



CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1917

With Mayor's Inaugural Address
Delivered January 7, 1918



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INAUGURAL ADDRESS

DELIVERED BY

Mayor Charles W. Eldridge

MONDAY, JANUARY 7, 1918

Gentlemen of the Board of Aldermen:—

We meet tonight to inaugurate the city government for another year and our thoughts, for the moment perhaps, are diverted from the war. It is only for the moment, however, for the thought of the world struggle is ever dominant in all our minds. We are not a warlike nation. War is abhorrent to us. We have never been trained to it. Our President has said: "It is not an army we must shape and train for war, it is a nation"; and that training is going steadily forward day after day. The affairs of every man and of every city must be governed by the nation's needs; our nation's safety is paramount. The war may last for years; no man can visualize the future. No one knows how long the road ahead nor how great the burden to be carried, but we will do our part in this city with determination and courage. As loyal Americans we will do everything possible to uphold our President that "the world may be made safe for democracy." Our loyalty can best be shown by earnest support of government and a willing response to the daily demands made upon us. Somerville has prided herself for her early deeds of patriotism, and her public speakers have often proclaimed it. Every schoolboy will tell you of the encampment of General Washington's army on our hills, when the first flag of the United Colonies was flung to the breeze. We have built a monument on that hilltop and we show that monument to every visitor within our borders. We glory in our place

in the history of the past, and we must make our place in the future every bit as honorable. The example set by those loyal souls who in '61 and '65 gave their all is being followed today. American and foreign-born are working shoulder to shoulder for the one cause, without thought of race or creed. The Young Men's Christian Association, the Knights of Columbus, the Young Men's Hebrew Association, are carrying on a work unparalleled in the history of mankind. The Red Cross, our various women's organizations, the Special Aid Society for American Preparedness, the American Fund for French Wounded and many others are giving, without stint, money and labor. Our local committee on public safety has done an immense amount of work in listing our resources and assuring an immediate response to any demand that may be made upon us. Its work in assisting the men in the service and their families is only one of its many details, but a great amount of good of this kind has been accomplished. It is working in harmony with the state committee along lines of conservation, suppression of alien enemies, and the various other activities laid out by the national government. Our state guard companies were the first in the Commonwealth. The personnel of these companies and their proficiency as military bodies are notable, and we may feel well satisfied that they will do honor to our city if their services are required. All of these various bodies are giving service, real service, and they are prepared to meet emergencies here or elsewhere. The recent horror at Halifax shows this. Our response was immediate. Clothing, surgical supplies and necessities of all kinds were sent on the first boat. Our physicians and nurses immediately volunteered their services. Our committee on public safety, working with the Mayor and Board of Aldermen, started financial relief. No time was lost in rushing aid to our brothers across the border. The loss of life and property in Halifax brought nearer home a sense of the enormous world-suffering; but it also made us realize the splendid spirit of humanity the needs of this war have brought forth.

The whole world is in chaotic upheaval and the mighty struggle is vitally changing the future of every one of us. The effect of war upon business is tremendous. War regulates every phase of it. Finance, manufacture, agriculture, transportation

—all are subservient to its needs. Methods are wholly changed over night, and the man or corporation who cannot keep the pace must fall by the wayside. Today is not the day of the weakling. Financial and economic conditions require the keenest analysis. Taxation is necessarily high and, in the opinion of those best qualified to judge, will be higher. The enormous expenditures cannot help affecting the finances of every state and city, both directly and indirectly. The two Liberty Loans—and we are thankful these were over-subscribed, as will be those to follow—affect the borrowing of states and cities. The market for municipal bonds is restricted and interest rates are high. Labor is in demand as never before. Building materials are essential for the success of the government and the market is almost prohibitive. We must do our utmost to avoid every municipal extravagance. Every one of us today in his home life is doing without the luxuries and the unessentials, and cities must do the same. Conservation is necessary. Do not misunderstand me. Neglect of our many municipal enterprises is not conservation; neither is needless expenditure for experimental changes. Our streets, our buildings, our fire apparatus, the work of our departments, must not be allowed to deteriorate. We cannot neglect the demands made upon us for charitable and hospital purposes. We must, however, know that every dollar we spend is spent wisely and because of actual necessity. If the need is doubtful, do not authorize the expenditure.

I believe my three years' service in the Board of Aldermen, together with that in the legislature, will help me in many ways in considering the many questions that will come before us, and I shall make every effort to work with your Board in giving the people, whom we have been elected to serve, the quality of service that is due them. Let us, as Mayor and Aldermen, resolve to make our administration the highest possible type.

I wish to acknowledge the courtesy of Mayor Cliff in extending me the opportunity of discussing with the several heads of departments their needs for the coming year. They have made a number of suggestions and recommendations, which I shall give most careful consideration, and some of

which I shall most assuredly recommend to your honorable Board as soon as the financial situation will warrant. My knowledge of the intimate details of the present work of the various departments does not justify any extensive comment, either favorable or unfavorable, at this time, but I shall labor to acquire that knowledge as soon as possible. It will be my earnest endeavor to see that every department gives the kind of service the taxpayers have the right to expect. Service is the big word in business today. The war may force us to discard all old methods and start anew, for under its conditions we are not free agents. Whatever else the needs of war may impose upon us, the need for service is absolute. Every man, woman or child who has business at the City Hall should expect the utmost courtesy at all times, and I intend to see that they get it. The reputation for courteous and efficient service from its employees is a valuable asset for a city, and I want our city rated at the top of the list.

Your boy and mine are the men of tomorrow. How are we preparing them for its duties? Are we giving them what they will need to cope with conditions that will follow the war? I question it. I am a firm believer in vocational and military training in our public schools. Glance at the "Help Wanted" columns in the daily press. Consider the government's need of men trained to carry forward its present enormous building programme. Think of the magnitude of construction operations in this country and abroad which will follow directly peace is established. The big demand is for the trained man and I fear we are not paying enough attention to this in our school work. Give our boys the preparation necessary to do the big things of tomorrow. Along with their other training give them military drill and develop them into strong men physically as well as mentally. Instill in their minds respect for discipline and obedience to established authority. I have always advocated military drill as part of the school course, and the events of today make me more firmly convinced than ever of its benefits. A strong, healthy manhood, well-grounded in military knowledge, is invaluable to city, state and nation. Think of the months of preparation and the millions of dollars that would have been saved in this country if every graduate of our public schools had been given this training. As to the physical value

of such training to the boy himself, you have only to note the marked improvement in the boys you know who are now in the service. I firmly believe there is nothing our school department can do that will meet with more general satisfaction than the extension of its vocational work and the introduction of military training.

The practice is general in large corporations of doing the buying through a purchasing agent, and this practice has proved most satisfactory wherever large and varied stocks are required. Here again war conditions enter into the question. The price of any article and the market quantity available from day to day are both uncertainties, and the wise buyer is of great help in keeping down costs. I believe a change from the present method of making purchases in this city is advisable and should receive early consideration. Many cities have established such departments and a study of their results should be of value in considering this question.

Another matter I wish to present for your consideration is the need of better fire protection in the northerly section. In my opinion this can best be furnished by the erection of a building on the city land at the corner of Broadway and Cedar street. It could be a combination building for both fire and police and would better the protection afforded our city by these departments. The purchase of land for the purpose is unnecessary and the building should not be an expensive one. I do not feel justified in making any extensive building recommendations at present high prices. I do, however, present the thought to you at this time with the conviction that such a building is needed and its erection should be undertaken as soon as conditions permit.

Tables of finances prepared by the city auditor are included at the end of this address.

There are missing from my remarks tonight many of the usual recommendations of an inaugural address, but with the thought ever in mind of constantly changing conditions and increasing war demands, I have refrained from advocating anything that would make the taxation burden unnecessarily heavier. There is every reason to expect that the year will be a try-

ing one. We must conserve our resources, for none of us can anticipate the extent to which they may be required. Shortage of food and fuel and increasing prices are already making the living problem difficult. There is no way to anticipate the amount of relief we may be called upon to furnish before economic conditions are again properly adjusted. The war is taking from our commercial life a large part of its strength. The men who are going abroad are all men who have passed the test of rigid examination. They are the pick of the country. They are proceeding to Europe in a steady stream and it is anticipated that by July of this year a million of our men will be in the battle lines. The records show over 2,000 of our own Somerville men in the service today. Some of these are already at the front and many more will follow. Many of them have left behind dependants, whom it is our duty to watch over and safeguard, and nothing must be allowed to interfere with this duty. Appropriations for this purpose can be governed only by the needs. The war will end some day, but whether that day will come during this year or the next or in the years to follow we know not. When it does, our boys are coming home, but the return will be slow and some will never return. We are going to see many men whom the war has made unfit to take up again the tasks they have laid down, and we must be prepared to give them a helping hand, with the necessary training and assistance to re-establish themselves. My recent observation of returned soldiers in Canada has convinced me of the enormity of this particular work that is going to confront us. It is almost impossible for us to realize the magnitude of the present conflict. The civil war in this country was appalling in its awful losses and its frightful wastage; but the loss and waste of that whole war was no greater than of one battle today. When the inevitable end of its horrors shall come the work of reconstruction will require the men and the money of the whole world, and we must be prepared to face the industrial and financial conditions that will result.

The thought of our great President, Abraham Lincoln, expressed in his last inaugural only a short time before the close of the war, might well have been meant for the inspiration of the nation at the present time. It is a gem of thought, prob-

ably better known than any other in the literature of our land. I want to leave it in your minds tonight.

“Fondly do we hope—fervently do we pray—that this mighty scourge of war may speedily pass away.... With malice toward none; with charity for all; with firmness in the right, as God gives us to see the right, let us strive on to finish the work we are in; to bind up the nation's wounds; to care for him who shall have borne the battle, and for his widow and his orphan—to do all which may achieve and cherish a just and lasting peace among ourselves, and with all nations.”

The following tables, giving a condensed history of the city's finances, are herewith presented for reference:—

Year	Amount of Funded Debt.	Increase of Funded Debt.	Reduc- tion of Funded Debt.	Tax Rate per \$1,000 Valuation on account of Reduc- tion of Funded Debt.
Town	\$ 593,349.00	.....	.....	.....
Dec. 31, 1872	643,354.00	\$ 50,005.00	.....	.....
" 1873	809,354.00	166,000.00	.....	.....
" 1874	1,419,854.00	610,500.00	.....	.....
" 1875	1,571,854.00	152,000.00	.....	.....
" 1876	1,606,854.00	45,000.00	*\$ 55,130.62	\$2.07
" 1877	1,606,854.00	10,000.00	* 58,828.58	2.30
" 1878	1,596,854.00	.....	61,004.64	2.91
" 1879	1,585,000.00	.....	64,915.76	3.42
" 1880	1,585,000.00	.....	55,739.35	2.72
" 1881	1,585,000.00	.....	58,498.64	2.59
" 1882	1,585,000.00	.....	61,390.59	2.65
" 1883	1,585,000.00	.....	64,479.01	2.70
" 1884	1,585,000.00	.....	67,719.33	2.78
" 1885	†1,525,000.00	.....	71,305.66	2.87
" 1886	1,525,000.00	.....	66,894.23	2.57
" 1887	1,525,000.00	.....	70,252.88	2.56
" 1888	†860,500.00	25,000.00	37,000.00	1.28
" 1889	952,500.00	130,000.00	38,000.00	1.27
" 1890	1,057,500.00	150,000.00	45,000.00	1.38
" 1891	1,045,500.00	45,000.00	57,000.00	1.55
" 1892	1,194,500.00	253,000.00	104,000.00	2.73
" 1893	1,279,500.00	222,000.00	137,000.00	3.27
" 1894	1,344,500.00	172,000.00	107,000.00	2.42
" 1895	1,506,500.00	247,000.00	85,000.00	1.83
" 1896	1,531,000.00	177,000.00	152,500.00	3.11
" 1897	1,548,000.00	167,000.00	150,000.00	2.39
" 1898	1,552,000.00	176,000.00	172,000.00	3.99
" 1899	1,492,500.00	110,000.00	169,500.00	3.30
" 1900	1,478,000.00	152,000.00	166,500.00	3.17
" 1901	1,461,000.00	146,000.00	163,000.00	3.02
" 1902	1,447,000.00	175,000.00	159,000.00	2.86
" 1903	1,505,500.00	197,500.00	169,000.00	2.96
" 1904	1,498,500.00	132,500.00	139,500.00	2.40
" 1905	1,510,000.00	148,000.00	136,500.00	2.30
" 1906	1,464,500.00	100,000.00	145,500.00	2.41
" 1907	1,508,000.00	198,000.00	154,500.00	2.51
" 1908	1,466,500.00	110,000.00	151,500.00	2.06
" 1909	1,503,000.00	190,000.00	153,500.00	2.42
" 1910	1,500,000.00	160,000.00	163,000.00	2.26
" 1911	1,519,000.00	188,000.00	169,000.00	2.41
" 1912	1,674,000.00	332,000.00	177,000.00	2.54
" 1913	1,674,000.00	222,000.00	222,000.00	2.92
" 1914	1,616,000.00	145,000.00	203,000.00	2.63
" 1915	1,650,500.00	240,000.00	205,500.00	2.57
" 1916	1,729,000.00	291,000.00	212,500.00	2.60
" 1917	1,757,500.00	261,000.00	232,500.00	2.95

*\$10,000 applied to payment of bonds; balance to sinking funds.

†Sinking fund applied.

Year	Valuation	Tax Levy	Rate
1872	\$22,755,325.00	\$274,374.45	\$13.00
1873	29,643,100.00	389,214.48	12.80
1874	30,837,700.00	473,235.50	15.00
1875	31,317,000.00	518,161.40	16.20
1876	26,573,400.00	504,475.24	18.60
1877	25,479,400.00	471,789.14	18.10
1878	20,976,900.00	409,497.10	19.00
1879	18,950,100.00	352,553.80	18.00
1880	20,458,100.00	402,927.71	19.10
1881	22,569,100.00	452,945.45	19.50
1882	23,162,200.00	425,721.16	17.80
1883	23,812,900.00	411,645.43	16.70
1884	24,331,100.00	418,750.26	16.60
1885	24,878,400.00	428,605.44	16.60
1886	26,003,200.00	416,987.28	15.40
1887	27,471,800.00	424,309.14	14.80
1888	28,765,400.00	421,458.60	14.00
1889	30,004,600.00	440,324.40	14.00
1890	32,557,500.00	447,704.00	14.00
1891	36,843,400.00	539,137.10	14.00
1892	38,093,100.00	596,357.50	15.00
1893	41,873,600.00	675,886.80	15.50
1894	44,142,900.00	721,165.54	15.70
1895	46,506,300.00	745,609.02	15.40
1896	49,070,800.00	786,412.32	15.40
1897	50,231,000.00	913,574.42	17.30
1898	50,739,700.00	954,187.11	17.90
1899	51,262,400.00	882,580.96	16.30
1900	52,578,200.00	889,916.08	16.00
1901	53,924,200.00	907,439.82	15.90
1902	55,558,300.00	964,535.80	16.40
1903	57,062,000.00	1,038,849.84	17.20
1904	58,137,900.00	1,059,292.56	17.20
1905	59,233,000.00	1,144,000.14	18.30
1906	60,371,500.00	1,114,023.62	17.40
1907	61,627,200.00	1,144,434.92	17.40
1908	63,158,400.00	1,237,694.72	18.40
1909	63,658,953.20	1,260,144.32	18.60
1910	66,376,338.70	1,306,888.71	18.50
1911	67,284,066.00	1,366,240.92	19.10
1912	69,632,540.00	1,390,824.93	18.80
1913	71,906,464.00	1,505,706.98	19.80
1914	74,946,894.00	1,665,289.46	21.10
1915	77,217,399.00	1,764,448.81	21.70
1916	79,304,329.00	1,785,540.99	21.40
1917	78,854,900.00	1,790,355.60	22.00

REPORT OF THE CITY AUDITOR.

OFFICE OF THE CITY AUDITOR,
January 24, 1918.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville.

Gentlemen,—In accordance with the requirements of Section 3 of Ordinance Number 44, I herewith submit a report of the expenditures and receipts during the year 1917, showing in detail the appropriations and expenditures, and the receipts from each source of income, also a statement of the funded debt and temporary loans together with a balance sheet showing the assets and liabilities at the close of the financial year.

Respectfully submitted,

HOWARD E. WEMYSS,
City Auditor.

BALANCE SHEET. — Continued.

Municipal Indebtedness.

Net Bonded Debt	\$1,757,500 00	Loans Within Statutory Debt Limit:—	
		City Bonds	\$595,500 00
		Municipal Bonds	47,000 00
		Sewer Bonds	279,000 00
		Highway Bonds	406,000 00
		Bridge Bonds	32,000 00
		Public Building Bonds	326,000 00
		Emergency Bonds	25,000 00
			<hr/>
			\$1,710,500 00

Loans Outside Statutory Debt Limit:—

Sewer Bonds	\$24,000 00
Metropolitan Park Assessment Bonds	12,000 00
Water Bonds	11,000 00
	<hr/>
	47,000 00

\$1,757,500 00

\$1,757,500 00

Trust Funds.

Investments:—		Trust Funds:—	
Cash and Securities	\$25,414 58	School Funds	\$5,000 00
		Library Funds	20,414 58
			<hr/>
			\$25,414 58

\$25,414 58

CASH STATEMENT, DECEMBER 31, 1917.

REVENUE.

Receipts.

General:—		
Taxes	\$1,758,325 40	
Corporation, Railway and Bank Taxes	137,894 09	
Licenses	3,606 50	
Permits	1,637 50	
Fines and Forfeits	2,910 73	
Commonwealth of Massachusetts, account Industrial School	7,615 15	
County of Middlesex, Dog Licenses	2,575 26	
Sale of Land	4,500 00	
Grade Crossings	5,120 24	
Other General Revenue	167 80	
	<hr/>	\$1,924,352 67
Special Assessments		62,705 05
Departmental:—		
General Government	\$8,192 45	
Protection of Persons and Property	2,798 36	
Health and Sanitation	24,227 51	
Highways	5,385 56	
Charities	29,875 66	
Soldiers' Benefits	16,938 36	
Schools	5,205 34	
Libraries	1,471 55	
Baths and Bathhouses	1,082 75	
Miscellaneous	632 86	
	<hr/>	95,810 40
Water Department Accounts		266,159 50
Temporary Loans		1,500,000 00
Premiums on Loans		1,070 40
Refunds		2,679 21
Interest:—		
Deposits, Taxes, Etc.	\$26,192 72	
Trust Funds	1,051 51	
	<hr/>	27,244 23
Total Receipts		<hr/> \$3,880,021 46
Transfer from non-revenue on account of service transfers		10,236 47
Balance at beginning of period		79,354 03
		<hr/> <hr/> \$3,969,611 96

CASH STATEMENT, DECEMBER 31, 1917. — Continued.

Payments.	
Appropriations	\$2,018,183 98
Income of Trust Funds	1,551 07
Advance to Poor Department	1,200 00
Temporary Loans	1,390,000 00
State Taxes and Assessments	323,493 43
County Tax	80,291 55
Grade Crossings	54 16
Court Judgments	199 00
Refunds	415 30
Tellers' Overs and Shorts	62 21
Total Payments	\$3,815,450 70
Transfer, revenue for outlays	34,813 64
Balance on hand	119,347 62
<u>\$3,969,611 96</u>	
NON-REVENUE.	
Receipts.	
Redemption Tax Liens	\$3,615 80
Carnegie Corporation, Library	16,000 00
Funded Debt Loans	261,000 00
Permanent Pavement Bills:—	
Receivable	366 76
Refunds	208 19
Total Receipts	\$281,190 75
Transfer, outlays from revenue	34,813 64
Balance at beginning of period	121,186 86
<u>\$437,191 25</u>	
Payments.	
Appropriations	\$305,440 37
Redemption of Tax Liens	3,615 80
Total Payments	\$309,056 17
Transfer to revenue on account of service transfers	10,236 47
Balance on hand	117,898 61
<u>\$437,191 25</u>	
Summary.	
Total Revenue Receipts	\$3,880,021 46
Total Non-Revenue Receipts	281,190 75
Total balance at beginning of period	\$4,161,212 21
<u>\$4,361,753 10</u>	
Total Revenue Payments	\$3,815,450 70
Total Non-Revenue Payments	309,056 17
Total balance on hand	\$4,124,506 87
<u>\$4,361,753 10</u>	

DEPARTMENTAL BILLS.

Departmental Accounts, Pledged to Revenue.	Balance Jan. 1, 1917	Committed 1917	Total to Collect	Collected and Abated	Uncollected
Law Department	\$7 81	.....	\$7 81	.....	\$7 81
Police Department	125 40	467 23	592 63	575 10	17 53
Maintenance Police Buildings . . . . .	.....	1,000 00	1,000 00	1,000 00	.....
Fire Department . . . . .	.....	543 79	543 79	534 04	9 75
Health Department	128 15	229 88	358 03	292 03	66 00
Contagious Hospital	7,138 48	10,747 57	17,886 05	10,681 42	7,204 63
Inspection of Milk	78 50	372 00	450 50	412 00	38 50
Sanitary Department	226 30	2,793 45	3,019 75	2,904 75	115 00
Sewers Construction (revenue) . . . . .	.....	17 00	17 00	17 00	.....
Highway Maintenance	2,962 46	2,861 42	5,823 88	5,136 03	687 85
Street Sprinkling . . . . .	.....	27 50	27 50	27 50	.....
Sidewalks Maintenance	98 13	.....	98 13	5 47	92 66
New Streets	92 10	.....	92 10	92 10	.....
Maintenance Highway Buildings . . . . .	.....	240 00	240 00	240 00	.....
Poor Department, miscellaneous	7,957 07	19,479 44	27,436 51	20,680 71	6,755 80
Poor Department, City Home	960 60	3,215 16	4,175 76	3,780 26	395 50
School Contingent	750 32	3,915 80	4,666 12	3,803 64	862 48
Maintenance School Buildings	63 75	1,492 70	1,556 45	1,496 45	60 00
Library Department	33 67	1 62	35 29	35 29	.....
Somerville Field	200 00	.....	200 00	.....	200 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$20,822 74	\$47,404 56	\$68,227 30	\$51 713 79	\$16,513 51
Construction Accounts, Pledged to Appropriations.					
Permanent Pavement	\$366 76	.....	\$366 76	\$366 76	.....

WATER DEPARTMENT ACCOUNTS: (REVENUE).

	Commitments	Abatements	Collection	Balance
Metered Rates	\$215,773 92	\$582 92	\$186,042 29	\$29,148 71
Annual Rates	47,204 25	1,136 42	46,067 83	.....
Additional Rates	2,059 39	600 45	1,458 94	.....
*Maintenance Bills	3,563 78	21 19	3,542 59	.....
Service Assessments	3,494 53	.....	3,494 53	.....
Totals	\$272,095 87	\$2,340 98	\$240,606 18	\$29,148 71
*Commitment includes balance of \$21.19 from 1916				
Receipts				
Metered Rates Last Quarter, 1917 . . . . .	. . . . .	. . . . .	. . . . .	\$240,606 18
Water Revenue, 1917 . . . . .	. . . . .	. . . . .	. . . . .	29,148 71
				\$269,754 89

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Taxes from State:—				
Corporation Taxes	\$47,000 00	\$56,762 76	\$9,762 76	
National Bank Tax	4,000 00	4,007 56	7 56	
Street Railway Tax	22,000 00	.....	.....	22,000 00
Licenses and Permits:—				
Milk	300 00	291 00	.....	9 00
Health Department	100 00	91 00	.....	9 00
City Clerk's Department	3,000 00	3,403 50	403 50	.....
Executive Department	700 00	739 00	39 00	.....
Pedlers' License Commission	.....	718 00	718 00	.....
Miscellaneous	.....	1 50	1 50	.....
Fines and Forfeits:—				
Court Fines	2,500 00	2,727 23	227 23	.....
Departmental Penalties	150 00	183 50	33 50	.....
Grants and Gifts:—				
County, Dog Licenses	2,700 00	2,575 26	.....	124 71
State, Industrial School	8,000 00	7,615 15	.....	384 85
Special Assessments:—				
Moths	1,000 00	1,255 25	255 25	.....
Sewers	2,000 00	3,172 20	1,172 20	.....
Street Sprinkling	36,500 00	36,708 65	208 65	.....
Sidewalks	8,000 00	10,515 75	2,515 75	.....
Street Betterment	11,000 00	11,697 32	697 32	.....
General Government:—				
Treasury Department	6,000 00	7,143 61	1,143 61	.....
Assessors' Department	.....	9 00	9 00	.....
City Clerk's Department	1,100 00	1,013 50	.....	86 50
Protection of Persons and Property:—				
Police Department	400 00	617 20	217 20	.....
Rent of Court Room	1,000 00	1,000 00	.....	.....
Fire Department	800 00	534 04	.....	265 96
Sealer of Weights	500 00	542 12	42 12	.....
Electrical Department	.....	105 00	105 00	.....

Health and Sanitation:—									
Health Department	200 00	280 63	80 63	.....				
Contagious Hospital	9,500 00	10,035 69	535 69	.....				
Inspection of Milk	350 00	433 30	83 30	.....				
Inspection of Animals . . . . .	.....	1 50	1 50	.....				
Sanitary Department	11,000 00	13,451 75	2,451 75	.....				
Sewer Department . . . . .	.....	24 64	24 64	.....				
Highways:—									
Highway Maintenance	4,000 00	5,112 59	1,112 59	.....				
Highway Buildings	240 00	240 00	.....	.....			
Street Sprinkling	30 00	27 50	.....	2 50					
Sidewalks Maintenance . . . . .	.....	5 47	5 47	.....				
Charities:—									
Poor Department—City Home	5,000 00	9,620 77	4,620 77	.....				
Poor Department—Miscellaneous	18,000 00	20,254 89	2,254 89	.....				
Soldiers' Benefits:—									
State Aid	15,000 00	13,218 14	.....	1,781 86					
Military Aid	240 00	165 00	.....	75 00					
Soldiers' Burials	1,000 00	500 00	.....	500 00					
State Aid—German War	6,000 00	16,197 52	10,197 52	.....				
Education:—									
School Department	4,000 00	3,713 14	.....	286 86					
Maintenance School Buildings	1,000 00	1,492 20	492 20	.....				
Library Department	1,400 00	1,471 55	71 55	.....				
Recreation and Unclassified:—									
Electrolysis	500 00	500 00	.....	.....			
Bathhouse	500 00	869 95	369 95	.....				
Shower Baths	200 00	212 80	12 80	.....				
Special Excise Tax . . . . .	.....	167 80	167 80	.....				
State, in Lieu of Taxes . . . . .	.....	66 68	66 68	.....				
Miscellaneous . . . . .	.....	37 13	37 13	.....				

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Public Service Enterprises:—				
Water Department	242,000 00	269,754 89	27,754 89	.....
Interest:—				
Bank Deposits	9,000 00	14,015 12	5,015 12	.....
Deferred Taxes	10,700 00	11,503 79	803 79	.....
Special Assessments	400 00	663 02	263 02	.....
	<u>\$499,010 00</u>	<u>\$547,466 56</u>	<u>\$73,982 93</u>	<u>\$25,526 27</u>
Total Estimate				\$499,010 00
Total Actual				<u>547,466 56</u>
Excess				<u>\$48,456 56</u>

STATEMENT OF APPROPRIATIONS, 1917 (REVENUE).

CITY AUDITOR.

	Appropriation	Appropriation from Trans.	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
General Government.							
Board of Aldermen Expenses	\$1,200 00	.....	.....	.....	\$1,200 00	\$1,111 90	\$88 10
Clerk of Committees	2,300 00	.....	4 00	.....	2,304 00	2,303 59	41
Executive Department	4,800 00	.....	.....	.....	4,800 00	4,748 85	51 15
Auditing Department	4,620 00	.....	.....	.....	4,620 00	4,582 79	37 21
Treasury Department	16,135 00	.....	.....	75 02	16,210 02	16,180 79	29 23
Assessors' Department	14,050 00	865 00	.....	.....	13,185 00	13,182 00	3 00
Pedlers' License Commission . . . . .	.....	.....	100 00	.....	100 00	59 35	40 65
Certification of Notes and Bonds	750 00	105 00	.....	.....	645 00	645 00	.....
City Clerk's Department	7,900 00	165 00	.....	1,255 66	9,050 66	8,966 25	84 41
Registration City Laborers Law Department	415 00	4 00	.....	.....	411 00	404 01	6 99
City Messenger's Department	2,400 00	.....	305 00	56 33	2,761 33	2,723 50	37 83
Engineering Department	2,400 00	.....	75 00	.....	2,475 00	2,473 10	1 90
Commissioner of Public Buildings	12,075 00	.....	60 00	.....	12,135 00	12,132 52	2 48
Maintenance Municipal Buildings	5,640 00	125 00	1,100 00	.....	6,615 00	6,599 41	15 59
City Planning Board	9,800 00	.....	30 00	.....	9,830 00	9,826 26	3,74
Election Expenses, City Clerk	50 00	.....	.....	.....	50 00	10 50	39 50
Election Expenses, Registrars of Voters	2,400 00	.....	30 00	.....	2,430 00	2,425 48	4 52
Pay of Election Officers	2,635 00	.....	.....	.....	2,635 00	2,608 94	26 06
Maintenance Polling Places	4,972 00	.....	.....	.....	4,972 00	4,972 00	.....
	770 00	.....	.....	.....	770 00	697 34	72 66
	<u>\$95,312 00</u>				<u>\$97,199 01</u>	<u>\$96,653 58</u>	

STATEMENT OF APPROPRIATIONS, 1917 (REVENUE).

	Appropriation	Appropriation from Trans. to	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Protection of Persons and Property.							
Police Department	\$119,200 00	4,850 00	4,850 00	25 41	124,075 41	124,042 32	33 09
Maintenance Police Building	3,500 00	500 00	500 00	.....	4,000 00	3,983 50	16 50
Fire Department	119,000 00	.....	.....	1,097 01	120,097 01	120,045 13	51 88
Maintenance Fire Buildings	8,500 00	4,085 00	4,085 00	.....	12,585 00	12,580 36	4 64
Militia	500 00	125 00	125 00	.....	375 00	368 80	6 20
Weights and Measures Department	3,025 00	.....	.....	46 92	3,071 92	2,956 41	115 51
Electrical Department	12,180 00	.....	.....	385 72	12,565 72	12,504 60	61 12
Maintenance Electrical Department Building	800 00	185 00	185 00	.....	615 00	509 38	105 62
Suppression of Moths	4,000 00	645 00	645 00	.....	3,355 00	3,354 09	91
Care of Trees	3,600 00	475 00	475 00	48 43	3,173 43	3,121 94	51 49
	<u>\$274,305 00</u>				<u>\$283,913 49</u>	<u>\$283,466 53</u>	
Health and Sanitation.							
Health Department	11,435 00	550 00	515 00	3 00	11,403 00	11,402 00	1 00
Vital Statistics	1,200 00	.....	.....	.....	1,200 00	1,146 91	53 09
Contagious Hospital	19,000 00	.....	400 00	310 73	19,710 73	19,709 95	78
Maintenance Contagious Hospital	3,400 00	.....	110 00	.....	3,510 00	3,509 36	64
Inspection Animals and Provisions	1,425 00	.....	110 00	.....	1,535 00	1,531 39	3 61
Inspection Milk and Vinegar	3,515 00	5 00	550 00	.....	4,060 00	4,017 04	42 96
Inspection School Children	1,655 00	.....	5 00	130 00	1,790 00	1,789 30	70
School Nurses' Salaries	1,530 00	110 00	.....	.....	1,420 00	1,403 42	16 58

CITY AUDITOR.

Sewers Maintenance	19,100 00	410 00	.....	18,690 00	18,662 48	27 52
Maintenance Sewer Buildings	190 00	.....	.....	190 00	167 74	22 26
Sanitary Department	113,000 00	6,000 00	.....	107,000 00	106,857 91	142 09
Maintenance Sanitary Buildings	800 00	.....	1,000 00	1,800 00	1,751 60	48 40
Street Cleaning	26,500 00	475 00	.....	26,025 00	25,788 81	236 19
	<u>2,027,500 00</u>			<u>198,333 73</u>	<u>197,737 91</u>	
Highways.						
Highway Maintenance	38,400 00	815 00	24,964 73	62,549 73	61,963 05	586 68
Sidewalks Maintenance	5,300 00	.....	665 00	5,965 00	5,905 51	59 49
Street Sprinkling	35,400 00	.....	550 00	35,950 00	35,937 41	12 59
Street Lighting	62,000 00	.....	.....	62,000 00	62,000 00	.....
Maintenance Highway Buildings	1,000 00	.....	115 00	1,115 00	1,110 79	4 21
	<u>142,100 00</u>			<u>167,579 73</u>	<u>166,916 76</u>	
Charities and Soldiers' Benefits.						
Poor Department—Miscellaneous	50,000 00	40 00	3,825 00	53,820 40	53,653 33	167 07
Poor Department — City Home	12,000 00	.....	1,340 00	13,421 63	13,417 77	3 86
Maintenance City Home Buildings	2,300 00	110 00	.....	2,190 00	2,176 50	13 50
Somerville Hospital	7,500 00	.....	.....	7,500 00	7,500 00	.....
Soldiers' Benefits—General Administration	1,100 00	.....	.....	1,100 00	1,082 92	17 08
Soldiers' Relief	22,000 00	.....	38 00	22,038 00	21,876 20	161 80
Military Aid	480 00	.....	.....	480 00	330 00	150 00
State Aid	15,000 00	1,425 00	103 33	13,678 33	13,321 47	356 86
State Aid—German War	6,000 00	.....	186 94	16,811 94	16,803 46	8 48
Soldiers' Burials	1,000 00	400 00	.....	600 00	500 00	100 00
	<u>117,380 00</u>			<u>131,640 30</u>	<u>130,661 65</u>	

STATEMENT OF APPROPRIATIONS, 1917 (REVENUE).

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Education.							
School Contingent	42,000 00	.....	660 00	45 19	42,705 19	42,700 05	5 14
School Teachers' Salaries	381,425 00	960 00	.....	.....	380,465 00	380,390 60	74 40
Janitors' Services	37,750 00	1,400 00	.....	.....	36,350 00	36,304 74	45 26
Fuel and Light	30,000 00	.....	8,090 00	.....	38,090 00	38,086 50	3 50
Buildings and Grounds	30,000 00	.....	1,330 00	752 60	32,082 60	32,077 54	5 06
Central Library	25,000 00	460 00	.....	12 11	24,552 11	24,552 04	07
Maintenance Central Li- brary	4,100 00	.....	80 00	.....	4,180 00	4,176 57	3 43
West Somerville Branch Library	6,700 00	.....	151 00	.....	6,851 00	6,850 55	45
Maintenance West Somer- ville Branch Library	2,100 00	300 00	45 00	.....	1,845 00	1,843 60	1 40
East Somerville Branch Library	3,100 00	1 00	.....	.....	3,099 00	3,096 26	2 74
Maintenance East Somer- ville Branch Library	700 00	80 00	.....	.....	620 00	595 19	24 81
Union Square Branch Li- brary	3,200 00	.....	310 00	.....	3,510 00	3,509 94	06
Maintenance Union Square Branch Library	3,000 00	.....	1,275 00	.....	4,275 00	4,232 64	42 36
	<u>569,075 00</u>				<u>578,624 90</u>	<u>578,416 22</u>	
Recreation and Unclassi- fied.							
Parks Maintenance	10,500 00	.....	.....	.....	10,500 00	10,485 08	14 92
Maintenance Park Build- ings	1,200 00	45 00	.....	26 87	1,181 87	961 30	220 57
Playgrounds Maintenance School Department — Sum- mer Playgrounds	4,000 00	.....	50 00	89 53	4,089 53	4,045 85	43 68
	2,500 00	.....	.....	.....	2,550 00	2,507 50	42 50

CITY AUDITOR.

Maintenance Bathhouse	3,200 00	30 00	325 00	.....	3,495 00	3,489 60	5 40
Celebrations	500 00	400 00	225 00	.....	325 00	279 98	45 02
Memorial Day	425 00	75 00	300 00	.....	650 00	632 35	17 65
Municipal Documents	1,800 00	325 00	.....	.....	1,475 00	1,455 58	19 42
Contingent Fund	10,000 00	10,000 00	.....	.....	.....	.....	.....
Workmen's Compensation	5,000 00	2,310 00	.....	.....	2,690 00	2,633 04	56 96
Pensions	19,000 00	2,840 67	.....	.....	16,159 33	16,158 63	70
Damage to Persons and Personal Property	5,000 00	940 00	.....	.....	4,060 00	4,059 35	65
	<u>63,125 00</u>				<u>47,175 73</u>	<u>46,708 26</u>	
Municipal Indebtedness.							
Interest	100,000 00	1,850 00	6,000 90	562 34	104,712 34	104,657 38	54 96
Reduction of Funded Debt	224,801 57	.....	.....	2,698 43	227,500 00	227,500 00	.....
	<u>324,801 57</u>				<u>332,212 34</u>	<u>332,157 38</u>	
Water Works.							
Water Maintenance	49,500 00	.....	6,465 00	14,478 21	70,443 21	70,413 65	29 56
Water Works Extension	22,000 00	.....	540 00	152 31	22,692 31	22,678 61	13 70
Maintenance Water Build- ings	1,700 00	175 00	.....	.....	1,525 00	1,496 99	28 01
Interest on Water Loans	640 00	.....	.....	.....	640 00	640 00	.....
Reduction of Water Debt	5,000 00	.....	.....	.....	5,000 00	5,000 00	.....
Metropolitan Water As- sessment	115,900 00	.....	2,525 67	.....	118,425 67	118,425 67	.....
	<u>194,740 00</u>				<u>218,726 19</u>	<u>218,654 92</u>	
Total	\$1,983,588 57	\$35,165 67	\$59,320 67	\$47,661 85	\$2,055,405 42	\$2,051,373 21	\$4,032 21

STATEMENT OF APPROPRIATIONS, 1917 (REVENUE).

	Balance from 1916	Receipts	Total Credit	Expenditures	Balance to 1918
Other Accounts.					
Income of Trust Funds:—					
School:—					
S. Newton Cutler Fund	\$316 39	\$212 88	\$529 27	\$128 39	\$400 88
Library:—					
S. Newton Cutler Fund	119 74	42 56	162 30	129 07	33 23
Hunt Art Fund	149 29	85 00	234 29	15 00	219 29
Hunt Book Fund	550 60	294 51	1,045 11	1,003 83	41 28
Hunt Fund for Expenses	202 77	.....	202 77	.....	202 77
Pitman Art Fund	103 53	170 04	273 57	218 09	55 48
Pitman Poetry Fund	6 49	42 52	49 01	41 74	7 27
Wilder Children's Fund	17 96	4 00	21 96	14 95	7 01
Tellers' Overs and Shorts . . . . .	.....	66 18	66 18	62 21	3 97
Temporary Loans . . . . .	.....	.....	1,390,000 00	1,390,000 00	.....
Grade Crossings . . . . .	.....	.....	54 16	54 16	.....
State Taxes and Assessments . . . . .	.....	.....	323,493 43	323,493 43	.....
County of Middlesex . . . . .	.....	.....	80,291 55	80,291 55	.....
Advanced to Poor Department . . . . .	.....	.....	1,200 00	1,200 00	.....
Court Judgments . . . . .	.....	.....	199 00	199 00	.....
Cash Refunds:—					
Taxes . . . . .	.....	.....	210 19	210 19	.....
National Bank Tax . . . . .	.....	.....	68 24	68 24	.....
Special Assessments . . . . .	.....	.....	10 55	10 55	.....
Water Rates . . . . .	.....	.....	126 32	126 32	.....
	<u>\$1,466 77</u>	<u>\$48,374 08</u>	<u>\$3,853,643 32</u>	<u>\$3,848,639 93</u>	<u>\$5,003 39</u>

STATEMENT OF APPROPRIATIONS, 1917 (NON-REVENUE)

	Balance from 1916	Appropriation	Appropriation Appropriation Transfer from Transfer to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1918
Protection of Persons and Property.							
Electrical Department, Underground Wires .	798 14	.....	.....	.....	798 14	495 00	303 14
New Building, Fire Alarm Signal System .	6,749 22	.....	246 18	.....	6,995 40	6,995 40	.....
Fire Department Additional Apparatus .	1 71	.....	1 71	.....	.....	.....	.....
Extreme Emergency, Health and Safety .	.....	25,000 00	.....	.....	25,000 00	9,569 55	15,430 45
Health and Sanitation.							
Sewers Construction .	7,688 35	7,800 00	.....	301 31	15,789 66	15,020 39	769 27
Highways.							
Highways Construction:—							
New Streets .	2,357 95	25,000 00	.....	.....	27,357 95	26,716 15	641 80
Permanent Pavement .	19,146 02	35,000 00	.....	366 76	58,412 78	58,411 16	1 62
Macadam Pavement .	14 58	75,000 00	48 15	36 05	70,235 63	69,971 99	263 64
Sidewalks Construction .	18 05	25,000 00	.....	134 28	26,067 33	26,066 90	43
Education.							
Bennett School Addition .	166 71	.....	.....	.....	166 71	.....	166 71
S. Newton Cutler School .	944 79	.....	4,013 64	.....	4,958 43	4,958 43	.....

STATEMENT OF APPROPRIATIONS, 1917 (NON-REVENUE).

	Balance from 1916	Appropriation	Appropriation Transfer from	Appropriation Transfer to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1918
S. Newton Cutler School Addition	495 34		50 00			445 34		445 34
New School Building, East Somerville	5,358 16			1,328 64		6,686 80	5,640 10	1,046 70
New School Building, Holland Street Schoolhouses	58,896 84		1,574 82			57,322 02	54,556 30	2,765 72
Sprinkler System	628 23	3,000 00				3,628 23	88 35	3,539 88
Baxter School, Additional Land		4,000 00				4,000 00	4,000 00	
Bell School, Additional Land	87 20		87 20					
Boys' Industrial School Addition	9,797 50					9,797 50	8,900 66	896 84
Southern Junior High School		90,000 00				90,000 00	7,579 24	82,420 76
Building Connection:— Forster Schoolhouse		2,000 00				2,000 00		2,000 00
Libraries.								
New East Somerville Branch Library				286 59	16,000 00	16,286 59	13,571 68	2,714 91
Recreation.								
Field House, Somerville Field	2,983 52					2,983 52	1 02	2,982 50

SERVICE TRANSFERS.

