leonard	G	9th
Corp. Pelham W. Lincoln	C	2nd
Priv. Joseph T. Lindsey	H	2nd
1st Sergt. Arthur S. Longley	C	2nd
Priv. John J. Loftus	G	9th
Corp. Albert F. Love	H	2nd
William H. Lowder	H	12th U. S.
Robert E. Lowder, Jr.		12th U. S.
Priv. Edward H. Lyons	G	9th
William J. Lynch		12th U. S.
Timothy F. Looney	D	12th U. S.
John Larkin	G	9th
Henry F. Martican	G	9th
Priv. Edward J. Martin	C	2nd
Priv. Rufus J. Martin	A	2nd
Wagoner Fred B. Maynard	C	2nd
James E. McCann	F	12th U. S.
2nd Lieut. William E. McCann	G	9th
5th Sergt. Michael J. McCartin	G	9th
Peter McDermott		12th U. S.
William McGeacher		12th U. S.
Priv. Arthur C. McGee	A	2nd
James J. McGowan	D	12th U. S.
Priv. James J. McGrath	G	9th
Priv. Hugh McGuire	G	9th
Priv. John C. McKay	H	2nd
Owen McManus		Enlisted with Lieut. Anglum
Priv. M. W. MacNiven	H	2nd
Corp. John D. McSweeny	G	9th
Priv. Waldo A. Merrifield	C	2nd
Priv. Arthur G. Mills	A	2nd
Priv. Dexter Miner	H	2nd
Priv. Henry M. Mirick	H	2nd
1st Sergt. Charles E. Monroe	H	2nd
Priv. William E. Moody	A	2nd
Priv. William H. Morse	A	2nd
Priv. Henry A. Mower	H	2nd
Capt. Jeremiah J. Moynihan	G	9th
3rd Sergt. Patrick J. Moynihan	G	9th
Priv. Edward F. Murphy	G	9th
Frank Murphy		12th U. S.
Priv. John F. Murphy	G	9th
Priv. Maurice W. Murphy		12th U. S.
Priv. William H. Murphy	G	9th

Name	Company	Regiment
Priv. Archie Murray	A	2nd
Priv. John B. Nault	H	2nd
Priv. Fred G. Newell	A	2nd
Priv. Albert E. Newton	H	2nd
Priv. Timothy F. O'Brien	G	9th
Priv. John H. O'Callaghan	G	9th
Priv. Daniel W. O'Connor	G	9th
Thomas O'Connor		12th U. S.
Priv. Patrick J. O'Keefe	G	9th
Cornelius O'Leary		
Priv. Arthur Paradis	H	2nd
Priv. Alonzo J. Pemberton	C	2nd
Charles D. Pike	G	12th U. S.
Priv. Royal H. Pitts	C	2nd
2nd Lieut. William H. Plummer	A	2nd
Thomas W. Plunkett		12th U. S.
Sergt. Chas. A. Poland	A	2nd
Priv. James E. Pope	C	2nd
Priv. Albert W. Pratt	H	2nd
Priv. Anthony J. Predegast	G	9th
Priv. Patrick J. Prendiville	G	9th
Priv. Burton A. Prince	C	2nd
Priv. James F. Quilty	H	2nd
Martin Rearson		12th U. S.
Priv. Albert Joseph Reinbold	A	2nd
John F. Reynolds		12th U. S.
Priv. William W. Rice	A	2nd
Sergt. Edward R. Riedl	A	2nd
Edmond Richford		12th U. S.
Priv. Geo. E. Rix	C	2nd
William Rochette		
Priv. Robert H. Rooney	G	9th
Priv. Charles M. Sands	C	2nd
Sergt. Elbridge B. Sawyer	A	2nd
Priv. Walter E. Schofield	A	2nd
Corp. Albert B. Scott	H	2nd
Priv. Patrick J. Scully	G	9th
Thomas F. Shannon		
Michael Shea		12th U. S.
John C. Shebesta	H	12th U. S.
Musician Nicholas Skerrett	G	9th
Priv. Chas. F. Sleeper	H	2nd
Q. M. Sergt. Clarence E. Smith	H	2nd
Priv. Jas. W. Smith	A	2nd
Priv. A. T. Squires	A	2nd
Priv. Louis O. Standish	A	2nd
Priv. William G. Standish	A	2nd
Artificer Eddy A. Stearns	C	2nd
Sergt. George W. Stevvins	C	2nd
Priv. Edward F. Steele	G	9th
Priv. William H. Stiles	H	2nd
Humphrey Sullivan		12th U. S.
Patrick Sullivan		12th U. S.
Artificer Patrick J. Sullivan	G	9th
Priv. Peter F. Sullivan	G	9th
Priv. John H. Sweeney	G	9th
Priv. Fred W. Taft	H	2nd