Treasury Department:—		
Assessor's Department		\$67 02
City Clerk's Department:—		
Election Expenses, City Clerk	\$500 00	
Election Expenses, Registrars of Voters	750 00	
Executive Department	53	
Health Department	4 60	
Extreme Emergency	53	
	<hr/>	1,255 66
Fire Department:—		
Executive Department	\$12 25	
City Messenger	227 15	
Engineering Department	207 48	
Commissioner of Buildings	291 74	
Weights and Measures Department	92 83	
Electrical Department	169 64	
Health Department	22 67	
Highway Maintenance	68 00	
School Contingent	5 25	
	<hr/>	1,097 01
Weights and Measures Department:—		
Pedlers' License Commission	\$33 00	
Soldiers' Benefits—General Administration	13 92	
	<hr/>	46 92
Electrical Department:—		
Fire Department		385 72
Care of Trees:—		
Parks Maintenance		48 43
Contagious Hospital:—		
Poor Department—Miscellaneous		310 73
Inspection of School Children:—		
School Nurses' Salaries		130 00
Highway Maintenance:—		
Suppression of Moths	\$229 01	
Care of Trees	535 17	
Sanitary Department	3,672 03	
Street Cleaning	3,524 59	
Street Sprinkling	3,397 54	
Sidewalks Maintenance	1,758 93	
Permanent Pavement	1,128 25	
Police Department	413 08	
Water Maintenance	282 92	
Parks Maintenance	363 65	
Macadam Pavement	6,533 41	
Sidewalks Construction	683 53	
Maintenance Highway Buildings	92	
Maintenance Bathhouse	60	
Maintenance City Home Buildings	7 35	
New School Building, Holland Street	342 77	
New Streets	509 11	
School Contingent	40 32	
Buildings and Grounds	131 76	
Boys' Industrial School Addition	14 76	
New East Somerville Branch Library	281 25	
Sewers Construction	770 50	
	<hr/>	\$24,621 45
Carried forward		\$27,962 94

Brought forward		\$27,962 94	
Poor Department—Miscellaneous:—			
Soldiers' Relief			35 40
Poor Department—City Home:—			
School Contingent	\$56 50		
Parks Maintenance	25 13		
			<hr/> 81 63
State Aid:—			
State Aid—German War			83 33
School Contingent:—			
Buildings and Grounds			8 19
Buildings and Grounds:—			
Highway Maintenance	\$129 94		
School Contingent	393 00		
Damage to Persons and Property	2 35		
			<hr/> 525 29
Maintenance Park Buildings:—			
Parks Maintenance			26 87
Playgrounds Maintenance:—			
Summer Playgrounds			89 53
Water Maintenance:—			
Highway Maintenance	\$196 98		
Water Works Extension	13,318 74		
Street Sprinkling	411 62		
Parks Maintenance	116 88		
Maintenance Park Buildings	19 24		
New Bathhouse	68		
New School Building, Holland Street	13 22		
Suppression of Moths	41 85		
New Streets	30 97		
Permanent Pavement	68 00		
Sidewalks Construction	45 20		
Sanitary Department	2 70		
Sewers Construction	15 90		
Fire Department	39 53		
Industrial School Addition	138 70		
			<hr/> 14,460 21
Water Works Extension:—			
Water Maintenance			152 31
Sewers Construction:—			
Maintenance Municipal Buildings	\$ 53		
Maintenance Union Square Branch Library	53		
Boys' Industrial School Addition	53		
Maintenance Fire Buildings	2 65		
New Bathhouse	52 60		
Water Maintenance	32 04		
Buildings and Grounds	4 24		
			<hr/> 93 12
Macadam Pavement:—			
Permanent Pavement			36 05
Sidewalks Construction:—			
Permanent Pavement	\$127 28		
Highway Maintenance	7 00		
			<hr/> 134 28
New Bathhouse, Mystic River:—			
Maintenance Bathhouse			293 32
			<hr/> \$43,982 47

TEMPORARY LOANS, 1917.

Taken By	Nos.	Issued	Due	Rate	Amount	Paid
Harris, Forbes & Co., Inc.	478 @ 493	Feb. 5, 1917	Nov. 5, 1917	2.99%	\$200,000 00	Nov. 5, 1917
Somerville Co-Operative Bank	494 @ 495	Feb. 13, 1917	June 12, 1917	3.00	30,000 00	June 12, 1917
F. S. Moseley & Co.	496 @ 497	Feb. 15, 1917	Nov. 7, 1917	3.19	50,000 00	Nov. 7, 1917
Old Colony Trust Co.	498 @ 504	Feb. 16, 1917	Nov. 7, 1917	3.875	100,000 00	Nov. 7, 1917
F. S. Moseley & Co.	505 @ 507	Mar. 5, 1917	Nov. 7, 1917	4.05	60,000 00	Nov. 7, 1917
F. S. Moseley & Co.	508 @ 509	Mar. 9, 1917	Nov. 20, 1917	3.85	50,000 00	Nov. 20, 1917
Old Colony Trust Co.	510 @ 511	Mar. 19, 1917	Nov. 20, 1917	3.70	50,000 00	Nov. 20, 1917
R. L. Day & Co.	512 @ 515	Mar. 19, 1917	Nov. 20, 1917	3.70	50,000 00	Nov. 20, 1917
Old Colony Trust Co.	516 @ 527	Mar. 27, 1917	Nov. 20, 1917	3.25	200,000 00	Nov. 20, 1917
F. S. Moseley & Co.	528 @ 535	Mar. 31, 1917	Dec. 12, 1917	3.00	200,000 00	Dec. 12, 1917
Harris, Forbes & Co., Inc.	536 @ 539	May 3, 1917	May 3, 1918	4.05	50,000 00	
Estabrook & Co.	550 @ 559	July 20, 1917	Apr. 3, 1918	4.20	50,000 00	
F. S. Moseley & Co.	560 @ 561	July 30, 1917	Apr. 3, 1918	4.35	50,000 00	
Harris, Forbes & Co., Inc.	562 @ 566	Aug. 7, 1917	Apr. 3, 1918	4.19	50,000 00	
F. S. Moseley & Co.	567 @ 568	Aug. 7, 1917	Mar. 20, 1918	4.15	25,000 00	
Harris, Forbes & Co., Inc.	569 @ 573	Aug. 15, 1917	May 22, 1918	4.20	50,000 00	
R. L. Day & Co.	574	Sept. 12, 1917	June 28, 1918	4.20	50,000 00	
F. S. Moseley & Co.	575 @ 576	Nov. 12, 1917	May 13, 1918	4.60	40,000 00	
Estabrook & Co.	577 @ 578	Nov. 13, 1917	Mar. 29, 1918	4.60	50,000 00	
Old Colony Trust Co.	579 @ 580	Dec. 5, 1917	Sept. 5, 1918	4.69	50,000 00	
Old Colony Trust Co.	581 @ 583	Dec. 10, 1917	May 10, 1918	4.61	45,000 00	
Total amount of loans, 1917					\$1,500,000 00	
Outstanding January 1, 1917					400,000 00	
Payments, 1917					\$1,900,000 00	
Outstanding January 1, 1918					1,390,000 00	
					\$510,000 00	

REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credits:—			
Balance from 1916 Account	\$3,265 96		
Supplementary Warrant No. 1, 1917	92 00		
Supplementary Warrant No. 2, 1917	305 80		
Supplementary Warrant No. 3, 1917	2 00		
			<u>\$3,665 76</u>
Charges:—			
Abatements	\$153 94		
Transfer to Revenue for Appropriations for S. Newton Cutler School	1,998 68		
			<u>2,152 62</u>
Balance December 31, 1917			<u>\$1,513 14</u>

GRADE CROSSINGS ADVANCES.

Charges:—			
Balance from 1916 Account	\$3,428 42		
Advance	14 80		
Transfers to Grade Crossings Adjust- ments	2,054 32		
			<u>5,497 54</u>
Credits:—			
Cash from State	\$926 01		
Cash from Boston & Maine Railroad	2,582 44		
Cash from Fitchburg Railroad Co.	1,611 79		
			<u>5,120 24</u>
Balance to 1918 Account			<u>\$377 30</u>

GRADE CROSSINGS ADJUSTMENTS.

Credits:—			
From Grade Crossings Advances Ac- count			<u>\$2,054 32</u>
Charges:—			
Paid Commonwealth of Massachusetts	\$39 36		
Transfer to S. Newton Cutler School Ac- count	2,014 96		
			<u>\$2,054 32</u>

SALE OF LAND, WINTER HILL.

Credit:—			
Cash received			<u>\$4,500 00</u>
Charges:—			
Transfer to Revenue for appropriation for Additional Land, Baxter School			<u>4,000 00</u>
Balance to 1918 account			<u>\$500 00</u>

PREMIUMS ON BONDS.

Credits:—			
Balance from 1916 account	\$2,698 43		
Account of loan dated April 1	190 40		
Account of loan dated July 2	880 00		
			<u>\$3,768 83</u>
Charges:—			
Transfer to appropriation for Reduction of Funded Debt			<u>2,698 43</u>
Balance to 1918 account.. . . .			<u>\$1,070 40</u>

ACCRUED INTEREST ON BONDS.

Credits:—	
Balance from 1916 account	\$169 45
Account of loan dated April 1	392 89
Account of loans dated July 2	1,310 94
	<hr/>
	\$1,873 28
Charges:—	
Transfers to appropriation for Interest	562 34
	<hr/>
Balance to 1918 account	\$1,310 94

FUNDED DEBT.

The total funded debt of the city January 1, 1917, was \$1,729,000. This debt was increased during the year \$261,000. Maturities paid amounted to \$232,500, making the funded debt January 1, 1918, \$1,757,500, an increase of \$28,500.

The debt January 1, 1917, was classified as follows:—

City Loan	\$714,000 00	
Municipal Loan	57,000 00	
Sewer Loan	293,000 00	
Public Building Loan	255,000 00	
Highway Loan	321,000 00	
Bridge Loan	33,000 00	
	<hr/>	
Total inside limit		\$1,673,000 00
Sewer Loan	\$27,000 00	
Metropolitan Park Assessment Loan	13,000 00	
Water Loan	16,000 00	
	<hr/>	
Total outside limit		56,000 00
		<hr/>
Total Funded Debt		\$1,729,000 00

Appropriations increasing the debt were made as follows:—

Extreme Emergency	\$25,000 00	
New Streets	14,000 00	
Permanent Pavement	35,000 00	
Macadam Pavement	75,000 00	
Sidewalks Construction	17,000 00	
Sewers Construction	5,000 00	
Southern Junior High School	90,000 00	
	<hr/>	
Total increase		\$261,000 00

Debt reductions by maturities were as follows:—

City Loan	\$118,500 00	
Municipal Loan	10,000 00	
Sewer Loan	19,000 00	
Public Building Loan	19,000 00	
Highway Loan	56,000 00	
Bridge Loan	1,000 00	
	<hr/>	
Total inside limit		\$223,500 00

Sewer Loan	\$3,000 00	
Metropolitan Park Assessment Loan	1,000 00	
Water Loan	5,000 00	
	<hr/>	
Total outside limit		\$9,000 00
		<hr/>
Total reduction		\$232,500 00

The funded debt of the city January 1, 1918, is classified as follows:—

City Loan	\$595,500 00	
Municipal Loan	47,000 00	
Sewer Loan	279,000 00	
Public Building Loan	326,000 00	
Highway Loan	406,000 00	
Bridge Loan	32,000 00	
Emergency Loan	25,000 00	
	<hr/>	
Total within limit		\$1,710,500 00
Sewer Loan	\$24,000 00	
Metropolitan Park Loan	12,000 00	
Water Loan	11,000 00	
	<hr/>	
Total outside limit		47,000 00
		<hr/>
Total Funded Debt		\$1,757,500 00

The funded debt of the city January 1, 1918, is classified as follows:—

City Bonds, 3½ per cent.	\$98,000 00	
City Bonds, 4 per cent.	436,500 00	
City Bonds, 4¼ per cent.	61,000 00	
Municipal Bonds, 4½ per cent.	47,000 00	
Sewer Bonds, 3½ per cent.	80,000 00	
Sewer Bonds, 4 per cent.	173,000 00	
Sewer Bonds, 4¼ per cent.	26,000 00	
Public Building Bonds, 4 per cent.	236,000 00	
Public Building Bonds, 4½ per cent.	90,000 00	
Highway Bonds, 4½ per cent.	10,000 00	
Highway Bonds, 4 per cent.	290,000 00	
Highway Bonds, 3½ per cent.	106,000 00	
Bridge Bonds, 3½ per cent.	32,000 00	
Emergency Bonds, 4¼ per cent.	25,000 00	
	<hr/>	
Total within limit		\$1,710,500 00
Sewer Loan, 4 per cent.	\$24,000 00	
Metropolitan Park Loan, 3½ per cent.	12,000 00	
Water Loan, 4 per cent.	11,000 00	
	<hr/>	
Total outside limit		47,000 00
		<hr/>
Total Funded Debt		\$1,757,500 00

CITY AUDITOR.

Mature	City Loan	Municipal Loan	Sewer Loan	Public Building Loan	Highway Loan	Lowell Street Bridge Loan	Sewer Loan Chap. 357, 1895	Metropolitan Park Assessment Chap. 325, 1902	Water Loan	Emergency Loan	Total Maturities By Years
1918.....	\$105,500	\$8,000	\$20,000	\$24,000	\$79,000	\$1,000	\$3,000	\$1,000	\$5,000	\$5,000	\$251,500
1919.....	92,500	8,000	20,000	24,000	78,000	1,000	3,000	1,000	4,000	5,000	236,500
1920.....	79,500	8,000	20,000	24,000	64,000	1,000	3,000	1,000	2,000	5,000	207,500
1921.....	68,500	8,000	20,000	24,000	55,000	1,000	3,000	1,000	.....	5,000	185,500
1922.....	52,500	8,000	20,000	19,000	46,000	1,000	3,000	1,000	.....	5,000	155,500
1923.....	41,500	7,000	18,000	18,000	27,000	1,000	3,000	1,000	.....	.....	116,500
1924.....	25,500	.....	17,000	18,000	27,000	1,000	3,000	1,000	.....	.....	92,500
1925.....	23,000	.....	17,000	18,000	16,000	1,000	3,000	1,000	.....	.....	79,000
1926.....	19,000	.....	15,000	18,000	11,000	1,000	.....	1,000	.....	.....	65,000
1927.....	19,000	.....	14,000	17,000	3,000	1,000	.....	1,000	.....	.....	55,000
1928.....	17,000	.....	12,000	16,000	.....	1,000	.....	1,000	.....	.....	47,000
1929.....	16,000	.....	11,000	16,000	.....	1,000	.....	1,000	.....	.....	45,000
1930.....	15,000	.....	10,000	16,000	.....	1,000	.....	.....	.....	.....	42,000
1931.....	12,000	.....	10,000	15,000	.....	1,000	.....	.....	.....	.....	38,000
1932.....	9,000	.....	8,000	15,000	.....	1,000	.....	.....	.....	.....	33,000
1933.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	.....	.....	23,000
1934.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	.....	.....	23,000
1935.....	.....	.....	7,000	8,000	.....	1,000	.....	.....	.....	.....	16,000
1936.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	.....	.....	11,000
1937.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	.....	.....	11,000
1938.....	.....	.....	4,000	.....	.....	1,000	.....	.....	.....	.....	5,000
1939.....	.....	.....	3,000	.....	.....	1,000	.....	.....	.....	.....	4,000
1940.....	.....	.....	2,000	.....	.....	1,000	.....	.....	.....	.....	3,000
1941.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1942.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1943.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	.....	2,000
1944.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1945.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1946.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1947.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1948.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
1949.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	.....	1,000
	\$595,500	\$47,000	\$279,000	\$326,000	\$406,000	\$32,000	\$24,000	\$12,000	\$11,000	\$25,000	\$1,757,500

MATURITIES ON FUNDED DEBT, 1918.

Class of Loan	Jan. 1, 1918	April 1, 1918	July 1, 1918	Oct. 1, 1918	Total
City	\$9,000 00	\$59,000 00	\$35,500 00	\$2,000 00	\$105,500 00
Municipal . . . . .	.....	.....	8,000 00	.....	8,000 00
Sewer	3,000 00	10,000 00	10,000 00	.....	23,000 00
Public Buildings	6,000 00	5,000 00	13,000 00	.....	24,000 00
Highway	18,000 00	56,000 00	5,000 00	.....	79,000 00
Bridge . . . . .	.....	1,000 00	.....	.....	1,000 00
Metropolitan Park . . . . .	.....	.....	1,000 00	.....	1,000 00
Water . . . . .	.....	.....	1,000 00	4,000 00	5,000 00
Extreme Emergency . . . . .	.....	.....	5,000 00	.....	5,000 00
Total	\$36,000 00	\$131,000 00	\$78,500 00	\$6,000 00	\$251,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT, 1918.

Class of Loan	Jan. 1, 1918	April 1, 1918	July 1, 1918	Oct. 1, 1918	Total
City	\$5,445 00	\$6,296 25	\$5,265 00	\$5,137 50	\$22,143 75
Municipal	1,057 50	.....	1,057 50	.....	2,115 00
Sewer	2,240 00	3,652 50	2,185 00	3,456 25	11,533 75
Public Buildings	5,085 00	1,660 00	4,965 00	1,560 00	13,270 00
Highway	2,520 00	5,360 00	2,205 00	4,240 00	14,325 00
Bridge . . . . .	.....	560 00	.....	542 50	1,102 50
Metropolitan Park	210 00	.....	210 00	.....	420 00
Water	20 00	200 00	20 00	200 00	440 00
Extreme Emergency	531 25	.....	531 25	.....	1,062 50
Total	\$17,108 75	\$17,728 75	\$16,438 75	\$15,136 25	\$66,412 50

MATURITIES ON FUNDED DEBT (4 YEARS).

Class of Loan	1915				1916				1917				1918				Total
City	.	.	.	\$150,500 00	.	.	.	\$131,500 00	.	.	.	\$118,500 00	.	.	.	\$105,500 00	\$506,000 00
Municipal	.	.	.	10,000 00	.	.	.	10,000 00	.	.	.	10,000 00	.	.	.	8,000 00	38,000 00
Sewer	.	.	.	20,000 00	.	.	.	20,000 00	.	.	.	22,000 00	.	.	.	23,000 00	85,000 00
Public Buildings	8,000 00	.	.	.	19,000 00	.	.	.	24,000 00	51,000 00
Highway	.	.	.	18,000 00	.	.	.	26,000 00	.	.	.	56,000 00	.	.	.	79,000 00	189,000 00
Bridge	.	.	.	1,000 00	.	.	.	1,000 00	.	.	.	1,000 00	.	.	.	1,000 00	4,000 00
Metropolitan Park	.	.	.	1,000 00	.	.	.	1,000 00	.	.	.	1,000 00	.	.	.	1,000 00	4,000 00
Water	.	.	.	5,000 00	.	.	.	5,000 00	.	.	.	5,000 00	.	.	.	5,000 00	20,000 00
Extreme Emergency	5,000 00
Total	.	.	.	\$205,500 00	.	.	.	\$212,500 00	.	.	.	\$232,500 00	.	.	.	\$251,500 00	\$902,000 00

INTEREST REQUIREMENTS ON FUNDED DEBT (4 YEARS).

Class of Loan	1915				1916				1917				1918				Total
City	.	.	.	\$37,558 75	.	.	.	\$31,768 75	.	.	.	\$26,606 25	.	.	.	\$22,143 75	\$118,077 50
Municipal	.	.	.	3,465 00	.	.	.	3,015 00	.	.	.	2,565 00	.	.	.	2,115 00	11,160 00
Sewer	.	.	.	13,176 25	.	.	.	12,708 75	.	.	.	12,306 25	.	.	.	11,533 75	49,725 00
Public Building	.	.	.	2,040 00	.	.	.	7,240 00	.	.	.	9,980 00	.	.	.	13,270 00	32,530 00
Highway	.	.	.	6,640 00	.	.	.	9,747 50	.	.	.	13,822 50	.	.	.	14,325 00	44,535 00
Bridge	.	.	.	1,207 50	.	.	.	1,172 50	.	.	.	1,137 50	.	.	.	1,102 50	4,620 00
Metropolitan Park	.	.	.	525 00	.	.	.	490 00	.	.	.	455 00	.	.	.	420 00	1,890 00
Water	.	.	.	1,040 00	.	.	.	840 00	.	.	.	640 00	.	.	.	440 00	2,960 00
Extreme Emergency	1,062 50
Total	.	.	.	\$65,652 50	.	.	.	\$66,982 50	.	.	.	\$67,512 50	.	.	.	\$66,412 50*	\$266,560 00

*Actual present debt. Estimate for 1918 loans not included.

BORROWING CAPACITY DECEMBER 31, 1917.

Valuation, 1915	\$77,217,399 00	
Supplementary	227,000 00	
	<hr/>	\$77,444,399 00
Valuation, 1916	\$79,304,329 00	
Supplementary	141,400 00	
	<hr/>	79,445,729 00
Valuation, 1917	\$78,921,472 00	
Supplementary	13,900 00	
	<hr/>	78,935,372 00
		<hr/>
		\$235,825,500 00
Abatements, 1915	\$542,807 00	
Abatements, 1916	586,220 00	
Abatements, 1917	381,850 00	
	<hr/>	1,510,877 00
		<hr/>
		\$234,314,623 00
Average valuation for three years	\$78,104,874 00	
Two and one-half per cent.	1,952,621 85	
Present debt within limit	1,710,500 00	
	<hr/>	
Borrowing capacity December 31, 1917		\$242,121 85
Maturities:—		
January 1, 1918	\$36,000 00	
April 1, 1918	131,000 00	
July 1, 1918	\$78,500 00	
Less outside limit	5,000 00	
	<hr/>	73,500 00
October 1, 1918	\$6,000 00	
Less outside limit	4,000 00	
	<hr/>	2,000 00
		<hr/>
		242,500 00
Maturities in 1918 within limit		\$484,621 85
Total maturities on funded debt, 1918		\$251,500 00

OVERLAY ACCOUNTS.

Overlay, 1915.

Credits:—	
Balance from 1916 account	\$4,322 92
Reassessment	8 68
	<hr/>
	\$4,331 60
Charges:—	
Abatements	1,213 03
	<hr/>
Balance December 31, 1917	\$3,118 57

Overlay, 1916.

Credits:—	
Balance from 1916 account	\$8,274 87
Charges:—	
Abatements	5,837 68
	<hr/>
Balance December 31, 1917	\$2,437 19

Overlay, 1917.

Credits:—	
Taxes, 1917	\$22,473 15
Charges:—	
Abatements	9,426 70
	<hr/>
Balance December 31, 1917	\$13,046 45

RESERVE FUND, SURPLUS FROM OVERLAY.

Credits:—	
Balance from 1916 account	\$3,224 45
Balance December 31, 1917	\$3,224 45

EXCESS AND DEFICIENCY.

Credits:—	
Balance January 1, 1917	\$80,006 77
Excess of Appropriations	\$4,032 21
Excess of Revenue	23,477 19
	<hr/>
	27,509 40
	<hr/>
	\$107,516 17
Charges:—	
Transfer to reduce tax levy	\$70,000 00
Refund credit to Commonwealth of Massachusetts, State Aid	20 00
Abatements Special Assessments, 1916	18 91
Abatements 1916 Water Charges	57 51
	<hr/>
	\$70,096 42
	<hr/>
Balance December 31, 1917	\$37,419 75

CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

Receipts.

General Revenue.

Taxes:—

Taxes, 1917	\$1,421,898 88
Taxes, 1916	334,932 01
Taxes, 1915	1,494 51
From State:—	
Corporation	56,762 76
National Bank	4,075 80
Income Tax	77,055 53

Licenses and Permits.

Licenses:—

Amusement	739 00
Junk	785 00
Milk	291 00
Pool, billiards and bowling alleys	336 00
Sunday	350 00
Innholders and victuallers	72 00
Hawkers, pedlers, etc.	725 00
All other	308 50

Permits:—

Marriage	1,242 00
Signs, awnings, etc.	52 00
Garage	296 00
All other	47 50

Fines and Forfeits.

Court Fines	2,727 23
Departmental penalties	183 50

Grants and Gifts.

From State, Vocational School	7,615 15
From County, Dog Licenses	2,575 26
From Carnegie Corporation	16,000 00

All Other General Revenue.

Grade Crossings	5,120 24
Sale of Land	4,500 00
Excise Ship Owner Tax	167 80

Total General Revenue	\$1,940,352 67
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Commercial Revenue—Special Assessments.

For Expenses:—

Street Sprinkling, 1917	\$27,938 80
Street Sprinkling, 1916	8,577 00
Street Sprinkling, 1915	1 75
Moths, 1917	942 25
Moths, 1916	445 25

For Outlays:—

Sewers, 1916	839 32
Sidewalks, 1917	4,610 83
Sidewalks, 1916 and 1915	8,190 08
Street Betterments, 1917	2,971 23
Street Betterments, 1916 and 1915	8,188 54

Total Commercial Revenue—Special Assessments	62,705 05
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COMMERCIAL REVENUE—DEPARTMENTAL.

General Government.

Treasurer	\$7,143 61
Assessors	9 00
City Clerk	1,013 50
Other	26 34

Protection of Persons and Property.

Police Department:—

Service of officers	167 50
Cloth	449 70
Rent of Court Room	1,000 00

Fire Department.

Old materials	59 04
Horses	475 00
Sealer of Weights and Measures	542 12
Electrical Department	105 00

Health and Sanitation.

Contagious Hospital	10,035 69
Health Department	280 03
Inspection	435 40
Sewers Maintenance, material	7 64
Sewers Construction	17 00

Sanitary Department.

Garbage	12,301 75
Incinerator	1,150 00

Highways.

Labor and materials	5,112 59
Permanent Pavement	366 76
Sidewalks Maintenance	5 47
Sprinkling	27 50
Rent of Tenements	240 00

Charities.

Almshouse:—

Sale of produce, etc.	6,203 30
Board	3,417 47

Outside Relief:—

Individuals	171 05
Cities and Towns	5,098 42
State	13,992 29

Mothers' Aid:—

Cities and Towns	266 00
State	727 13

Soldiers' Benefits.

State Aid	14,088 00
Military Aid	155 00
Soldiers' Burials	464 00
Mexican Border	2,231 36

Education.

Tuition State Wards	706 50
Other Tuition	3,006 64
Rent High School Hall	1,480 00
Miscellaneous	12 20

Carried forward	<u>\$92,990 00</u>
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Brought forward	\$92,990 00	
Libraries.		
Fines, etc.	1,471 55	
Recreation.		
Bathhouse	869 95	
Shower Baths	212 80	
Unclassified.		
Electrolysis	\$500 00	
State, in lieu of taxes	66 68	
Tellers' Overs and Shorts	66 18	
	<hr/>	
Total Commercial Revenue—Departmental		\$96,177 16
Commercial Revenue—Public Service Enterprises.		
Water Department:—		
Sale of Water:—		
Metered, 1917	\$186,053 63	
Metered, 1916	25,439 39	
Annual	46,169 08	
Additional	1,460 28	
Service Assessments	3,494 53	
Maintenance Bills	3,542 59	
	<hr/>	
Total Commercial Revenue—Public Service Enterprises		266,159 50
Commercial Revenue—Interest.		
Deposits	\$14,015 12	
Taxes	11,503 79	
Special Assessments	663 02	
Trust Funds:—		
School	212 88	
Library	838 63	
Miscellaneous	10 79	
	<hr/>	
Total Commercial Revenue—Interest		27,244 23
Municipal Indebtedness.		
Temporary Loans:—		
Anticipation of Revenue	\$1,500,000 00	
General Loans:—		
Sewer	5,000 00	
Highway	141,000 00	
Public Building	90,000 00	
Emergency	25,000 00	
Premiums on Loans	1,070 40	
	<hr/>	
Total Municipal Indebtedness		1,762,070 40
Agency, Trust and Investment.		
Agency:—		
Redemption of Tax Liens	\$3,615 80	
	<hr/>	
Total Agency, Trust and Investment		3,615 80
Refunds.		
Soldiers' Benefits	\$244 94	
Appropriations	1,123 33	
Accrued Interest	1,310 94	
Outlay Appropriations	208 19	
	<hr/>	
Total Refunds		2,887 40
		<hr/>
Total Receipts		\$4,161,212 21

EXPENDITURES.
GENERAL GOVERNMENT.

	Expenses.	Outlays.
Board of Aldermen Expenses.		
Books, postage and supplies	\$72 54	
Printing and advertising	103 25	
Auto hire, carfares, etc.	111 00	
Refreshments	714 94	
Badges	85 00	
Miscellaneous	25 17	
	\$1,111 90	
Clerk of Committees Department.		
Salaries and Wages:—		
Clerk	\$1,600 00	
Assistant	500 00	
Other Expenses:—		
Books, postage and supplies	73 46	
Printing and advertising	14 50	
Telephone	97 63	
Miscellaneous	18 00	
	2,303 59	
Executive Department.		
Salaries and Wages:—		
Mayor	\$2,500 00	
Secretaries	1,561 32	
Other Expenses:—		
Books, postage and supplies	186 47	
Printing and advertising	96 30	
Telephone	149 72	
Auto hire	69 75	
Inaugural expenses	68 00	
Contingent expenses	99 90	
Miscellaneous	17 39	
	4,748 85	
Auditing Department.		
Salaries and Wages:—		
Auditor	\$2,300 00	
Clerks	1,752 80	
Temporary Clerk	1 92	
Other Expenses:—		
Books, postage and supplies	123 38	
Printing and advertising	358 70	
Telephone	44 18	
Miscellaneous	1 81	
	4,582 79	
Treasury Department.		
Salaries and Wages:—		
Treasurer and Collector	\$3,200 00	
Deputy Collector	1,565 00	
Cashier	1,100 71	
Clerks	5,625 57	
Other Expenses:—		
Books, postage and supplies	2,371 46	
Printing and advertising	1,304 69	
Carried forward	\$15,167 43	\$12,747 13

Brought forward	\$15,167 43	\$12,747 13
Carfares, teams, etc.	44 65	
Telephone	158 46	
Bonds	505 00	
Miscellaneous	230 23	
	<hr/>	16,105 77
Assessors' Department.		
Salaries and Wages:—		
Chairman	\$2,034 99	
Assessors (4)	3,599 92	
Assistant Assessors	1,350 00	
Clerks (Office)	4,277 45	
Clerks (Street)	328 00	
Other Expenses:—		
Books, postage and supplies	495 26	
Printing and advertising	906 18	
Carfares, teams, etc.	14 15	
Telephone	41 29	
Miscellaneous	134 76	
	<hr/>	13,182 00
Pedlers' License Commission.		
Books, postage and supplies	\$47 35	
Advertising	12 00	
	<hr/>	59 35
Certification of Notes and Bonds.		
Certifying	\$645 00	
	<hr/>	645 00
City Clerk's Department.		
Salaries and Wages:—		
City Clerk	\$3,200 00	
Assistant City Clerk	1,476 77	
Clerks	2,142 53	
Other Expenses:—		
Books, postage and supplies	408 89	
Printing and advertising	61 72	
Telephone	135 29	
Typewriters and supplies	212 29	
Duplicator	25 00	
Miscellaneous	48 10	
	<hr/>	7,710 59
Registration of City Laborers.		
Salaries and Wages:—		
Registration Clerk	\$400 01	
Other Expenses:—		
Books, postage and supplies	4 00	
	<hr/>	404 01
Law Department.		
Salaries and Wages:—		
City Solicitor	\$2,100 00	
Claim Agent	16 66	
Other Expenses:—		
Books, postage and supplies	12 45	
Printing and advertising	19 00	
Telephone	18 00	
Fees	177 70	
	<hr/>	
Carried forward	\$2,343 81	\$50,853 85

Brought forward	\$2,343 81	\$50,853 85
Recording	5 83	
Clerical hire	117 01	
Costs, Murdough suit	135 00	
Miscellaneous	65 52	
	<hr/>	2,667 17
City Messenger's Department.		
Salaries and Wages:—		
Messenger	\$1,700 00	
Other Expenses:—		
Books, postage and supplies	40	
Auto maintenance	735 09	
Telephone	22 61	
Carfares	15 00	
	<hr/>	2,473 10
Engineering Department.		
Salaries and Wages:—		
City Engineer	\$3,200 00	
Assistants	6,830 58	
Clerk	800 76	
Temporary Clerk	10 00	
Other Expenses:—		
Books, printing, postage and supplies	54 54	
Telephone	86 54	
Auto maintenance	968 17	
Instruments and equipment	2 73	
Carfares	172 08	
Miscellaneous	7 12	
	<hr/>	12,132 52
Public Buildings Department, Commissioner of Public Buildings.		
Salaries and Wages:—		
Commissioner	\$2,250 00	
Inspector of Plumbing	1,200 00	
Clerk	933 79	
Temporary Clerk	36 00	
Other Expenses:—		
Books, postage and supplies	118 77	
Printing and advertising	38 40	
Telephone	131 97	
Auto and maintenance	1,873 43	
Miscellaneous	17 05	
	<hr/>	6,599 41
Maintenance Municipal Buildings (City Hall and City Hall Annex).		
Salaries and Wages:—		
Janitors	\$3,341 68	
Labor	577 01	
Other Expenses:—		
Fuel and light	3,557 61	
Janitors' supplies	247 17	
Furniture and furnishings	950 31	
Repairs:—		
Building	293 83	
	<hr/>	
Carried forward	\$8,967 61	\$74,726 05

Brought forward	\$8,967 61	\$74,726 05
Heating apparatus	126 80	
Hardware and materials	304 90	
Ice and spring water	198 05	
Miscellaneous	228 90	
	<hr/>	9,826 26

City Planning Board.

Books, postage and supplies	\$8 50	
Typewriting	2 00	
	<hr/>	10 50

Election Expenses, City Clerk.

Salaries and Wages:—		
Clerks	\$547 44	
Other Expenses:—		
Books, postage and supplies	361 10	
Printing and advertising	1,059 73	
Carfares and auto hire	330 49	
Refreshments	25 75	
Repairs of ballot boxes	70 00	
Miscellaneous	30 97	
	<hr/>	2,425 48

Election Expenses, Registrars of Voters.

Salaries and Wages:—		
Registrars	\$800 00	
Clerks	207 00	
City Clerk's Assistants	750 00	
Other Expenses:—		
Books, postage and supplies	76 29	
Printing and advertising	755 50	
Refreshments	10 00	
Auto hire	10 00	
Miscellaneous	15	
	<hr/>	2,608 94

Election Expenses, Pay of Election Officers.

Salaries and Wages:—		
Wardens and clerks	\$1,548 00	
Inspectors	3,424 00	
	<hr/>	4,972 00

Public Buildings Department, Polling Places.

Labor	\$185 38	
Teams	133 00	
Rent	247 50	
Lumber	22 50	
Hardware and materials	20 49	
Fuel and light	8 47	
Moving booths	80 00	
	<hr/>	697 34

PROTECTION OF PERSONS AND PROPERTY.**Extreme Emergency, Health and Safety.**

Salaries and Wages:—		
Secretary	\$250 00	
Clerk	454 00	
	<hr/>	
Carried forward	\$704 00	\$95,266 57

Brought forward	\$704 00	\$95,266 57
Special Police	5,169 01	
Other Expenses:—		
Books, printing, postage and supplies	485 58	
Filing case	11 70	
Badges	167 78	
Fire-arms	2,813 83	
Red Cross supplies, bedding, etc.	37 78	
Telephone	51 10	
Auto hire	3 00	
Miscellaneous	125 77	

\$9,569 55

Police Department.

Salaries and Wages:—

Chief	\$2,502 06
Captain and lieutenants	9,746 51
Sergeants and inspectors	5,800 02
Patrolmen	97,022 03
Special police	283 50
Matron and assistant matron	735 94
Other employees	3,269 29

Horses and Care of Same:—

Hay, grain and straw	158 41
Shoeing	140 58
Miscellaneous	354 15

Equipment and Repairs:—

Automobiles and motor cycles	1,628 04
Gasoline and supplies	500 26
Equipment for men	516 59

Other Expenses:—

Books, printing, postage and supplies	220 01
Care of prisoners	88 03
Telephone	281 85
Laundry	28 52
Attending convention	51 84
Medical attendance	338 43
Miscellaneous	350 85

124,016 91

**Public Buildings Department, Maintenance
Police Buildings.**

Salaries and Wages:—

Janitors	\$1,374 79
Labor	284 61

Maintenance of Buildings:—

Fuel and light	1,431 66
Janitors' supplies	119 64
Furniture and furnishings	219 46

Repairs:—

Building	324 19
Heating apparatus	39 10
Hardware and materials	95 32
Miscellaneous	94 73

3,983 50

Carried forward \$223,266 98 \$9,569 55

Brought forward		\$223,266 98	\$9,569 55
Fire Department.			
Salaries and Wages:—			
Chief Engineer	\$2,502 06		
Assistant Engineers	3,451 65		
Firemen	95,771 83		
Callmen	3,445 64		
Temporary and emergency men	1,991 00		
Horses and Care of Same:—			
Harnesses and horse cloth- ing	5 00		
Hay, grain and straw	2,846 81		
Shoeing	853 25		
Medicine and veterinary	47 75		
Miscellaneous	4 50		
Equipment and Repairs:—			
Apparatus	3,648 97		
Hose	598 51		
Equipment for men	312 40		
Power	12 20		
Hardware, tools, etc.	156 60		
Miscellaneous	260 29		
Other Expenses:—			
Books, printing, postage and supplies	82 38		
Telephone	431 44		
Janitors' supplies	253 57		
Furnishings	159 15		
Laundry	240 90		
Medical attendance	65 00		
Repairs to hydrant	39 53		
Ice and spring water	90 31		
Miscellaneous	154 93		
Supplies:—			
Grease and oil	264 63		
Gasoline	850 81		
Fuel	15 64		
Soda and acid	147 55		
Miscellaneous	243 82		
		<hr/>	118,948 12
Public Building Department, Maintenance Fire Buildings.			
Salaries and Wages:—			
Labor	\$1,379 15		
Maintenance of Buildings:—			
Fuel and light	5,330 48		
Janitors' supplies	19 31		
Furniture and furnishings	421 66		
Repairs:—			
Buildings	3,743 08		
Heating apparatus	202 23		
Hardware and materials	1,275 57		
Insurance on boiler	124 00		
Miscellaneous	84 88		
		<hr/>	12,580 36
Carried forward		\$354,795 46	\$9,569 55

Brought forward	\$354,795 46	\$9,569 55
New Building Fire Alarm Signal System.		
Payment on contract	\$800 00	
Installation Fire Alarm Signal System	6,000 00	
Furniture and furnishings	95 40	
Bronze tablet	100 00	
	<hr/>	6,995 40

Weights and Measures Department.

Salaries and Wages:—

Sealer	\$1,100 00
Deputy sealer	1,100 00
Helper	17 10

Other Expenses:—

Books, postage and supplies	22 90
Printing and advertising	26 50
Equipment	45 38
Telephone	13 92
Auto and maintenance	583 69

2,909 49

Militia.

Use rifle range	\$238 10
Carfares	130 30
Carting ammunition	40

368 80

Electrical Department.

Salaries and Wages:—

Commissioner	\$1,800 00
Clerk	521 67
Labor	8,031 00

Other Expenses:—

Fire Alarm Signal System	872 24
Police Alarm System	274 18
Auto maintenance	341 96
Telephone	115 27
Books, printing, postage and supplies	52 12
Typewriter	89 10
Miscellaneous	21 34

12,118 88

Electrical Department, Underground Wires.

Labor	\$495 00
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495 00

Public Buildings Department, Maintenance**Electrical Department Building.**

Fuel	\$345 40
Light	67 51
Janitors' supplies	91
Furnishings	72 55
Hardware and materials	5 93
Miscellaneous	17 08

509 38

Carried forward

\$370,702 01

\$17,059 95

Brought forward		\$370,702 01	\$17,059 95
Suppression of Moths.			
Salaries and Wages:—			
Labor	\$2,682 32		
Other Expenses:—			
Books, postage and supplies	37 92		
Teams	229 01		
Hardware, tools and equip- ment	95 55		
Insecticides	259 98		
Gasoline	41 85		
Miscellaneous	7 46		
	<hr/>	3,354 09	
Care of Trees.			
Salaries and Wages:—			
Labor	\$2,401 76		
Other Expenses:—			
Teams	516 23		
Equipment, hardware and tools	127 51		
Lumber	20 61		
Miscellaneous	7 40		
	<hr/>	3,073 51	

HEALTH AND SANITATION.

Health Department.

General Administration:—

Salaries and Wages:—

Agent	\$1,090 87
Clerks	1,398 72
Chauffeur	365 00

Books, printing, postage and

supplies	340 80
Telephone	170 32
Miscellaneous	35 63

Quarantine and Contagious Diseases:—

Board and Treatment:—

Cities and towns	755 15
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Tuberculosis:—

Board and Treatment:—

Cities and towns	411 65
State	3,691 88
Groceries and provisions	312 00
Medicine	35
Miscellaneous	24 50

Other Expenses:—

Medical inspector	1,238 35
Acting medical inspector	682 26
Laboratory equipment and supplies	139 06
Ice	61 52
Auto maintenance	497 69
Delivering cultures	17 30
Burying dead animals	66 25
Miscellaneous	99 70

11,399 00

Carried forward		<hr/> \$388,528 61	<hr/> \$17,059 95
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Brought forward \$388,528 61 \$17,059 95

City Clerk's Department, Vital Statistics.

Canvassing and reporting births	\$725 55	
Reporting deaths	214 00	
Books, postage and supplies	70 85	
Advertising, printing, etc.	136 25	
Miscellaneous	26	
	<hr/>	1,146 91

Contagious Hospital.

Salaries and Wages:—		
Matron	\$1,000 00	
Nurses and other help	8,042 48	
Other Expenses:—		
Drugs and medicines	282 02	
Dry goods and clothing	551 23	
Groceries and provisions	7,909 98	
Utensils and supplies	1,340 16	
Telephone	91 72	
Miscellaneous	181 63	
	<hr/>	19,399 22

Public Buildings Department, Maintenance**Contagious Hospital.**

Salaries and Wages:—		
Janitor and labor	\$481 66	
Other Expenses:—		
Fuel	1,668 17	
Light	786 39	
Janitors' supplies	50 36	
Furniture and furnishings	160 65	
Repairs:—		
Buildings	155 47	
Heating apparatus	39 36	
Hardware and materials	25 68	
Miscellaneous	141 62	
	<hr/>	3,509 36

Inspection of Animals and Provisions.

Salaries and Wages:—		
Inspector	\$1,449 92	
Other Expenses:—		
Telephone	31 49	
Auto maintenance	49 98	
	<hr/>	1,531 39

Inspection of Milk and Vinegar.

Salaries and Wages:—		
Inspector	\$1,700 00	
Milk collector	635 00	
Other Expenses:—		
Books, printing and postage	47 36	
Equipment and supplies	269 38	
Telephone	31 78	
Auto and maintenance	1,300 08	
Attending convention	10 70	
Miscellaneous	22 74	
	<hr/>	4,017 04

Carried forward \$418,132 53 \$17,059 95

Brought forward		\$418,132 53	\$17,059 95
Inspection of School Children.			
Salaries and Wages:—			
Inspectors	\$1,600 00		
Books, printing and supplies	15 25		
Miscellaneous	44 05		
	<hr/>	1,659 30	
School Nurses' Salaries.			
Salaries and Wages:—			
Nurses	\$1,403 42		
	<hr/>	1,403 42	
Sewers Construction.			
Salaries and Wages:—			
Inspector	\$378 46		
Labor	2,700 32		
Other Expenses:—			
Hired teams	773 72		
Pipe and fittings	1,761 14		
Sand, stone, brick and cement	1,290 96		
Castings	697 62		
Sewer contracts	4,563 24		
Storm drain contracts	2,475 96		
Miscellaneous	77 66		
	<hr/>		\$14,719 08
Engineering Department, Sewers Maintenance.			
Salaries and Wages:—			
Inspectors	\$294 95		
Labor	10,262 18		
Other Expenses:—			
Hired teams	7,097 23		
Tools and equipment	414 42		
Pipe and fittings	5 52		
Castings	75		
Other materials and supplies	33 05		
Care Medford Street pump	489 88		
Telephone	63 22		
Miscellaneous	1 28		
	<hr/>	18,662 48	
Public Buildings Department, Maintenance Sewer Buildings.			
Salaries and Wages:—			
Labor	\$83 37		
Other Expenses:—			
Fuel	39 61		
Light	17 75		
Repairs to buildings	2 25		
Lumber and materials	24 41		
Miscellaneous	35		
	<hr/>	167 74	
Sanitary Department.			
General Administration:—			
Superintendent	\$1,700 00		
Bookkeeper	246 24		
	<hr/>		
Carried forward	\$1,946 24	\$440,025 47	\$31,779 03

Brought forward	\$1,946 24	\$440,025 47	\$31,779 03
Books, printing and supplies	47 09		
Auto and maintenance	902 98		
Telephone	47 75		
Miscellaneous	1 25		
Ashes, Rubbish and Garbage:—			
Labor	68,207 97		
Hired teams	23,862 13		
Equipment and repairs	1,854 99		
Rent of dump	600 00		
Materials and supplies	90 17		
Stable Expenses:—			
Horses	596 96		
Hay, grain and straw	7,663 55		
Shoeing	344 08		
Medicine and veterinary	88 80		
Equipment	597 95		
Miscellaneous	6 00		

 106,857 91

**Public Buildings Department, Maintenance
Sanitary Buildings.**

Labor	\$32 50		
Fuel	98 54		
Light	228 68		
Lumber and materials	142 26		
Repairs:—			
Buildings	1,243 25		
Heating apparatus	6 10		
Miscellaneous	27		

 1,751 60

Street Cleaning.

Labor	\$20,428 00		
Hired teams	5,182 09		
Equipment	178 72		

 25,788 81

HIGHWAYS.

Highway Maintenance.

General Administration:—

Superintendent	\$2,500 00		
Bookkeeper and clerk	1,927 86		
Books, printing, postage and supplies	197 03		
Telephone	213 04		
Auto maintenance	404 87		
Miscellaneous	9 45		

General:—

Labor	31,224 53		
Hired teams	374 25		
Tools, equipment and repairs	2,928 64		
Edgestone, paving blocks, brick, cement	367 39		
Broken stone, gravel, etc.	40 22		
Tarvia and road oil	2,298 17		
Lumber	250 77		
Hardware, paint and varnish	327 35		

 Carried forward \$43,063 57 \$574,423 79 \$31,779 03

Brought forward	\$43,063 57	\$574,423 79	\$31,779 03
Fuel	1,590 28		
Oil and waste	377 58		
Other materials and supplies	361 21		
Horses	100 00		
Hay, grain and straw	6,871 66		
Shoeing	334 55		
Veterinary and medicine	183 22		
Harnesses and horse clothing	408 01		
Miscellaneous	183 57		
Other Expenses:—			
Signs	122 14		
Repairing pavement, Bow Street	977 97		
Taxes 1917, City of Waltham	196 71		
Miscellaneous	27 51		
	<hr/>		
	54,797 98		
Less service transfers for teams and equipment furnished other departments	17,799 66		
	<hr/>	36,998 32	
Highways Construction, New Streets.			
Labor	\$753 06		
Hired teams	226 88		
Contracts	15,669 81		
Use of roller	89 75		
Tarvia	1,991 18		
Stone, gravel and cement	743 52		
Edgestone and circles	5,686 98		
Land damages	1,400 00		
Recording documents	40 50		
Advertising	89 50		
Miscellaneous	24 97		
	<hr/>		26,716 15
Highways Construction, Permanent Pavement.			
Labor	\$2,496 44		
Hired teams	256 31		
Contracts	50,507 78		
Tools and equipment	120 00		
Brick, stone, gravel and cement	1,875 75		
Edgestone and paving blocks	2,469 40		
Miscellaneous	685 48		
	<hr/>		58,411 16
Highways Construction, Macadam Pavement.			
Labor	\$17,564 65		
Hired teams	5,565 17		
Contracts	4,831 25		
Use of roller	112 00		
Tools and equipment	3,487 76		
Stone and gravel	23,609 52		
Brick and cement	110 98		
	<hr/>		
Carried forward	\$55,281 33	\$611,422 11	\$116,906 34

Brought forward	\$55,281 33	\$611,422 11	\$116,906 34
Edgestone	1,121 44		
Tarvia	13,395 93		
Other materials and supplies	137 24		
	<hr/>		69,935 94

Sidewalks Construction.

Labor	\$3,387 06		
Hired teams	497 75		
Contracts	18,141 59		
Equipment	74 00		
Stone, brick and cement	329 44		
Edgestone and curbs	3,465 72		
Other materials	20 86		
Miscellaneous	16 20		
	<hr/>		25,932 62

Sidewalks Maintenance.

Labor	\$4,198 90		
Hired teams	762 40		
Tools and equipment	71 00		
Stone, brick and cement	864 75		
Other materials and supplies	8 46		
	<hr/>	5,905 51	

Street Sprinkling.

Labor	\$3,599 97		
Hired teams	2,496 83		
Equipment and repairs	630 87		
Oil and other dust layers	22,580 21		
Hardware, paint and materials	1,434 96		
Use of car sprinkler	4,704 64		
Maintenance water posts and hydrants	381 01		
Miscellaneous	108 92		
	<hr/>	35,937 41	

Street Lighting.

Electric lighting in accordance with contract	\$62,000 00		
	<hr/>	62,000 00	

Public Buildings Department, Maintenance Highway Buildings.

Labor	\$353 75		
Fuel	312 00		
Light	217 30		
Lumber	133 22		
Hardware and materials	26 32		
Repairs:—			
Buildings	25 45		
Heating apparatus	3 04		
Miscellaneous	39 71		
	<hr/>	1,110 79	

CHARITIES.**Poor Department.**

Advance for immediate aid	\$1,200 00		
	<hr/>	1,200 00	
Carried forward		\$717,575 82	\$212,774 90

Brought forward		\$717,575 82	\$212,774 90
Poor Department, Miscellaneous.			
General Administration:—			
Agent	\$1,800 00		
Clerks	1,607 52		
Books, printing, postage and supplies	150 55		
Telephone	112 12		
Miscellaneous	92 15		
Outside Relief:—			
City Physician	1,700 00		
Acting City Physician	70 00		
Auto maintenance	100 00		
Board and care	2,793 96		
Cash	25,257 69		
Cash allowances	293 58		
Coal and wood	1,156 69		
Groceries and provisions	9,171 41		
Medicine and medical at- tendance	103 04		
Nursing	104 00		
State institutions	703 15		
Somerville Hospital	1,350 00		
Contagious Hospital	310 73		
Other institutions	298 57		
Burials	137 00		
Miscellaneous	54 00		
Relief by Other Cities and Towns:—			
Cities	2,272 70		
Towns	649 59		
Mothers' Aid:—			
Other Cities and Towns	3,329 28		
		<hr/>	53,617 93
Poor Department, City Home.			
Salaries and Wages:—			
Warden and matron	\$1,650 00		
Bookkeeper	100 00		
Domestic labor	1,894 55		
Farm labor	2,088 80		
Other Expenses:—			
Groceries and provisions	4,595 37		
Ice	85 38		
Dry goods and clothing	256 12		
Medicine and hospital goods	86 18		
House furnishings and sup- plies	175 06		
Farm equipment and sup- plies	394 36		
Live stock and care	251 34		
Hay, grain, straw and feed	823 65		
Garbage	468 85		
Seeds and fertilizer	39 24		
Horse shoeing	77 50		
Harness and horse clothing	12 00		
Power	67 38		
Telephone	60 31		
Carried forward	<hr/>	\$13,126 09	<hr/>
			\$771,193 75
			\$212,774 90

Brought forward	\$13,126 09	\$771,193 75	\$212,774 90
Books, stationery and post- age	20 93		
Miscellaneous	189 12		
	<hr/>	13,336 14	

**Public Buildings Department, Maintenance
City Home Buildings.**

Labor	\$252 25		
Fuel	980 66		
Light	244 53		
Furniture and furnishings	113 95		
Lumber	206 67		
Hardware and materials	90 84		
Repairs:—			
Buildings	107 08		
Heating apparatus	92 89		
Miscellaneous	87 63		
	<hr/>	2,176 50	

Somerville Hospital.

Aid to sick poor	\$7,500 00		
	<hr/>	7,500 00	

SOLDIERS' BENEFITS.

Soldiers' Benefits, General Administration.

Salaries and Wages:—

Agent	\$300 00		
Clerk	700 00		

Other Expenses:—

Telephone	13 92		
Miscellaneous	69 00		
	<hr/>	1,082 92	

Soldiers' Relief.

Cash as per pay rolls	\$21,796 80		
Medicine and medical at- tendance	35 40		
	<hr/>	21,832 20	

Military Aid.

Cash as per pay rolls	\$330 00		
	<hr/>	330 00	

State Aid.

Cash as per pay rolls	\$13,224 14		
	<hr/>	13,224 14	

State Aid—German War.

Cash as per pay rolls	\$16,616 52		
	<hr/>	16,616 52	

Soldiers' Burials.

Burials	\$500 00		
	<hr/>	500 00	

EDUCATION.

School Contingent.

Salaries and Wages:—

Superintendent	\$3,734 69		
Clerks	3,587 77		
Truant Officer	1,450 47		
Other employees	456 73		

Carried forward	\$9,229 66	\$847,792 17	\$212,774 90
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Brought forward	\$9,229 66	\$847,792 17	\$212,774 90
General Expenses:—			
Printing, postage and office supplies	564 25		
Telephone	807 83		
Traveling expenses	530 32		
School census	550 00		
Adding machine	122 50		
Typewriter	81 25		
Miscellaneous	362 17		
Textbooks and Supplies:—			
Text and reference books	9,671 72		
Maps	63 83		
Stationery and supplies	11,744 63		
Equipment and repairs	4,932 43		
Miscellaneous	24 00		
Other Expenses:—			
Tuition	490 79		
Support of truants	600 83		
Diplomas and graduation	369 71		
Miscellaneous printing	880 88		
Power	696 27		
Auto maintenance	579 05		
Miscellaneous	352 74		
		42,654 86	
School Teachers' Salaries.			
Day schools	\$372,191 10		
Evening schools	8,199 50		
		380,390 60	
Maintenance School Buildings, Janitors' Salaries.			
Janitors' Salaries	\$36,304 74		
		36,304 74	
Maintenance School Buildings, Fuel and Light.			
Fuel	\$31,625 02		
Light	6,461 48		
		38,086 50	
Maintenance School Buildings, Buildings and Grounds.			
Labor	\$7,590 30		
Furniture and furnishings	2,421 10		
Janitors' supplies	1,805 50		
Lumber	1,175 08		
Glass, hardware and paint	2,624 04		
Other materials and supplies	1,091 67		
Repairs:—			
Buildings	7,276 99		
Heating apparatus	1,084 06		
Care of grounds	2,892 57		
Flags and flag poles	605 43		
Power	410 09		
Telephone for Exemption Board	11 03		
Carried forward	\$28,987 86	\$1,345,228 87	\$212,774 90

Brought forward	\$28,987 86	\$1,345,228 87	\$212,774 90
Storm drain, Hanscom School	298 76		
Auto maintenance	25 00		
Insurance	1,585 48		
Miscellaneous	427 84		
	<hr/>	31,324 94	
S. Newton Cutler School.			
Payment on contract	\$250 00		
Settlement of claim	4,705 43		
Lumber	3 00		
	<hr/>		4,958 43
New School Building, East Somerville.			
Taking of land	\$5,640 10		
	<hr/>		5,640 10
New School Building, Holland Street.			
Labor	\$1,114 74		
Architect	1,575 30		
Contract for construction	27,168 60		
Furniture and furnishings	4,899 61		
Heating and ventilating	8,744 00		
Plumbing and drain	8,004 72		
Electrical work	1,491 11		
Hardware and materials	1,192 35		
Grading grounds	107 10		
Flag pole	135 00		
Miscellaneous	123 77		
	<hr/>		54,556 30
Boys' Industrial School Addition.			
Labor	\$89 95		
Contract for construction	6,400 00		
Heating and ventilating	936 88		
Plumbing and drain	830 58		
Water service	138 70		
Electrical work	8 24		
Hardware and materials	85 46		
Machinery and equipment	407 00		
Miscellaneous	3 85		
	<hr/>		8,900 66
Southern Junior High School.			
Architect	\$2,456 49		
Contract for construction	5,100 00		
Advertising	8 75		
Miscellaneous	14 00		
	<hr/>		7,579 24
Schoolhouses Sprinkler Systems.			
Installation sprinkler system	\$88 35		
	<hr/>		88 35
Baxter School, Additional Land.			
Taking of land	\$4,000 00		
	<hr/>		4,000 00
Building Public Buildings.			
Settlement of claims	\$266 66		
	<hr/>		266 66
Carried forward		\$1,376,553 81	\$298,764 64

Brought forward \$1,376,553 81 \$298,764 64

SCHOOL TRUST FUNDS.

S. Newton Cutler Fund.

Books	\$128 39	
		128 39

LIBRARIES.

Central Library.

Salaries and Wages:—

Librarian	\$2,372 35	
Assistants	12,943 52	

Books, Periodicals, Etc.:—

Books	5,017 82	
Periodicals	733 75	
Music	153 28	
Binding	1,448 71	

Other Expenses:—

Postage and office supplies	772 84	
Printing and advertising .	486 98	
Catalogue cards	100 00	
Telephone	134 14	
Express	123 09	
Agencies	33 68	
Typewriters	145 75	
Miscellaneous	74 02	

24,539 93

Public Buildings Department, Maintenance

Central Library.

Janitors	\$1,672 00	
Labor	31 45	
Fuel	772 54	
Light	1,246 54	
Furniture and furnishings .	56 20	
Janitors' supplies	150 62	
Hardware and materials . .	27 54	
Repairs:—		
Building	84 09	
Heating apparatus	36 87	
Flag and staff	60 00	
Miscellaneous	38 72	

4,176 57

West Somerville Branch Library.

Salaries and Wages:—

Assistants	\$4,347 95	
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Books, Periodicals, Etc.:—

Books	1,448 11	
Periodicals	340 60	
Music	10 40	
Binding	483 31	

Other Expenses:—

Postage and office supplies	53 94	
Printing and advertising .	11 50	
Telephone	45 57	
Express	101 03	
Miscellaneous	8 14	

6,850 55

Carried forward	\$1,412,249 25	\$298,764 64
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Brought forward	\$756 80	\$1,421,294 24	\$298,764 64
Fuel	222 48		
Light	178 90		
Furniture and furnishings	45 20		
Janitors' supplies	14 42		
Repairs:—			
Building	2,997 17		
Hardware and materials	16 17		
Miscellaneous	1 50		
	<hr/>	4,232 64	

New East Somerville Branch Library.

Architect	\$850 00		
Payment on contract	12,400 00		
Electrical work	40 43		
Grading grounds	281 25		
	<hr/>		13,571 68

PUBLIC LIBRARY TRUST FUNDS.

S. Newton Cutler Fund.

Books	\$129 07		
	<hr/>	129 07	

Martha R. Hunt, Art Fund.

Architect's services, Foss Memorial	\$15 00		
	<hr/>	15 00	

Martha R. Hunt, Book Fund.

Books	\$1,003 83		
	<hr/>	1,003 83	

Isaac Pitman, Art Fund.

Books	\$54 91		
Pictures and music	163 18		
	<hr/>	218 09	

Isaac Pitman, Poetry Fund.

Books	\$41 74		
	<hr/>	41 74	

Frances A. Wilder Children's Fund.

Books	\$14 95		
	<hr/>	14 95	

RECREATION.

Engineering Department, Parks Maintenance.

Labor	\$5,790 74		
Teams	890 76		
Equipment and supplies	356 70		
Trees, shrubs, plants, etc.	94 85		
Loam and fertilizer	2 50		
Carpentry	1,426 24		
Flags and flag poles	112 55		
Constructing roadway and walk, Central Hill Park	1,744 72		
Miscellaneous	66 02		
	<hr/>	10,485 08	

Carried forward		\$1,437,434 64	\$312,336 32
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Brought forward \$1,437,434 64 \$312,336 32
Public Buildings Department, Maintenance
Park Buildings.

Labor \$362 41
 Teams 44 00
 Fuel 112 90
 Light 239 70
 Hardware and materials 29 92
 Repairs:—
 Buildings 58 78
 Heating apparatus 11 98
 Laundry 55 86
 Miscellaneous 18 88

934 43

Park Building, Lincoln Park Addition.

Installation shower baths \$135 00
 Shower-bath curtains 9 15
 Hardware 3 90

148 05

Engineering Department, Playgrounds Main-
tenance.

Labor \$3,401 18
 Teams 452 86
 Tools and equipment 6 45
 Materials and supplies 68 28
 Repairs 17 30
 Miscellaneous 10 25

3,956 32

School Department, Summer Playgrounds.

Instructors \$1,066 50
 Labor 90 00
 Teams 7 00
 Apparatus and equipment 34 76
 Sand and lime 1 00
 School garden expenses 1,266 67
 Miscellaneous 41 57

2,507 50

Field House, Somerville Field.

Blueprints \$1 02

1 02

Public Buildings Department, Maintenance
Bathhouse.

Salaries and Wages:—
 Attendants \$1,230 12
 Labor 395 70
 Other Expenses:—
 Bathing suits 161 04
 Towels 32 19
 Equipment and supplies 233 02
 Repairs 5 54
 Laundry 100 88
 Telephone 4 88
 Welsbach light 76 87
 Re-construction beach 1,175 97

Carried forward \$3,416 21 \$1,444,832 89 \$312,485 39

Brought forward \$1,473,541 42 \$315,468 65

MUNICIPAL INDEBTEDNESS.

Interest.

Temporary Loans:—

Anticipation of Revenue \$37,784 88

General:—

Sewer 12,291 81

Highway 13,444 05

Municipal 2,565 00

City 26,606 25

Bridge 1,137 50

Metropolitan Park 455 00

Public Buildings 9,980 00

104,264 49

Reduction of Funded Debt.

General Loans:—

Sewer \$22,000 00

Highway 56,000 00

Municipal 10,000 00

City 118,500 00

Bridge 1,000 00

Metropolitan Park 1,000 00

Public Building 19,000 00

227,500 00

WATER WORKS.

Water Maintenance.

Administration:—

Commissioner \$2,500 00

Clerks 4,725 22

Books, printing, postage and

supplies 1,602 66

Telephone 293 17

Carfares 68 88

Miscellaneous 115 32

General:—

Labor 28,622 31

Teams 57 62

Pipe and fittings 1,545 72

Meters and fittings 4,116 89

Hydrants and fittings 538 84

Castings 1,274 11

Tools, equipment and repairs 2,325 00

Automobiles and mainten-

ance 4,176 80

Horses, feed and shoeing 499 88

Gasoline 1,185 39

Kerosene 268 50

Other materials and supplies 1,012 97

Freight and express 316 30

Power 28 38

Miscellaneous 41 99

Other Expenses:—

Contract work 918 70

Ice for fountains 178 00

\$56,412 65

Carried forward \$56,412 65 \$1,805,305 91 \$315,468 65

Brought forward	\$56,412 65	\$1,805,305 91	\$315,468 65
Less service transfers for teams furnished other de- partments	477 21		
	<hr/>	55,935 44	
Water Works Extension.			
Labor	\$5,007 11		
Teams	411 23		
Pipe and fittings	11,509 46		
Hydrants and fittings	2,208 31		
Meters and fittings	1,652 18		
Tools and equipment	118 40		
Freight and express	143 14		
Contracts, trench work	1,476 47		
	<hr/>	22,526 30	
Public Buildings Department, Maintenance Water Buildings.			
Labor	\$246 03		
Fuel	655 06		
Light	224 12		
Repairs:—			
Buildings	7 52		
Heating apparatus	240 24		
Hardware and materials	101 87		
Miscellaneous	22 15		
	<hr/>	1,496 99	
Interest.			
Water Loans	\$640 00		
	<hr/>	640 00	
Reduction of Water Debt. .			
Water Bonds	\$5,000 00		
	<hr/>	5,000 00	
Metropolitan Water Assessment.			
Assessment	\$118,425 67		
	<hr/>	118,425 67	
OTHER ACCOUNTS.			
Temporary Loans.			
Loans in anticipation of revenue	\$1,390,000 00		
	<hr/>	1,390,000 00	
Grade Crossing Advances.			
Printing	\$14 80		
	<hr/>	14 80	
Court Judgments.			
Personal tax, 1915	\$199 00		
	<hr/>	199 00	
State Taxes.			
State Tax	\$175,560 00		
State Highway Tax	1,364 11		
Non-resident Bank Tax	2,649 42		
	<hr/>	179,573 53	
Metropolitan and Other Assessments.			
Metropolitan Park Assessment	\$43,120 19		
Metropolitan Sewer Assess- ment	74,814 24		
	<hr/>		
Carried forward	\$117,934 43	\$3,579,117 64	\$315,468 65

Brought forward	\$117,934 43	\$3,579,117 64	\$315,468 65
Wellington Bridge Assessment	3,162 28		
Grade Crossing Assessment	12,774 40		
Charles River Basin Assessment	7,335 15		
Alewife Brook Assessment	1,226 58		
Abatement of Smoke Assessment	276 01		
Fire Prevention Assessment	1,039 56		
Soldiers' Exemption Assessment	171 49		
	<hr/>	143,919 90	
County of Middlesex.			
County Tax, 1917	\$80,291 55		
	<hr/>	80,291 55	
Commonwealth of Massachusetts.			
Grade Crossing Adjustments	\$39 36		
	<hr/>	39 36	
Cash Refunds.			
Taxes	\$210 19		
Moth Assessments	6 75		
Street Sprinkling Assessments	3 80		
National Bank Tax Refunded	68 24		
Water Rates	126 32		
	<hr/>	\$415 30	
Tellers' Overs and Shorts.			
Adjustments	\$62 21		
	<hr/>	62 21	
PRIVATE TRUST.			
Redemption of Tax Titles.			
Tax titles redeemed	\$3,615 80		
	<hr/>	3,615 80	
Totals		\$3,807,461 76	\$315,468 65
*Appropriation Refunds		1,368 27	208 19
		<hr/>	<hr/>
		\$3,808,830 03	\$315,676 84
Total Cash Payments			\$4,124,506 87

* Expenditures as shown in all accounts are net.

SCHEDULE OF PUBLIC PROPERTY.

School Buildings	Land and Buildings	Personal	Totals
Prescott	\$72,200 00	\$3,000 00	\$75,200 00
East Somerville Junior High	66,000 00	2,000 00	68,000 00
Hanscom	66,500 00	4,000 00	70,500 00
Davis	37,000 00	6,000 00	43,000 00
Clark Bennett	54,500 00	3,500 00	58,000 00
Knapp	50,000 00	5,500 00	55,500 00
Baxter	36,800 00	1,500 00	38,300 00
Perry	42,000 00	1,500 00	43,500 00
Bell	47,000 00	5,000 00	59,600 00
Southern Junior High	7,600 00	.....	.....
Prospect Hill	18,000 00	.....	18,000 00
Pope	78,600 00	5,000 00	83,600 00
Cummings	13,400 00	1,200 00	14,600 00
Edgerly	43,000 00	5,000 00	48,000 00
*High	360,000 00	30,000 00	390,000 00
Glines	88,400 00	5,000 00	93,400 00
Forster	59,000 00	8,000 00	102,000 00
Forster (Annex)	35,000 00	.....	.....
†Proctor	44,000 00	.....	44,000 00
Bingham	73,000 00	5,000 00	78,000 00
Morse	54,000 00	5,000 00	59,000 00
Carr	53,600 00	5,000 00	62,600 00
Girls' Industrial School	4,000 00	.....	.....
Durell	20,400 00	1,500 00	21,900 00
Burns	39,000 00	3,000 00	42,000 00
Brown	72,000 00	2,600 00	74,600 00
Highland	66,600 00	5,000 00	71,600 00
Lowe	46,000 00	2,000 00	48,000 00
Hodgkins	98,700 00	5,000 00	103,700 00
‡West Somerville Junior High	80,000 00	.....	80,000 00
Lincoln	19,800 00	1,000 00	20,800 00
Cutler	98,700 00	9,000 00	107,700 00
Total	\$1,944,800 00	\$130,300 00	\$2,075,100 00

*Land included in Central Hill Park.

†Building and fixtures. Land owned by State.

‡Land included in Holland Street Ledge.

Fire Buildings.

New fire alarm building	\$275,000 00	*\$103,000 00	\$178,200 00
Central	47,700 00	.....	.....
Engine Two	37,000 00	12,000 00	49,000 00
Engine Six	29,000 00	20,000 00	49,000 00
Hose Five	21,500 00	7,500 00	29,000 00
Ladder One	60,000 00	15,500 00	75,500 00
Hose Eight	10,400 00	7,700 00	18,100 00
Ladder Two	17,600 00	15,000 00	32,600 00
Engine Four	19,500 00	7,000 00	26,500 00
Total	\$270,200 00	\$187,700 00	\$457,900 00

*Includes Electrical Department equipment.

Libraries.

†Central	\$125,000 00	\$100,000 00	\$225,000 00
East Somerville Branch	25,400 00	.....	25,400 00
West Somerville Branch	30,000 00	6,000 00	36,000 00
Total	\$180,400 00	\$106,000 00	\$286,400 00

Miscellaneous Buildings.

Highway (stables, etc.)	\$55,000 00	\$30,000 00	\$85,000 00
Sewer	6,700 00	2,000 00	8,700 00
Contagious and Tuberculosis Hospital	45,900 00	9,000 00	54,900 00
City Home	92,900 00	17,000 00	109,900 00
Police	64,000 00	8,000 00	72,000 00
†City Hall	52,000 00	149,000 00	201,000 00
†City Hall Annex	62,000 00	12,500 00	74,500 00
Parks:—			
Broadway	3,100 00	.....	3,100 00
Lincoln	2,800 00	1,000 00	3,800 00
Bathhouse	5,800 00	.....	5,800 00
Polling booths	1,800 00	.....	1,800 00
Sanitary	21,000 00	19,200 00	40,200 00
Water	46,700 00	6,500 00	53,200 00
Total	\$459,700 00	\$254,200 00	\$713,900 00

†Land included in Central Hill Park.

Parks and Playgrounds.

Broadway	\$ 421,200 00	.....	\$421,200 00
Central Hill	472,000 00	.....	472,000 00
Lincoln	84,500 00	2,000 00	86,500 00
Prospect Hill	76,800 00	1,500 00	78,300 00
Tufts	109,000 00	.....	109,000 00
Paul Revere	1,000 00	.....	1,000 00
Belmont Street	5,100 00	.....	5,100 00
City Field	70,900 00	.....	70,900 00
Glen Street	17,300 00	.....	17,300 00
Kent Street	12,000 00	.....	12,000 00
Poplar Street	5,500 00	.....	5,500 00
Beacon Street	3,000 00	.....	3,000 00
Webster Avenue	3,000 00	.....	3,000 00
Mason Street	4,200 00	.....	4,200 00
Somerville Field	40,000 00	19,000 00	59,000 00
Total	\$1,325,500 00	\$22,500 00	\$1,348,000 00

Miscellaneous Land.

Ledge, Holland Street	\$55,000 00	.....	\$55,000 00
Somerville Avenue	300 00	.....	300 00
Putnam Street	400 00	.....	400 00
Murdock Street	600 00	.....	600 00
Lowell Street	100 00	.....	100 00
Spencer Avenue	100 00	.....	100 00
Weston Avenue	2,500 00	.....	2,500 00
Endicott Avenue	600 00	.....	600 00
Powder House Boulevard	400 00	.....	400 00
	<hr/>		<hr/>
Total	\$60,000 00		\$60,000 00

SUMMARY.

	Land and Buildings	Personal	Total
School Buildings	\$1,944,800 00	\$130,300 00	\$2,075,100 00
Fire Buildings	270,200 00	187,700 00	457,900 00
Libraries	180,400 00	106,000 00	286,400 00
Miscellaneous Buildings	459,700 00	254,200 00	713,900 00
Parks and Playgrounds	1,325,500 00	22,500 00	1,348,000 00
Miscellaneous Land	60,000 00	.....	60,000 00
	<hr/>	<hr/>	<hr/>
Total	\$4,240,600 00	\$700,700 00	\$4,941,300 00
Sewers (cost)			1,343,434 16
Water Works (cost)			1,061,188 59
			<hr/>
Total value public property			\$7,345,922 75

**REPORT OF THE CITY TREASURER AND COLLECTOR
OF TAXES.**

Somerville, Mass., January 31, 1918.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville.

Gentlemen: I have the honor to present herewith the
annual report of the Treasury department, showing the condi-
tion of the treasury, and cash receipts and disbursements for
the year 1917, together with statements and information rela-
tive to the financial operations of the city.

Respectfully submitted,

JOSEPH S. PIKE,

City Treasurer and Collector of Taxes.

CONDENSED CASH STATEMENT.

RECEIPTS.		PAYMENTS.	
Revenue	\$3,880,021 46		\$3,815,450 70
Non-Revenue	281,190 75		309,056 17
	<hr/>		<hr/>
	\$4,161,212 21		\$4,124,506 87
Cash balance, Jan- uary 1, 1917	200,540 89	Cash balance, De- cember 31, 1917	237,246 23
	<hr/>		<hr/>
	\$4,361,753 10		\$4,361,753 10
	<hr/> <hr/>		<hr/> <hr/>

DETAILED CASH STATEMENT.

RECEIPTS.		
Balance from 1916		\$200,540 89
Revenue.		
Taxes, 1915	\$1,494 51	
1916	334,932 01	
1917	1,421,898 88	
	<hr/>	\$1,758,325 40
Street Sprinkling, 1915	\$1 75	
1916	8,577 00	
1917	27,938 80	
	<hr/>	36,517 55
Suppression of Moths, 1916	445 25	
1917	942 25	
	<hr/>	1,387 50
Assessments:—		
Highway, 1915	\$3,897 39	
1916	4,291 15	
1917	2,971 23	
	<hr/>	11,159 77
Sidewalk, 1915	\$2,309 02	
1916	5,881 06	
1917	4,610 83	
	<hr/>	12,800 91
Sewer, 1916		839 32
Metered Water Charges, 1916		25,439 39
Sale of land		4,500 00
Commonwealth of Massachusetts (ad- vances) Soldiers' Benefits, 1916		16,938 36
Commonwealth of Massachusetts:—		
Corporation Taxes	\$56,762 76	
National Bank	4,075 80	
	<hr/>	60,838 56
Income tax		77,055 53
Vocational schools		7,615 15
In lieu of taxes		66 68
Grade Crossings		5,120 24
County of Middlesex, dog licenses		2,575 26
Courts: Police	\$2,693 73	
County	33 50	
	<hr/>	2,727 23
Carried forward		\$2,023,906 85
		<hr/>
		\$200,540 89

TREASURER AND COLLECTOR OF TAXES.

77

Brought forward	\$2,023,906 85	\$200,540 89
Departmental Penalties	183 50	
Licenses (from Departments)	5,244 00	
Edison Electric Illuminating Co., elec- trolysis	500 00	
Water: Sales, 1917	\$233,682 99	
Maintenance	3,542 59	
Services	3,494 53	
	<hr/>	240,720 11
Interest: On Taxes	\$11,337 34	
Assessments	625 63	
Bank accounts:		
Treasurer	14,212 60	
City Clerk	6 36	
Commth. of Mass.	10 79	
	<hr/>	26,192 72
Treasury Department, costs and fees	7,143 61	
Departmental deposits	21,065 28	
Departmental accounts	50,003 95	
Temporary Loans	1,500,000 00	
Premium on Bonds:—		
Issue of April 1	\$190 40	
Issue of July 1	880 00	
	<hr/>	1,070 40
Accrued interest on bonds:—		
Issue of April 1	\$392 89	
Issue of July 1	1,310 94	
	<hr/>	1,703 83
Trust Funds, Income:—		
School, S. Newton Cutler	\$212 88	
Library, S. Newton Cutler	42 56	
Martha R. Hunt, Art	85 00	
Martha R. Hunt, Books	494 51	
Isaac Pitman, Art	170 04	
Isaac Pitman, Poetry	42 52	
Wilder, Children's Department	4 00	
	<hr/>	1,051 51
Miscellaneous	194 14	
Tellers' shorts and overs	66 18	
General expenses, refunds	975 38	
	<hr/>	\$3,880,021 46
Non-Revenue.		
Bonds, Issue of April 1	\$136,000 00	
Issue of July 1	125,000 00	
	<hr/>	\$261,000 00
Redemption of Tax Liens	3,615 80	
Outlay appropriation, offsets	\$574 95	
Carnegie Corporation	16,000 00	
	<hr/>	16,574 95
	<hr/>	281,190 75
		<hr/>
		<u>\$4,361,753 10</u>

		PAYMENTS.	
Revenue.			
Taxes, 1916 refunds	\$34 24		
1917 refunds	175 95		
			\$210 19
Street Sprinkling, 1916 refunds	\$2 50		
Street Sprinkling, 1917 refunds	1 30		
			3 80
Moth Assessments, 1916 refunds	\$3 00		
Moth Assessments, 1917 refunds	3 75		
			6 75
Grade Crossings Advances			14 80
Water Charges:—			
Previous year refunds	\$12 39		
Current year refunds	113 93		
			126 32
Advances, Charles C. Folsom, agent			1,200 00
Commonwealth of Massachusetts:—			
State Tax	\$175,560 00		
Assessments	145,112 52		
Bank tax (non-resident)	2,649 42		
Soldiers' exemptions	171 49		
Metropolitan water as- sessments	118,425 67		
			441,919 10
Grade Crossings decrees			39 36
National bank tax, refund			68 24
County of Middlesex, county tax			80,291 55
General Expenses			1,561,960 93
Interest: Temporary loans	\$37,784 88		
Funded debt	67,512 50		
			105,297 38
Reduction of funded debt			232,500 00
Trust Funds:—			
School, S. Newton Cutler	\$128 39		
Library:—			
Martha R. Hunt, art	15 00		
Martha R. Hunt, books	1,003 83		
Isaac Pitman, art	218 09		
Isaac Pitman, poetry	41 74		
S. Newton Cutler	129 07		
Wilder, children's de- partment	14 95		
			1,551 07
Temporary loans			1,390,000 00
Court judgments			199 00
Tellers' shorts and overs			62 21
			3,815,450 70
Non-Revenue.			
Outlay appropriations		\$305,440 37	
Carried forward		\$305,440 37	\$3,815,450 70

Brought forward	\$305,440 37	\$3,815,450 70
Redemption of tax liens	3,615 80	
	<hr/>	309,056 17
		<hr/>
		\$4,124,506 87
Cash in office	\$10,783 07	
Deposits in banks	226,463 16	
	<hr/>	237,246 23
		<hr/>
		\$4,361,753 10
		<hr/> <hr/>

Revenue Cash.

General Expenses	\$115,871 96	
Trust Funds (public)	967 21	
Premium on bonds	1,070 40	
Accrued interest on bonds	1,310 94	
Sundry persons	127 11	
	<hr/>	\$119,347 62

Non-Revenue.

Outlay appropriations	\$117,898 61	
	<hr/>	\$237,246 23

The assessors' warrant for the tax levy, assessed upon polls and property, April 1, 1917, including non-resident bank shares, amounted to \$1,827,930 75
and the tax rate established was \$22.00 on each \$1,000 of the valuation, as follows:—

Real estate	\$71,165,900 00	
Personal estate	7,689,000 00	
Resident bank shares	66,572 00	
	<hr/>	

Total valuation	\$78,921,472 00	
At a rate of \$22.00		\$1,736,272 38
Polls, 25,517 at \$2.00		51,034 00
Non-resident bank shares to be paid to state (valuation \$120,428.00)		2,649 42
		<hr/>

		\$1,789,955 80
Street sprinkling		36,714 45
Suppression moths		1,260 50
		<hr/>

\$1,827,930 75

Additional assessments:—

Personal estate, valuation \$13,900 at \$22.00	\$305 80	
Polls, 47 at \$2.00	94 00	
	<hr/>	399 80

Total commitments by assessors \$1,828,330 55

BALANCES.

	Debit.	Credit.
Cash on hand and in banks	\$237,246 23	
Cash advances, C. C. Folsom, agent	2,700 00	
Taxes, 1915	8 68	
Taxes, 1916	2,911 32	
Taxes, 1917	359,205 97	
Street Sprinkling, 1916	7 05	
Street Sprinkling, 1917	8,771 15	
Moth assessments, 1917	316 75	
Overlay and abatement, 1915		\$3,118 57
Overlay and abatement, 1916		2,437 19
Overlay and abatement, 1917		13,046 45
Reserve supplementary assessments, 1916		1,113 34
Reserve supplementary assessments, 1917		399 80
Highway betterment assessments, 1916	954 65	
Highway betterment assessments, 1917	8,726 09	
Sidewalk assessments, 1916	1,587 77	
Sidewalk assessments, 1917	5,904 92	
Sewer assessments, 1916	1,414 07	
Sewer assessments, 1917	3,172 20	
Metered water charges	29,148 71	
Commonwealth of Massachusetts. (ad- vances, Soldiers' benefits)	30,080 66	
Grade Crossings (advances)	377 30	
Real estate liens	104 27	
Temporary loans		510,000 00
Funded debt		1,757,500 00
Net funded debt (balancing account)	1,757,500 00	
Outlay appropriations		117,898 61
Trust Funds, income:—		
School, S. Newton Cutler		400 83
Library, S. Newton Cutler		33 23
Martha R. Hunt, art		219 29
Martha R. Hunt, books		41 23
Isaac Pitman, art		55 48
Isaac Pitman, poetry		7 27
Wilder, children's fund		7 01
Martha R. Hunt (part of principal)		202 77
Premium on bonds		1,070 40
Accrued interest on bonds		1,310 94
Tellers' shorts and overs		3 97
Sundry persons		127 11
Excess and deficiency		37,419 75
Reserve fund (surplus from overlay)		3,224 45
Sale of land (Fire Station, Winter Hill)		500 00
Public school trust funds		5,000 00
Public library trust funds		20,414 58
Public school trust funds (investment)	5,000 00	
Public library trust funds (investment)	20,414 58	
	<u>\$2,475,552 37</u>	<u>\$2,475,552 37</u>

**REPORT OF THE SCHOOL COMMITTEE.
CITY OF SOMERVILLE.**

School Committee Rooms, December 28, 1917.

Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that it be incorporated in the reports of the City Officers; and that 1,000 copies be printed separately.

CHARLES S. CLARK,

Secretary of School Board.

SCHOOL COMMITTEE, 1917.

GEORGE E. WHITAKER Chairman
 HERBERT CHOLERTON Vice-Chairman

Members.

EX-OFFICIIS.

	Term expires January.
ZEBEDEE E. CLIFF, Mayor,	1918
WARREN C. DAGGETT, President Board of Aldermen,	1918

WARD ONE.

JAMES J. RUDD,	1918
DR. WINNIFRED P. DAVIS,	1919

WARD TWO.

DANIEL H. BRADLEY,	1918
CHRISTOPHER J. MULDOON,	1919

WARD THREE.

GEORGE E. WHITAKER,	1918
OSCAR W. CODDING,	1919

WARD FOUR.

HARRY A. STONE,	1918
FRANK H. HOLMES,	1919

WARD FIVE.

HARRY M. STOODLEY,	1918
MRS. JULIA R. ALDRICH,	1919

WARD SIX.

GUY E. HEALEY,	1918
GEORGE E. WARDROBE,	1919

WARD SEVEN.

FRANK E. PORTER,	1918
HERBERT CHOLERTON,	1919

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days, and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Superintendent's office force:—

Justin W. Lovett, 29 Cambria street.

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

H. Madeline Kodad, 1067 Broadway.

STANDING COMMITTEES, 1917.

Note.—The member first named is chairman; the one second named is vice-chairman.

District I.—Rudd, Dr. Davis, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Muldoon, Coddling.

KNAPP, PERRY, BAXTER.

District III.—Whitaker, Coddling, Dr. Davis.

POPE, BELL, CUMMINGS.

District IV.—Stone, Holmes, Mrs. Aldrich.

EDGERLY, GLINES.

District V.—Stoodley, Mrs. Aldrich, Stone.

FORSTER, BINGHAM.

District VI.—Healey, Wardrobe, Stoodley.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII.—Porter, Cholerton, Healey.

HIGHLAND, HODGKINS, CUTLER, LINCOLN, LOWE.

High School.—Bradley, Cholerton, Dr. Davis, Whitaker, Holmes, Stoodley, Healey.

Finance.—Stoodley, Stone, Rudd, Bradley, Coddling, Wardrobe, Porter, Cliff, Daggett.

Text-books and Courses of Study.—Healey, Muldoon, Rudd, Whitaker, Stone, Mrs. Aldrich, Cholerton.

Industrial Education.—Holmes, Rudd, Bradley, Coddling, Mrs. Aldrich, Healey, Porter.

School Accommodations.—Stone, Porter, Dr. Davis, Muldoon, Coddling, Stoodley, Wardrobe, Cliff, Daggett.

Teachers.—Cholerton, Bradley, Whitaker, Stone, Mrs. Aldrich.

Playgrounds and School Hygiene.—Mrs. Aldrich, Muldoon, Dr. Davis, Holmes, Wardrobe.

Rules and Regulations.—Muldoon, Healey, Holmes.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Somerville:—

I have the honor to submit to you a report of the condition of the schools for the year ending December 31, 1917. This report is in accordance with your rules and regulations and is intended to serve as a report of the School Committee as well as of the Superintendent of Schools.

In a general way the special work of the year has been to carry into effect certain policies which have been initiated within the last few years. Chief among these has been the continuance of the movement to provide relief for overcrowding in several parts of the city by opening a new junior high school, and by transferring thereto pupils from several grammar schools. The effect of these changes will be examined in this report somewhat in detail. Another large feature of the year's work was the adaptation of the curriculum of the schools and of the teaching corps made necessary by the withdrawal of an additional number from the high and elementary schools and the increasing thereby of the number of pupils and teachers enrolled in the junior high schools. Still another feature of the year has been the unusual activities in which pupils have engaged as the direct consequence of the entrance of this country into the European War. All of these undertakings have been carried on quietly and effectively. They constitute in the total a work considerable in amount and far-reaching in kind. It has been the year of transition, of progress from things that were towards things that are to come. While we cannot clearly see what the outcome of the world conditions is to be after the war, it is certain that the experiences through which the world is passing will have a profound effect upon the life and customs of the people of the countries engaged in war. Among the other institutions of the people which will be so affected must be numbered the schools of the people. Already pupils are being introduced into new fields of thinking and acting, and this process will continue while war lasts and will be followed by readjustments which will make a new order differing greatly from the old.