Name	Company	Regiment
Priv. Robert Taft	C	2nd
Priv. James Herbert Taylor	C	2nd
Corp. Alexander G. Thomas	A	2nd
Priv. Quincy F. Thomas	A	2nd
Priv. Clarence W. Thompson	H	2nd
Joseph E. Tisdell		12th U. S.
1st Lieut. Moses H. Tisdell	A	2nd
Thomas E. Tobin		
Priv. James E. L. Todd	C	2nd
Priv. Reinhard A. Torkelson	A	2nd
Priv. Albert H. Tourtelotte	H	2nd
Priv. Henry P. Tracy	G	9th
Musician Walter A. Traver	A	2nd
Priv. George L. Trudell	H	2nd
Priv. Fred J. Tucker	C	2nd
Priv. William T. Turner	A	2nd
Corp. C. A. Vaughn	C	2nd
Sergt. Frank L. Vaughn	H	2nd
Alexander Vezina		12th U. S.
Priv. Samuel A. Wallace	A	2nd
Priv. John C. Ware	H	2nd
2nd Lieut. Herbert H. Warren	C	2nd
Priv. Carl Weixler	A	2nd
Priv. Aurelius F. Wheeler	C	2nd
Priv. Bert E. Wheeler	A	2nd
Priv. Peter N. White	A	2nd
Priv. Leaver Whittaker	H	2nd
Priv. Alfred Morrow Wills	A	2nd
Frank N. Wilmarth		12th U. S.
Corp. John L. Wilmot	C	2nd
Priv. Arthur T. Wintersgill	C	2nd
Priv. Edwin D. Woolridge	C	2nd
Sergt. Harry C. Young	H	2nd
Priv. William S. Young	A	2nd
Priv. Emil Zaeder	C	2nd

In consequence of this service, many of these young men having sacrificed their health, their business opportunities, and even their very lives in this altruistic cause, and whose generous deeds seemed destined to sink into oblivion because of no appropriate memorial,

And Whereas, Colonel P. L. Rider, perceiving the need of some suitable form of recognition of the "Boys of '98," did call together the following named citizens of Worcester, who constituted themselves into a body known as the Citizens Committee, which organized July 16, 1911, at the State Armory on Grove Street:

CITIZENS COMMITTEE

Chairman, Col. P. L. Rider

Secretary, Capt. H. C. Young,	Treasurer, Chaplain Walter S. Danker
Col. E. R. Shumway,	Capt. E. G. Barrett
Capt. H. H. Warren,	Lieut. A. F. Murray
P. C. Albert F. Whitman, Camp 28	P. C. Michael J. Hogan, Camp 28
P. C. John J. Corliss, Camp 28	P. C. Benjamin Cooper, Jr., Camp 28
P. C. Roland Johnson, Camp 28	Hon. James A. Logan
Rev. Austin S. Garver,	Prof. Ira M. Hollis
Col. Samuel E. Winslow	

And Whereas, this Committee did collect subscriptions from the people of Worcester to defray the expense of erecting a monument to commemorate

the deeds of those Worcester boys who died that others might have greater opportunities,

And Whereas, a beautiful monument was duly designed and made by Andrew O'Connor, of Paxton, under the direction of this Committee and on this nineteenth day of April, nineteen hundred and seventeen, through Hon. James Logan, its spokesman, was presented to Col. E. R. Shumway Camp No. 28, U. S. W. V., as the proper recipient of such a testimonial of the esteem and honor in which they were held by the community,

And Whereas, Com. John E. Fitzpatrick of Camp No. 28 did, upon suitably acknowledging the receipt of the statue, present it in turn to the City of Worcester, through its Mayor, Pehr G. Holmes, being duly authorized so to do by Col. E. R. Shumway Camp No. 28, United Spanish War Veterans,

Now Therefore, may all know to whom these presents come that full and complete charge and custody of the statue thus erected is hereby conveyed and confirmed unto the City of Worcester, to be perpetually kept and cared for by the City of Worcester, where it now stands and to be maintained alone in the curbed triangle bounded by Salisbury Street, Grove Street and Armory Square, as a permanent testimony to the unselfish bravery of its hero dead who made the supreme sacrifice that less fortunate peoples might live better, happier and more useful lives.

And that these heroes' memory, for whom this statue is erected, may ever be held in due reverence and respect it is expressly requested that no decorations be ever used on this statue or the triangle upon which it rests, except in connection with events and memorials relative to the Veterans of the Spanish War; and the sole privilege of such use, it is requested, be reserved to the duly authorized representatives and successors of the United Spanish War Veterans.

Given under our hands and seal this nineteenth day of April in the year of our Lord nineteen hundred and seventeen.

Col. E. R. Shumway Camp No. 28,
United Spanish War Veterans,
Department of Massachusetts.

JOHN E. FITZPATRICK, Commander.
RALPH C. GREEN, Senior Vice-Commander.

CHAS. D. PIKE, Junior Vice-Commander.

E. C. L. MORSE, Adjutant.

BENJAMIN COOPER, Quartermaster.
(Seal)

A Copy, Attest:

W. HENRY TOWNE, City Clerk.

UNIVERSITY OF MICHIGAN



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