The chief change in the enrollment of pupils in 1917 as compared with that of 1916 has been in the growth of attendance in certain parts of the city with a decline in others. The total of the average membership in all schools in November was 12,989, as compared with 12,665 for the same time in 1916.

In the East Somerville and Winter Hill districts the schools are full. This is particularly true of the elementary schools where every class room is taxed to its fullest capacity. In the central part of the city the schools are generally full, although not overcrowded. Those in the western part of the city have been relieved by the opening of the new junior high school, but are still comfortably full. Every room except one in the Highland School is occupied and with few exceptions the classes are as large as they ought to be; many of them are too large. The Morse and Burns Schools, which in preceding years have been overcrowded, have been relieved by transfers of pupils made possible by the opening of the West Somerville Junior High School. The High School has now a membership of 1,450, contrasted with 1,800, the membership last year. From this account it will be seen that already the High School has been greatly relieved by the opening of the Junior High School, and that there has been a reduction in overcrowding all over the city. In East Somerville and Winter Hill, where at the present time the elementary schools are filled, there are at present no half time classes, nor is there one in any other part of the city. The general conditions are such, however, that there is only a small margin between actual present demand and accommodation provided. A slight increase in attendance in certain districts will make half time classes again necessary.

During the year two new school buildings were opened. The West Somerville Junior High School on Holland Street was completed and ready for occupancy on the opening of schools in September. This is a building constructed in accordance with plans providing for a large structure with class rooms on four sides and a hall and gymnasium in the center. The front and part of one side of this general plan have now been built supplying fifteen rooms available for class rooms and shops. The basement contains two rooms for practical arts for girls and two rooms for practical arts for boys. The class rooms on the first and second floors are devoted to academic subjects. By means of a folding door, two adjoining rooms can be converted into one and in this way provide an assembly room large enough to seat two hundred persons. The building, like the one at East Somerville, is light, well ventilated, and well adapted to the purpose for which it is intended.

The other new building is an addition to the Vocational School for Boys. This building is a one story wooden structure 90 feet long and 40 feet wide. It contains two rooms: one for a machine shop and the other for an automobile shop. This building, although not fully completed, has been used since September by a class in automobile repair work.

Another accomplishment of this year has been the purchase of land adjacent to the Baxter School to increase the playground of that school. This land is situated on the south-erly side of the school premises, and is 50 feet on Bolton Street and 110 feet deep, comprising 5,500 square feet. This addition is valuable both because it adds play space in a locality where very little space for play is available to children; and because the possession of this land by the city will prevent the erection there of any structure which would cut off light from the school building.

This year has witnessed another event of great importance to the development of the schools. The last junior high school necessary to complete the chain proposed by the School Committee in its recommendations last year was assured when the Board of Aldermen last September made an appropriation of \$90,000 for the construction of a junior high school building on Vinal avenue. Work has already been begun on a twelve-room building designed especially for junior high school activities, and to be used in connection with the Luther V. Bell school building. It is proposed to complete this building, ready for use by September 1918. The junior high school organized in this building will draw the upper grade classes from the Morse, Carr, Knapp, and Bell schools.

One year ago I said in my annual report that fifty additional class rooms could be put to advantageous use if they could be provided by the opening of the school year in 1917. Since then seventeen rooms have been furnished and twelve more are under way. Additions should be made during the next year in keeping with the general policy set forth in the last report and with the development of the present school year. As conditions now stand, there is need for relief in the East Somerville and Winter Hill districts. The West Somerville Junior High School is too small for its present enrollment. The new building at the Boys' Vocational School provides too little room for the automobile department. Inasmuch as the automobile repair work has started under very favorable conditions and it appears certain that this is to be one of the most popular and most useful courses in the school, it is desirable to have an addition made to this building in such a way as to give adequate room to accommodate eight or ten automobiles while they are under repair.

An addition should be made to the West Somerville Junior High School building to be ready for use next September. The building is now overcrowded. Every room is used regularly. Since the opening of the school it has been necessary to use corridors for class room purposes. Such a condition cramps the proper activities of a junior high school organization by restricting them to the most formal and academic of subjects.

The junior high school is in nature a laboratory wherein youths seek to discover their aptitudes and to choose the direction of their life work. Such an undertaking cannot be successfully carried on in a space restricted to the most meagre physical need. Room for movement, variety and expansion are necessary. With so good a beginning as has been made in West Somerville an addition of a new wing would relieve crowding and give the room needed for the successful conduct of the various functions of the school. In the Winter Hill and East Somerville districts present relief can be secured in one of two ways, i. e., by an addition to the East Somerville Junior High School building or by the erection of a building in connection with the Forster School group. An addition of six rooms to the East Somerville Junior High School building would make possible the transferring of classes from the Prescott School to the enlarged junior high school building. This would be in every way better for the junior high school. The five rooms in the Prescott School so vacated could be used for elementary schools, thereby giving relief to the Hanscom, Edgerly, and Glines schools. This change could be made without the purchase of additional land. The Winter Hill Junior High and elementary classes in the Forster School building are greatly crowded. Relief from this condition here can be made only by the purchase of additional land and the erection of a new building. Whether this building were planned for junior high school use or for elementary school use, it would, in connection with the other buildings of the Forster group, afford relief to crowded conditions now existing there and could be made the means of reducing the pressure on the buildings further to the east. Which of these two plans should first be used is a matter for careful consideration. I hope one or the other can be put into effect so that its benefits may be had by the opening of the next school year.

High School.

The High School is now working under the most favorable conditions which it has experienced for a number of years. Its membership has been reduced to such a point as to give adequate relief from overcrowding. As a consequence the activities of the school have been conducted this year with increased effectiveness. Two teachers are devoting half their time to Vocational Guidance. Working in conjunction with the other teachers of the school they have done much to improve the relations of many pupils to the school, to assist pupils in securing work, and to increase pupils' knowledge of the conditions in industry and commerce, thereby giving them help in determining their own plans for work after leaving school. This work is more fully set forth in a report which these teachers have prepared and is printed as an appendix to this report.

At my request Head Master John A. Avery has furnished a statement which expresses his opinion upon these matters. I give it here with my approval in place of more extended remarks of my own.

"The Fall of 1917 marks a unique condition in this school. For reasons of which I shall speak later, the membership has dropped to 1,440, a decrease of 351 from last year, and of 818 from 1915, the year of the school's greatest membership. For the first time, therefore, in twenty years the membership is small enough to be accommodated normally in the school buildings.

"This means, first, that every pupil has a desk in a room suitable for the purpose; second, that typewriting rooms, mechanical drawing rooms, sewing rooms, and rooms of like character are no longer used for home room purposes; third, that other vacated rooms may be used for special purposes, such as laboratories, vocational guidance rooms, special commercial rooms, rooms for school paper, orchestra, etc., as soon as they can be equipped; and fourth, that certain large rooms are available for study purposes exclusively.

"The reasons for the striking decrease in numbers are two-fold; first, the establishment of Junior High schools which has reduced the freshman class about two-thirds; second, the excessive shrinkage of the upper classes due to so many pupils leaving before graduation to go to work, a lamentable situation but one well nigh unavoidable in these days of attractive high wages and excessive demands for all kinds of inexperienced labor.

"The *Vocational Work* has been given an added impetus during the year by the appointment of a second counselor, so that we now have two teachers devoting half their time each or the equivalent of one teacher devoting all of his time to this work.

"An important part of their work has been in placing pupils in afternoon and Saturday positions and in arranging part time Holiday work for needy pupils in stores and offices in Boston.

"A large number of lecturers secured by the counselors have spoken to the pupils on various phases of business.

"These Counselors have also arranged a series of lessons to pupils of the first year class on "Occupations," treating such subjects as Stenography, Typewriting, Bookkeeping, Telephone Operating, Farming, Management and Organization, Library Work, etc.

"Many pupils have been interviewed individually and advised regarding their choice of work, the fitness of their selection of studies in preparation for their life work and the ad-

visability and necessity of staying in school till the completion of their high school course.

"In patriotism and service the school is trying to do its share. Our country's call has taken into the service several of our undergraduates and many of our graduates. At a patriotic meeting held on the day before Thanksgiving an honor list of 135 graduates and eleven undergraduates was read. These numbers have already been increased by later returns.

"The pupils of the school have also been doing many services in an unorganized manner. An effort has recently been made to organize this work by the Students' Council. A society has been formed consisting of all the pupils and teachers of the school under the name of the Somerville High School Patriotic Association under whose management many kinds of patriotic service are being planned and executed. The pledge card of this organization reads as follows: 'I, _____ of Room _____ Class _____ promise to hold myself in readiness to perform any service consistent with my home and school duties that will directly or indirectly assist my country, my state, or my city'; and on the reverse side the signer is requested to indicate the character of the work for which he is most fitted, such as Knitting, Collecting Reading Material, Red Cross Work, Making Surgical Dressings, Making Splints, Tagging, Use of Automobile, Clerical Work, Gardening, Assisting Local Charities, Teaching Disabled Soldiers.

"The outlook of the school is the brightest it has been for many years. The reduction in numbers has relieved all the discomforts of overcrowding. Teachers have smaller classes to teach. Much more personal work can be done and factory methods of handling large numbers have disappeared. Crowding, jostling, impure air are things of the past, so that with the admirable daily physical training exercises put into effect last year, an improvement in the appearance of the pupils is already noticeable.

"Discipline also has already improved and 'Offense cards' and 'punishments' are relatively few. A spirit of co-operation and kindly feeling between pupils and teachers seems to prevail as never before. In fact the school is entering on a new era of comfort and normal conditions which is bringing a harvest of better work, greater efficiency, improved school spirit and renewed ambition."

JUNIOR HIGH SCHOOLS.

The New Junior High School in West Somerville.

This school was opened in September with 734 pupils and twenty-seven teachers. Its equipment consists of eleven class rooms for academic work; two shops for boys, one a metal working shop, the other a carpenter shop; and two practical arts rooms for girls, one for sewing and one for cooking. One

of the class rooms is equipped as a general science laboratory and another is equipped as a drawing room. One room serves the combined uses of library and study room. One room is used for typewriting. Two academic classes are conducted in large corridors. Most of the teachers for this school were taken from the upper grades of the grammar schools from which the pupils were transferred to form the junior high school, but a few were taken from the senior high school. These changes were made as a result of careful planning, the teachers, in the main, having been given subjects to teach which they prefer and which they are best qualified to teach. In general terms the pupils are pursuing three courses of study, Preparatory, Commercial, and Manual Arts. The course of study in academic subjects is identical with that followed at the other two junior high schools. The one variation that is characteristic of this school is the metal working for boys. The plan for all junior high schools is to have two kinds of manual work for boys and two kinds for girls. This school is now well equipped and well organized and its various departments are running smoothly and well.

East Somerville Junior High School.

At the East Somerville Junior High School an additional activity has been provided this year for boys, a class in book-binding having been added to the work of that school.

As the year closes, the teachers of the junior high school are organized in committees for the purpose of carefully examining the course of study for the school with the purpose of preparing new outlines of work in the various subjects which shall be best adapted to carry into effect the purposes for which these schools were established.

Vocational Schools.

The vocational schools have suffered some loss of attendance through the demand for workers and the consequent increased opportunities for the youth to find employment. The girls' school has suffered in this particular more than the boys'. Its work, however, continues to be of a high grade, affording a superior training in practical arts for girls. The history of its graduates gives convincing evidence of the high value of the preparation for life which girls here secure. It cannot be doubted that many more girls would be attracted to this school if it were more favorably situated. It will be necessary soon either to remodel or to renovate the building which this school occupies, or to abandon it altogether. In the latter event it will be necessary to move to another building or else to give up the school. The latter alternative ought not to be considered for a moment. It would also be unwise to expend any more money on this building. The remaining alternative is to

look forward to the time when a new building can be provided for this school. This conclusion cannot from the nature of the case be long delayed.

The Boys' Vocational School has been helped this year by the provision of a new building. When this is occupied for the purpose for which it is intended the accommodations for the school will have been very materially improved. The experience of this school, like that of others of the same kind at the present time, seems to show a decline in interest in wood working as a trade for boys. More applications are coming for admission to the mechanical classes than to the wood working classes. The experience of the school in placing boys who have had machine shop training shows that boys trained in machine shop practice easily find lucrative employment. The demand for admission to the new automobile classes gives proof that a room properly adapted to automobile repair work would afford a valuable opportunity for many boys to prepare themselves for a line of work which offers many inducements to boys.

In connection with both of these schools the thoughts should be borne in mind that they are agencies for helping young people whose minds work best in relation to concrete problems. In a world where constructive effort plays a large part, the "Motor Minded" youth who is well trained not only has the best preparation for life which his personal attributes demand, but he also enters a field of endeavor which has possibilities for personal preferment as large as any that are open to human endeavor. These considerations seem to make wise the further development of the vocational schools and the effort to bring clearly before the public the opportunities which they offer to the youth whose aptitudes they best serve.

Elementary Schools.

All but four of the grammar schools have sent their eighth and ninth grades to the junior high school, retaining seven grades corresponding to the first seven years of the elementary course. All of the elementary schools have continued throughout the year the lines of work which they have followed for a number of years past. In the doing of this, the teachers have displayed the interest and skill which has always characterized their efforts. In many cases the classes are too large, consequently the task of the teachers is harder than it should be. Nevertheless, cheerfulness and success have prevailed in all of the schools.

Atypical Classes.

The Atypical Schools, three in number, have continued to do their work this year in an effective manner. Throughout

the year they have had a full complement of pupils. The best evidence of the value of these schools is that there is a demand for the establishment of several more. The masters of the grammar schools have recognized the need of these classes and have asked to have at least one more provided for the next school year. I think this provision should be made just as soon as a vacant room can be had in a locality where such a class ought to be established.

Kindergartens.

Four kindergartens are conducted in our schools. This number has not increased over a period of years chiefly because there has not been room available for this purpose. The ideal condition would be to have a kindergarten provided for all pupils who desire to go to school earlier than the age for admission to the first grade. During the year all of the kindergartens have been well patronized, in one or two instances the number of applicants being in excess of the capacity of the school. I think it would be wise to establish one or more kindergartens yearly, as accommodations are available, until there shall be at least one in every ward in the city.

Physical Training.

Physical training has received an impetus during this year through the provision of a printed course of instruction and through the adoption by the School Committee of a plan for additional physical training for the high school. In April the course of study prepared by Ernst Hermann, Director of Physical Training, was issued in book form and supplied to teachers of elementary and high schools. This course shows the theory upon which the physical training taught in our schools is based, and presents a graded course of exercises and games for use in all classes.

The proposed additions to the physical training for high school pupils is shown in the following report which was adopted by the School Committee at its meeting on November 26:

1. The Committee recommends that a program of physical training for boys and girls be provided consisting of marching tactics, setting up exercises, and athletic games for boys; marching tactics, athletic games, rhythmic and setting up exercises for girls.

It recommends that these exercises be compulsory and that they occur between the hours of 10:50 and 12:20; that for boys they occur weekly and for girls at least once in two weeks.

2. In order to carry into effect the recommendations stated above, it will be necessary to provide the following:

Two drill rooms where exercises may be conducted simultaneously, one room for boys and one room for girls.

Additional instruction for these subjects.

Two drill rooms are needed in order that the companies of boys and girls may be drilled at the same time, thus reducing the disturbance of the school program caused by sending pupils to the drill. It is probable that the State Armory on Highland Avenue can be secured for boys and the gymnasium of the Y. M. C. A. for girls.

As the School Committee has no power to engage rooms for drill purposes, the authority for such action being in the hands of the Commissioner of Public Buildings, it will be necessary for the School Committee to secure action by the Building Commissioner before this plan can be put into effect. It is the opinion of the Committee that the instruction required for this work can be provided by securing part-time service of suitable instructors.

Since this action was taken measures for securing the use of the two drill rooms have been started and it is probable that both places will be available when the schools reopen.

Summer Work.

This summer, garden work was made a large feature of the vacation activities. In the conduct of summer playgrounds by the School Committee gardening heretofore has had a small place. This year, on account of the war, promotion of gardening became imperative and consequently a larger part of the summer playgrounds resources was devoted to the cultivation of home and school gardens. For these undertakings there were available \$2,500, the appropriation for summer playgrounds work, \$600 contributed by the Somerville Playgrounds Association, and such sums as could be spent for them from the Contingent Account of the schools. In round numbers the sum of \$3,588 was spent, \$1,411.00 for playgrounds and \$2,177.00 for garden work. These sums were expended for instruction and materials as follows: Playgrounds, instruction \$1,209.50; supplies \$201.35; Gardens, instruction \$1,623.94, supplies \$578.35. Eight playgrounds were conducted with an average weekly attendance of 9,222 children. Seventeen school gardens were conducted, having an area of 197,658 square feet and accommodating 389 children. In addition to these, 498 children conducted successful home gardens under supervision. Several canning clubs were organized which carried on their work throughout the growing season. These clubs were very successful. Public demonstrations in canning were made at stated times during the season in the High School lunch room. All in all this work was carried on with great interest during the whole summer. Children raised sufficient crops to help supply the family table with fresh vegetables. Parents took a keen interest in gardens

and showed many signs of approval of what was being done. As this was the first time that an effort had been made to conduct school gardens on a large scale with adequate supervision the results obtained were particularly gratifying and significant. I think the undertaking justified itself both as a war measure and as a measure promotive of the best interests of many children. For either or both of these reasons I think the work should be undertaken next year with even more thorough preparation. Concerning the expenses for materials it should be remarked that an initial outlay for permanent equipment was necessary. Another year these materials will be ready for use and will be an asset for the undertaking. The success of this work was greatly promoted by the interest shown in it by several private organizations and individuals. Among these should be named the Somerville Board of Trade which co-operated with the school authorities in the conduct of school gardens, the West Somerville Civic Association which gave \$50 to be used for prizes and which helped in other ways, and Hon. John M. Woods who gave \$50 for prizes. Other persons gave encouragement and advice, thereby increasing the evidence of public interest and approval. Department heads rendered valuable aid in many ways. Especial acknowledgment should be made to John F. Colquhoun of the City Home whose expert knowledge freely and cheerfully given was of great assistance to those directing the work, and to Ernest W. Bailey, City Engineer, who had charge of the plowing of all the public areas used for gardens.

Civic Spirit.

The entrance of the United States into the World War produced an early effect upon the activities of the schools and has continued throughout the year to influence them. As the thoughts of the people were quickened to earnest consideration of means of defence and offense, a reflection of this spirit was to be expected in the schools. One of the first measures to be impressed upon the minds of the pupils was the necessity of providing a sufficiency of food for the support of the nation and for the help of the nation's allies. Here at home this thought took effect in a movement to insure the raising of food in all places serviceable for garden purposes. The Mayor of the city early called upon the school children to cultivate gardens during the growing season and placed at the disposal of the schools areas on public parks which for years had been used only as recreation places. The urgency of this appeal came from the conviction that such action by all the communities of the country was necessary to the nation's safety.

Under date of April 25, in a Superintendent's Bulletin sent to the teachers of the schools, occurred this paragraph on patriotism:

“During the days of the present emotional stress there is an unusual opportunity for teachers to train pupils in patriotism. Pupils will be influenced by the waves of feeling which surge round and about them, but unless their minds are directed to useful thinking and acting such waves of emotion will not produce real patriotism. There is need today for *service* for our country—city, state, and nation. Children can *serve* all of these by doing things right at hand. It should be the purpose of the school by steady, persistent, patient work to lead pupils to see this great truth and to act upon it. Just now the country is calling for food production by way of garden making. The appeal for this kind of service has been made to pupils. Some are responding; more should. In this connection there is one other service which all children can and should render. In this bulletin I will only name it but will discuss it in another. This service is safeguarding gardens of all kinds. This is a *patriotic duty*. From now to the end of school, in varying degrees according to ages of pupils, pressure of school influence should be exerted upon pupils to make them understand that a garden or an orchard this year is a national resource and must be respected.”

Thus first was driven home to the minds of the pupils of the schools the idea that their country was in peril and the idea that they individually could contribute by their personal efforts to its security. This appeal found ready response. Children volunteered in sufficient numbers to work all of the garden plots provided for them on public areas, and the number of home garden plots cultivated was largely in excess of any previous record. These War Gardens, as they came to be called, were successfully carried on throughout the growing season and yielded their contribution to the welfare of the community.

Hardly had this movement been launched when another measure was proposed. Children, it appeared, could produce gardens. Why should they not also protect gardens? To test this matter an organization of boys was formed under the title of Junior Police, whose duties were to safeguard the gardens of the city throughout the growing season. The Junior Police, drawn from the schools of the city, rendered this service in such a way as to receive the approval of all citizens and officials alike.

Soon other measures were proposed. Children in the schools were called upon to help the Allies by contributing to the Marshal Joffre Fund in May; by assisting the Red Cross tag day in June; by aiding the sale of Liberty Bonds in June; by contributing to the Library Fund for soldiers and sailors in October; by assisting to raise a War Camp Community Fund in December; and by contributing to the Halifax Relief Fund

in December. In the three contributions made during the year more than \$1,300 were given by children.

These are more than mere isolated events; they are parts of a process which is quickening the consciousness of school pupils of their relation to the community and the nation. Every time the child performs a service for the community or the nation, either by contributing his money or by giving his labor, he is by that act making of himself a better citizen and a better patriot.

And now at the close of the year, after this series of events, the pupils of the schools are organizing to make more effective their potentiality for the service of their country. The School Committee has authorized the forming of Junior Red Cross Membership Auxiliaries and the promotion among the pupils of helping the Government by purchasing War Savings Stamps. These two undertakings will be begun when schools reopen and will easily be carried on by the spirit which now animates the whole membership of the schools.

Teachers' Salaries.

In May the School Committee adopted a new salary schedule and increased the salaries of practically all of the teachers of the schools. In the elementary schools most salaries were increased \$50. and in the high school and junior high schools in addition to an increase of pay a new salary schedule was adopted. Under this new schedule an opportunity is presented for every high school teacher to advance to a higher salary, both automatically by years of service and by special promotion on account of merit. This schedule is in the main an improvement upon the former schedule and is flexible enough to meet the needs of the high school. In the elementary schools, grade teachers had asked for an increase of salary providing a maximum of \$1,000. This maximum the Committee did not adopt, but on the other hand, it did not deny the justice and propriety of the request of the elementary teachers that they be given the prospect of this maximum. In view of the increased cost of living it can hardly be doubted that \$50, the amount of the increase given to elementary teachers, is insufficient to raise the purchasing power of their salary today to the level of a year or more ago. Moreover the maximum does not compare so favorably with salaries given to teachers in neighboring communities as was the case a few years ago. These teachers do not seek positions here now because the cost of living is higher here and the salaries paid are not enough more than they get to overcome the higher cost of living. Under these circumstances it would seem an act of justice and consideration to add again \$50 to the maximum of the salary of the

elementary teachers and assistants of the junior high school. I hope the Committee will see its way clear to take this action during the next fiscal year.

Summary.

After recounting the various elements of the school organization, which contributing their special offering to the general undertaking, yet tend towards the common goal, and after giving to each its just measure of recognition, the reviewer must ask, what is the goal sought? What is the outcome of all this endeavor? What justifies all this outlay, this striving, this hoping? To give this challenge to the schools is but to transfer to them the question which the thoughtful put to life itself, that greater whole of which the schools are but a part. For the schools are a part of life; life in its mobile, plastic, impressionable age; in its helpless but helpful age. What is the answer to the riddle of life? Only this: to live worthily. What is it to live worthily? Only this: to be the best one can, and to help others the most one can. How can the schools reach this goal? There is no sure and easy route, else the world would not be what it now is these many years along in the Christian era. The answer is to be found in the goal, the materials and the agencies involved; to use all of the provisions for instruction for the development of the best there is in every individual who goes to school, not alone that he may be better and stronger but also that he may better serve the social whole of which he is a part. Could this but be done by a word of command, how easy the task! Rather is it the task of every hour and day and year of the school life. It is to be done by lessons, by exercises, by admonitions, by encouragements, by strivings, by failures and successes, by unflinching holding on with the goal always in view, the whole undertaking animated, sustained and carried on by the spirit of service. By these means shall the schools realize the high purpose of their being. And in the use of these means every element of the school organization has its own responsible part, for each deals with the human material growing in life, the individual child. By the test of conduct, of character, shall each element determine its success in educating the individual child, and so all children. As human agencies are imperfect, as provisions for so great a work are inadequate, complete success in such an undertaking may not be claimed. But I am glad to record my belief that our schools have this vision, that our teachers are working faithfully and unceasingly to attain this goal and that a large measure of success crowns their work when now, as never before, it is being called upon to show its fruits.

Conclusion.

Looking forward with a view of successfully carrying on the work of the year now closing I wish to lay emphasis by way of recommendation on those things which seem to me the most outstanding among our needs at the present time. Therefore, I recommend:

(1) That an addition be made to the West Somerville Junior High School to be ready for occupancy in September, 1918;

(2) That an addition of six rooms be made to the East Somerville Junior High School to be ready for use in September, 1918;

(3) That an increase of \$50 be made to the maximum salaries of teachers of the elementary and junior high schools; thereby raising it to \$900;

(4) That special effort be made during the coming school year to teach the pupils of the schools facts about the war and to train them in habits of service to the community and the nation.

In closing, I desire to acknowledge my indebtedness to all my associates in the schools,—the teachers, principals and masters, and to thank the School Committee, individually and collectively, for the unfailing courtesy and consideration which they have shown me throughout the year.

Respectfully submitted,

CHARLES S. CLARK,
Superintendent of Schools.

December 28, 1917.

STATEMENT CONCERNING VOCATIONAL GUIDANCE—1918.

The Vocational Counselors of the Somerville High School beg leave to submit the following report for the year 1917.

The counselor for girls has been at work during the entire year; the counselor for boys, since his appointment in September. In all the work the counselors recognize with appreciation the assistance of the Faculty Committees on Social Service and on Vocational Guidance, as well as the co-operation of all the teachers in the development and improvement of the advisory system of the school.

Advisory System.

During the year the advisory system has been appreciably strengthened. It is believed that students are not always in a position to choose an adviser wisely in the first year because of lack of acquaintance with the teaching staff. The first year advisers, therefore, are now selected for the students by a committee of teachers, preference being given to the home room teacher. At the end of the first year, the students are free to select an adviser for the remainder of their school career. It is believed that better results will be secured by this method. It is planned to make the adviser assume a greater share of responsibility for the individual student. In addition to monthly conferences a special period once a month for advisers, parents and pupils, is desirable. During the past year a step forward has been taken by reducing the number of students to each adviser from thirty-five to twenty-five.

Vocational Information.

Vocational information has been given in various ways, as, for instance,

1. Lectures by prominent men and women,
2. In connection with the study of English,
3. In connection with the High School Library, through books on vocations, and catalogues of colleges, schools, etc.
4. Study of Occupations.

Freshman pupils are required to study occupations. Classes meet once every two weeks, and are in charge of the counselors. This arrangement gives the counselors an opportunity to come in contact with every pupil at the beginning of his high school career.

Lecturers who have spoken to the whole or different sections of the school during the past year are as follows:

- Mar. 14—Dr. L. H. Murlin President Boston University
 Mar. 21—Mrs. Cora Codman Ely,
 Membership Director, Metropolitan Chapter Red Cross
 Mar. 30—Miss Margaret Dieter Massachusetts General Hospital
 Apr. 2—Mr. Charles T. Cahill,
 Advertising Manager, United Shoe Machinery Company
 Apr. 9—Mr. Z. A. Cahoon New England Telephone & Telegraph Co.
 Apr. 23—Mr. Frank P. Speare President Northeastern College
 Apr. 26—Mr. Edwin Pride Certified Public Accountant
 Apr. 27—Mr. C. H. Bohlin The Stenotype Company
 May 14—Mr. Charles S. Clark,
 Superintendent of Schools, Somerville, Massachusetts
 May 18—Mr. Everett W. Lord,
 Dean of the College of Business Administration, Boston University
 May 25—Miss Helen Merrill,
 Department of Mathematics, Wellesley College
 Oct. 29—Mr. Charles W. Hobbs,
 Editor and Supervisor of Instruction, Department of University
 Extension
 Nov. 2—Mr. William P. French Representative
 Nov. 5—Mr. W. W. Kennard,
 Chairman Accident Industrial Insurance Board
 Nov. 12—Mr. Paul Burns Life Insurance Agent
 Dec. 18—Mr. James Jackson,
 Manager New England Division Red Cross

Through the English Department Junior Classes have written compositions and prepared talks on the following occupations:

Forestry	Bookkeeping
Farming	General Office Work
Salesmanship	Dressmaking
Advertising	Domestic Science
Secretarial Work	Music
Stenography	Nursing

The girls studying Nursing had an opportunity to visit the Massachusetts General Hospital.

College Preparatory pupils have filled out a questionnaire for the Head of the Course, who has talked to the group and has had individual conferences with all those seeking information.

Placement Work.

During the period between September, 1916 and June, 1917, 544 pupils were interviewed, and twenty-six pupils placed in satisfactory positions.

September, 1916 to June, 1917.

Class	Number of Pupils Interviewed			Number of Pupils Placed		
	Girls	Boys	Total	Girls	Boys	Total
1921A	33		33			
1920B	119	13	132	1	1	2
1920A	8	7	15			
1919B	63	32	95	3	1	4
1919A	14	6	20	1	1	2
1918B	126	21	147	2	1	3
1918A	6	5	11		2	2
1917B	51	33	84	7	4	11
Post Graduates	5	2	7	1	1	2
	<u>425</u>	<u>119</u>	<u>544</u>	<u>15</u>	<u>11</u>	<u>26</u>

September, 1917 to December, 1917.

Number of pupils interviewed	500
Number of pupils placed in permanent or temporary positions	105
Total number of interviews	1044
Total number of pupils placed in permanent or temporary positions	131

Leaving School.

The cases of pupils leaving school have been carefully examined. The causes discovered are as follows:

September to December, 1917.	Boys	Girls	Total
To go to work	18	6	24
Moved	4	13	17
Gone to other schools	3	4	7
Ill health	1	3	4
Enlistment	3		3
Left because of failure, etc.	4		4
Other reasons	9	15	24
	<u>42</u>	<u>41</u>	<u>83</u>

SOMERVILLE PLAYGROUNDS ASSOCIATION.

Comparative Statement of Receipts and Expenditures.

Receipts:	1915.	1916.	1917.
Balance from previous account .	\$51 06	\$180 76	\$425 47
Donations and subscriptions .	1,347 17	1,058 38	959 32
Interest on deposit in bank .		82	7 24
	<u>\$1,398 23</u>	<u>\$1,239 96</u>	<u>\$1,392 03</u>
Expenditures:			
Instructors .	\$554 60	\$237 00	\$477 47
Supplies .	120 25	260 52	130 39
Printing .	29 35	57 25	23 50
Expressing .		30 50	65
Rent of land for garden .	16 00		
Expenses, Field Day .			309 44
Labor .		19 92	
Stamps, envelopes, etc. .	15 62		
Catering .		49 30	
A. E. McCarthy House .			
Tuition of teachers .			
Membership in Somerville Federation for Civic Service .	1 00		
Gustavus T. Kirby for services rendered by Rowland Haynes .	327 00		
Gustavus T. Kirby for Survey of Recreation Problem in Somerville .	153 65		
Expense of delegates to Recreation Congress at Grand Rapids .		160 00	
	<u>\$1,217 47</u>	<u>\$814 49</u>	<u>\$941 45</u>
Balance .	180 76	425 47	450 58
	<u>\$1,398 23</u>	<u>\$1,239 96</u>	<u>\$1,392 03</u>

SUMMER PLAYGROUNDS.

Comparative Statement of Receipts and Expenditures.

	1914.	1915.	1916.	1917.
Appropriation	\$2,000 00	\$1,700 00	\$2,300 00	\$2,500 00
Salaries of Supervisors and Instructors	1,598 00	1,292 20	1,538 00	1,066 50
Equipment:				
Jumping Standards			86 00	
Tent			55 00	
Hose			12 00	8 60
Labor and Training	2 70			9 00
Repairing		18 38	6 27	
Athletic Supplies:				
Baseballs, bats, etc.	107 27	134 87	251 44	11 35
Medals, etc.	13 75	15 45		
Miscellaneous Supplies, etc.:				
Printing	6 25		12 00	
Labor	10 50	20 00	45 00	
Teaming and Expressing .	9 50	10 85	12 80	
Sand	10 75	33 23	37 80	
Band	61 60		61 60	
Handwork Supplies	44 84	52 00	7 40	14 81
Various	61 00	43 82	83 49	35 07
Baths:				
Salary of Attendant	35 00	79 20	91 20	84 00
Supplies and Laundry	15 25			
School Gardens:				
Salaries of Supervisors and Instructors				1,175 64
Plowing, team, etc.				93 53
Supplies	17 67			
Labor	5 55			1 50
Balance unexpended	37			
	<u>\$2,000 00</u>	<u>\$1,700 00</u>	<u>\$2,300 00</u>	<u>\$2,500 00</u>
Expended by Somerville Play- grounds Association:				
Playgrounds	407 90	1,191 47	814 49	177 52
Gardens	18 46	26 00		422 47
	<u>\$2,426 36</u>	<u>\$2,917 47</u>	<u>\$3,114 49</u>	<u>\$3,099 99</u>

GARDEN EXPENDITURES FROM CONTINGENT FUND 1917.

Equipment:

Lawn Sprinkler	4 50
Barrow	2 90
Hose and Nozzle	26 07
Preserving Kettle, etc.,	4 01
Making Signs	70 00
Lettering Signs	40 00
Watering Pots	1 40
Spading Fork	1 25
Wheel Cultivator	5 14
Hoes	6 40
Insecticides Fertilizer, Seeds, Plants, etc.,	153 23
Labor, Teaming and Expressing	82 55
Travel and Incidentals	68 04
Salary (one week) F. C. Stackpole	23 33
	<hr/>
	\$488 82
Credit, potatoes sold	32 00
	<hr/>
	\$456 82

REPORT OF THE SCHOOL SAVINGS BANKS.

November 1, 1916 to October 31, 1917.

	Balance Nov. 1, 1916.	Amount Deposited.	Amount Withdrawn.	Amount Transferred to Somer- ville Insti- tution for Savings.	Balance Oct. 31, 1917.
Prescott		\$910 76	\$197 14	\$713 62	
Hanscom	\$29 67	903 40	75 05	717 83	\$140 19
Bennett		470 25	141 16	235 84	93 25
Knapp	68 11	1,065 38	154 37	880 79	98 33
Perry	36 75	660 50	99 90	498 80	98 55
Baxter	62 73	524 37	70 85	441 64	74 61
Cummings	39 46	453 20	38 55	372 60	81 51
Pope	97 05	970 56	168 75	762 01	136 85
Bell	58 80	701 60	131 75	526 00	102 65
Edgerly	107 29	1,200 80	237 92	882 87	187 30
Glines	98 00	1,344 70	59 35	1,303 50	79 85
Forster	249 81	1,100 95	179 80	1,003 00	167 96
Bingham	166 70	1,358 53	146 89	1,175 47	202 87
Carr	44 20	1,084 44	156 63	857 58	114 43
Morse	35 65	706 68	98 90	553 32	90 11
Burns	71 85	715 80	62 70	599 45	125 50
Proctor	1 00	732 95	33 65	606 60	93 70
Brown	267 01	1,818 13	168 76	1,507 00	409 38
Highland	81 62	919 30	116 50	748 00	136 42
Hodgkins	168 85	1,255 00	143 30	1,166 65	113 90
Lowe	109 85	822 85	64 10	758 00	110 60
Cutler	332 08	2,022 37	95 07	1,985 51	273 87
High School	100 20	202 45	32 75	152 45	117 45
W. Som. Jr. High		36 65			36 65
Girls' Vocational	65				65
	<u>\$2,227 33</u>	<u>\$21,981 62</u>	<u>\$2,673 84</u>	<u>\$18,448 53</u>	<u>\$3,086 58</u>

STATEMENT CONCERNING THE ISSUING OF EMPLOYMENT
CERTIFICATES, 1917.

Table showing the number of different persons receiving employment certificates, distributed as follows:—

Boys.—14-year-old	307	
15-year-old	202	
	<u>509</u>	
Girls.—14-year-old	185	
15-year-old	143	
	<u>328</u>	
Grand total		<u>837</u>

REPORT OF SCHOOL DENTIST.
For the School Year Ending June 27, 1917.

MONTH.	No. Children Treated.	No. First Appointment	No. Reappointment.	Teeth Extracted.	No. Treatments.	No. of Teeth Filled.	No. Cleansings.	No. Having Brush.	No. not Having Brush.	No. Given Novocain.	No. of Examinations Made.	Dental Talks.	Amount of Fees Collected.	Incidental Expenses.
October	102	90	12	85	8	40	28	85	11	38	6	.....	\$13.21	5.47
November	134	123	11	128	7	51	35	106	28	32	9	.....	16.29	2.82
December	83	64	19	68	15	24	13	64	19	25	8	.....	8.66	3.71
January	180	135	45	123	56	54	33	144	36	33	11	10	21.34	3.91
February	163	116	47	98	41	21	33	139	24	46	15	6	17.64	4.33
March	144	100	40	85	27	24	32	121	19	29	11	2	20.49	2.81
April.....	139	109	30	96	31	26	17	120	19	37	12	2	14.24	4.53
May	158	89	69	79	34	44	29	147	11	34	13	.....	16.31	3.02
June	140	47	93	53	21	64	28	124	6	35	5	.....	16.60	3.57
Total.....	1,243	873	366	815	240	348	248	1,050	173	309	90	20	\$144.78	34.17

COMPARATIVE FINANCIAL STATEMENT.

	1914-1915	1915-1916	1916-1917
Receipts:—			
Cash on hand September 1.....	\$12.78		\$54.36
From fees.....	123.48	\$141.88	144.78
From sale of tooth brushes and powder.....	128.75	132.50	24.96
Expenditures:—			
For supplies.....	\$265.01	\$220.02	\$184.59
Cash on hand June 30.....		54.36	39.51
	\$265.01	\$274.38	\$224.10
			\$224.10

Annual Report of School Nurses.
For Year Ending June 27, 1917.

DATE	School or Hospital	No. of Pupils		Treatments in School	Inspections for		PUPILS ESCORTED TO CLINICS												Optician	Corrected Vision	Corrected Hearing	Operations		Contagion found in		Home Visits		Hygiene Talks		REMARKS							
		New	Old		Fed.	Uncl.	Eye		Ear		Nose and Throat		*Medical		Surgical		Skin					Dental		Tonsils	Adenoids	School	Home	New	Old		School	Home					
							New	Old	New	Old	New	Old	New	Old	New	Old	New	Old				New	Old								School	Home					
October	Schools	74	526	89	121	99	12					1																								Assisted in medical inspection. Arranged to send children to Forsyth Dental Infirmary. Reported unsanitary home conditions to Board of Health. Examined teeth of children. Sent City physician to treat a very sick child.	
	Hospitals	3																																			
November	Schools	76	406	204	113	56	4	2	2			1	1		1	1																				Two children taken to hospital. Sent three children to Dental Dispensary. Reported a needy family to Associated Charities. Assisted in medical inspection. Secured clothing for six needy families.	
	Hospitals	10																																			
December	Schools	60	141	169	95	34						2			1	2																				Four children taken to hospitals. One child taken to Forsyth Dental Infirmary.	
	Hospitals	13																																			
January	Schools	75	232	243	100	81	2								1	1																				Assisted in medical inspection.	
	Hospitals	5																																		Sent two children to Dental Dispensary. One child taken to Tufts Dental Infirmary. One child taken to Hospital.	
February	Schools	78	413	251	105	91	8	1	1				1																							Reported one needy family to Associated Charities. Assisted in medical inspection.	
	Hospitals	6																																		Three cases of eye trouble found and glasses arranged for. Two children taken to Psychopathic Hospital for examination.	
March	Schools	75	240	204	87	46	2	2	2	1		3	1																							Secured clothing for two needy families. Assisted in medical inspection.	
	Hospitals	9																																		Arranged for five children to be treated at Dental Dispensary. One case reported to City physiciau. Clothing found for two needy families. Reported unsanitary home conditions to Board of Health. Three children taken to hospitals. Child with contagious disease found in school. Assisted in medical inspection.	
April	Schools	69	231	275	123	53						3		2																						Two children taken to hospitals. Child with contagious disease found in school.	
	Hospitals	7																																		Assisted in medical inspection.	
May	Schools	85	205	160	399	100	18	1	2			1	1																							Assisted in medical inspection. First aid for fracture given. Two children sent to hospitals.	
	Hospitals	6																																		Two children with contagious diseases found in school.	
June	Schools	120	355	342	240	47	8		2					3																						Reported case of neglected children to Massachusetts Society for Prevention of Cruelty to Children.	
	Hospitals	20																																			Reported unsanitary home conditions to Board of Health. Sent child to Children's Hospital for treatment.
Totals	Schools	712	2749	1937	1383	607	54	6	8	2		11	6	3	1	6	3																				
	Hospitals	79																																			

*Treated by family physician or dentist.



SOMERVILLE TEACHERS' ASSOCIATION.

Officers, 1917.

President, George E. Pearson.

Vice-Presidents, } Francis A. Ryan.
{ Harriet M. Bell.

Secretary-Treasurer, M. Genevieve Smith.

Executive Committee:—

Superintendent Charles S. Clark, ex-officio.

Charlotte A. Norton, High.	Edith M. Dow, Glines.
Elizabeth J. Mooney, E. S. Junior High.	Annie S. Gage, Forster.
Gertrude W. Chaffin, W. H. Junior High.	Clara L. Griffiths, Bingham.
James S. Thistle, W. S. Junior High.	Eva S. Bent, Carr.
Louise E. Pratt, Prescott.	Lennie W. Bartlett, Morse.
Marion A. Viets, Hanscom.	Edith L. Hunnewell, Proctor.
Eleanor W. Nolan, Bennett.	Abigail P. Hazelton, Durell.
Martha W. Delay, Baxter.	Margaret Beattie, Burns.
Clara B. Parkhurst, Knapp.	Persis A. Richardson, Brown.
Irene Vincent, Perry.	Ethel M. Park, Highland.
Emma J. Kennedy, Pope.	Edith W. Emerson, Hodgkins.
Esther L. Small, Bell.	Georgie B. Collins, Cutler.
Fannie L. Gwynne, Cummings.	Lillian M. Wentworth, Lincoln.
Mabel C. Mansfield, Edgerly.	Martha A. Jencks, Lowe.
	Mary Donoghue, Girls' Vocational.
	Nehemiah E. Gillespie, Boys' Vocational.

The meetings held under the auspices of this association in the year 1917 were as follows:—

February 14—Address by Dr. Luther H. Gulick of New York.

May 15—Address by F. W. Wright, Deputy Commissioner of Education.

October 10—Address by John F. Thompson, Principal of the Fitchburg Normal School.

December 12—Illustrated Lecture on "Switzerland," by Lewis W. Newell.

SOMERVILLE TEACHERS' CLUB.**Officers, 1917-1918.**

President, Mrs. Phebe E. Mathews.

Vice-Presidents, } Miss Annie C. Woodward.
 } Miss Mary L. Bryant.

Recording Secretary, Miss Edith L. Laycock.

Corresponding Secretary, Miss Mary A. Holt.

Auditor, Miss Mary F. Osborne.

Object.

The object shall be to secure a close union among the women teachers in Somerville; to promote the spirit of mutual helpfulness; to advance professional interests; to create a deeper sense of the dignity of the profession; to unite the interests of the home and school.

Program.

January 9—Dramatic Reading, Professor Thomas Crosby, Yale University.

February 14—Valentine Party.

March 13—Annual Meeting, Recital by Barleben Musical Club.

April 10—Benefit Night,

Mr. Howard White.

Mme. Evelyn Scotney.

Mr. Herbert Seilver.

June 20—Reception to retiring President, Elizabeth M. Collins.

October 9—Address on "Citizenship".....J. Franklin Knotts

November 26—War Supper, Knitting, Sewing Bee.

HIGH SCHOOL ATHLETIC ASSOCIATION.

Report of Treasurer, January 1, 1918.

Receipts:—

Balance on hand January 1, 1917	\$281 23
Hockey	1 00
Sweater	5 82
Baseball games	589 45
Students' Council	50 00
Football	2,824 32
Memberships	268 50

\$4,020 32

Disbursements:—

Coaching	\$741 10
Ticket selling and taking	26 00
Hockey	43 65
Official	219 50
Police	227 00
Advertising and printing	89 79
Treasurer's salary	200 00
League dues	2 00
Travelling expenses	67 24
Stationery and postage	21 18
Guarantees to teams	970 96
Telephoning	27 45
Medical attendance	100 00
Supplies	750 40
Football charms	74 50
Bay State School of Musketry	18 90
Transportation	10 00
Repairs at Armory	8 00
Rindge Technical School, one-half net profit, baseball game	29 20
Miscellaneous	18 17
Balance on hand, January 1, 1918	375 28

\$4,020 32

CONTENTS OF APPENDIX.

SUMMARY OF STATISTICS.

Population and school census.
 School buildings.
 Teachers.
 Attendance for year.
 Cost of school maintenance.
 Teachers' salaries.
 Results of eye and ear tests.

MISCELLANEOUS TABLES.

CONCERNING FINANCE.

No. of Table.

1. Schedule of school property.
2. Cost of maintaining schools, school year 1916-1917.
3. Cost per capita of maintaining schools, school year 1916-1917.
4. Cost of maintaining schools for a series of years.
5. Cost per capita for maintaining schools for a series of years.
6. Amount spent annually for new school buildings and for repairs for a series of years.

CONCERNING PUPILS.

7. Population and school registration.
8. Attendance, etc., of the schools for school year 1916-1917.
9. Statistics of the high school for school year 1916-1917.
10. Pupils by grades, June, 1917.
11. Separate statistics for grammar and primary schools, for school year 1916-1917.
12. Admissions to first grade in February and September.
13. Number of grammar school graduates, 1917.
14. Truant statistics for a series of years.
15. Evening school statistics, 1916-1917.
16. Grammar school graduates for a series of years.
17. Attendance statistics of all schools for a series of years.
18. Statistics of the high school for a series of years.
19. Promotions, 1917.
- 19-A. Distribution of pupils by ages, 1917.
- 19-B. Distribution of pupils, 14 but not 15, 1917.

CONCERNING TEACHERS.

20. Resignations of teachers, 1917.
21. Teachers elected in 1917.
22. Leave of absence of teachers.
23. Transfers of teachers.
24. Number of teachers employed for a series of years.

STATISTICAL AND GENERAL TABLES.

25. Changes in text-books, 1917.
26. High school graduation exercises, 1917.
27. Grammar school graduation exercises, 1917.
28. Organization of school board for 1918.
29. Teachers in service January, 1918.
30. Officers in service January, 1918.
31. School janitors.

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1917.

SCHOOLS.	TEACHERS SALARIES					Administrative.	Books.	White Paper.	Manila Paper.	Blank Books.	Pencils, Pens, etc.	Bookbinding.	Seat Work and Kindergarten Supplies.	Drawing Supplies.	Manual Training Supplies.	Laboratory Supplies.	Bookkeeping Blanks.	Domestic Science Supplies.	Printing.	Travel.	Graduation.	Postage.	Tuition and Board of Truants.	Miscellaneous.	Equipment.	Telephone Service.	Electric Service (Power).	Census Expenses.	Totals.	SCHOOLS.
	Regular.	Substitute.	Special.	Kindergarten.	Total.																									
High	\$83,462 00	\$62 00	\$536 28		\$84,060 28		\$1,909 37	\$479 49	\$88 14	\$323 42	\$306 59	\$291 38	\$561 14	\$586 59	\$443 14	\$837 97	\$8 21	\$144 26	\$30 89	\$235 78	\$22 50		\$578 05	\$807 39	\$63 37	\$393 00		\$8,110 68	High	
East Somerville Junior High.	13,443 38	83 75	276 22		13,803 35		331 62	145 03	195 94	62 47	63 23	17 88	20 03	484 79	\$443 14	98 98	191 06	14 63	13 40	18 27			31 47	696 44	21 48		2,406 72	East Somerville Junior High		
Winter Hill Junior High	16,556 00	5 00	266 26		16,827 26		441 31	105 85	111 60	9 96	46 17		33 94	149 87		61 68	149 07	59 02	26 21	27 02			31 47	804 12	21 96		2,079 24	Winter Hill Junior High		
West Somerville Junior High.	8,328 07		148 32		8,476 39		741 73	42 06	61 66		48 70		73 72	164 14		139 55	72 87	23 02	22 51					91 88	1,868 63	8 46		3,353 93	West Somerville Junior High	
Prescott	7,415 50	56 25	324 45		7,796 20		75 41	94 03	98 80	4 73	35 62	43 69	42 11	9 41						3 56				14 83	4 92	21 41		450 30	Prescott	
Hanscom	8,141 25	94 00	150 06	1,240 00	9,625 31		172 55	8 39	15 26	3 76	13 55	3 61	33 02	53 46										9 15	1 50			314 24	Hanscom	
Bennett	9,376 00	80 75	189 82	1,270 00	10,916 57		162 19	34 17	16 83	1 25	22 18	2 47	62 78	32 41												23 60		580 21	Bennett	
Baxter	4,103 50	21 00	129 42	1,270 00	5,523 92		18 81	22 62	10 62	2 35	6 32		13 65	13 98														97 22	Baxter	
Knapp	12,701 01	102 50	702 62		13,506 13		89 61	84 99	71 96	8 80	41 05	22 98	21 67	51 24										12 04	8 66	25 25		458 96	Knapp	
Perry	4,965 38	28 00	185 75		5,179 13		76 16	4 84	44		16 14		7 92	2 35														111 30	Perry	
Pope	10,955 13	46 50	561 43		11,563 06		352 08	22 64	48 65	4 20	22 13	21 79	19 71	19 52										3 77				559 66	Pope	
Bell	9,493 25	41 25	775 11		10,309 61		162 63	52 21	26 01	12 90	28 22	39 71	32 39	60 39														488 70	Bell	
Cummings	3,340 88	22 50	67 90		3,431 28		236 62	10 62	6 25		1 35	1 71	2 16															265 38	Cummings	
Edgerly	11,301 51	53 75	421 90		11,777 16		245 01	12 25	37 83	2 10	11 85	33 06	11 34	10 57														453 92	Edgerly	
Glines	12,265 45	86 25	419 57	1,266 50	14,037 77		172 57	37 82	25 00	2 10	14 63	21 28	22 00	7 06														338 39	Glines	
Forster	6,244 88	28 75	177 94		6,451 67		46 08	24 64	26 44	3 53	10 76	34 96		5 88														189 62	Forster	
Bingham	14,248 63	140 50	509 35		14,898 48		284 17	44 44	49 92	3 16	25 07	19 76	1 54	24 08					5 47	16 61								658 06	Bingham	
Carr	16,113 00	71 75	817 33		17,002 08		159 42	59 06	25 17	6 45	16 56	14 25	39 22	21 34														473 85	Carr	
Morse	11,626 50	59 75	607 24		12,193 49		215 87	52 03	39 82	17 00	27 20	9 69	25 44	20 29						6 00								611 42	Morse	
Proctor	6,145 88	90 00	230 86		6,466 74		93 03	4 64	7 20		9 11			14 05														163 44	Proctor	
Durell	3,324 25	17 25	67 88		3,409 38		49 06	6 01	13 48		4 85		4 52	1 20														33 86	Durell	
Burns	7,417 50	34 00	170 28		7,621 78		58 52	22 00	33 83		6 65		4 97	18 17														161 16	Burns	
Brown	10,201 50	107 50	473 60		10,782 60		350 28				7 95	30 37	8 74	26 37														504 42	Brown	
Highland	11,518 01	52 50	767 43		12,337 94		447 20	49 08	18 80	5 10	24 39	17 02		20 30														693 87	Highland	
Hodgkins	9,599 38	118 25	437 73		10,155 36		61 55	47 80	51 61	4 06	7 90	21 47	14	10 67														288 15	Hodgkins	
Cutler	15,173 38	242 00	661 87		16,077 25		342 14	86 50	74 92	20 75	49 69	17 67	12 46	69 01						14 18								797 86	Cutler	
Lincoln	3,229 75	30 50	67 76		3,328 01		101 92	14 67	32 57	2 85	13 06		4 52	12 78														188 05	Lincoln	
Lowe	6,582 25	48 00	133 62		6,763 87		101 93	15 30	28 19	2 73	12 83		84	4 80														174 01	Lowe	
Atypical	1,760 00				1,760 00		25	2 22	6 15		68		6 70															25 22	Atypical	
Boys' Vocational	8,163 88				8,163 88		18 28	7 20	1 55		63		8 46	16 44														1,617 01	Boys' Vocational	
Girls' Vocational	7,045 25				7,045 25								7 31															222 26	Girls' Vocational	
Evening, High	4,389 00				4,389 00		135 00	39 43	25 44	13 20	53 58			80 83														465 26	Evening, High	
Evening, Bell	2,043 00				2,043 00			1 51	2 93	5 26	8 49																	33 70	Evening, Bell	
Evening, Highland	805 00				805 00			7 20	78		2 10																	11 45	Evening, Highland	
Evening, Morse	131 00				131 00		53 83																					64 28	Evening, Morse	
Evening, Industrial	286 50				286 50																							1 89	Evening, Industrial	
Evening, Practical Arts	545 00				545 00																							2 50	Evening, Practical Arts	
Administration						\$,772 93	15 33	23 14		8 82	5 18																	2 60	Administration	
Miscellaneous							263 63	546 54	77 43	52 04	227 90	31 73	180 57	54 40	6 89													563 65	Miscellaneous	
Dental	900 00				900 00																									Dental
Totals	\$363,341 85	\$1,824 25	\$10,178 00	\$5,046 50	\$380,390 60	\$8,772 93	\$7,985 16	\$2,210 32	\$1,331 27	\$598 27	\$1,230 09	\$674 85	\$427 53	\$1,344 47	\$2,059 00	\$443 14	\$1,236 94	\$498 61	\$1,135 89	\$520 11	\$445 53	\$330 70	\$1,091 62	\$2,480 47	\$5,283 31	\$808 68	\$696 27	\$568 65	\$33,881 93	Totals

*Hardware, \$663 30; Lumber, \$1,395 70

†Maintenance of automobile, \$481 05

Gardens	\$456 82	For supplies	\$33,881 93
Maps, charts	96 91	For salaries	8,772 93
Baths	201 50		
Miscellaneous	1,132 71	Total spent from Contingent	\$42,654 86
Express	154 75		
Stationery	357 00		
Piano tuning and repairs	27 00		
Typewriter supplies	53 73		



SUMMARY OF STATISTICS.

1.—POPULATION AND SCHOOL CENSUS.

Population, state census, 1895.....	52,200
Population, United States census, 1900.....	61,643
Population, state census, 1905.....	69,272
Population, United States census, 1910.....	77,236
Population, state census, 1915.....	86,854
Children between five and sixteen years of age, April, 1917, by school census.....	15,465

2.—SCHOOL BUILDINGS.

	1916.	1917.	Change.
Number of school buildings in June	27	28	+1
Number of classrooms in use in June.....	313	323	+10
Valuation of school property.....	\$1,901,700	\$2,062,100	+\$160,400

3.—TEACHERS.

	1916.	1917.	Change.
In high schools	77	70	—7
In junior high schools.....	35	65	+30
In grammar schools.....	152	137	—15
In primary schools.....	105	103	—2
In kindergartens.....	8	8	0
Total in elementary schools.....	265	248	—17
Vocational school for boys.....	7	8	+1
Vocational school for girls.....	9	9	0
Atypical classes.....	2	2	0
Cadet teachers.....	5	9	+4
Special	12	12	0
Total	412	423	+11

4.—ATTENDANCE FOR YEAR.

	*1916.	*1917.	Change.
Entire enrollment for the year.....	14,647	13,967	—680
Average number belonging.....	13,191	12,770	—421
Average number attending.....	12,323	11,933	—390
Per cent. of daily attendance.....	93.4	93.7	+0.3
High school graduates.....	348	340	—8
Grammar school graduates.....	781	528	—253

5.—COST OF SCHOOL MAINTENANCE.

	*1916.	*1917.	Change.
Salaries of teachers.....	\$356,198 06	\$367,869 15	+\$11,671 09
Salaries of officers.....	7,750 00	8,268 62	+518 62
Cost of books and supplies.....	25,378 63	29,221 07	+3,842 44
Cost of light.....	6,232 57	5,428 62	—803 95
Cost of janitors' services	34,576 78	35,717 91	+1,141 13
Cost of fuel.....	20,196 92	25,487 12	+5,290 20
Total cost of day and evening schools	451,142 99	471,992 49	+20,849 50
Per capita cost.....	34 20	34 91	+0 71
Cost of high school instruction	84,379 05	83,933 00	—446 05
Per capita cost.....	40 98	47 05	+6 07

*School year.

6.—MISCELLANEOUS.

	*1916.	*1917.	Change.
Paid for new school buildings	\$81,183 73	\$94,420 27	+\$13,236 54
Repairs and permanent im- provements	21,634 32	27,283 00	+5,648 68
Total school expenditures.....	553,961 04	593,695 76	+39,734 72
Number of dollars spent to maintain schools out of every \$1,000 of valua- tion	5 69	5 95	+0 26
Valuation of city.....	79,304,329 00	78,921,472 00	—382,857 00
Number of dollars spent for all school purposes out of every \$1,000 of valua- tion	6 98	7 52	+0 54
* School year.			

Cost of the Schools.

The total amount spent for the maintenance of the schools of Somerville for the school year ending June 30, 1917, is \$471,992.49.

This includes the sums spent for care of school buildings, including janitors' services, fuel, light, and school telephones; the amount paid for salaries of officers, and the amount spent for school supplies; and the sum paid for salaries of teachers.

The expenditures for *care of school buildings* is wholly in charge of the City Government.

The amount paid for janitors is.....	\$35,717 91
The cost of fuel is.....	25,487 12
The cost of light is.....	5,428 62
<hr/>	
A total cost of.....	\$66,633 65
The cost per capita.....	4 93
Cost of repairs.....	27,283 00

The second important expenditure is wholly under the control of the School Committee and is covered by what is known as the "*School Contingent*" appropriation. The following is the itemized account:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational	Elementary	High and Vocational	Elementary
Officers' Salaries	\$8,268.62				
Office Expenses	1,925.73				
Textbooks.....	8,304.88	\$2,623.42	\$5,677.71		\$3.75
Stationery and Supplies and Other Expenses of Instruction	1,782.72	8,402.16	8,059.61	\$288.66	32.29
Miscellaneous (Tuition, etc.)...	2,207.74	609.36	1,334.80	252.05	11.53
<hr/>		<hr/>		<hr/>	
Total.....	\$37,489.69	\$11,634.94	\$15,072.12	\$540.71	\$47.57

The third, and by far the largest, element of the cost of schools is the sum spent for the *salaries of teachers*. This expenditure is under the control of the School Committee.

The following statement shows the distribution of the sums paid for salaries:—

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational	Elementary	High and Vocational	Elementary
Supervisors	\$5,477.25	\$640.19	\$4,837.06	.....	.....
Principals	37,007.00	7,696.00	28,090.00	\$541.00	\$680.00
Teachers	345,384.90	99,203.422	219,448.98	4,357.00	2,375.50
Total	\$367,869.15	\$107,539.61	\$252,376.04	\$4,898.00	\$3,055.50

The *total outlay* for all *school purposes* includes all of the preceding and the sums spent for schoolhouse repairs and new buildings.

The *total outlay* for the school year ending June 30, 1917, is as follows:—

Care	66,633 65
Contingent	34,489 69
Salaries	367,869 15
Total for school maintenance.....	\$471,992 49
Paid for repairs.....	27,283 00
Paid for new buildings	94,420 27
Total for all school purposes.....	\$593,695 76

Each dollar of the sum spent for the support of schools has been divided in the following proportion:—

	1912.	1913.	1914.	1915.	1916.	1917.
Janitors' salaries.....	\$0.071	\$0.082	\$0.079	\$0.074	\$0.077	\$0.076
Heat and light.....	0.054	0.055	0.060	0.054	0.059	0.063
Administration	0.020	0.018	0.018	0.017	0.017	0.018
School supplies.....	0.076	0.065	0.065	0.067	0.058	0.062
Teachers' salaries	0.779	0.780	0.778	0.788	0.789	0.778
Total	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

Per Capita Cost. The proper method of comparison of the cost of schools year by year is to consider the sum spent for each pupil in the average membership. In this computation we exclude the cost of evening schools, and the vocational schools. The following shows:—

THE PER CAPITA COST OF DAY SCHOOLS FOR 1916 AND 1917.

	High Schools.			Grammar and Primary Schools.			All Day Schools.		
	1916.	1917.	Change	1916.	1917.	Change	1916.	1917.	Change
Instruction.....	\$41.71	\$47.89	+\$6.18	\$23.19	\$24.62	+\$1.43	\$26.11	\$27.88	+\$1.77
Supplies.....	4.84	5.43	+0.59	1.27	1.24	-0.03	1.84	2.15	+0.31
Care.....	6.11	7.52	+1.41	4.05	4.74	+0.69	4.38	4.81	+0.43
Total.....	\$52.66	\$60.84	+\$8.18	\$28.51	\$30.60	+\$2.09	\$32.33	\$34.84	+\$2.51

Including the cost of maintenance of evening schools, the per capita cost is as follows:—

	1913.	1914.	1915.	1916.	1917.
Cost of Instruction	\$24 54	\$24 55	\$24 90	\$26 25	\$26 72
Cost of Supplies	1 91	1 89	2 03	1 88	2 05
Cost of care	4 18	4 27	3 92	4 41	4 61
Total	\$30 63	\$30 71	\$30 85	\$32 54	\$33 38

An examination of these tables shows that we have paid \$6.18 more for the instruction of each pupil in the High School than in 1916, and fifty-nine cents more per pupil for supplies.

The grammar and primary schools have cost \$1.43 more per pupil for instruction, and three cents less for supplies.

The amount spent for the school year 1917 was \$5.95, or 26 cents more than was spent in 1916. The amount yielded for each child in the average membership of the schools for 1917, not including the vocational schools, was \$33.38.

Teachers' Salaries.

The salaries paid to teachers in January, 1918, are as follows:—

1 man	\$3,350	5 men, 6 women	\$1,000
1 man	2,600	24 women	950
1 man	2,350	9 women	925
1 man	2,200	15 women	900
1 man	2,150	194 women	850
10 men, 2 women	2,100	1 man, 19 women	800
4 men	2,000	13 women	750
1 woman	1,850	1 man, 7 women	700
5 men	1,800	8 women	650
1 man	1,650	16 women	600
1 man	1,600	4 women	575
1 man	1,500	8 women	550
2 men	1,400	12 women	500
2 women	1,350	2 women	450
2 men	1,300	1 woman	425
4 men	1,250	2 women	400
2 men, 2 women	1,200	2 women	360
4 men, 5 women	1,100	2 women	300
1 man, 9 women	1,050	9 women	206

SIGHT AND HEARING.

The following gives the results of the eye and ear tests:—

Eyes.

	1917.	1916.	Change.
Tested	11,739	11,869	—130
Defective	1,509	1,536	—27
Per cent. defective	12.9	12.9	—0
Notices sent to parents	1,035	1,052	—17
Professionally treated	205	152	—53

Ears.

	1917.	1916.	Change.
Tested	12,435	12,492	—57
Defective	239	271	—32
Per cent. defective	1.9	2.2	—0.3
Notices sent to parents	159	177	—18
Professionally treated	28	24	—4

Table 1. — Schoolhouses.

NAME	No. of Classrooms	No. of Sitings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
High School } West	a43	1,786	*	Brick	Steam	Fan	\$390,000	1895	8 rooms added 1906
} East			.....	Brick	Steam	Fan		1871	30 rooms added 1913
†Prescott	23	861	49,310	Brick	Steam	Fan	143,200	1867	11 rooms added 1916
East Somerville Junior High	13	622	24,517	Brick	Steam	Gravity	55,500	1889	4 rooms added 1894
Knapp	12	577	27,236	Brick	Steam	Gravity	83,600	1891	
Pope	12	488	29,860	Brick	Steam	Fan	59,600	1874	
Bell	12	573	24,000	Brick	Steam	Gravity	48,000	1871	{ 4 rooms added 1882
Edgerly	14	626	28,800*	Brick	Steam	Gravity	93,400	1891	{ 4 rooms added 1892
Glines	23	824	30,632	Brick	Steam	Gravity	102,000	1866	5 rooms added 1896
†Forster	16	772	35,586	Brick	Steam	Gravity	78,000	1886	6 rooms added 1899
Winter Hill Junior High	17	793	20,450	Brick	Steam	Gravity	58,600	1898	{ 4 rooms added 1894
Bingham	12	520	29,000	Brick	Furnace	Furnace	59,000	1869	{ 8 rooms added 1904
Carr	12	533	23,260	Brick	Steam	Gravity	71,600	1880	6 rooms added 1890
Morse	12	8,975	.....	Brick	Steam	Gravity	\$1,242,500	.....	4 rooms added 1891
Highland	209		.....					
Carried forward									

(a) There are besides, four recitation rooms, five laboratories, two lecture rooms, six manual training rooms, four manual training supply rooms, lockers, etc., three drawing rooms, two domestic science rooms, one domestic arts room, three typewriting rooms, two libraries, two supply rooms, five teachers' rooms, five offices, one luncheon room, one teachers' dining room, one hall, and six toilet rooms, making fifty-three rooms devoted to other than classroom uses.

*Buildings are located on Central Hill Park, which contains 13 1-10 acres.

†2 Buildings.

Table 1. (Concluded). — Schoolhouses.

NAME	No. of Classrooms	No. of Seatings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
Brought forward.....	209	8,975	.....	.....	.....	.....	\$1,242,500	.....
Hodgkins	14	568	35,034	Brick	Steam	Gravity	98,700	1896	
West Somerville Junior High	10	577 †	.....	Brick	Steam	Fan	85,000	1917	
Cutler	18	779	53,729	Brick	Steam	Fan	107,700	1912	6 rooms added 1915
Bennett	12	483	21,964	Brick	Steam	Gravity	58,000	1902	
Hanscom.....	10	482	16,767	Brick	Steam	Fan	70,500	1897	4 rooms added 1907
Brown	10	490	26,733	Brick	Steam	Gravity	74,600	1901	4 rooms added 1907
Proctor.....	8	343 *	.....	Brick	Steam	Gravity	44,000	1905	
Burns.....	8	389	16,080	Brick	Steam	Gravity	42,000	1886	4 rooms added 1899
Lowe.....	8	386	21,650	Brick	Steam	Gravity	48,000	1903	
Baxter	6	245	11,000	Brick	Steam	Gravity	38,300	1901	
Perry	6	298	46,080	Brick	Steam	Gravity	43,500	1899	
Girls' Vocational	6b	60	8,850	Wood	Furnace	Furnace	9,000	1911	
Boys' Vocational	4	50	30,155	Wood	Furnace	Furnace	43,000	1884	
Cummings	4	196	11,300	Wood	Furnace	Furnace	14,600	1884	
Durell.....	4	189	13,883	Brick	Steam	Gravity	21,900	1894	
Lincoln	4	189	17,662	Wood	Steam	Gravity	20,800	1885	
Total.....	341	14,699	.....	.....	.....	.....	\$2,062,100	.....

(b) There are besides one teachers' dining room, one stock room, one fitting room, one infirmary, two coat rooms, one janitor's room, and a principal's office.

*State property. †Land included in City Ledge property.

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1916-17.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total.
	Instruction and Supervision.	Supplies.	Care.	
High	\$85,441.80	\$9,690.42	\$13,416.59	\$108,548.81
E. Somerville Jr. High	12,327.18	2,679.35	1,658.07	16,664.60
Winter Hill Jr. High..	15,781.58	2,864.34	1,943.51	20,589.43
Prescott	8,479.23	517.01	2,249.01	11,245.25
Hanscom.....	9,586.74	328.63	1,692.04	11,607.41
Bennett	10,856.84	604.21	2,496.41	13,957.46
Baxter	5,584.11	197.21	1,303.85	7,085.17
Knapp	13,475.16	903.70	2,047.86	16,426.72
Perry	5,167.73	114.00	1,382.92	6,664.65
Pope	11,543.06	713.48	2,055.97	14,312.51
Bell.....	10,351.31	591.50	1,693.53	12,636.34
Cummings.....	3,416.99	109.72	1,353.40	4,880.11
Edgerly	12,294.26	630.26	1,827.92	14,752.44
Glines.....	14,099.18	527.96	2,518.75	17,145.89
Forster	6,827.82	279.31	2,180.54	9,287.67
Bingham	15,265.02	680.52	2,511.73	18,457.27
Carr	17,163.67	696.59	2,510.96	20,371.22
Morse	12,712.54	684.82	1,838.17	15,235.53
Proctor.....	6,562.67	248.94	1,560.63	8,372.24
Durell.....	3,401.93	112.08	1,034.02	4,548.03
Burns	8,189.25	395.24	1,568.99	10,153.48
Brown.....	11,185.12	522.00	1,616.04	13,323.16
Highland.....	12,747.39	68.51	2,105.27	15,534.17
Hodgkins.....	12,885.31	766.64	1,649.34	15,301.29
Cutler	16,106.92	1,060.49	3,828.36	20,995.77
Lincoln.....	3,248.98	219.62	1,161.03	4,629.63
Lowe	6,599.97	334.32	1,511.08	8,445.37
Atypical.....	1,764.93	44.17	280.83	2,089.93
Boys' Vocational.....	7,784.97	1,177.17	1,186.67	10,148.81
Girls' Vocational.....	7,054.67	319.71	1,040.08	8,414.46
Evening	8,231.44	526.15	1,410.08	10,167.67
Total.....	\$376,137.77	\$29,221.07	\$66,633.65	\$471,992.49

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1916-17.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$47.89	\$5.43	\$7.52	\$60.84
E. Somerville Jr. High..	34.72	7.55	4.67	46.94
Winter Hill Jr. High...	34.01	6.18	4.19	44.38
Prescott	21.09	1.29	5.59	27.97
Hanscom	22.66	.78	4.00	27.44
Bennett.....	25.55	1.42	5.87	32.84
Baxter.....	26.34	.93	6.15	33.42
Knapp.....	27.67	1.86	4.21	33.74
Perry.....	22.18	.49	5.94	28.61
Pope	21.82	1.35	3.89	27.06
Bell	25.12	1.43	4.11	30.66
Cummings	19.87	.64	7.87	28.38
Edgerly.....	24.06	1.24	3.58	28.88
Glines	23.34	.87	4.17	28.38
Forster.....	22.68	.93	7.24	30.85
Bingham	23.48	1.05	3.86	28.39
Carr	26.08	1.06	3.82	30.96
Morse	23.94	1.29	3.46	28.69
Proctor	20.64	.78	4.91	26.33
Durell	21.67	.71	6.59	28.97
Burns	24.02	1.16	4.60	29.78
Brown	23.85	1.11	3.45	28.41
Highland	25.24	1.35	4.17	30.76
Hodgkins.....	26.19	1.56	3.35	31.10
Cutler	23.21	1.53	5.51	30.25
Lincoln	19.69	1.33	7.04	28.06
Lowe	19.30	.98	4.42	24.70
Atypical	58.83	1.47	9.36	69.66
Evening	10.95	.70	1.88	13.53
Grammar and Primary..	24.62	1.24	4.74	30.60
All schools.....	26.72	2.05	4.61	33.38
Boys' Vocational.....	162.18	24.52	24.72	211.42
Girls' Vocational.....	125.98	5.71	18.57	150.26

Table 4. — Annual Cost of Maintaining the Schools.

FOR A SERIES OF YEARS.

Amounts are given to the nearest dollar and include what has been paid for maintaining day and evening schools of all grades.

YEAR.	Average Membership.	FROM SCHOOL APPROPRIATION.		SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.				Total.
		Instruction and Supervision.	School Supplies.	Light.	Heating.	Janitors.	School Tele-phones.	
1886	4,985	\$83,542	\$6,676	\$624	\$4,929	\$4,194	.....	\$99,865
1887	5,198	86,713	7,526	765	6,475	5,084	.....	106,563
1888	5,488	88,967	7,421	953	7,121	5,892	.....	110,354
1889	5,956	96,466	9,903	805	6,081	6,448	.....	119,703
1890	6,486	104,184	10,371	1,004	5,586	7,539	.....	128,684
1891	6,502	114,066	13,899	1,047	8,032	8,544	.....	145,588
1892	7,035	124,232	12,944	1,064	7,148	9,794	.....	155,183
1893	7,217	128,720	10,137	1,014	8,312	10,160	.....	158,333
1894	7,212	132,919	10,919	958	9,673	10,686	.....	165,155
1895	7,617	144,113	15,063	1,398	8,796	11,581	.....	180,951
1896	8,077	161,551	17,601	1,469	9,962	14,160	.....	204,743
1897	8,589	180,222	14,815	1,920	10,065	16,251	.....	223,273
1898	9,085	189,244	14,986	2,075	9,767	17,393	.....	233,465
1899	9,502	197,660	16,131	2,472	10,821	17,831	.....	244,915
1900	9,823	212,863	15,735	1,729	10,840	19,236	.....	260,403
1901	9,991	226,556	18,707	1,731	13,723	20,078	.....	280,796
1902	10,402	234,210	19,386	1,803	10,489	20,859	.....	286,747
1903	10,719	242,964	20,873	2,015	18,052	21,042	.....	304,946
1904	11,094	255,481	21,411	1,436	15,315	22,024	\$237	315,904
1905	11,543	259,597	20,137	4,345	15,167	21,949	482	321,677
1906	11,762	266,197	22,589	2,875	14,162	23,143	380	329,346
1907	11,909	273,107	24,317	3,760	15,236	23,999	433	340,852
1908	12,159	294,400	26,377	3,831	14,912	25,245	386	365,151
1909	12,423	298,839	21,819	4,071	14,798	26,072	550	366,149
1910	12,131	298,420	26,292	6,109	14,003	25,803	595	371,222
1911	11,871	300,393	24,968	4,751	14,907	26,031	529	371,579
*1912	11,710	306,709	30,319	5,995	15,676	30,219	512	389,431
*1913	11,856	320,744	25,877	5,842	16,055	32,939	542	402,092†
*1914	12,320	338,587	26,843	6,448	18,952	33,711	624	425,165
*1915	12,903	357,581	29,389	5,755	18,366	32,674	213	443,978
*1916	13,191	363,948	26,098	6,233	20,197	34,667	.....	451,143
*1917	12,770	376,138	29,221	5,429	25,487	35,718	.....	471,993

* Facts are given for school year, July 1 to June 30, inclusive.

† \$92.50 included for rental of church for schoolhouse purposes in Ward 7.

Table 5. — Annual Cost Per Capita of Maintaining Schools.

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Water, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
1886	\$16 76	\$1 34	\$1 94	\$20 03	\$26,003,200	.00384
1887	16 68	1 45	2 37	20 50	27,469,300	.00388
1888	16 21	1 36	2 54	20 11	28,756,400	.00384
1889	16 20	1 66	2 24	20 10	30,004,600	.00399
1890	16 06	1 60	2 18	19 84	32,557,500	.00395
1891	17 54	2 14	2 71	22 39	36,843,400	.00395
1892	17 66	1 84	2 56	22 06	38,093,100	.00407
1893	17 84	1 40	2 70	21 94	41,773,600	.00379
1894	18 43	1 51	2 96	22 90	44,142,900	.00374
1895	18 92	1 98	2 86	23 76	46,506,300	.00390
1896	20 00	2 18	3 17	25 35	49,013,050	.00418
1897	20 98	1 73	3 29	26 00	50,173,775	.00444
1898	20 83	1 65	3 22	25 70	50,739,700	.00460
1899	20 80	1 70	3 28	25 78	51,202,350	.00478
1900	21 67	1 60	3 24	26 51	52,513,400	.00496
1901	22 67	1 87	3 56	28 10	53,924,200	.00521
1902	22 52	1 86	3 19	27 57	55,485,370	.00517
1903	22 67	1 95	3 84	28 46	56,981,360	.00535
1904	23 03	1 93	3 52	28 48	58,056,700	.00544
1905	22 50	1 74	3 63	27 87	59,146,600	.00544
1906	22 63	1 92	3 45	28 00	60,371,500	.00546
1907	22 93	2 04	3 65	28 62	61,527,750	.00554
1908	24 21	2 17	3 65	30 03	63,158,400	.00578
1909	24 06	1 76	3 66	29 48	63,659,210	.00575
1910	23 05	2 03	3 59	28 67	66,376,338	.00559
1911	23 50	1 95	3 62	29 07	67,284,066	.00552
*1912	23 61	2 12	3 99	29 72	69,632,540	.00556
*1913	24 54	1 91	4 18	30 63	71,848,811	.00559
*1914	24 55	1 89	4 27	30 71	74,887,800	.00568
*1915	24 90	2 03	3 92	30 85	77,153,500	.00575
*1916	26 25	1 88	4 41	32 54	79,304,329	.00569
*1917	26 72	2 05	4 61	33 38	78,921,472	.00595

* Facts given for school year, July 1 to June 30, inclusive.

Table 6. — Amount Spent Annually for all School Purposes.

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1886	\$15,515	\$8,706	\$99,865	\$114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	223,273	290,400
1898	49,983	21,274	233,465	304,722
1899	72,516	15,637	244,915	333,068
1900	51,232	21,745	260,403	333,380
1901	49,203	11,000	280,796	340,999
1902	56,501	13,079	286,747	356,327
1903	59,822	12,261	304,946	377,029
1904	23,703	18,209	315,904	357,816
1905	51,987	8,306	321,677	381,970
1906	38,457	11,951	329,346	379,754
1907	31,804	18,008	340,852	390,664
1908	18,271	17,792	365,151	401,214
1909	828	21,195	366,149	388,172
1910	.....	21,864	371,222	393,086
1911	7,149	18,911	371,579	397,639
*1912	35,527	14,163	389,431	439,121
*1913	34,866	19,341	402,092	456,299
*1914	120,913	19,700	425,165	565,778
*1915	9,745	28,212	443,978	481,935
*1916	81,184	21,634	451,143	553,961
*1917	94,420	27,283	471,993	593,696

* Facts are given for school year, July 1 to June 30, inclusive.

TABLE 7. — POPULATION AND SCHOOL CENSUS.

1842	1,013	1895	52,200	1909	75,500
1850	3,540	1900	61,643	1910	77,236
1860	8,025	1901	63,000	1911	78,000
1865	9,366	1902	65,273	1912	80,000
1870	14,693	1903	67,500	1913	81,000
1875	21,594	1905	69,272	1914	85,000
1880	24,985	1906	70,875	1915	86,854
1885	29,992	1907	72,000	1916	88,000
1890	40,117	1908	75,500	1917	90,000

School Census.

Number of children between 5 and 15 years of age, inclusive, April 1, 1917:

Ward 1	2,249
Ward 2	3,112
Ward 3	1,271
Ward 4	1,396
Ward 5	1,954
Ward 6	2,540
Ward 7	2,943
Total	15,465

	1915.	1916.	1917.
In public schools (school registration)	11,867	11,115	13,200
In private schools (school registration)	1,981	2,057	2,357
Total	13,848	13,172	15,557

Number of compulsory school age, 7 to 13, inclusive:—
According to registration:—

In public schools, males	4,315
females	4,414
	<hr/>
	8,729

According to census:—

In public schools, males	5,051
females	5,256
	<hr/>
	10,307

According to census:—

Number of illiterate minors	115
Children between 5 and 7, out of school	1,575
Children between 14 and 16, at work	254
Children between 7 and 14, out sick	51
Children between 7 and 14, out for other causes	80

Table 8.—Attendance of the Public Schools for the School Year
1916-17.

Rooms used for Classrooms in June	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in October.	No. Attending in June.
44	High	1,867	1,784	1,595	89.4	1,832	1,608
12	E. Som. Jr. High.....	391	355	333	93.8	381	325
12	Winter Hill Jr. ".....	527	464	442	95.2	514	429
9	Prescott	459	402	373	92.8	419	391
12	Hanscom	450	423	385	91.0	427	417
12	Bennett.....	467	425	404	95.1	428	427
6	Baxter.....	241	212	199	94.1	210	211
13	Knapp.....	537	487	462	94.8	496	469
6	Perry	257	233	219	94.0	245	239
12	Pope.....	578	529	496	93.7	533	514
10	Bell	459	412	391	94.9	436	372
4	Cummings	180	172	162	94.2	169	177
12	Edgerly.....	589	511	471	92.2	521	487
13	Glines	665	604	570	94.7	611	610
6	Forster	338	301	282	93.7	320	295
16	Bingham	714	650	604	92.9	654	640
18	Carr	712	658	622	94.5	679	629
12	Morse	576	531	508	95.6	556	500
7	Proctor	339	318	296	93.1	325	327
4	Durell	169	157	147	93.6	153	157
8	Burns	371	341	318	93.2	353	342
10	Brown	506	469	440	93.8	479	442
12	Highland	553	505	480	95.0	526	472
13	Hodgkins.....	562	492	482	97.9	523	482
16	Cutler	719	694	658	94.8	670	635
4	Lincoln	196	165	154	93.3	178	161
8	Lowe	373	342	320	93.5	335	341
2	Atypical	30	30	26	86.6	30	29
4	Boys' Vocational.....	74	48	45	93.7	48	46
6	Girls' Vocational.....	68	56	49	87.5	58	47
323	Total.....	13,967	12,770	11,933	93.7	13,109	12,221
313	Total for 1915-16.....	14,647	13,191	12,323	93.4	13,078	12,792

Table 9.— Statistics of High School for School Year October 2, 1916,
to June 28, 1917.

Number of teachers, including head master	76
Number of days school kept	168
Number enrolled	1,973
Average number belonging	1,783.8
Average daily attendance	1,595.3
Per cent. of attendance	93.9
Tardiness	2,111
Dismissals	752
In Class 1921-A February, 1917	93
June	82
Per cent. of loss	11.8
In Class 1920-B October, 1916	350
June	307
Per cent. of loss	12.3
In Class 1920-A October, 1916	202
June	157
Per cent. of loss	22.3
In Class 1919-B October, 1916	394
June	336
Per cent. of loss	14.7
In Class 1919-A October, 1916	140
June	108
Per cent. of loss	22.9
In Class 1918-B October, 1916	295
June	260
Per cent. of loss	11.9
In Class 1918-A October, 1916	112
June	103
Per cent. of loss	8.04
In Class 1917-B October, 1916	239
June	225
Per cent. of loss	5.9
In Class 1917-A October, 1916	84
February	80
Per cent. of loss	4.8
Specialstudents, October, 1916	16
June	30
Total, October, 1916	1,832
June	1,608
Per cent. of loss	12.2
Number of graduates, male	135
Number of graduates, female	205
Total	340
Average age, male graduates	18 yrs. 4 mos.
Average age, female graduates	18 yrs.
Number entering college	52
Number of graduates entering technical schools	12
Number of graduates entering normal schools	17
Cost of instruction	\$83,933 00
Cost of supplies	8,545 71
Total cost	92,478 71
Per capita cost of instruction	47 05
Per capita cost of supplies	4 79
Total cost per capita	51 84

Table 10. — Pupils by Grades, June, 1917.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.
		Men.	Women.		Boys.	Girls.	Total.	
			Regular.	Assistants.				
High	Special				19	11	30	
	Thirteenth				155	173	328	
	Twelfth				148	220	368	
	Eleventh				231	262	493	
	Tenth				181	208	389	
	Total	21	55		734	874	1,608	
Junior High	Tenth				59	80	139	
	Ninth				124	149	273	
	Eighth				161	181	342	
	Total	7	27	1	344	410	754	
Grammar	Ninth	9	13		181	190	371	
	Eighth		16		269	308	577	
	Seventh		26		470	494	964	
	Sixth		27		517	499	1,016	
	Fifth		29		556	624	1,180	
	Fourth		32	2	595	655	1,250	
	Total Grammar.....	9	143	2	2,588	2,770	5,358	
Primary	Third.....		31	2	646	688	1,334	
	Second		31		686	630	1,316	
	First.....		35	6	758	715	1,473	
	Total Primary		97	8	2,090	2,033	4,123	
	Total Grammar and Primary.....	9	240	10	4,678	4,803	9,481	
	Kindergarten		4	4	114	102	216	
	Special	2	10		27	13	40	
	Cadets.....		4					
	Atypical.....		2		16	13	29	
	Boys' Vocational...	6			46		46	
Girls' Vocational...		8			47	47		
Grand Total.....	45	350	15	5,959	6,262	12,221		

Table 11. — Pupils in High and Grammar Schools, 1916-1917.

	High School.	Grammar and Primary Schools.	Kindergartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment	1,867	11,686	242	74	68	30	13,967
Average membership	1,784	10,652	200	48	56	30	12,770
Average attendance	1,595	10,034	184	45	49	26	11,933
Per cent. of attendance	89.4	94.2	92.0	93.7	87.5	86.6	93.7
Number cases of tardiness	2,111	4,740	.....	152	304	18	7,325
Number cases of dismissal	752	2,558	.....	10	.....	12	3,332
Number cases of punishment .....	.....	139	.....	.....	.....	2	141
Membership, October, 1916.....	1,832	10,949	192	48	58	30	13,109
Membership, June, 1917.....	1,608	10,275	216	46	47	29	12,221

Table 12. — Number of Pupils Admitted to Grade 1 in September and February.

SCHOOL.	1914-15		1915-16		1916-17
	Sept.	Feb.	Sept.	Feb.	Sept.
Prescott	58	11	45	23	40
Hanscom.....	82	24	66	20	85
Bennett.....	65	9	73	26	72
Baxter.....	32	17	31	15	35
Knapp.....	9	15	27	14	19
Perry.....	33	12	64	12	27
Pope.....	42	6	36	8	46
Bell.....	.....	.....	.....	.....	.....
Cummings.....	61	15	51	13	40
Edgerly.....	33	10	26	17	33
Glines.....	42	31	43	26	57
Forster.....	42	21	44	33	25
Bingham.....	57	27	51	25	52
Carr.....	55	16	56	21	51
Morse.....	44	23	61	23	65
Proctor.....	43	8	25	16	38
Durell.....	3	8	23	11	21
Burns.....	58	27	16	17	59
Brown.....	47	20	47	22	70
Highland.....	.....	.....	.....	.....	.....
Hodgkins.....	50	25	19	23	41
Cutler.....	0	0	43	0	73
Lincoln.....	45	30	44	18	55
Lowe.....	65	12	64	77	42
Total.....	966	367	955	460	1,046
Grand Total.....	1,333	.....	1,415	.....	1,046

Table 13-A. — Grammar School Graduates, 1917.

SCHOOLS.	Number receiving Diplomas.	Number Certified for High School.		Number Entering High School.	
		Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
Knapp	67	4	63	4	49
Bell.....	94	7	86	4	61
Carr	55	2	45	1	35
Morse.....	66	4	62	.....	45
*Brown	48	3	45	3	36
*Highland.....	119	9	105	7	81
*Hodgkins	43	1	25	1	21
*Cutler.....	36	5	31	4	25
Total.....	528	35	462	24	353

* Entered West Somerville Junior High School.

Table 13-B. — Junior High School Graduates, 1917.

SCHOOLS.	Number promoted from Junior High School to Sophomore class, Senior High School.		Number entering Senior High School Sophomore class from Junior High Schools.	
	Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
East Somerville Junior.....	19	32	15	28
Winter Hill Junior	20	54	13	50
Total.....	39	86	28	78

Table 14. — Comparative Statistics of the Attendance Department for the School Year 1916-1917.

	1916.	1917.	Change.
Number of visits to the schools	819	649	—170
Number of visits to the homes	1,250	1,348	+98
Number of cases investigated	1,357	1,472	+115
Number of cases found to be truancy or absenteeism	360	308	—52
Number of different pupils who were tru- ants or habitual absentees	256	240	—16
Number who were truants for the first time	188	195	+7
Number who were truants for the second time	49	36	—13
Number who were truants for three or more times	19	9	—10
Number of girls who were truants or ab- sentees	45	45	
Number of cases of parental neglect of chil- dren found and reported to charitable institutions	5	6	+1
Number of cases of removal of children from the custody of parents by order of the court	2	5	+3
Number of visits to mercantile or manu- facturing establishments	37	80	+43
Number of minors found to be working without employment certificates	56	120	+64
Number of working certificates investi- gated . . . . .	....	128	....
Number of employment certificates issued to boys	357	528	+171
Number of employment certificates re- issued to boys	202	167	—35
Number of employment certificates issued to girls	258	355	+97
Number of employment certificates re- issued to girls	131	163	+32
Number of educational literate certificates issued to minors over 16 years of age	1,390	1,411	+21
Number of newspaper licenses issued to boys 12 to 16 years of age	185	143	—42
Number of transfer cards investigated	1,449	1,427	—22
Number of truants in the County Training school at the close of the year	18	17	—1
Amount paid for board of truants	\$885.26	\$837.56	—\$47.70
Salary of Attendance Officer, Benjamin R. Jones	\$1,350.00	\$1,500.00	+\$150.00

Table 14. (Continued).—Comparative Statistics of the Attendance
Department.
For School Year 1916-1917.

Disposition of truancy and absenteeism cases:—

Warned and returned to school.....	153
Transferred to other schools.....	8
Obtained certificates (14 to 16 years).....	26
Left school (over 16 years).....	10
Removed from city.....	19
Brought before court and returned to school.....	5
Brought before court and sent to Training School.....	7
Returned to Training School for breaking parole.....	1
Parents brought before court for keeping children out of school (convicted)	3
Sent to Lyman School	3
Given in charge of State Board of Charity	1
Given in charge of Society Prevention of Cruelty to Children	3
Given in charge of Home for Destitute Catholic Children	1
	240

Table 14-A. — Truancies and Absenteeism by Ages and Grades.

GRADES.	BY AGES.											Totals.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.....	4	10	4	1	.....	.....	.....	.....	.....	.....	.....	19
II.....	1	4	10	3	.....	.....	1	.....	.....	.....	.....	19
III.....	5	13	8	6	2	1	.....	.....	.....	35
IV.....	1	6	9	7	3	3	3	.....	.....	32
V.....	6	16	8	7	.....	.....	.....	37
VI.....	3	10	11	19	6	3	.....	52
VII.....	2	11	21	13	6	.....	53
VIII.....	2	3	8	7	.....	20
IX.....	3	2	6	3	14
X.....	2	3	4	2	11
XI.....	1	2	3
XII.....	1	6	7
XIII.....
Ungraded..	3	.....	.....	1	1	.....	.....	.....	1	.....	6
Total.....	5	17	20	23	27	42	38	59	35	29	13	308

Table 14-B. — Truants and Absentees by Schools.

School.	No. of Truants
High	16
Prescott	25
Hanscom	14
Bennett	12
Baxter	5
Knapp	13
Perry	3
Pope	19
Bell	9
Cummings	2
Edgerly	13
Glines	4
Forster	2
Bingham	15
Carr	25
Morse	8
Proctor	5
Durell	4
Burns .....	.
Brown	7
Highland	5
Hodgkins	5
Cutler	4
Lincoln	3
Lowe	3
East Somerville Junior High	7
Winter Hill Junior High	1
St. Joseph's Parochial	41
Not attending school; found on street.....	41
Total	308

Table 15.— Attendance in Elementary Evening Schools from October, 1916, to March, 1917.

		Bell.	Highland.	Total.
Enrolled	Male	362	103	465
	Female	99	41	140
	Total	461	144	605
Ave. membership	Male	114	56	170
	Female	56	27	83
	Total	170	83	253
Ave. attendance.....	Male	80	40	120
	Female	44	27	71
	Total	124	67	191
Per cent. Att. out of No. belong- ing		72.9	80.7	75.5
Per cent. Att. out of No. en- rolled.....		26.9	46.5	31.6
Ave. No. of teachers.....	Male	1	2	3
	Female	13	3	16
	Total	14	5	19
No. of sessions		76	76	.....
Teachers, cost of		\$2,185.50	\$870.00	\$3,055.50
Janitors, fuel, supplies and lights, cost of		444.88	267.32	712.20
Total		\$2,630.38	\$1,137.32	\$3,767.70
Cost per pupil per evening		\$0.203	\$0.180	\$0.195
Cost per evening		34.61	14.96	49.57
Cost per pupil in ave. membership		15.47	13.70	14.89
Cost per pupil in ave. attendance.....		21.21	16.97	19.73

Table 15. (Concluded). — Evening High School, Season of 1916-1917.

	Male	Female	Total
Enrolled	381	254	635
Average membership	290	209	499
Average attendance	211	155	366
Number of teachers			24
Number of sessions			54
Cost of instruction	\$4,349	00	
Cost of janitors, fuel, supplies and light....	1,012	03	
			<hr/>
Total cost	\$5,361	03	
Cost per pupil per evening		\$0	20
Average attendance: October, 530; November, 405; December, 325; January, 260; February, 258; March, 418.			

Table 16. — Grammar School Graduates.

FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Ederly.	Pope.	Knapp.	Hodgkins.	Glines.	Carr.	Bingham.	Brown.	Cutler.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership Graduating.	Entered High School.	Per cent. Entering of those Graduating.
1890	54	106	45	56	57	39	36	39	45	27	38	31	40	174	318	6,062	5.24	184	57.86
1891	44	73	41	55	44	49	36	39	41	35	38	36	45	174	296	6,035	4.90	199	67.23
1892	41	36	75	49	45	46	36	38	39	37	37	47	47	30	370	6,525	5.67	228	61.62
1893	40	60	48	63	67	46	36	38	42	36	38	46	47	30	398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32	34	34	38	47	47	30	389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34	37	37	37	51	38	34	374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35	45	27	47	60	48	36	370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25	45	35	38	33	48	36	368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	35	38	47	48	36	382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	36	36	43	46	36	468	8,351	5.60	345	73.72
1900	36	45	43	31	43	47	44	34	42	36	36	35	43	36	434	8,689	4.99	317	73.00
1901	34	38	70	43	72	47	43	38	41	35	36	31	49	36	497	8,811	5.64	372	74.80
1902	41	48	61	45	67	46	35	31	32	40	51	31	47	36	497	9,328	5.33	350	70.40
1903	34	45	62	35	65	51	28	34	52	31	47	47	48	36	484	9,362	5.17	354	73.14
1904	31	35	84	46	79	44	36	38	40	36	43	31	51	36	512	9,739	5.26	367	71.68
1905	40	40	74	44	85	47	42	48	40	36	58	31	40	36	606	10,298	5.88	463	76.40
1906	35	54	67	44	109	49	44	48	61	40	43	33	40	36	640	10,209	6.22	474	74.10
1907	37	62	67	44	126	81	36	56	58	62	60	35	42	36	725	10,440	6.94	561	77.40
1908	44	51	71	71	88	50	64	66	61	42	58	36	40	36	742	10,410	7.13	551	74.26
1909	27	59	73	44	95	82	48	70	55	43	66	36	43	36	741	10,582	7.00	546	73.68
1910	30	53	72	63	96	68	56	80	62	32	57	39	50	36	743	10,451	7.10	521	70.12
1911	35	69	82	63	93	48	43	82	73	75	59	37	46	36	805	10,101	7.97	609	75.65
1912	40	75	79	56	90	70	62	79	62	33	43	47	45	39	781	9,806	7.96	538	68.88
1913	41	34	71	44	113	51	39	59	38	26	43	46	47	39	691	9,961	6.94	533	77.13
1914	62	72	66	38	85	65	47	58	26	28	61	51	47	35	741	10,098	7.32	587	79.21
1915	40	61	77	29	105	67	55	70	33	67	46	58	51	30	789	10,765	7.33	619	78.45
1916	53	56	90	46	96	64	55	69	29	36	55	60	38	34	781	10,998	7.10	599	76.70
1917	.....	94	.....	66	119	.....	.....	67	43	.....	55	.....	48	36	528	10,652	4.96	357	67.61
1,059	1,493	1,770	1,369	2,176	1,359	1,057	1,308	992	797	952	509	455	174	15,470	250,734	6.17	11,257	72.76	

Table 17. — Attendance Statistics.

FOR A SERIES OF YEARS.

DECEMBER.	ENROLLMENT.	Average Membership.	Average Attendance	Per cent. of Attendance	Number of Tardinesses	Ratio of Tardiness to Average Attendance.
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341
1899	11,975	9,502	8,965	94.3	2,566	0.286
1900	12,345	9,823	9,174	93.4	2,759	0.300
1901	12,499	9,991	9,350	93.6	2,937	0.294
1902	13,116	10,402	9,733	93.5	3,335	0.343
1903	13,475	10,719	10,056	93.9	3,428	0.342
1904	13,804	11,094	10,422	93.9	3,887	0.373
1905	14,296	11,543	10,897	94.4	3,746	0.344
1906	14,551	11,762	11,069	94.1	4,046	0.366
1907	14,802	11,909	11,166	93.8	4,170	0.373
1908	15,105	12,159	11,458	94.2	3,882	0.344
1909	15,363	12,423	11,666	93.9	4,422	0.379
1910	14,481	12,131	11,435	94.3	4,320	0.378
1911	14,301	11,871	11,186	94.2	6,017	0.538
*1912	13,272	11,710	11,083	94.6	6,307	0.569
*1913	13,491	11,903	11,216	94.2	7,354	0.655
*1914	13,932	12,320	11,610	94.2	7,380	0.635
*1915	14,505	12,903	12,189	94.5	8,000	0.656
*1916	14,647	13,191	12,323	93.4	9,373	0.761
*1917	13,967	12,770	11,933	93.7	7,325	0.613

* June.

Table 18. — Membership, Etc., of High School.

FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	25	1.01
1870	2,639	165	6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	1.02
1888	5,488	435	7.92	60	1.09
1889	5,956	444	7.45	67	1.12
1890	6,485	487	7.51	60	0.93
1891	6,502	535	8.23	68	1.05
1892	7,035	577	8.20	80	1.14
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50	111	1.52
1895	7,617	775	10.17	92	1.21
1896	8,077	858	10.62	119	1.47
1897	8,589	885	10.31	121	1.59
1898	9,085	890	9.80	130	1.43
1899	9,502	985	10.70	137	1.49
1900	9,823	1,031	10.49	131	1.33
1901	9,991	1,098	10.99	152	1.52
1902	10,402	1,138	10.94	164	1.58
1903	10,719	1,208	11.27	181	1.70
1904	11,094	1,286	11.60	179	1.61
1905	11,543	1,372	11.89	211	1.83
1906	11,762	1,473	12.52	208	1.77
1907	11,909	1,614	13.55	223	1.87
1908	12,159	1,707	14.04	235	1.93
1909	12,423	1,828	14.71	265	2.13
1910	12,131	1,796	14.80	266	2.20
1911	11,871	1,836	15.47	277	2.33
*1912	11,710	2,023	17.28	296	2.53
*1913	11,903	2,081	17.48	296	2.48
*1914	11,610	2,111	18.18	273	2.35
*1915	12,903	2,258	17.50	311	2.41
*1916	13,191	2,288	17.35	348	2.64
*1917	12,770	1,973	15.45	340	2.66

* For school year ending June 30.

Table 19.— Promotions for School Year Ending June 28, 1917.
Junior High Schools.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	354	253	21	26	54	.....	.....
II	278	239	18	21	.....	.....	.....
III	139	106	18	15	.....	.....	.....
Total.....	771	598	57	62	54	.....	.....

Percentage of Promotions for School Year Ending June 28, 1917.
Junior High Schools.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	100	71.5	5.9	7.3	15.3	.....	.....
II	100	86.0	6.5	7.5	.....	.....	.....
III	100	76.2	13.0	10.8	.....	.....	.....
Average...	100	77.6	7.4	8.0	7.0	.....	.....

Table 19.—Promotions for School Year Ending June 28, 1917.
Grammar Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	1,474	1,153	56	209	56	11	.....
II	1,349	1,117	84	88	60	31	7
III	1,341	1,101	97	77	66	20	.....
IV	1,273	984	115	85	89	13	.....
V	1,214	961	126	62	65	16	2
VI	1,025	732	145	64	84	8	5
VII	983	703	144	68	68	34	2
VIII	593	464	81	40	8	16	.....
IX	402	334	37	16	15	5	.....
Total.....	9,654	7,549	885	709	511	154	16

Percentage of Promotions for School Year Ending June 28, 1917.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	100	78.2	3.8	14.2	3.8	0.7	.....
II	100	82.8	6.2	6.5	4.5	2.3	0.5
III	100	82.1	7.2	5.7	5.0	1.4	.....
IV	100	77.3	9.0	6.7	7.0	1.0	.....
V	100	79.1	10.4	5.1	5.4	1.3	0.1
VI	100	71.4	14.1	6.3	8.2	0.7	0.4
VII	100	71.5	14.6	7.0	6.9	3.4	0.2
VIII	100	78.2	13.7	6.7	1.4	2.7	.....
IX	100	83.1	9.2	4.0	3.7	1.2	.....
Total.....	100	78.2	9.2	7.3	5.3	1.6	0.1

Table 19-A. — Distribution of pupils By Ages, October 22, 1918.

GRADE.	AGE.													Total	Above Normal Age	Per cent. Above Normal Age					
	4	5	6	7	8	9	10	11	12	13	14	15	16				17	18	19	20 or over	
Kgn.	27	182	1															210			
1.....		180	1085	287	37	7	1											1,598	46	2.87	
2.....		2	88	810	357	96	14	2	1		2							1,372	115	8.38	
3.....			1	136	727	358	98	25	5	1	1							1,352	130	9.61	
4.....				4	131	652	358	133	42	11	3			1				1,335	190	14.23	
5.....					10		148	581	306	125	56	12	4	1				1,243	198	15.92	
6.....					1		22	251	511	290	139	34	5					1,253	178	14.20	
7.....							1	23	178	425	236	92	31	3		1		990	127	12.82	
8.....									3	32	254	377	191	65	8	1		934	74	7.92	
9.....								1		54	292	241	147	42	2			782	44	5.62	
10.....										9	88	288	221	75	22	3		707	26	3.67	
11.....										1	9	90	228	172	58	13	2	571	16	2.78	
12.....												12	67	143	106	35	12	375	12	3.20	
13.....													2	56	127	80	25	294	4	1.36	
P. G.....														3	6	3	2	14			
Total.....	27	364	1175	1237	1263	1281	1330	1187	1206	1209	972	771	503	323	134	42	6	13,033			
Under Normal Grade.....					37	103	113	160	173	207	144	106	54	26	16	15	6				
Per cent. under Normal grade.....					2.93	8.02	8.50	13.48	11.34	17.12	11.81	13.75	10.74	8.05	11.94	35.71	1.00				

Table 19-B. — Distribution of Pupils, 14 but not 15, October 22, 1917.

	NUMBER OF GRADES													Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13		
High									84	90	12	0		186	
E. Som. Jr. High								47	42	50				139	
Winter Hill Jr. High								34	43	76				153	
W. Som. Jr. High								63	86	78				227	
Prescott					1	2	6							9	
Hanscom														0	
Bennett				1										1	
Baxter														0	
Knapp			1		1	1	12	8	22					45	
Perry						1								1	
Pope					1	4	6							11	
Bell					2		4	17	18					41	
Cummings														0	
Edgerly				1	2	1	4							8	
Glines					1	5	2							8	
Forster						1	3							4	
Bingham						4	7							11	
Carr		1		1		5	7	18	14					46	
Morse					3	1	5	7	19					35	
Proctor						1	2							3	
Durell														0	
Burns														0	
Brown							4							4	
Highland					1	6	11							18	
Hodgkins		1				1								2	
Cutler						1	19							20	
Lincoln														0	
Lowe														0	
*Special	31													31	
Total by Grades.....	31	0	2	1	3	12	34	92	194	244	288	90	12	0	1,003
Per cent. by Grades..	.031	0	.002	.001	.003	.012	.034	.092	.193	.243	.287	.090	.012	0	1.000

*This number includes children in backward, atypical, non-English speaking and vocational classes.

Table 20. — Resignations of Teachers, 1917.

SCHOOL.	Teacher.	Resignation Took Effect	In Service.
High	Edith R. Macurdy	Feb. 2, 1917	5 years
"	Mabel Butman	June 30, "	"
East Somerville Junior High	Herbert L. Gregory	February, "	1 year 5 mos.
"	Irvin S. Wells	June 30, "	5 "
"	Carrie M. Frost	June "	5 years
"	Euphemia Potts	April, "	3 " 8 mos.
"	Ruth E. Kingman	Dec. 1, "	4 " 3 "
East Somerville and Winter Hill Junior Highs	A. Louise Bean	April, "	3 " 8 "
Prescott	Elizabeth M. Collins	June 30, "	16 years
Hanscom and Bennett	Nellie F. Eaton	May 1, "	10 " 8 mos.
Bennett	Julia A. Mahoney	Feb. 1, "	12 " 3 "
Baxter	Minnie A. Perry	Oct. 29, "	26 "
Knapp	Annie J. Ireland	June 30, "	18 "
Forster	Lilla M. Marble	" "	15 "
Glines	Pearl F. Dame	" "	11 "
Carr	Katherine A. Pike	" "	11 "
"	Catherine A. Faircloth	" "	3 " 1 mo.
Morse	Laura J. Brooks	May 1, "	34 "
Burns	Gladys Stinson	June 30, "	" "
Brown	Marguerite Burns	" "	2 " 6 mos.
Highland	Mildred Archibald	Feb. 19, "	9 " 8 "
Low	Reginald Webster	June 30, "	3 " "
Boys' Vocational	William H. Hoyt	" "	9 " "
Dental Dispensary		" "	1 year 1 "

Table 21. — Teachers Elected in 1917.

SCHOOL.	Teacher.	Coming From	Service Began	Salary.
High.....	Phebe E. Mathews		October, 1916	\$750
East Somerville Junior High.....	Pertie J. Gray	Wakefield	April, 1917	750
" " " "	Ellen G. Hopkins	Somerville	October, 1916	450
" " " "	Irvin S. Wells	Gilbertville	February, 1917	1,000
" " " "	Anna J. Coll	Somerville	October, 1916	500
" " " "	Walter W. Newcombe	W. Boylston	September, 1917	1,000
" " " "	Constance Hall	Franklin	" "	800
Winter Hill Junior High.....	Carolyn E. Armitage	Somerville	" "	500
" " " "	Mary T. Gurvin	" "	" "	500
" " " "	Edith E. Neylan	" "	" "	600
West Somerville Junior High.....	Melvin T. Carver	Winthrop	October, 1917	1,000
" " " "	James S. Thistle	No. Adams	" "	1,050
" " " "	Mabel C. Whitaker	Wakefield	September, "	750
Prescott.....	M. Jeannette Hannabel	Everett	" "	800
Bennett.....	Amy F. Woodbury	Somerville	November, 1916	800
Baxter.....	Margaret M. Breen	Hinsdale	October, "	650
Knapp.....	Minnie P. Cunningham	Somerville	Dec. 10, 1917	850
Forster.....	Helen J. Burton	" "	September, 1916	500
Carr.....	Anna E. McCully	" "	" "	550
" " " "	Dorothy Lundgren	" "	1915	650
" " " "	Mary E. Flanley	" "	February, 1917	850
Highland.....	Sophia C. Magne	Newark, N. J.	September, 1916	600
Cutler.....	Hazel R. McMillan	Somerville	February, 1916	600
" " " "	Mary L. McKenna	" "	September, 1915	550
Lincoln.....	Ruth E. Andrews	Meriden, Conn.	April, 1916	700
Lowe.....	Mildred Archibald	Somerville	September, 1914	525
" " " "	Octavia A. Stewart	Medford	" "	800
Boys' Vocational.....	H. Ralph Aubin	Not teaching	" "	1,100
" " " "	Bernard B. Patten	" "	" "	1,100
" " " "	Clarence W. Dickey	" "	" "	1,000
Special (Sewing).....	Josephine G. Nicholson	Burlington, N. C.	October, "	700

Table 22. — Leave of Absence of Teachers.

Lucy I. Topliff, from March 5 to April 13, inclusive.
 Edith L. Hurd, for school year 1917-1918.
 Mary L. Norton, for school year 1917-1918.
 M. Edith Callahan, for school year 1917-1918, in exchange with
 Helen I. Burton, of Oakland, California.
 M. Eva Warren, for school year 1917-1918.
 Carolyn Armitage, for school year 1917-1918.
 Blanche E. Thompson, for school year 1917-1918.
 Gertrude W. Leighton, from September, 1917, to February 1, 1918.
 Harry L. Jones, from December 10 for six weeks.

Cadets.

Margaret M. Brennan	Gertrude E. Gaddis
Stella Bucknam	Marcella M. Garrick
Alice Cumming	M. Gertrude McCarthy
Doris D. Farr	Clare D. Sweeney
	C. Edith Taylor

Table 23. — Transfers of Teachers.

Teachers.	From	To
F. Gertrude Perkins . . .	High	W. Hill Jr. High
Lydia A. Jones . . .	High	W. Som. Jr. High
Florence C. Bowen . . .	High	W. Som. Jr. High
John J. McLaughlin . . .	High	W. Som. Jr. High
Anna J. Dolan . . .	E. Som. Jr. High	W. Hill Jr. High
Mary L. Guyton . . .	Prescott	E. Som. Jr. High
Catherine Heagney . . .	Prescott	E. Som. Jr. High
Mina P. Bickford . . .	Forster	W. Hill Jr. High
Harriet M. Bell . . .	Bingham	Highland
Eva M. Barrows . . .	Bingham	Highland
Cora E. Crawford . . .	Bingham	Morse
Helen L. Galvin . . .	Bingham	Brown
Elva A. Cutler . . .	Morse	Cutler
Cara M. Johnson . . .	Burns	Highland
Annie G. Smith . . .	Brown	W. Som. Jr. High
Ida M. Record . . .	Brown	E. Som. Jr. High
Helen I. Stearns . . .	Highland	W. Som. Jr. High
Elsie M. Ross . . .	Highland	W. Som. Jr. High
Sarah E. Pray . . .	Highland	W. Som. Jr. High
Mary L. Bryant . . .	Highland	W. Som. Jr. High
Helen M. Farr . . .	Hodgkins	Bingham
Edith W. Emerson . . .	Hodgkins	W. Som. Jr. High
Isabelle M. Brunton . . .	Hodgkins	W. Som. Jr. High
Alice S. Hall . . .	Hodgkins	W. Som. Jr. High
Augusta H. Bergin . . .	Hodgkins	W. Som. Jr. High
Ruth E. Andrews . . .	Lincoln	Burns
Olevia M. Woods . . .	Cutler	Lincoln
Katherine A. Breen . . .	Cutler	W. Som. Jr. High
N. Irene Ellis . . .	Cutler	W. Som. Jr. High
Elizabeth R. Henderson . . .	Cutler	W. Som. Jr. High
Kathinka Fessman . . .	Bell Man. Train'g	E. Som. Jr. High
Eva G. Hardy . . .	Cutler Man. Tr.	Bell Man. Train'g

Table 24. — Number of Teachers.

FOR A SERIES OF YEARS.

YEAR.	High School.	Junior High Schools.	Grammar Schools.	Primary Schools.	Special Teachers.	Assistants not in Charge of Room.	Men.	Women	Total.
1886	9	.....	62	48	1	0	9	111	120
1887	10	.....	64	48	1	0	9	114	123
1888	10	.....	66	52	4	7	9	130	139
1889	10	.....	60	56	4	7	10	127	137
1890	10	.....	78	58	5	7	12	146	158
1891	12	.....	86	63	5	13	12	167	179
1892	13	.....	90	67	5	10	12	173	185
1893	14	.....	88	63	5	19	12	177	189
1894	15	.....	91	66	6	11	12	177	189
1895	28	.....	91	73	5	12	19	186	209
1896	30	.....	102	74	6	14	22	208	230
1897	31	.....	109	85*	6	18	22	227	249
1898	32	.....	112	87*	7	13	23	229	252
1899	36	.....	119	92*	7	9	23	240	263
1900	40	.....	127	96*	7	6	24	249	273
1901	44†	.....	130	94*	7	8	26	257	283
1902	45†	.....	140	91*	7	9	26	266	292
1903	46†	.....	143	96*	7	14	25	281	306
1904	48‡	.....	152	98*	7	9	27	285	312
1905	48‡	.....	153	100*	7	7	27	288	315
1906	54‡	.....	157	99*	7	9	29	297	326
1907	57‡	.....	160	97*	9	14	32	305	337
1908	58‡	.....	164	97*	10	16	34	311	345
1909	59‡	.....	166	99*	10	16	36	314	350
1910	63‡	.....	165	87*	13	11	41	298	339
1911	62‡	.....	164	86*	20	11	40	303	343
1912	66‡	.....	168	84*	22	9	40	309	349
1913	68‡	.....	166	91*	28	12	39	326	365
1914	75‡	.....	167	99*	30	20	44	347	391
1915	76‡	.....	172	100*	31	15	45	349	394
1916	77‡	.....	189	101*	30	15	46	366	412
1917	70‡	65	136	102*	33	17	49	374	423

*Including four kindergartners. †Including two secretaries. ‡Including one secretary.

Table 25.— Books Authorized for Use, 1917.

For High Schools.

As Text-Books.

Gil Blas de Santillano, Geddes and Josselyn.....	D. C. Heath & Co.
Marianela, Geddes and Josselyn.....	D. C. Heath & Co.
A Trip to South America, Waxman.....	D. C. Heath & Co.
First Principles of Chemistry, Brownlee and Others,	Allyn and Bacon
Elementary Spanish-American Reader, Frederick Bliss Luquiens,	The MacMillan Company.
A History of Commerce and Industry, Cheesman A. Herrick,	The MacMillan Company.
Form and Functions of American Government, Thomas Harrison	Reed
Reed	World Book Company.
Rational Typewriting.....	Gregg Publishing Company.
Office Training for Stenographers.....	Gregg Publishing Company.
Grammaire Elementaire, Armand.....	D. C. Heath & Company.
Lectures Faciles, Bruce.....	D. C. Heath & Company.
Mes Premiers Pas en Francais, Chapuzet and Daniels,	D. C. Heath & Company.
Pour Charmer Nos Petits, Capus.....	D. C. Heath & Company.

As Reference Book.

School Civics, Boynton.....	Ginn and Company.
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For Elementary Schools.

As Text-Books.

Holidays in Mother Goose Land, Higgins.....	Newson & Company.
A Beginner's Reader, Hammond.....	Newson & Company.
Busy Brownies at Play, Davidson and Bryce....	Newson & Company.
The Progressive Music Series, Parker, McConathy, Birge & Meissner,	Silver, Burdett & Company.
Intermediate Song Reader, New Educational Music Course,	Ginn and Company.

As Reference Book for Intermediate Grades.

The Patriotic Reader, Bemis, Holtz & Smith....	Houghton, Mifflin Co.
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For Evening Schools.

As Text-Books.

English for New Americans, Field and Coveney..	Silver, Burdett & Co.
Civics for New Americans, Hill & Davis..	Houghton, Mifflin Company.

Table 26. — Graduation Exercises.

High School.

The February graduation exercises of the High School were held in the High School Hall on Friday, February 2, 1917, in the presence of a large audience of parents and friends.

Order of Exercises.

GEORGE E. WHITAKER, Chairman of the School Committee, Presiding.

1. OVERTURE — "Golden Sceptre"
High School Orchestra, Russell A. Cook, Leader
2. PRAYER — Rev. Chester A. Drummond, Pastor of the First Unitarian Church
3. SINGING — "Cast Thy Burden," Elijah.....Mendelssohn
4. ADDRESS — "System"
Lillian H. Lacey
5. DUET — "Forget Me Not".....MacBeth
Saxophone, Clarence Wood
Flute, John Leland
6. ORATION — "The Unguarded Door"
John L. Weston
7. SINGING — "Italia" from "Boccaccio"
8. Presentation of Diplomas to Girls.
9. ORCHESTRAL SELECTION — "Berceuse" from "Jocelyn"
B. Godard

High School Orchestra.

10. Presentation of Diplomas to Boys
11. SINGING — "Lovely Night".....Offenbach
12. POSTLUDE

Singing under the direction of James P. McVey, Teacher of Music in the Public Schools

LIST OF GRADUATES.

February 1, 1917.

Asterisk before name indicates that the pupil is graduated "with honors."

Katherine Elizabeth Artz	Anna Catherine Brennan
Katherine Elizabeth Bacigalupo	Evelyn Nerissa Briggs
Helene Deaborah Furbush Baker	Lillian Della Caless
Doris Adelaide Barber	Elizabeth Carnes
Helen Eda Barris	Ruth Hamlin Chapin
*Sophie Ella Berman	Gertrude Frances Cowick

*Theresa Crowley	Viola Mae Webber
*Ruth Etta Cunningham	Catherine Margaret Welch
Evelyn Mary Daykin	Marie Cecilia Welch
Grace Magdalene Driscoll	Evelyn Errico Werner
Lillian Givan	
Gladys Rose Harlow	Clifford Thomas Abbott
Valda Madeleine Hilton	Francis Frederick Bonaparte
Dorothy Beatrice Holmes	James Frederick Brittain
Florence Elizabeth Hunter	*Walter Elbert Clapp
*Ruth Elizabeth Jones	Stanley Estey Cliff
Mary Gertrude Kelley	Walter Stanley Currie
Helen Madeline Kodad	Harold Joseph Downey
*Mildred Gladys Krug	Israel Louis Governan
*Lillian Hilma Lacey	John Aldrich Grimmons
Marguerite Alice LeHand	William Porter Hadley
Alice Grace LeSueur	Francis Burr Hamilton
Sadie Marion Lyle	Lloyd Crockett Harding
Jennie MacIver	John Duff Hopkins
Gladys Eleanor March	Merle Lloyd Hunt
Edna Elizabeth Marsh	LaForest Harold Johnson, Jr.
Virginia Martyn	Frank Middleton Libbey
*Olga Elizabeth Massari	Walter James Love
Frances Mildred McLeod	Charles Wilson Meinberg
Helen Edna Mellett	Frederick James O'Donoghue
Helen Elizabeth Nangle	Thomas Edward O'Lalor
Olive Grayce Olsen	Andrew Warren Orioli
Leona Erica Paasche	Walter Lawrence Repetto
Emma Harmon Perkins	William Vandesande Schroeder
Alice Scott	John Henry Shea
Helen Imelda Sheridan	Harry Lawrence Turner
Leola Grace Smiley	William Andrew Walsh
*Madeline Stockwell	*John Lambert Weston
Grace Audrey Taylor	Francis Thomas Whitworth
Bernice Myrtila Teele	Clarence Milton Wood
Martha Louise Thayer	Alexander Youngerman

Number of graduates, 81; boys, 30; girls 51.

The June graduation exercises of the High School occurred on Tuesday, June 26th, 1917.

Order of Exercises.

GEORGE E. WHITAKER, Chairman of the School Committee, Presiding.

1. OVERTURE — "The Golden Sceptre".....Scheppegrell
High School Orchestra, Russell Cook, Leader.
2. PRAYER — Rev. J. M. Wathen,
Pastor of the Highland Congregational Church
3. THE CITY'S GREETINGS — His Honor, Mayor Cliff.
4. SINGING — "And the Glory of the Lord".....Handel
Graduating Class
5. ESSAY — "Women and the War"
Hazel L. Cloyes
6. PIANO SOLO — "Rigoletto".....Verdi
Bella Ruff

Order of Exercises. — (Continued.)

7. ESSAY — "Aeronautical Defense"
Merritt F. Farren
8. CORNET SOLO — "Serenade".....Shubert
Dorothy Dooling
9. ADDRESS TO GRADUATES
Lemuel H. Murlin, LL.D., President Boston University.
10. SINGING — "Hallelujah"Handel
Graduating Class
11. PRESENTATION OF DIPLOMAS TO GIRLS
12. SOLO,
Wilda Whiting Chipman
13. PRESENTATION OF DIPLOMAS TO BOYS
14. SINGING — "Star Spangled Banner".....Smith
15. POSTLUDE — "The Regiment's Return".....Crosby
High School Orchestra

Singing under the direction of James P. McVey, Supervisor of Music
in the Public Schools.

LIST OF GRADUATES.

June, 1917.

Asterisk before name indicates that the pupil is graduated
"with honors."

Helen Marie Ahlner	Annie Frances Delaney
Gladys Mae Allingham	Margaret Mary Desmond
Dorothy Bradford Atwood	Anna Kathlyn Donovan
Inez Marion Atwater	Dorothy Dooling
*Ruth Lincoln Avery	Marie Ellen Dresser
Katherine Elizabeth Ayers	Gladys Evelyn Dunn
Eunice Alma Babcock	Elsie Maude Fales
Lillian Marion Bachelder	Ruth Adele Falkenstein
Mildred Edith Baker	Mildred Benton Fitch
*Bessie Janet Berman	Ethel Genevieve Fitzmaurice
Gladys Irene Bowditch	Laura Monica Flynn
Doris Isobel Bradt	Edith Elizabeth Foster
Olive Blanche Briggs	*Gertrude Bigelow French
Madeleine Brine	Edith Maude Gilliatt
Eva Buchinsky	Eleanor Chalmers Geiger
Winnifred Agnes Buckley	*Grace Anna Goodwin
Lilian Adelaide Cahoon	Willma Josephine Gullion
Theresa Cameron	Harriett Edna Hamilton
Vanda Rose Cappuccio	Marie Louise Hamilton
Elizabeth Madeline Carlin	Dorothy Arline Haskell
Helen Mary Carr	Clara Geneva Haynes
Gertrude Ursula Casey	Maria Cecilia Hedlund
Grace Elizabeth Casey	Doris Estelle Hicks
Alice Cheever	Eunice Snow Higgins
Wilda Whiting Chipman	*Gertrude Armstrong Hincks
*Hazel Leora Cloyes	*Doris Homer
Elizabeth Frances Coakley	Helen Amina Honnors
Marion Amelia Coye	Dorothy Olea Hopkins
Edna Louise Dearborn	Florence Howard

- Mildred Emerson Hunkins
 Mildred Frances Irving
 Helen Clifton Jackson
 Marion Littlefield Jerault
 *Alice Evangeline Johnson
 Frances Marion Johnson
 Marguerite Vivian Johnson
 Mary Campbell Jones
 Helen Eunice Jones
 Marion Rose Jordan
 *Alice Wenonah Kallom
 Isabella Margaret Kellock
 Enid Bartlett Kenney
 Winifred MacLean Kenney
 Esther Eames Keogh
 Beatrice Thelma King
 Edith Wilhelmina Lang
 *Alfrida Christine Lind
 *Edith Martha Lynch
 Helen Gertrude Lynch
 Mildred Irene MacKay
 Esther Mable MacPhee
 Miriam Louise MacWilliams
 Marion Evelyn March
 Eleanor Brown Maynard
 *Josephine Mary McCarthy
 Mary Rose McHugh
 Helen Cameron McKinley
 Jeanette Veronica McLaughlin
 Helen Josephine Meagher
 Helen Virginia Meredith
 *Helen Louise Merrill
 Esther Pearl Miller
 *Claire Milliken
 Margaret Louise Monroe
 Mary Catherine Moore
 Mary Elizabeth Morris
 Agnes Claire Morrison
 Anna Hart Murphy
 Lucy Ellen Murphy
 Henrietta Ruth Nicholas
 Mabel Evelyn O'Donnell
 Martha Georgina Olson
 Doris Gertrude Ordway
 Alice Dean Padelford
 Evelyn Elizabeth Parker
 Florence Randall Parker
 Emma Ethel Margaret Parks
 Anna Louise Petersen
 Kathleen Pillsbury
 Lillian Frances Prescott
 Grace Veronica Reardon
 Mabel Isabel Reddick
 Maude May Richards
 Mary Margaret Riordan
 Mary Hayes Roberts
 Katherine Anna Roche
 Marietta Corinne Rondina
 Bella Ruff
 Ruth Runyan
 Florence Gertrude Ryan
 Dorothea Moore Ryder
 Lillian Frances Severance
 Dorothea Annette Shay
 Marguerite Mary Shea
 Mary Elizabeth Shields
 *Frances Slafsky
 Freda Aldenia Smith
 Winnifrede Adelaide Stackpole
 Olive Mae Stanley
 *Mildred Hazel Steere
 Marjorie Bates Stevens
 Wenonah Virginia Stevens
 Florence Helen Stiglich
 Amy Elizabeth Stone
 Elizabeth Catherine Sullivan
 *Margaret Danforth Symonds
 Ida Tarbox
 *Gertrude Alida Taylor
 Margaret Ruth Taylor
 Marion Katharine Terry
 *Lillian Mertie Thomas
 Nellie Augusta Thomson
 *Ruth May Tuttle
 Bertha May Wallace
 Katherine Charlotte Wallack
 Mary Frances Walters
 Frances Quinby Watson
 Catherine Mary Welch
 Marcia Weston
 Blanche Eleanor White
 *Pauline Wolf
 Anna Mary Woods
 Louise Mitchell Wyman
 Laura Alice Wyman
 *Rosebud Agnes Young
 Henry Roman Bardzik
 Frederic Baxter Baron
 Wallace Benjamin Baron
 Leon Washburn Bateman
 John Reginald Beattie
 John Joseph Daniel Bennett
 Arnold Joseph Benson
 William LeFebvre Bigley
 Charles Harwood Bowler
 George Lyman Brewster
 George Edward Chambers
 Ralph Eaton Chandler
 Edmund Francis Clarke
 Francis Michael Collins
 Harry Mark Connelly
 Walter Joseph Cronin
 Stanley Crawford Cruwys
 Frederic Bartlett Dadmun
 James William Dalrymple
 Charles Francis Deacon
 *Edward Herbert Derby

Ernest Lionel Dickey	Harry Leslie Moore
John Francis Doherty	Raphael Northey Murray
Harrison Munro Douglass	Phillips Allen Noyes
Samuel Drukman	Arthur Laurie Nugent
John Joseph Duffy	John Joseph O'Neill
Oswald Dugmore	Ernest Clifford Peakes
Warren Edward Everett	Brooks Pease
*Merritt Freeman Farren	William Hartwell Perry
John Joseph Fogarty	*Hobart Spencer Phelps
James Francis Foley	Benjamin Joseph Phillips
Alexander Rae Forbes	John William Pickering
Ambrose Clarke Ford	Raymond Henry Pierce
Charles Clement Gallagher	Edwin Parker Pillsbury
Charles Ernest Gilman	Roland Dixon Pillsbury
Arthur Norwood Gorham	Malcolm Field Pratt
Lincoln Caldwell Grush	William Edward Preble
Hugh Paul Guilderson	Chester Flint Prothero
John Thomas Haggerty	*Chester Abel Reynolds
George Dares Hall	Arthur Robert Ricker
Ernest White Handley	Harry Maxwell Robson
Arthur Vernon Harrington	Edward James Roche
Lawrence Emerson Haskins	Carroll Adams Russell
*Donald Horatio Hatheway	Karl Hazen Saltmarsh
Horace Zaner Hayward	David Sava
William Henry Hellmann	Frank Matthew Savage
John Herbert, Jr.	James Edward Sawyer
Allen Franklin Higgins	Lester Lewis Schnare
Joseph John Hoar	Henry Ambrose Shea
William George Honold	*Edward Leo Smith
Paul Corson Howe	Louis Martin Smith
Harry Ernest Johnson	Arthur Hills Starbird
James Elwell Johnson	Russell George Stearns
George Everett Jones	Elbridge Zebina Stowell
Paul Leo Keating	Fred Chester Tolman
Albert James Kiley	Clifford Francis Trefry
Harold Hutchinson Kolb	John Leyson Vaupel
Thomas Francis Leahy	Thomas Alexander Wallace
John Selwyn Leland	Walter Augustus Wallstrom
Frank Mahoney	Lewis Weinberg
*John Martin	Roy Victor Weldon
William Stephen McAuliffe	Arnold James Whittle
Arthur Wilson Moffatt	Abraham Marcel Zorolow

Total number of graduates, 259; boys, 105; girls, 154.

Note: — The pupils named below covered the four years' high school course in three and one half years.

Inez Mariòn Atwater	Edith Martha Lynch
Eunice Alma Babcock	Josephine Mary McCarthy
Vanda Rose Cappuccio	Helen Virginia Meredith
Elsie Maude Fales	Claire Milliken
Marie Louise Hamilton	Anna Louise Petersen
Maria Cecilia Hedlund	Freda Aldenia Smith
Eunice Snow Higgins	Margaret Danforth Symonds
Gertrude Armstrong Hincks	Marion Katharine Terry
Helen Amina Honnors	Lillian Mertie Thomas
Esther Eames Keogh	Ruth May Tuttle

Katherine Charlotte Wallack	Arthur Wilson Moffatt
Laura Alice Wyman	Malcolm Field Pratt
Rosebud Agnes Young	Arthur Hills Starbird
Frederic Bartlett Dadmun	Elbridge Zebina Stowell
Lawrence Emerson Haskins	Lewis Weinberg
Donald Horatio Hatheway	Abraham Marcel Zorolow

JUNIOR HIGH SCHOOL GRADUATES.

Junior High School graduations occurred in the school buildings on June 27:—

Winter Hill Junior High.

Chilson N. Abells	Frederic Billings Littlefield
Charles Edward Ames	Elsie May Lincoln
Marguerite Gertrude Ames	Charles F. Maguire
Fred J. Anderson	Alice May Manuel
Dorothy P. Baker	Etta Muriel March
Roland Barker	Walter Adolf Mayer
Lester G. Barrett	Margaret M. McDonnell
Sylvia Bateman	Eleanor Marie McElroy
Eleanor Brown	Emilie M. McHale
Mona C. Burke	Leon W. Mooers
Evelyn B. Calhoun	Helen A. Mullett
Frances Mildred Carey	Helen Mulligan
Francis Alfred Chapman	Gertrude Pauline Nangle
Ruth Katherine Cronin	Lillian Grace Norris
Ruth E. Dawes	Kenneth E. Northrop
Lea O. DeLorme	Lena Pearl Peck
James E. Dickerman	D. Ruth Platt
Pauline Davenport Dodge	Ruth Evelyn Pray
Jessie Elizabeth Dods	Eleanor Alice Randall
Vivian Irene Evans	James F. Ronan
Miriam Rogers Ewart	Theresa Josephine Ronayne
Esther M. Filadoro	Maurice B. Rooks
Doris Elizabeth Flint	Arthur E. Sandberg
Lucian Curtis Foye	Russell H. Searle
Hilda M. French	Richard G. Shea
Olga V. Gleitsman	Jennie H. Shepherd
George Whiting Goddard	Frederick Wilton Smith
Gratia M. Grisim	Harold E. Smith
Arline Parker Hall	Frances Madeline Stephenson
Gertrude N. Hill	Elizabeth M. Sullivan
Philip F. Holmes	John B. Sullivan
Ruth E. Hopson	Evelyn G. Sutherland
Helen Wilder Hudson	Sven Oscar Swangren
Marion Isabelle Huff	Mildred Elizabeth Teakles
Maria T. Kelly	Howard S. Tochtermann
Thomas A. Kelley	Evelyn Toppan
Frances Gertrude Kenney	Frank Ivan Vaughan

East Somerville Junior High.

Shepherd Albohn	Elodie M. Blakeney
Charles J. Ardito	Josephine Bowe
Mabelle Linsley Backus	Charles Wilbert Campbell
Frederick William Beck	Isabel F. Carpenter
Alice Janet Roland Belyea	Loretta J. Colbert

Richard Connor	Mabel F. Preston
John Francis Delaney	Elmer Stuart Ricker
Dorothy Flavilla Durgin	Allen M. Rideout
Margaret F. Giacobbe	William Henry Robinson, Jr.
Clarence Willis Gray	James B. Ryan
Chester T. Hammond	Marguerite J. Ryan
Joseph L. Herlihy	Iarene Josephine Sanford
William J. Holland	Fannie Schwartz
Alice C. Kelleher	John Robert B. Scully
David Joseph Kelleher	Doris Aileen Sears
Myrtle Kathleen MacLellan	Marion Shaw
J. Franklin McAloney	James Howard Shay
Irene Elizabeth Mason	William Joseph Silk
George G. McLain	Katherine Maitland Simpson
Richard R. Marcy	Leo Slafsky
Leo Patrick Francis Murphy	Elvia Arline Spaulding
Lucy Elizabeth Noreau	Vera Viola Spence
Gladys J. Nugent	Harold Joseph Stackpole
Veronica A. O'Reilly	Albert Daniel Sullivan
Mary Josephine Pacheco	Adeline Marie Tobin
Frederick Towle Pendell	Gertrude Alice Walsh
Sarah T. Pickering	Walter Norman Westland

Table 27. — VOCATIONAL SCHOOL GRADUATES.

Boys' Vocational School, June, 1917.

Amat Ventura	Anthony D. Palombo
John M. Barry	John Anthony
Howard L. Brown	Philip W. Sherry
Charles E. Crosby	Francis J. Mehigan
Francis Evans	Richard J. Cotter
Sherman H. Fletcher	George E. Surrette
Henry H. Hochhein	Herbert G. Miller
Dario Lombardi	Wallace A. March
Alfred L. Muse	William C. Boyce

Girls' Vocational School, June, 1917.

Madeline Josephine Adams	Amy Gertrude James
Marguerite Gertrude Boyle	Helen Dorothea Laird
Frieda Carlson	Marjorie Lewis Lambert
Elizabeth Adams Dickerman	Anna Louise O'Connor
Margaret L. Duffy	Margaret Ingeborg Peterson
Gabriella Vieira Gomes	Arzetta Agnew Rose
Ellen Mary Gray	Bertha Josephine Reed

GRAMMAR SCHOOL GRADUATES.

Grammar school graduations occurred in the several grammar school buildings on February 2 and on June 27:—

Knapp.

Charles Andelman	Sadie M. Donahue
Albertina Bettencourt	Margaret Elizabeth Gallivan
Harold William Beyer	William John Gillespie
James Crotty	Margaret Rita Hayes

Lena Kaplan
Gladys C. Mackay
Helen Gertrude McCarthy

Kathleen Doris Murphy
Abbie Francis Sheehan
Albert Edward Wilde

Bell.

Helen I. F. Breen
Robert F. Chandler, Jr.
Mildred E. Chase
Louise Hastings Cloyes
Theodore A. Corliss
John E. Cullinane
Florence May Farrell
Beatrice C. Ferris
George A. Fogg
Frank Franzosa
Mary G. Gaffey
Albert Boardman Harmon
Dagney U. Hedberg
Warren Sumner Johnston
Catherine Teresa Kelley
Robert W. Kenny
Howard Walter Langill

Ralph W. Lewis
Harry Leo Lipkind
George A. Lounsbury
Evelyn Lawrence Maxwell
George Edward Maynard
David McCrensky
George H. Moore
Emily L. Peters
Bernard J. Siggins
Frederick P. A. Stern
Charles Sussenberger, Jr.
Anthony Taglino
S. Louise Thornquist
Esther L. Underhill
F. Elizabeth Weeks
Hazel C. Wellington
Evelyn A. Wood

Carr.

Nicoli F. Anastasia
Cornelia Emma Barbera
Abbie Marie Donahue
Mary Lillian Donovan
Francis William Hoar
John E. McAuliffe
George B. McKenzie

Zce I. Parenti
Emily Gertrude Richards
Frances Russell
Mary Louise Sampson
Alexander Peter Tosi
Frederick T. Weckbacher

Morse.

Lillian F. Anderson
Teresa N. Begley
F. Beatrice Donaldson
Hilda A. Hurd
Elizabeth P. Jones
Grace L. Landon
Helen E. Larson
Lillian F. McCarthy
Margaret M. McCarthy
Jessie M. Powell
Elsie Ryder
Francis G. White
Dorothy Marjorie Willwerth

Amy E. Wood
Peter Admian
Henry L. Bettencourt
Frank B. Cousins
Ettare J. Dinelli
John J. Heavern
Ciro Giobbe
Chester B. MacLaughlin
John M. Mangurian
James L. Smith
William A. Smith
John A. Winter

Brown.

Grace Winona Blaisdell
Maude Frances Burnham
Ruth Ainsley Cahoon
Alma Marguerite Danforth
Dorothea Violet Dion
Florence E. Dromgoole
John Edward Garrod

Lena Harriman
Gustav Arnold Hedlund
Ruth Gwendolyn Johnson
Hazel Marguerite Johnston
Ruth Lappin
C. Norman Leslie
Mildred Irene Melville

Grace Edith Nichols
 Leo J. Query
 Walter Wentworth Rich
 Philip Hugh Spencer

Lucius Grant Stiglich
 Ethel P. Trimble
 Albert James Welch
 George Lindroff Whitham

Highland.

Sarah E. Abbott
 Sophie Ray Bloom
 Edith Illeone Bixby
 Katharyn Buck
 William Henry Callahan
 Doris Ayer Cross
 John Curtis Dunbar
 Robert Franklin Earle
 Robert Ellis England
 Theadore O. Erickson
 Marion Lillian Figg
 Mildred May Figg
 Arthur J. Fratus
 Warren B. Gilkey
 Dorothy Elizabeth Gleason
 Rose C. Grant
 Josephine Esther Grout
 Irene Harmon
 Marion B. Haywood
 Walter A. Holmberg
 John P. Honnors
 Ethel M. Hopkins
 Doris Marie Hume
 Daniel Joseph Kelliher

Andrew Shepheard Laurie
 Frederick Weston Lawson
 William A. Libby
 Thomas T. Lloyd
 Thomas J. Lowe
 Elizabeth R. Lowe
 Evelyn P. Macdonald
 Eleanor L. Mackay
 Mary M. McAuley
 George Everett Megathlin
 Donald H. Miller
 Mary Ethel Sutherland Ranton
 Alice Ruth Redmond
 Charles Foster Rowell
 Emily Hortense Sheldon
 Lloyd R. Simpson
 Frank Benjamin Smith
 Reba Ethel Speirs
 Harold Elmer Stevens
 Gertrude E. Swenson
 Clarence Newman Truesdale
 Violet Isabella Walker
 George Churchill Warren
 Thelma Louise Whipple

Hodgkins.

Marshall Danforth
 Mary Simonetti
 Augustus Cyrus Casassa
 Inez M. Armstrong
 Albert F. Smith, Jr.
 Henrietta Josephine Jodice

Bertha Caroline Riess
 Laura Mabel Cruwys
 Maude Charlotte Crowley
 John Edward Bertwell
 Margaret Catherine Miller

Cutler.

Alice A. Aldham
 T. Edward Austin
 Richard H. Baldwin
 Frances Boyd
 Dorothy E. Campbell
 William J. Fogarty
 Raymond N. Hardy
 Rea F. Hunt
 Augustus Freeman Jones
 Sylvester Baker Kelley .

George W. Laverty
 Edith Bess McCobb
 Mae A. Packard
 Wallace K. Powell
 Everett A. Reed
 Lawrence W. Shea
 Ruth M. Rood
 Albert J. Silva
 Thelma L. Wright

GRAMMAR SCHOOL GRADUATES.

June, 1917.

Knapp.

Lenore Marie Baker
 Marie Pearl Selena Barrett
 Walter Joseph Carney

Celia Carrigan
 Josephine N. A. Capone
 Mildred A. Coleman

Ruth Mary Collins
 Clarence O. Cooke
 Martin Patrick Courtney
 Gertrude Florence Cromwell
 Edward F. Cunha
 Thomas F. Curtin
 Eessie Dalrymple
 Harry Andrew Dawe
 James P. Dolan
 Mary Margaret G. Dolan
 Gertrude Theresa Donahue
 Mary Madeline Dorney
 William Thomas Douglass
 Alfred Frank Fagundes
 Jessie Edwards Ferguson
 Ruth Edith Gilmore
 Walter Fred Hutchinson
 M. Henry Joyce
 Mary Gertrude Julio
 Thomas Henry Leary
 Mary Cristina Lehan
 Louis Levinson
 Beatrice Viola Long
 Muriel Mackay

Margaret Regina McGoldrick
 Marjorie Belle Murphy
 Helen Cecilia Murray
 Esther Myerson
 Thomas F. O'Leary
 Emily O'Neill
 Lena E. Paz
 Henry Perry
 C. Raymond Phelps
 William J. L. Rawson
 Bessie Sanders
 George Schwalb
 Alexander Siegel
 Katharine Rose Sloane
 Gertrude Edith Smith
 Vohe Tashjian
 Leona Edna Taylor
 Francis A. Thomas
 William Henry Traverse
 Mary Frances Warner
 Florence May Watts
 Alfred J. Wiggins
 Jeanette Adalia Weinstein

John S. Aruda
 Paul Millner Ashton
 Dorothy B. Baker
 Ethel Sumner Benson
 Amelio James Bertelli
 Mildred C. Blake
 W. Sumner Blake
 John H. Bowen
 John H. Bowman
 Meyer Bronstein
 Margaret E. Caldwell
 Ada C. Carroll
 Madlon Gertrude Churchill
 Charles Clarke
 George Benedict Cusick
 Irving Edward Dillon
 Gertrude L. Donahue
 Nora Elizabeth Donahue
 William M. Driscoll
 Albert C. Emerson
 Sibyl Ernestine Emerson
 Arthur L. Fay
 Mathew Goldberg
 Francis William Gray
 Charles Griffin
 Doris Frances Hall
 William L. Hanson
 Mildred A. Hartney
 Etta M. Hazard
 Thomas David Johnson

Bell.

Gladys Adella Johnston
 Frances Kettleman
 Emily M. Lenna
 Kramer C. Lofblad
 Josephine E. Magwood
 Calvin A. Marble
 Imogene Maxwell
 James Laurence McNeill
 Annie Ord Milne
 Anna J. Molan
 Patrick J. Morrison
 Harold Warren Murray
 Chester A. Nolan
 Margaret R. Nolan
 Frank R. Nystrom
 Gertrude M. O'Brien
 Raymond A. Orrell
 James N. Pollock
 Edily George Pretty
 Roland Pridham
 Marie Frances Reardon
 Helen Cora Ring
 Bessie Summers
 Helen Dean Tuttle
 Edward Thompson Van Ummersen
 Mildred A. Walsh
 Ruth N. Walsh
 Charles White
 Rosamond A. Wood
 Wilbur H. Wood

Carr.

Agnes I. Adams
 Mildred M. Bastion

Leila D. Beardsley
 Vincent Byron Bennett

Caroline E. Bent
 Alfred Bertelli
 Natalina M. Bertelli
 Clifford D. Bidmead
 Harold E. Burry
 Mary F. Cole
 Gertrude Cotter
 George K. Coyne
 Randall L. Coyne
 Mary S. Crocket
 M. Virginia Crowne
 Julia A. Cunningham
 Joseph M. Daly
 Thomas F. Daly
 Joseph Diozzi
 John K. Dunn
 Leo J. Fortini
 Edwin H. Galley
 Florence M. Greene

Frederick C. Hadley
 Mary A. Hartley
 James L. Hoar
 Louise Joyce
 Joseph Kiley
 Janette Larabee
 Mary C. Mackay
 Roger W. McKeown
 Ruth B. McTwiggan
 Catherine V. Magee
 J. Irving Marchant
 Alice F. Morgan
 David J. Motherway
 John E. O'Neil
 William J. Pierce
 Samuel Roberts
 Isabelle W. Shepherd
 Thomas J. Sullivan
 Bessie M. Trefren

Morse.

Madalena Benedetti
 Doris Mae Brooks
 Margaret M. Callahan
 Helen E. Coit
 Dorothy E. Diehl
 Araxie Elmassian
 Marion C. Gaddis
 Mary C. Harer
 Mary Harrington
 Beatrice M. Hunter
 Ella Kerr
 Doris Frances Kingston
 Agnes B. Martin
 Dorothy M. Merrill
 May Rose Petacchi
 Elizabeth L. Poirier
 Margaret M. O'Leary
 Valborg H. Prebensen
 Ernestine A. Strehle
 Mildred L. Toomey
 Marion E. Williams

Marguerite M. Willwerth
 Robert M. H. Allen
 Lawrence Baruffaldi
 Harry A. Downs
 Henry L. Catani
 Edmund J. Driscoll
 George E. Hemeon
 Louis Lagamorsino
 Andrew L. Landini
 Edmund M. Lanigan
 John M. Lynch
 Ernest R. Macdonald
 Charles Henry Magurn
 Paul A. McCarthy
 Louis Morelli
 Hyman Solomon
 Roy H. Throensen
 Arthur Hilding Werner
 Arthur Alden Wilson
 John L. Willwerth

Brown.

Bernard Leroy Bacon
 Katharine Louise Ball
 Harvey J. Baker
 Evelyn Mildred Belcher
 Susie Etta Burnham
 Ethyl Lillian Carpenter
 Helen Althea Collupy
 Marion Doris Cowick
 Theda Louise Dole
 Malcolm Downs
 Rena Elda Fairweather
 Dorothy Bullard Grimes
 James Arthur Horrell, Jr.

Mildred Ethelynde Jones
 Constance Marie Keating
 Thomas H. McCaig
 Justin David McCarthy
 Phyllis Euphemia McGaw
 Georgia R. Moon
 Harold C. Moore
 Francis M. Murray
 Doris Louise NeRay
 Eleanor Shaw Pike
 Ruth May Sage
 Franklin Cholerton Shuman
 Richard Walsh

Highland.

Leonore Anna Aitkin	Harold Bert Johnson
Mildred Louise Black	Paulina Esther Johnson
Juliette Ann Bourgress	Lewis Bruce Jones
Dorothy May Bourne	Marion Kathryn Jones
Majorie Ruth Bowlby	Harold Christopher Kelley
Martha Gladys Brine	Stephen Murray Ketcham
Katherine Penrose Brown	Earle Thurston Lothrop
Phyllis Louise Brownell	Marion Florence Macdonald
Evangeline Ruth Buckley	Ronald Boland Macdonald
Margaret Ellen Bucknam	Beatrice Evelyn Mack
Rachel Evangeline Burns	Sherman Otto Maxwell
Charles Edward Byrnes	John Bremmer Mowatt
Ella Jane Cameron	William Allen Newton
Edith Marie Champney	Helen Pillsbury
Alma Myrtis Combie	Emerson Roy Hazelton Porter
George Robert Copeland	Edward Howard Pitts
Vivian Louise Cosby	Margaret Ellen Pigott
Raymond Alfonso Cross	Clara Jane Quinn
Majory Creighton	Carl Frederick Rasquin
Paul Revere Crowley	Annie Margaret Robillard
Catherine Elizabeth Cuthbert	Bessie Priscilla Rogers
Marion Elsie Dates	Howard H. Rowell
Walter Allen DeWitt	Alberta Ellen Smith
Edward Joseph Donahue	Harry Stanley Smith
William John Donovan	Raymond Lewis Smith
Virginia Rita Downey	Irene May Smith
Elmer Kenneth Downs	Joseph Arthur Smith
Thomas Harrison Eumes	Ida May Sparrow
Gordon Willard Farr	Beatrice Sweet
Mabel Louise Grover	Irma Price Traphagen
Mildred Lillian Harrington	Richard Eugene Truesdell
Dorothy Mildram Hatch	Ellsworth Albert Union
Lena Ford Hawkesworth	Oliver Andrews West
George Roland Henderson	Leah Anna Williams
Giles Elberne Hopkins	Gerald Spurgeon Worth
William Robert Hutchinson	

Hodgkins.

Lena I. Armstrong	John J. Mallard, Jr.
Helen M. Cowen	Margaret J. Manning
Murray W. Crane	Fannie Miller
Elmer M. Dearborn	C. Warren Mitchell, Jr.
Mildred M. Dolliver	Louise M. Mulloney
Mary Gertrude Fenton	Arthur Wilfred Olsen
Julia E. Fitzpatrick	Albert Elliot Pillsbury
Rena C. Fontana	Ernest C. Raymond
Maude Zena Gorrill	Helen M. Rich
Clarence F. Head	Ethel M. Sawyer
Gladys Merriam Jones	J. Clarke Settles
Margaret J. Kearns	Kenneth Kimball Simson
George W. Lang	LeRoy Nathaniel Smith
Genevieve E. Lantz	Charles M. Shea
Leo L. Leveen	Joseph Peter Talamona
Antonio Massa	Arthur Wellington Woodworth

Cutler.

Wilhemina M. Cameron
Jesse A. Cunha
William H. Forrest, Jr.
Ralph W. Hawes
Gladys May Houston
Carl Melville Lindner
Jean McTaggart
Harvey W. Moore
Signe Mildred Olson

Clarence J. Owens
Ehrnst O. Paulson
Thora I. Paulson
Isabelle Eileen Saxton
Irene Emelia Silva
Harold Sherburne Stevens
J. Howard Taylor
Audrey E. H. Ware

Table 28. — Organization of School Board, 1918.

School Committee.

GUY E. HEALEY	Chairman
HERBERT CHOLERTON	Vice-Chairman

Members.

EX-OFFICIO.

Term expires
January

CHARLES W. ELDRIDGE, Mayor,	47 Highland road	1919
JOHN M. WEBSTER, President Board of Aldermen,	76 Boston street	1919

WARD ONE.

DR. WINNIFRED P. DAVIS,	125 Pearl street	1919
JAMES J. RUDD,	46-A Franklin street	1920

WARD TWO.

CHRISTOPHER J. MULDOON,	88 Concord avenue	1919
DANIEL H. BRADLEY,	19 Concord avenue	1920

WARD THREE.

OSCAR W. CODDING,	21 Pleasant avenue	1919
ALFRED L. WEST,	69 Avon street	1920

WARD FOUR.

FRANK H. HOLMES,	22 Walter street	1919
ARTHER N. RICHARDSON,	68 Bonair street	1920

WARD FIVE.

MRS. JULIA R. ALDRICH,	262 School street	1919
HARRY M. STOODLEY,	283 Highland avenue	1920

WARD SIX.

GEORGE E. WARDROBE,	31 Rogers avenue	1919
GUY E. HEALEY,	38 Cambria street	1920

WARD SEVEN.

HERBERT CHOLERTON,	94 College avenue	1919
FRANK E. PORTER,	43 Ossipee road	1920

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hours are from 4 to 5 on school days, and 8 to 9 on Saturdays.

Office telephone, 314; house telephone, 12.

Superintendent's office force:—

Justin W. Lovett, 29 Cambria street.

Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street.

H. Madeline Kodad, 1067 Broadway.

Board Meetings.

January 28.	April 29.	September 30.	December 27.
February 25.	May 27.	October 28.	January 3, 1919.
March 25.	June 24.	November 25.	

8:15 o'clock.

Table 28. — Organization of School Board, 1918. — Concluded.

Standing Committees, 1918.

Note. — The member first named is chairman.

District I. — Dr. Davis, Rudd, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Muldoon, Bradley, Coddling.

KNAPP, PERRY, BAXTER.

District III. — Coddling, West, Dr. Davis.

POPE, BELL, CUMMINGS.

District IV. — Holmes, Richardson, Mrs. Aldrich.

EDGERLY, GLINES.

District V. — Mrs. Aldrich, Stoodley, Richardson.

FORSTER, BINGHAM.

District VI. — Wardrobe, Healey, Stoodley.

CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII. — Cholerton, Porter, Healey.

HIGHLAND, HODGKINS, CUTLER, LINCOLN, LOWE.

High School. — Bradley, Dr. Davis, West, Holmes, Stoodley, Healey, Cholerton.

Finance. — Stoodley, Rudd, Bradley, Coddling, Richardson, Healey, Porter, Eldridge, Webster.

Text-Books and Courses of Study. — Muldoon, Dr. Davis, West, Mrs. Aldrich, Stoodley, Healey, Cholerton.

Industrial Education. — Holmes, Rudd, Muldoon, West, Richardson, Wardrobe, Porter.

School Accommodations. — Porter, Rudd, Bradley, Coddling, Holmes, Mrs. Aldrich, Wardrobe, Eldridge, Webster.

Teachers. — Cholerton, Dr. Davis, Muldoon, Bradley, Healey.

Playgrounds and School Hygiene. — Wardrobe, Dr. Davis, Holmes, Richardson, Mrs. Aldrich.

Rules and Regulations. — Coddling, Muldoon, Porter.

TABLE 29.—TEACHERS IN SERVICE, JANUARY, 1918.

Name and Residence	Salary.	Began Service.
HIGH SCHOOL.		
Central Hill.		
John A. Avery, Head Master, 22 Dartmouth Street	\$3,350	1895
Everett W. Tuttle, Master, 62 Highland Avenue	2,350	1895
Frank M. Hawes, Master, 257 School Street	2,150	1879
Frank H. Wilkins, Master, 93 Raymond Avenue	2,000	1906
John L. Hayward, Master, 242 School Street	2,000	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands	2,000	1901
William W. Obear, Master, 86 Belmont Street	2,000	1906
George M. Hosmer, Sub-Master, 13 Arlington Street	1,800	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton	1,800	1906
John M. Jaynes, Sub-Master, 131 Summer Street	1,350	1901
Guy. C. Blodgett, Sub-Master, 16 Monument Street, W. Medford	1,800	1910
Arthur N. Small, Sub-Master, 11a Harvard Street	1,650	1916
Fred W. Carrier, Sub-Master, Wilmington	1,500	1915
Augustus B. Tripp, Sub-Master, 67 Wallace Street	1,600	1909
S. Thomas Hall, Sub-Master, 62 Highland Avenue	1,400	1910
Irving P. Colman, Sub-Master, Greenbush	1,300	1915
Stephen H. Mahoney, Sub-Master, 16 Parker Street	1,300	1914
Lester W. Dearborn, Sub-Master, 61 Lowden Avenue	1,200	1914
George E. Pearson, Sub-Master, 325 Highland Avenue	1,250	1914
A. Marion Merrill, Sub-Master, 2 Madison Street	1,350	1895
Helen L. Follansbee, Sub-Master, 40 Vinal Avenue	1,350	1900
Frances W. Kaan, Assistant, 133 Central Street	1,200	1882
Mrs. Lena Gilbert, Assistant, 7 Kingston Street	1,050	1892
Harriet E. Tuell, Assistant, 40 Vinal Avenue	1,100	1899
Elizabeth Campbell, Assistant, 40 Greenville Street	1,100	1902
A. Laura Batt, Assistant, 2 Madison Street	1,100	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington	1,100	1895
Clara A. Johnson, Assistant, 177 Central Street	1,050	1897
Elizabeth H. Hunt, Assistant, 1080 Beacon Street, Brookline	1,050	1908
Blanche S. Bradford, Assistant, 163 Summer Street	1,050	1903
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge	1,050	1908
Mrs. Lucy I. Topliff, Assistant, 57 Cypress Street, Brookline	1,050	1914
Eudora Morey, Assistant, 121 St. Stephen Street, Boston	950	1874
Ella D. Gray, Assistant, 147 Walnut Street	950	1901
Ruth Tousey, Assistant, 114 Professors Row	950	1904
Bertha A. Raymond, Assistant, 147 Highland Avenue	1,050	1900
Grace Gatchell, Assistant, 6-a Pleasant Avenue	950	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge	1,050	1908
*Edith L. Hurd, Assistant, 125 Central Street	950	1910
Julia T. Connor, Assistant, 59 Church Street	950	1910
Esther Parmenter, Assistant, Lynnfield Centre	950	1911
Charlotte A. Norton, Assistant, 5 Gorham Street	950	1914
Annie C. Woodward, Assistant, 2 Madison Street	1,050	1906
Alice A. Todd, Assistant, 82 Munroe Street	950	1913
Hattie M. Baker, Assistant, 24 Sunset Road	950	1911
Mary F. Osborne, Assistant, 67 Boston Street	950	1911
Ella W. Bowker, Assistant, 2 Hillside Avenue	950	1911
Mrs. Ellen A. Patten, Assistant, 46 Mass. Avenue, Cambridge	950	1913
Florence L. McAllister, Assistant, 23 Wallace Street	950	1913
M. Belle Preston, Assistant, 84 Packard Avenue	950	1914
Gladys S. Jennison, Assistant, 196 Broadway	950	1913
Laura R. Cunningham, Assistant, 62 Highland Avenue	950	1914
Ruth A. Davis, Assistant, 15 Evergreen Avenue	950	1914
Mary L. Johnston, Assistant, 71 Bonair Street	950	1914
Bessie N. Page, Assistant, 106 Summer Street	950	1911.

*Leave of absence.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence	Salary.	Began Service.
Julia A. Haley, Assistant, 88 Prospect Street	\$850	1913
Mary C. Smith, Assistant, 117 Prospect Street	950	1916
Florence Towne, Assistant, 15 Pleasant Avenue	850	1916
Gladys L. Swallow, Assistant, 15 Pleasant Avenue	750	1916
Alfreda Veazie, Assistant, 193 Linden Street, Everett	750	1916
Helen M. Stevens, Assistant, 308 Central Avenue, Needham	900	1916
Jean H. Congdon, Assistant, 106 Summer Street	850	1916
Charles A. Dickerman, Assistant, 163 Summer Street	800	1916
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue	750	1916
B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury	600	1916
Ruth E. Low, Assistant, 32 Central Road	950	1913
M. Genevieve Smith, 96 Oxford Street	850	1915
Helen C. Ritchie, Assistant, 15 Willoughby Street	800	1912
Helen F. Lyon, Assistant, 392 Broadway	650	1914
*Margaret M. Kneil, Librarian, 44 Tennyson Street	450	1916
Mabell M. Ham, Clerk, 41 Boston Street	900	1906

*Part-time.

EAST SOMERVILLE JUNIOR HIGH SCHOOL.

Pearl Street.

Joseph A. Ewart, Head Master, 11 Bigelow Street	\$100	1916
Samuel A. Johnson, Master, 83 Thurston Street	2,100	1916
Elizabeth M. Warren, 8 Aldersey Street	925	1897
†Mary L. Norton, 20 Watts Street, Malden	850	1914
Sarah H. Christie, 45 Pennsylvania Avenue	850	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	850	1909
Pertie I. Gray, 57 Dartmouth Street	750	1917
Ida M. Record, 188 Central Street	850	1899
Edith L. Laycock, 10 Franklin Street	850	1913
Elizabeth J. Mooney, 168 Summer Street	850	1904
Catherine Heagney, 32 Sewall Street	850	1912
Anna J. Coll, 65 Newton Street	500	1916
*Charlotte Holmes, 24 Cambria Street	425	1913
Ellen H. Coughlan, 37 Brastow Avenue	450	1916
Francis A. Ryan, Canton	1,100	1913
Walter W. Newcombe, 20 Dartmouth Street	1,000	1917
Alice M. McNally, 50 Church Street, Watertown	500	1917
Mary L. Guyton, 336 High Street, Medford	850	1916
Veronica McQuillan, 11 East Newton Street, Boston	500	1917
Constance Hall, 24 Walnut Road	800	1917
Kathinka Fessman, 1126 Boylston Street, Boston	900	1912

†Leave of absence.

*Part time.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence			Began
WINTER HILL JUNIOR HIGH SCHOOL.			Serv-
Forster Building, Sycamore Street and Evergreen Avenue.		Salary.	ice.
Joseph A. Ewart, Master, 11 Bigelow Street		\$2,400	1913
Irene S. Nightingale, 12 Court Street, Arlington		925	1895
Emma G. Blanchard, 146 Massachusetts Avenue, Boston		850	1902
George H. Lusk, 86 Boston Avenue, West Medford		1,000	1916
M. Edna Merrill, 228 Broadway		850	1909
Anna R. Walsh, 27 Avon Street		650	1914
Mary A. Daly, 52 Adams Street		850	1915
Mary I. Bradish, 112 Magoun Avenue, Medford		850	1899
Louise V. Richardson, 61 Heath Street		850	1907
Mary F. Mead, 35 Kidder Avenue		850	1905
Helen B. Parker, 53 Orchard St., Jamaica Plain		700	1916
Gertrude W. Chaffin, 4 Copeland Terrace, Malden		750	1916
Edith E. Neylan, 52 Adams Street		600	1916
Arthur J. Marchant, 110 Bartlett Street		1,200	1914
Joseph S. Hawthorne, 62 Prichard Avenue		1,250	1915
Ethel V. Chisholm, 333 Broadway		650	1914
Anna J. Dolan, 27 Hancock Street, Dorchester		800	1915
Mary T. Gurvin, 604 Broadway		500	1916
Mrs. Mina P. Bickford, 216 Park Street, Medford		850	1903
F. Gertrude Perkins, 58 Thurston Street		950	1906
Lucy E. French, 60 Adams Street		500	1916
‡Carolyn E. Armitage, 57 Madison Street		500	1916

‡Leave of absence.

WEST SOMERVILLE JUNIOR HIGH SCHOOL.

Holland Street.

Joseph A. Ewart, Head Master, 11 Bigelow Street	\$100	1916
Arthur L. Doe, Master, 27 Spruce Street, Malden	2,100	1896
James S. Thistle, 26 Packard Avenue	1,050	1917
John J. McLaughlin, 84 Inman Street, Cambridge	1,000	1916
Melvin T. Carver, 17 Hubbard Avenue, Cambridge	1,000	1917
Edith W. Emerson, 135 Central Street	925	1896
N. Irene Ellis, 29 Newbury Street	850	1903
Annie G. Smith, 59 Maple Street, Malden	850	1901
Isabelle M. Brunton, 33 Walnut Street	850	1910
Katherine A. Breen, 81 Avon Street	850	1912
Florence C. Bowen, 15 College Hill Road	650	1916
Lydia A. Jones, 40 Vinal Avenue	950	1916
Blanche Preston, 84 Packard Avenue	800	1917
Helen I. Stearns, 106 College Avenue	850	1916
Elsie M. Ross, 50 Washington Street, Ipswich	850	1908
Mabel C. Whitaker, 75 Walnut Street	750	1917
Alice S. Hall, 135 Central Street	850	1896
Mrs. Augusta H. Bergin, 16 Upland Road, Cambridge	800	1914
Elizabeth R. Henderson, 83 Ossipee Road	850	1912
Sarah E. Pray, 58 Liberty Avenue	850	1877
Mary L. Bryant, 41 Mason Street	850	1903
Grace M. Sanders, 131 Main Street, Malden	500	1917
Geneva C. Tobey, 43 Chelsea Street, Everett	500	1917
Gertrude E. Tynan, 15 Dana Terrace, Watertown	500	1917
Miriam E. Priest, 9 Willoughby Street	500	1917
Dorothy A. Chapin, 11 Mystic Street.	500	1917

TABLE 29.—Teachers in Service, 1918.—Continued.

Name and Residence.			Began
Grade.	(WILLIAM H.) PRESCOTT SCHOOL	Salary.	Serv- ice.
	Pearl and Myrtle Streets.		
	Samuel A. Johnson, Master, 83 Thurston Street	.....	1893
7.	Mary L. Abbott, 87 St. Stephens Street, Boston	\$850	1910
6.	Hazel N. Friend, 128 Rowe Street, Melrose	850	1915
5.	Mary A. Whitney, 10 Dow Street	850	1916
4.	Clara Taylor, 36 Flint Street	850	1871
3.	Elizabeth L. Marvin, 17 Summit Street	850	1898
2.	Louise E. Pratt, 40 Greenville Street	850	1889
1.	Jeanette M. Hannabell, 22 Cambria	800	1917
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
	Charles E. Brainard, Master, 82 Munroe Street	.....	1917
4.	Mrs. Agness M. Travis, 100 Park Ave., Winthrop	\$900	1908
3.	Jennie M. Twiss, 67 Berkeley Street	850	1903
3.	Maude A. Nichols, 166 Highland Avenue	850	1906
2.	Florence M. Shaw, 32 Central Road	800	1909
2.	Frances E. Robinson, 43 Franklin Street	850	1908
1.	Marion A. Viets, 170 Lexington Street, Waltham	850	1912
1.	Mrs. Nellie W. McPheters, 163 Summer Street	850	1914
1.	Martha L. Littlefield, 65 Glen Street	850	1897
1.	Alice M. Saben, Jason Terrace, Arlington	850	1903
Kind'n.	Elizabeth J. Barker, 78 Boston Street	750	1907
Asst.	Frances L. McGann, 45 Putnam Street	550	1914
VOCATIONAL SCHOOL FOR BOYS (Day.)			
Davis Building, Tufts Street.			
	Harry L. Jones, Principal, 137 Powder House Blvd.	\$1,900	1914
	Nehemiah E. Gillespie, 28 Worcester Sq., Boston	1,300	1911
	Charles A. Kirkpatrick, 27 Sewall Street	1,150	1913
	Bernard P. Patten, 26 Alabama Street, Milton	1,100	1917
	Arthur E. Gordon, 45 Columbus Avenue	1,000	1914
	Clarence W. Dickey, 12 Oxford Street	1,000	1917
	H. Ralph Aubin, 6 Oxford Street	1,100	1917
	Margaret R. Taylor, Secretary, 12 Albion Street	\$.99 per wk.	1917
CLARK BENNETT SCHOOL.			
Poplar and Maple Streets.			
	Charles E. Brainard, Master, 82 Munroe Street	.....	1917
4.	Kate B. Gifford, 29 Robinson Street	\$900	1902
3.	Mrs. Nettie L. Fay, 12 Grand View Avenue	850	1901
3.	Eleanor W. Nolan, 88 Highland Avenue	850	1909
2.	Isadore E. Taylor, 36 Flint Street	850	1883
1.	Alice M. Hayes, 8 Aldersey Street	850	1913
1.	Mary L. Gallagher, 81 Benton Road	700	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	850	1906
1.	Mrs. Amy F. Woodbury, 183 College Avenue	800	1917
Kind'n.	Caroline G. Baker, 40 Benton Road	750	1896
Asst.	Helen E. Harrington, 61 Garfield St., Cambridge	550	1912
Ungraded	Julia M. Riordan, 165 Albion Street	650	1914
Non-Eng.	Mrs. Lillias T. Lawton, 30 King St., Dorchester	800	1913

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence.		Salary.	Began Serv- ice.
Grade.	Bolton Street.		
GEORGE L. BAXTER SCHOOL.			
	Concord Avenue.		
	John Sherburne Emerson, Master, 3 Preston Road	\$2,100	1894
	9. Clara M. Burns, Ayer	925	1914
	9. Marion F. Orne, 43 Fairmount Avenue	850	1912
	8. Nellie Theresa McCarthy, Woburn	850	1909
	8. Minnie A. Holden, 34 Bow Street	850	1906
	7. Clara B. Parkhurst, 22 Highland Avenue	850	1889
	7. Clara B. Sackett, 91 Summer Street	850	1891
	7, 6. Edith Hersey, 287 Medford Street	850	1899
	6. Florence M. Hopkins, 65 Chandler Street	850	1907
	5. Nona E. Blackwell, 45 Ibbetson Street	850	1906
	4. Winifred I. Macdonald, 43 Babcock Street, Brookline	850	1917
	3. Helen M. Burton, 54 Gainsboro Street, Boston	850	1917
	2. Minnie Cunningham, 77 Walnut Street	850	1891
	1. Olivia H. Norcross, Wilmington	850	1914
	*1. M. Edith Callahan, Woburn	850	1911
ALBION A. PERRY SCHOOL.			
	Washington Street, near Dane Street.		
	6. Catherine E. Sweeney, Principal, 633 Broadway	\$950	1901
	5. Mary A. Mullin, 27 Shawmut Street	850	1910
	4. Irene Vincent, 47 Vinal Avenue	850	1903
	3. L. Gertrude Allen, 230 Washington Street	850	1884
	2. Mrs. Sarah E. Murphy, 104 Sycamore Street	850	1906
	1. Grace R. O'Neil, 347 Washington Street	800	1913
CHARLES G. POPE SCHOOL.			
	Washington and Boston Streets.		
	George M. Wadsworth, Master, Whitman	\$2,100	1891
	7. Florence A. Chaney, 56 Boston Street	1,000	1892
	7. Alicè I. Norcross, 90 Russell Avenue, Watertown	850	1885
	7. Harriet M. Clark, 10 Vernon Street, West Medford.	850	1893
	6. M. Abbie Tarbett, 11 Washington Street, Stoneham	850	1906
	5. Edith L. French, 29 Summit Avenue	850	1912
	5. Emma J. Kennedy, 15 Pleasant Avenue	850	1912
	5, 4. Lizzie W. Parkhurst, 22 Highland Avenue	850	1885
	4. Annie G. Sheridan, 57 Stanley Avenue, Medford	850	1886
	3. M. Katherine Davis, 9 Harvard Place	850	1904
	3, 2. Florence E. Locke, 393 Broadway, Cambridge	800	1899
	2, 1. Mary J. Dewire, 384 Washington Street	700	1913
	1. Alice B. Frye, 12 Champa Avenue, Malden	850	1904

*Leave of absence.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence.		Salary.	Began Service.
Grade.	Vinal Avenue.		
LUTHER V. BELL SCHOOL.			
	George M. Wadsworth, Master, Whitman	....	1912
	9. Alice L. Davis, 40 Vinal Avenue	\$1,000	1895
	9. Rena S. Hezelton, 48 Lawrence St., Medford	850	1909
	8. Esther L. Small, 17 Pleasant Avenue	850	1914
	8. Mrs. Blanche G. North, 25 Columbus Avenue	850	1893
	8, 7. Eva R. Barton, 33 North Street, Stoneham	850	1904
	7, 6. Ada G. Macdonald, 43 Babcock Street, Brookline	850	1914
	6. Mrs. Mabel T. Totman, 17 Pleasant Avenue	850	1893
	6, 5. Lillian E. Haskell, 41 Putnam Street	850	1913
	5, 4. Julia A. Simmons, 11 East Newton Street, Boston	850	1911
	4. M. Eunice Young, 209 Washington St., Winchester	850	1912
(JOHN A.) CUMMINGS SCHOOL.			
School Street, near Highland Avenue.			
	George M. Wadsworth, Master, Whitman	....	1912
	4, 3. Fannie L. Gwynne, Principal, 65 School Street	\$900	1886
	3, 2. Angeline Cann, Hotel Woodbridge	850	1897
	2, 1. Elizabeth L. Hersey, 96 Oxford Street	850	1896
	1. Mrs. Stella M. Hadley, 11 Greene Street	850	1914
(JOHN G.) EDGERLY SCHOOL.			
Cross and Bonair Streets.			
	Charles E. Brainard, Master, 82 Munroe Street	\$2,100	1889
	7. *M. Eva Warren, Weston	875	1906
	6. Annie L. Dimpsey, Hotel Woodbridge	850	1891
	7. Mary E. Richardson, 35 Auburn Avenue	850	1893
	7. Edith M. Snell, 4 Vine Street, Melrose	900	1900
	6. Isabelle M. Gray, 25 Webster Street	850	1897
	6, 5. Mabel C. Mansfield, 35 Auburn Avenue	850	1893
	5. Berta M. Burnett, 1619 Mass. Ave., Cambridge	850	1915
	5. G. Hortense Pentecost, 4 Walter Terrace	800	1905
	4. J. Louise Smith, 20 Red Rock Street, Lynn	850	1896
	4. Myrtle M. Irwin, 41 Putnam Street	600	1916
	3. Lillian Nealley, 109 Glen Street	850	1882
	2. Alice W. Cunningham, 62 Highland Avenue	850	1901
	1. Martha M. Power, 37 Gleason St., West Medford	850	1890
JACOB T. GLINES SCHOOL.			
Jaques Street, near Grant Street.			
	Mary E. Northup, Master, 9 Forster Street	\$2,100	1878
	7. Mary E. Stiles, 9 Forster Street	925	1883
	6. Ruth E. Clarke, 35 Montrose Street	850	1915
	6. Alice E. Wright, 12 Evergreen Avenue	600	1917
	5. Margaret A. Orr, 146 Massachusetts Ave., Boston	850	1890
	5. Harriet F. Ward, 119 Central Street	850	1895
	4. Mary A. Goddard, 9 Winter Hill Circle	850	1893
	4. Mrs. Carrie Armitage, 57 Madison Street	850	1899
	3. Florence E. Baxter, 49 Hudson Street	850	1891
	3. Alice C. Blodgett, 52 Adams Street	600	1917
	2. Edith M. Dow, 2 Pleasant Avenue	750	1914
	2. Florence W. Schroeder, 268 Summer Street	575	1915
	1. Leslie Caverly, 9 Wildwood Street, Winchester	850	1908
	1. Isabel J. Tift, 24 Central Road	850	1892
Kind'n.	Mrs. Etta D. Ellsworth, Trinity Court, Boston	750	1897
Asst.	Ida M. Kane, 28 Fellsway West	550	1905

*Leave of absence.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence.			Began
Grade.	Sycamore Street and Evergreen Avenue.	Salary.	Service.
(CHARLES) FORSTER SCHOOL.			
	Joseph A. Ewart, Master, 11 Bigelow Street	....	1913
7.	Elizabeth F. Clement, 29 Kidder Avenue	850	1884
7, 6.	Annie S. Gage, 32 Marshall Street	850	1881
6, 5.	Anna E. McCully, 12 Francis St.	500	1916
4, 3.	Carrie T. Lincoln, 65 Ashland Street, Medford	850	1893
3, 2.	Cora J. Demond, 146 Massachusetts Avenue, Boston	850	1900
2, 1.	Grace Shorey, 23 Forster Street	800	1892
(NORMAN W.) BINGHAM SCHOOL.			
Lowell Street, near Vernon Street.			
	Harry F. Hathaway, Master, 29 Albion Street	\$2,100	1890
7.	Elizabeth J. O'Neil, 29 Albion Street	1,000	1894
7, 6.	Jane Batson, 15 Florence Street, Malden	850	1900
6.	Maude M. Cunningham, 29 Albion Street	850	1913
6.	Helen M. Farr, 4 Oak Street, Belmont	575	1916
5, 4.	*Mrs. Gertrude P. Daly, 65 Playstead Road, Medford	600	1917
5.	May B. Thompson, 8 Chauncey Street, Cambridge	750	1918
5.	Elizabeth S. Brown, 58 Thurston Street	850	1897
4.	Clara L. Griffiths, 39 Ames Street	850	1902
4.	Anna R. Canfield, 205 Cedar Street	650	1914
3.	*Mrs. Agnes Fletcher, Waldo Street	500	1917
3.	Lynda V. Merrill, 26 Brastow Avenue	850	1912
3, 2.	G. Marion Lovering, 27 Flint Street	700	1913
2.	Priscilla A. Merritt, 96 Oxford Street	850	1885
1.	Mabel E. Mansir, 77 Albion Street	850	1894
1.	Lillian F. Commins, 24 Hanson Street	575	1914
1.	*Ethel Gross, 241 Summer Street	500	1917
MARTIN W. CARR SCHOOL.			
Atherton Street.			
	Chas. G. Ham, Master, 20 Washburn St., Watertown	\$2,100	1898
9.	May E. Berry, 14 Billingham Street	925	1884
8.	Clara D. Eddy, 71 Central Street	850	1900
8.	Susie L. Luce, 21 Francesca Avenue	850	1891
7.	Harriet A. Hills, 14 Billingham Street	850	1877
7.	Leila L. Rand, 47 Norfolk Road, Arlington	850	1906
6.	Marie T. Smith, 7 Woodbridge Street, No. Camb.	850	1898
6.	Grace T. Merritt, 47 Cherry Street	850	1897
5.	L. Alice Grady, 24 Cambria Street	850	1912
5.	Elizabeth S. Foster, 10 Cambria Street	850	1895
4.	Dorothy Lundgren, 50 Harrison Street	550	1915
3.	Mrs. Mary B. Soule, 39 Walnut Street	850	1902
3.	Eva S. Bent, 6 Steeves Circle	850	1915
3.	Bessie I. Berry, 38 Wyllis Avenue, Everett	850	1915
2.	Annie B. Russell, 14 Kidder Avenue	850	1901
2.	Mary E. Flanley, 9 Avon Street, Wakefield	650	1915
1.	Frances E. Welch, 303 Highland Avenue	800	1908
1.	Mabel Ingham, 27-b Summer Street	550	1912

*Temporary teacher.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence.		Salary.	Began Service.
Grade.	41 Atherton Street.		
GIRLS' VOCATIONAL SCHOOL.			
	Mary Henleigh Brown, Prin., 5 Linnaean St., Camb.	\$1,600	1911
	Mary Donoghue, 10 Miller Avenue, Cambridge	800	1911
	Theresa Morrison, 174 Broadway	700	1912
	Lucy Dorr, 21 Spring Hill Terrace	700	1911
	Marion P. Crawford, 58 Central Street	900	1911
	Mrs. Vernie Neily, 96 Heath Street	600	1916
	†Gertrude Zeiss, 94 Mehoiden Road, Waban	300	1916
	Emma M. Damon, 89 Central Street	800	1908
	Flora E. Stevens, Secretary, 45 Kidder Avenue	\$9 per wk.	1915
(ENOCH R.) MORSE SCHOOL.			
Summer and Craigie Streets			
	Mina J. Wendell, Master, 211-A Summer Street	\$2,100	1882
	9. Mrs. Harriette C. Hamilton, 10 Cambria Street	925	1900
	9, 8. Mrs. Mae W. Conant, 14 School Street, Salem	600	1917
	7. Lennie W. Bartlett, 10 Cambria Street	850	1893
	6. Helene H. Parker, 26 Gibbens Street	850	1916
	5. *Blanche E. Thompson, 33 Hudson Street	850	1906
	5. N. Elizabeth Kennedy, 29 Greene Street	600	1917
	5, 4. Eva A. Wilson, 52 Crescent Circuit, Brighton	600	1917
	4, 3. Cora E. Crawford, 233 West Newton Street, Boston	850	1912
	3, 2. Mrs. Agnes C. Rice, 34 Highland Avenue	850	1900
	2. Lena Munroe, 211-A Summer Street	850	1913
	2, 1. Alice C. Ray, 26 Lowden Avenue	850	1914
	1. Helen L. Tuck, 43 Paulina Street	850	1912
GEORGE O. PROCTOR SCHOOL			
Hudson Street.			
	Harry F. Hathaway, Master, 495 Broadway	.....	1912
	7. Nora F. Byard, Principal, 27 College Avenue	\$1,000	1884
	6. Alice G. Hosmer, 42 Boston Street	850	1906
	5. Abbie A. Gurney, 88 Belmont Street	850	1888
	4. Ella P. McLeod, 163 Summer Street	850	1888
	3. Edith L. Hunnewell, 41 Mason Street	850	1894
	2. Mary S. Richardson, 347 Boston Avenue, Medford	850	1906
	1. Lucia Alger, 10 Cambria Street	850	1889
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets			
	4. Abigail P. Hazelton, Principal, 58 Central Street	\$900	1902
	3. Grace E. Packard, 12 Carlisle Street, Roxbury	850	1912
	2. Mary Winslow, 23 Hall Street	850	1887
	1. Alice M. Dicker, 82 Marion Street, East Boston	850	1912
MARK F. BURNS SCHOOL.			
Cherry Street, near Highland Avenue.			
	Frank W. Seabury, Master, 18 Winslow Avenue	.....	1911
	4. Lizzie E. Hill, 121 St. Stephen St., Boston	850	1890
	4. Mrs. Margaret D. Hellyar, 246 Highland Avenue	900	1909
	3. Annie L. Brown, 4 Saginaw Avenue, No. Camb.	850	1885
	3. Margaret Beattie, Assistant, 401 Washington Street	650	1914
	2. Mary E. Lacy, 63 Cherry Street	850	1890
	2. Ardelle Abbott, 71 Craigie Street	850	1896
	1. Alice E. Morang, 114 Belmont Street	850	1893
	1. Ruth E. Andrews, 18 Curtis Avenue	700	1917

†Part-time. *Leave of absence.

TABLE 29.—Teachers in Service January, 1918.—Continued.

Name and Residence.			Began
Grade.		Salary.	Service.
BENJAMIN G. BROWN SCHOOL.			
Willow Avenue and Josephine Avenue.			
	Geo. I. Bowden, Master, 92 Monument St., W. Med.	\$2,100	1908
6.	Mary T. Ford, 154 Elm Street, Cambridge	850	1911
6.	Anna N. Johnson, 33 Everett Avenue	800	1913
5.	Annie Sanburn, 11 East Newton St., Boston	850	1906
4, 3.	Helen L. Galvin, 1681 Beacon St., Brookline	850	1903
4.	Martha R. Taylor, 26 Simpson Avenue	850	1914
3.	Alice M. Dorman, 159 Morrison Avenue	850	1903
2.	Mrs. Grace H. Bliss, 33 Whitfield Road	850	1900
2, 1.	Bessie Thorpe, 16 Park Place	575	1915
1.	Persis A. Richardson, 57 Dartmouth Street	850	1916
HIGHLAND SCHOOL.			
Highland Avenue and Grove Street.			
	Frank W. Seabury, Master, 18 Winslow Avenue	\$2,100	1911
7.	Grace M. Clark, 10 Vernon Street, West Medford	925	1893
7.	Mary H. Joyce, 888 Mass. Ave., Camb.	850	1891
7.	Ethel M. Park, 48 Electric Avenue	750	1916
6.	Lillian F. Richardson, 129 Mt. Auburn St., Camb.	850	1904
6.	Marie Clifford, 35 Langdon Street, Cambridge	850	1907
6.	Cara M. Johnson, 42 Prentiss Street, Cambridge	850	1897
6.	Sophia C. Mague, 1766 Washington St., Auburndale	850	1917
5.	Marion Allen, Danvers	850	1911
5.	Eva E. Perkins, 48 Astor Street, Boston	850	1911
5.	Eva M. Barrows, 71 Hudson Street	850	1903
4.	Harriet M. Bell, 888 Massachusetts Ave., Cambridge	850	1904
WILLIAM H. HODGKINS SCHOOL.			
Holland Street.			
	Arthur L. Doe, Master, 27 Spruce Street, Malden	\$2,100	1896
7.	*Mrs. Gertrude W. Leighton, Abington	850	1895
6.	Flora A. Burgess, Arlington Heights	850	1894
5.	Catherine A. Burden, 19 Wallace Street	850	1902
4.	Genieve R. Barrows, 78 Porter Road, Cambridge	850	1905
3.	Katherine M. Fox, Stoneham	850	1896
2.	Inez Prentiss, 54-R College Avenue	850	1913
1.	May V. Powell, 47 Centre Street, Malden	850	1913
Asst.	Louise Deady, 84 Bay State Avenue	425	1917
S. NEWTON CUTLER SCHOOL.			
Powder House Boulevard, near Raymond Avenue.			
	Harlan P. Knight, Master, 22 Hamilton Road	\$2,100	1897
7.	Lilla E. Mann, 50 Curtis Street	850	1902
7.	Edith A. Maxwell, 43 Whitfield Road	850	1906
7.	Bernice J. Andrews, Assistant, 10 Locke Street	925	1914
6.	Ella H. Bucknam, 1105 Broadway	850	1897
6.	Georgie B. Collins, 1137 Mass. Ave., Cambridge	800	1916
6.	†Mrs. Lura E. Babcock, 36 Curtis Street	600	1917
5.	Mrs. Elva A. Cutler, 36 Powder House Boulevard	850	1911
5.	Bessie J. Baker, 19 Mills Street, Malden	850	1905
5.	†Mrs. E. Florence Watkins, 22 Hamilton Road	600	1916
4.	Bessie A. Mirfield, 62 Raymond Avenue	800	1916
4.	Hazel McMillan, 7 Columbus Avenue	600	1916
3.	Mary L. Ennis, 785 Broadway	800	1915
3.	Inez M. Rodgers, 30 Conwell Avenue	850	1915
2.	Almena J. Mansir, 77 Albion Street	850	1899
1.	Annie H. Hall, 97 College Avenue	850	1906
1.	Mary L. McKenna, 294 Lowell Street	550	1915
Asst.	Mrs. Katie L. Harmon, 187 Elm Street	550	1916

*Leave of absence. †Temporary teacher.

TABLE 29.—Teachers in Service January, 1918.—Concluded.

Name and Residence.		Salary.	Began Service.
Grade.	Broadway, near Teele Square.		
LINCOLN SCHOOL.			
	Harlan P. Knight, Master, 22 Hamilton Road	....	1914
2.	Eliza H. Lunt, Principal, 50 Curtis Street	\$900	1889
3.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	850	1911
2.	Olevia M. Woods, 116 Powder House Boulevard	850	1908
1.	Hortense F. Small, 91 Electric Avenue	850	1912
MARTHA PERRY LOWE SCHOOL.			
Morrison Avenue, near Grove Street.			
	George I. Bowden, Master, 92 Monument St., W. Med.	....	1908
4.	May E. Small, Principal, 16 Summit Street	\$1,000	1900
4.	Stella M. Holland, 32 Hall Avenue	850	1903.
3.	Maude C. Valentine, 1098 Broadway	850	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	850	1888
2.	Katherine E. Hourahan, 15 Summit Street	850	1892.
2.	Clara G. Hegan, 100 School Street	850	1897
1.	Martha A. Jencks, 33 Chester Street	850	1898.
1.	Octavia A. Stewart, 15 Kenwood Street	800	1917.
EVENING SCHOOL PRINCIPALS.			
	Harry L. Jones, High	\$6.00	
	John S. Emerson, Bell	5.00	
	Charles E. Brainard, Highland	4.00	
CADET TEACHERS.			
	Margaret M. Brennan, 15 Laurel Street	\$200	1917
	Stella Bucknam, 319 Highland Avenue	200	1917
	Alice Cumming, 117 School Street	200	1917
	Doris D. Farr, 27 Gibbens Street	200	1917
	Gertrude E. Gaddis, 9 Mountain Avenue	200	1917
	Marcella M. Garrick, 295 Lowell St.	200	1917.
	M. Gertrude McCarthy, 36 Brastow Avenue	200	1917
	Clare Sweeney, 48 Walnut Street	200	1917
	C. Edith Taylor, 36 Flint Street	200	1917.
SPECIAL TEACHERS.			
Music.			
13-7.	James P. McVey, 29 Hammond Street Cambridge	\$1,800	1915.
6-1.	Mrs. Charlotte D. Lawton, 11 E. Newton St., Boston	1,100	1898.
Drawing.			
9-1.	Clara M. Gale, 7 Westwood Road	1,200	1911.
Sewing.			
	Mary H. Brown, Supervisor, 5 Linnaean St., Camb.	*200	1913.
8-5.	Mary L. Boyd, 74 Heath Street	850	1888.
8-5.	Mrs. Emma J. Ellis, 54 Marshall Street	850	1900.
8-5.	Charlotte Holmes, 24 Cambria Street	\$425	1913
8-5.	Josephine G. Nicholson, 368 Highland Avenue	700	1917
Penmanship.			
9-1.	Ruth L. Whitehouse, 333 Broadway	1,000	1915
Manual Training.			
	Harry L. Jones, Supervisor, 137 Pow. House Blvd.	†200	1911
9, 8.	Eva G. Hardy, 64 Avon Street	900	1912
Physical Instruction.			
9-1.	Ernst Hermann, 9 Humboldt Street, Cambridge	1,250	1914
Atypical.			
	Mary A. Holt, 72 Boston Street	900	1910
	Mrs. Bertha M. Morton, 62 Highland Avenue	900	1913

*Additional to salary as Principal of Girls' Vocational School.

†Additional to salary as Principal of Boys' Vocational School.

§Part-time.

TABLE 30.—OFFICERS, ETC., IN SERVICE JANUARY, 1918.

Name and Address.	Salary.
SUPERINTENDENT AND SECRETARY.	
Charles S. Clark, 75 Munroe Street	\$3,850
CLERKS.	
Justin W. Lovett, 29 Cambria Street	1,500
Mary A. Clark, 42 Highland Avenue	1,000
Mildred A. Merrill, 26 Cambria Street	850
H. Madeline Kodad, 1067 Broadway	\$9 per wk.
ATTENDANCE OFFICER.	
Benjamin R. Jones, 25 Loring Street	1,500

TABLE 31.—SCHOOL JANITORS, JANUARY, 1918.

School..	Name.	Residence.	Weekly Salary
High School, S	John H. Kelley	7 Madison St.	\$30.00
High School, assistant	Andrew R. Burke	337 Lowell St.	19.00
High School, assistant	Jeremiah M. Brennan	482 Medford St.	18.00
High School, assistant	John N. Quirk	202 Somerville Ave.	18.00
High School, assistant	Nicholas J. Lacey	85 Franklin St.	18.00
High School, fireman	Charles Hoyt	18 Trull St.	21.00
E. Som. J. High, S, 11	James J. Quirk	32½ Tufts St.	19.50
Prescott, S, 12	Geo. A. McGunnigle	23 Lincoln St.	21.00
Hanscom, S, 10	Charles F. Rose	15 Brastow Ave	19.50
Boys' Vocational, F, 4	George H. Clapp	35-A Franklin St.	15.50
Bennett, S, 12	Michael Mullaney	467 Somerville Ave.	21.00
Baxter, S, 6	Andrew H. Finnegan	94 Concord Ave.	16.00
Knapp, S, 12	Maurice T. Mullins	13 Fremont Ave.	21.00
Perry, S, 6	*George B. Phillips	3 Emerson St.	17.00
Pope, S, 12	John J. Kilty	662 Somerville Ave.	21.00
Bell, S, 12	William Meskill	53 Partridge Ave.	21.00
Cummings, F, 4	Lewis G. Keene	56 Prescott St.	16.00
Edgerly, S, 12	Charles P. Horton	22 Everett Ave.	21.00
Glines, S, 14	Roy C. Burckes	20 Jaques St.	22.00
Forster, S, 12	George W. Coombs	73 Bonair St.	21.00
Winter Hill J. High, S, 11	Michael A. Mullin	16 Bowdoin St.	18.50
Bingham, S, 16	John F. O'Brien	347 Lowell St.	24.00
Carr, S, 16	John H. Lane	5-A Belmont St.	27.00
Morse, F, 12	John W. Cremen	69 Oxford St.	21.00
Proctor, S, 8	James F. Flynn	31 Linden St.	18.50
Durell, S, 4	Ellsworth C. Lundgren	50 Harrison St.	15.50
Burns, S, 8	Dan'l E. Cunningham	23 Fitchburg St.	18.50
Brown, S, 10	*James J. Cooper	105 Willow Ave.	19.50
Highland, S, 12	E. Parker Cook	103 Willow Ave.	21.00
Hodgkins, S, 14	George A. Givan	17 Henry Ave.	22.00
W. Somerville J. High	Chauncey B. Phelps	25 Joseph St.	25.00
Cutler, S, 12	Daniel Campbell	85 Lexington Ave.	21.00
Cutler, Assistant	Walter M. Burns	23 Avon St.	18.00
Lincoln, S, 4	Thomas F. O'Day	134 Lowell St.	15.50
Lowe, S, 8	John F. Richardson	190 Morrison Ave.	18.50
Girls' Vocational, F, 6	Thomas G. Pullen	6 Madison St.	15.50

Buildings heated by steam are marked "S," by furnace "F." The numbers show the number of rooms.

The high school is heated from the Central heating plant.

*Leave of absence.

PUBLIC LIBRARY.

BOARD OF TRUSTEES.

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The President, Messrs. Barber, Buffum, Bryant, Bumpus.

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The President and the Vice-President.

Secretary of the Board.

GEORGE H. EVANS.

Report of the Trustees.

To the Honorable, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen,—The forty-fifth annual report of the trustees
of the public library is herewith respectfully submitted; being
the report of the librarian and tables of statistics of operation.

Very respectfully,

The Board of Trustees, by

THOS. M. DURELL,
President.

ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.

December 31, 1917.

GEORGE HILL EVANS, Librarian.

NELLIE M. WHIPPLE, Assistant Librarian.

CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.

Highland Avenue and Walnut Street.

Open daily, except holidays: Week days, 9 a. m. to 9 p. m. Sundays, reading and reference only, 3 to 6 p. m. Children's room, school days, 3 to 8 p. m. Other week days, 9 a. m. to 8 p. m.

DEPARTMENT HEADS AND SPECIAL POSITIONS.

ESTHER M. MAYHEW, Reference Librarian.

EDITH B. HAYES, Chief Cataloguer.

HELEN LUITWIELER, Director of Training Class and Editor of Publications.

EDNA C. WOODBURY, Children's Librarian.

MARGARET M. KNEIL, High School Librarian.

BEATRICE E. KELLIHER, School Deposits.

VIVIAN J. MORSE, Librarian's Assistant.

ANNA L. STONE, Periodicals.

MARY S. WOODMAN, Reviewer and Classifier.

Senior Assistants.

Myrtle Nicholson.

Helen P. Smith.

Evelyn V. Snow.

Junior Assistants.

Edythe L. Miller.

Frances E. Haggens.

Marguerite C. Kelly.

Gladys B. Hastings.

L. Eugenie Carter.

UNGRADED SERVICE.**Catalogue Department.**

Marion L. Fall.

CIRCULATION DEPARTMENT.**Pages.**

Lillian McGowan.

Mildred L. Ryder.

Attendants and Pages on Part Time.

Edward Burke.

Alfred R. Dugan.

Doris Campbell.

Roger W. Hodgdon.

Lawrence W. Coddling.

Lena Kaplan.

Edith Lynch.

WEST SOMERVILLE BRANCH.

Established 1909.

40 College Avenue.

Open week days, except holidays, 1 to 9 p. m. Saturdays, 9 a. m. to 9 p. m.

LUCINDA F. SPOFFORD, Branch Librarian.

Senior Assistants.

ANNA B. TRUESDALE, Children's Librarian.

SUSAN W. CURTIS (On leave). ABBIE G. GLOVER.

NECTAR M. EKSERGIAN. MILDRED HOLT.

UNGRADED SERVICE.**Page.**

MAE L. GORMLEY.

Attendants and Pages on Part Time.

ROGER B. ESTEY.

E. LOUISE SHAW.

DUDLEY MOORE.

LILLIAN TRASK.

BERNHARDENA MORRISON.

S. LEONE WARREN.

EAST SOMERVILLE BRANCH.

Established 1912.

153 Perkins Street.

Open week days, except holidays, 2 to 9 p. m.

CARRIE L. WILLIAMS, Branch Librarian.

Senior Assistants.

RUTH S. FALES.

UNGRADED SERVICE.**Attendants and Pages on Part Time.**

RUTH O. ADAMS.

CECILE McDONALD.

GERTRUDE FRENCH.

DORIS WADMAN.

UNION SQUARE BRANCH.

Established 1912.

Washington Street and Bonner Avenue.

Open week days, except holidays, 2 to 9 p. m.

MABEL E. BUNKER, Acting Branch Librarian.

Senior Assistants.

HELEN MARTIN, Children's Librarian.

ETHEL M. NUTE.

UNGRADED SERVICE.**Attendants and Pages on Part Time.**

BESSIE J. BERMAN.

F. ADELAIDE FURLONG.

CATHERINE M. McCAFFREY.

NOTE: For changes in staff personnel during the year, see Librarian's report.

Report of the Librarian.

Gentlemen of the Board of Trustees:—

The Forty-fifth annual report of the Somerville Public Library, summarizing its activities for the year 1917, is herewith submitted. It is also the first report of the present librarian.

Reference to the statistical tables appended to this report shows a healthy growth in the use of the library. The total circulation of the Central library and its branches, 418,330, is the largest in its history, and is an increase over 1916 of 27,865. This is the figure for actual loans for home use from the various library buildings in accordance with the American Library Association standard of computation, now very generally adopted by progressive libraries in the United States. This does not include the thousands of volumes lent for home use by teachers from deposits in public and parochial schools. Although these books are in constant use it has not been deemed expedient to impose upon the already busy teachers the additional burden of keeping account of the circulation. Under the former method of estimating 111,804 would be added, bringing the total circulation to 530,134.

Central Library.

Mr. Drew B. Hall, Librarian since May, 1911, resigned from the position on May 1. Mr. Hall is now in the United States military service with the rank of Captain. The vacancy was filled on the same date by the election of George H. Evans, Librarian of the Woburn Public Library. Miss Lucy B. Crain, Assistant Librarian, resigned February 1. On April 3, Miss Nellie M. Whipple, who had shared the title of Assistant Librarian, with assignment at West Somerville Branch, was made the sole incumbent of that position with assignment at Central. March 3, Miss Hazel M. Graham, Librarian's Assistant, resigned, and also on March 24, Miss Alice G. Higgins, Special Assistant in the children's room. The former position was filled on May 21 by the election of Miss Vivian J. Morse. Other resignations from the salaried staff at Central are those of Misses M. Hope Carpenter, Juliana Donovan, Rose Greenberg, Esther W. Shaw, and Elsie K. Wells. Other appointments at Central have been: Miss Edna C. Woodbury, Children's Librarian, and Miss Beatrice E. Kelliher, in charge of School Deposits. On October 1 Miss Edith B. Hayes returned to the head of the Catalogue Department after a year's leave of absence. Miss Helen Luitwieler, who in her absence filled the position acceptably, has been appointed Director of the Training Class and Editor of Publications. Miss Helen P. Smith has been promoted to Assistant Cataloguer. James G. Geddes resigned

August 10 to attend the Plattsburgh training camp, and has since received his commission as Second Lieutenant in the United States army.

West Somerville Branch.

The West Somerville Branch shows an increase in circulation of over thirteen thousand. Of this seven thousand is in the children's room. The building is seriously overcrowded, especially in the children's room, and the work is thereby greatly hampered. When relief from this condition comes it should be in the form of an added wing to the building, to provide for the children adequate accommodations with separate entrance, and also additional work room facilities. Fortunately the size of the lot and the arrangement of the present interior are peculiarly adapted for this solution.

In June Mrs. Lucinda F. Spofford was transferred from Union Square as Branch Librarian to succeed Miss Whipple. On September 23 Miss Susan W. Curtis received a year's leave of absence for the purpose of further study in college. On October 15 Miss Mildred Holt, Librarian of the Shute Memorial Library, Everett, Mass., was appointed to the staff of this Branch as Senior Assistant.

East Somerville Branch.

The Carnegie building which is to house the East Somerville Branch is still in process of construction and there is no prospect of its being turned over to the library until well into the year 1918. Preliminary arrangements have been perfected for moving into the new building whenever it is ready without interruption of service to the public. Measures have been taken to enhance the attractiveness of the interior by the purchase of four large and superb imported carbon prints of the following subjects; the Palazzo Vecchio, Florence, Italy; the Interior of Milan Cathedral; the Rheinstein Castle; and a view of the Matterhorn from Zermatt. These were bought from the income of the Pitman Art Fund. Special allowances from the income of available trust funds have been made for the purchase of additional new books. On April 20 Miss Louise M. Hoxie resigned from the East staff.

Union Square Branch.

During the spring months Union Square Branch was more than doubled in capacity by the addition of a delightfully sunny and commodious children's room. In connection with this were other minor but still important improvements which combine to make this Branch most attractive. In June Miss Mabel E. Bunker, First Assistant at West Somerville Branch, was transferred to Union Square Branch as Acting Branch Li-

brarian. In November the staff was further strengthened by the appointment as Children's Librarian of Miss Helen Martin, who brings to the position a promising equipment of technical training and experience.

High School Department.

The report of the High School Librarian indicates a growing sense among both teachers and pupils of the value of the library as an adjunct of the educational establishment. During the school sessions of 1917 the attendance in the High School Library was 22,215, and 6,122 books were lent to pupils. The High School owns about 4,000 volumes, while the library has on deposit there 372 volumes. For temporary use 1,342 volumes were lent in deposits from the Central library to this department during the year. Lectures on the general use of the library, and of reference books in particular, have been given from time to time.

In no part of library work is the contact between librarian and user more intimate. At no other period of their lives are the users so plastic and impressionable. At no time do the groping attempts of the individual at self-expression so urgently need wise and sympathetic guidance. The personality of the librarian must count here more heavily than any other factor of her equipment. It is her high privilege to be at once a friend, a mentor, and a guide. Given a real vision of this work the incumbency of such a position can hardly fail to breed a deep and impelling sense of personal responsibility and obligation.

School Deposits.

October 1 Miss Beatrice E. Kelliher took charge of School Deposits. During the brief period before the end of the year she has placed a deposit of books in every class room of the graded schools except two, and three deposits in parochial schools. The total number of books thus deposited is 5,664. Miss Kelliher has in addition visited fifty-three rooms, and has done a surprising amount of cataloguing and other systematizing work upon the collection of school deposit books.

The establishment of the new Junior High schools presents to the library another problem. There are no books now available for deposit in the Junior High buildings. How the library can supply this need except by special appropriation by the city is not apparent. This gap between the graded schools and the High School should not long be left unbridged.

The Question of Promotion.

The year 1917, as we have seen, has been fruitful of changes in the staff personnel. Aside from the many always to

be expected in the ranks of the part time employees there have been ten resignations in the salaried staff. The opportunities for advancement thus offered are naturally, and quite properly, a source of interest to members of the staff, and of speculation regarding the basis upon which appointments are made. In filling vacancies it is the policy of the Trustees and the Librarian to promote assistants already in the employ of the library. Before going outside to make appointments possibilities of promotion within the staff have, in each case, been carefully canvassed.

Promotion implies growth,—something more than the mere performance of routine duties. While faithfulness deserves, and we believe receives, substantial recognition, advancement to positions of more exacting responsibilities calls for additional personal and professional equipment at each step. The transition to a greater place in the scheme of affairs is not by the single executive act called promotion. It is by the growth of the individual which the act of promotion recognizes. The assistant ambitious for promotion will do well to ponder this essential factor of her own growth. She may well ask herself some of the questions that will certainly be asked about her. Is she well fitted by natural aptitude and educational and technical training for the particular work involved? Has she shown by her daily work, attitude, and growth the capacity for greater responsibility and more exacting intellectual demands? Has she such a mastery of the tools of her profession as to enable her to inspire confidence in the quality of her work and in that of the library as an educational institution? Has she shown in the discharge of her present duties initiative, resourcefulness, and the energy that is not satisfied with present results, but is ever reaching out for more and better? Can she convert ideas into action? Has she shown the ability to deal tactfully with the public, and to avoid friction with her associates? In matters involving discretionary power over other employees has she the breadth of vision to make decisions not determined by personal likes and dislikes? Has she the quality of leadership, the power to dominate and to direct without offense, to plan the work of others and get it done, to recognize and turn to account the special abilities of others? As in other walks of life these are elements of success in the library field.

The Library Training Class.

On September 27, an examination for admission to the apprentice class was held under the auspices of the Massachusetts Free Public Library Commission. Three candidates were admitted, one of whom withdrew at the end of a month on account of delicate physical condition. The class is in session

for a term of six months during which period the pupils give their time and services for the instruction and training they receive. The training consists of lectures, demonstrations, examinations and other written work, actual practice work in the various departments of the library, visits of inspection to other libraries, and a considerable amount of outside reading and study. Upon completion of the course those pupils whose work has been satisfactory become eligible for appointment to the library staff in case of vacancy. The library does not guarantee employment. Pupils are accepted with this understanding. The class is under the immediate direction of Miss Helen Luitwieler.

The work is not devoted solely to the training of apprentices. A very important feature is the supplementary or continuation courses for assistants already in the service. This provides a means for the individual to increase the range and efficiency of her work, and for the library to maintain a higher average standard of staff service. Assistants who have availed themselves of the opportunity in the following subjects are: Miss Fales in Cataloguing and Classification, Miss Hastings in Classification, and Misses Eksergian, Nicholson, and Snow in Reference. The salutary effects of this work are already felt in renewed interest and efficiency.

The Book Bulletin.

One of the last acts of Mr. Hall before his resignation was the recommendation of a radical change in the Book Bulletin. This was later accomplished through the agency of the Book Committee. The Bulletin in its much improved form is now issued monthly, except in August and September, and is ready for distribution promptly on the first day of each month.

War Measures.

In common with all people and institutions, the library has been affected in various ways by war conditions. The members of the staff have given freely of their time and money for various good causes. They subscribed to the first Liberty Loan to an amount of \$1,600. The library was the natural center around which were grouped the activities of the Soldiers' Camp Libraries drive. The President of the Board of Trustees was Chairman of the committee of citizens for that campaign. The library staff contributed to the fund \$90. Somerville people gave through the library for the use of soldiers and sailors about two thousand volumes and an un-numbered quantity of magazines. The Librarian takes this opportunity of placing upon record due acknowledgments for these gifts.

Toward the latter part of December we became affected by

the fuel shortage. On December 21, by direction of the Mayor and the President of the Board of Trustees, all library buildings in the city began to close for the day at 4 p. m., and to omit Sunday afternoon opening. In order partly to compensate for evening closing the Branches at the same time began to open for the day at 9 a. m. Before this report is in print more radical conservation measures may be necessary.

Respectfully submitted,

GEORGE H. EVANS,
Librarian.

The Public Library of the City of Somerville.

APPENDIX A.

Statistics of Use and Growth, 1917.

Circulation.

	Central	West	East	Union	Total
Volumes circulated, adults	133,148	91,588	33,603	26,917	285,256
Volumes circulated, juvenile	47,198	37,883	17,849	30,154	133,084
Total circulation (A. L. A. rules)	180,346	129,471	51,452	57,071	418,340

Accessions.

Volumes in library (January 1, 1917)	93,368	10,411	3,330	3,227	110,336
Volumes added	4,774	1,772	1,565	1,758	9,869
Volumes transferred to	35	78	123	292	528
Volumes restored	50	4	1	4	59
Total added	4,859	1,854	1,689	2,054	10,456
Volumes withdrawn	3,216	682	406	490	4,794
Volumes transferred from	492	23	2	11	528
Volumes lost	175	61	9	9	254
Total loss	3,883	766	417	510	5,576
Net gain	976	1,088	1,272	1,544	4,880
Volumes in library (December 31, 1917)	94,344	11,499	4,602	4,771	115,216

Registration.

New borrowers registered	1,595	1,213	403	738	3,949
Valid borrowers' cards, i. e. registered or renewed within two years					13,977

APPENDIX B.

American Library Association Form for Uniform Statistics.

Annual report for year ended December 31, 1917.

Name of Library, The Public Library.

City or town, Somerville; State, Massachusetts.

Population served (1917 Draft Estimate)..... 90,000

Terms for use—Free for lending.

Free for reference.

Total number of agencies..... 238

Consisting of—Central Library

3 Branches (separate buildings)

1 Station

High School Department

228 School Rooms

4 Institutions.

Number of days open during year (Central Library) 303
for lending, 355 for reading.

Hours open each week for lending (Central Library).... 72

Hours open each week for reading (Central Library).... 75

Number on staff (library service, adding part time em-
ployees to make whole units) December 31, 1917.... 38

Number of volumes at beginning of year..... 110,336

Number of volumes added during year by purchase.... 10,038

Number of volumes added by gift or exchange..... 150

Number of volumes added during year by binding ma-
terial not otherwise counted..... 268

Number of volumes withdrawn during year..... 5,576

Total number at end of year..... 115,216

Adult. Juvenile.

Number of volumes of fiction lent
for home use..... 90,760 25,816 116,576Total Number of volumes lent for
home use..... 285,256 133,084 418,340*All books except 7 day and juvenile (2 weeks) lent for
one calendar month.*

Number of borrowers registered during year..... 3,949

Total number of valid cards December 31 (*used within
two years*)..... 13,977Number of newspapers and periodicals currently received,
192 titles, 550 copies.

Receipts From:

Local Taxation:

Library Department	\$33,953 19
Public Buildings Department	10,920 00

Endowment Funds:

Total credit	1,989 01
Fines	1,471 55
Other sources: Dog licenses	2,575 26

\$50,909 01

Payments For:

Books	\$9,059 72
Pictures	118 60
Periodicals	1,366 57
Music	279 30
Binding	2,513 66
Salaries, library service	23,643 65
Other maintenance	2,437 86

Public Buildings Department:

Janitor service, heat, light, etc.,	10,848 00
Balance	72 00
Balance from Appropriation	3 32
Balance from Endowment funds	566 33

\$50,909 01

BOARD OF HEALTH.

1917.

RALPH F. HODGDON, M. D., Chairman.

ROBERT M. LAVENDER.

WARREN C. BLAIR.

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD.

Agent.

GEORGE I. CANFIELD.

Medical Inspector.

FRANK L. MORSE, M. D.

Entered Medical Officers' Reserve Corps, U. S. Army, August 14, 1917.
Granted indefinite leave of absence.

Acting Medical Inspector.

*C. CLARKE TOWLE, M. D.

Acting Bacteriologist.

*HERBERT E. BOWMAN, Ph. G.

Inspector of Animals and Provisions.

CHARLES M. BERRY, V. S.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN, Ph. G.

Milk Collector.

GEORGE E. PLIMPTON.

Plumbing Inspector.

DUNCAN C. GREENE.

* From August 14, 1917.

Report of the Board of Health.

OFFICE OF THE BOARD OF HEALTH, }
City Hall Annex, January 1, 1918. }

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—We respectfully submit the following as the fortieth annual report of the Board of Health in which, is presented a statement, tabulated, and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1917.

Nuisances.

A record of nuisances abated during the year, in compliance with notices issued by the board, or under the board's direction, is presented in the following table:—

Animals kept in cellars	3
Blacksmith shops whitewashed	10
Cellar, water in	16
Cellars filthy	30
Defective garbage houses	29
Dirty milk utensils	8
Factories unsanitary	4
Fish box unsanitary	11
Garbage thrown in yards	20
Hens being kept without permit	34
Hens running at large	2
Manure pits offensive	15
Milk rooms, screens not on	2
Plumbing unsanitary	25
Privy vaults ordered removed	3
Roosters being kept	17
Rubbish on vacant land	29
Stables occupied without license	36
Stables not connected with sewer	13
Stables whitewashed	55
Stables ventilated	5
Stores (bakeries) whitewashed	9
Stores and utensils dirty	24
Tenements unsanitary	9
Unlicensed animals	12
Unclassified	80
Water-closets, foul odors from	7
Water-closets without water	9
Water pipes burst	1
Water turned off, house not tenantable	3
Yards filthy	161
Total	682
Complaints referred from 1916	63
Complaints received during 1917	619
	682

Complaints referred to 1918	29
Nuisances abated 1917	653
Second, third and fourth notices sent on nuisances	92
Received during 1917	619
Total notices sent	711

In addition to the above, 263 dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders.—Twelve cases of glanders have been reported during the year. Prompt action was taken in every case, and nine of the horses were killed, three being released from quarantine by order of the cattle commissioners.

Permits.

The record of permits to keep cows, swine, goats and hens, and to collect grease is as follows:—

Cows.—Eleven applications were received for permits to keep fourteen cows, ten of which were granted to keep thirteen cows, and one refused to keep one cow.

Swine.—Twenty-one applications were received for permits to keep forty-nine swine, eighteen of which were granted to keep forty-three swine. The fee is one dollar for each swine.

Goats.—Nine applications were received for permits to keep ten goats, eight of which were granted to keep nine goats. The fee is one dollar for each goat.

Hens.—One hundred and forty-two applications for permits to keep 2,723 hens were received. One hundred and twenty permits to keep 1,884 hens were granted, and twenty-two permits were refused.

Grease.—Twelve applications were received for permits for fourteen teams to collect grease, which were granted. The fee is two dollars for each team.

Melting and Rendering.—Three parties have been licensed to carry on the business of melting and rendering, under the provisions of the revised laws of 1902, chapter 75, section 111, for which a fee of one dollar is charged.

Massage and Manicure.—Eight persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

Stables.

No person has the legal right to erect, occupy or use any building in this city, as a stable, without obtaining a license from this Board for such occupancy. Each application is referred to the Agent of this Board and no license is granted unless all regulations of the Board are complied with. The following is a record of applications received and licenses granted:—

Applications pending from 1916		121
Applications received during 1917		48
		169
Licenses granted	106	
Licenses refused	40	146
		23

Board of Infants.

Twenty-two parties, whose applications were first approved by this board, have been licensed by the state board of charity to care for forty-four children in this city, under the provisions of chapter 83 of the revised laws of 1902.

Deaths.

There were 1067 deaths and sixty-seven stillbirths in the city during the year, as specified in the following table, which shows a decrease of deaths under the previous year of fourteen.

Deaths at Somerville hospital during the year	99
Deaths at hospital for contagious diseases and tuberculosis	41
Deaths at home for aged poor (Highland avenue)	48
Deaths at city home	11
Deaths at other institutions	38

DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one	136	72	64
One to two	28	16	12
Two to three	10	5	5
Three to four	13	7	6
Four to five	11	5	6
Five to ten	20	11	9
Ten to fifteen	16	11	5
Fifteen to twenty	18	7	11
Twenty to thirty	54	24	30
Thirty to forty	56	29	27
Forty to fifty	102	54	48
Fifty to sixty	119	52	67
Sixty to seventy	184	89	95
Seventy to eighty	186	77	109
Eighty to ninety	99	43	56
Ninety and over	15	4	11
Total	1067	506	561

Mortality in Somerville in 1917.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. GENERAL DISEASES.													
<i>(A. Epidemic Diseases.)</i>													
Scarlet fever		1		1							1		3
Diphtheria.....	1	4	3	1	4	1	2	1	1	1	3	2	24
Typhoid fever.....				1					1	2	1	1	6
Measles.....		1										1	2
Cerebro-spinal meningitis.....			1		1								2
<i>(B. Other General Diseases.)</i>													
Septicæmia.....	1		2	1				1			1		6
Pernicious anæmia.....		1		1	1	2	1	1				1	8
Cancer breast.....		1					3	1	3	2	1	1	12
Cancer intestines.....	1	1			2		2	1		1		1	9
Cancer stomach.....	4				3	3	2	2		3			17
Cancer rectum.....							1						1
Cancer uterus.....		2	1	3	1		2	1	1	1		2	14
Cancer other forms.....	2	1	1	1	1	3	2	4	3	1	2	6	27
Diabetes.....	2	1	2	2	1			1	2	1			12
Tuberculosis pulmonary.....	4	7	12	6	9	8	4	3	5	4	3	9	74
Tuberculosis other forms.....			2	1	1				1	3	1	2	11
Abscess.....	1		1					1					3
Erysipelas.....		2	1	1	2								6
Hernia.....	2												2
Purpura hemorrhagica.....						1							1
Syphilis.....	1			1							1		3
Rachitis.....						1							1
La grippe.....													1
Acidosis.....	1												1
Septic anthritis.....		1		2								1	4
Rheumatism.....			1	1		1							3
Status lymphaticus.....						1							1
Lead poisoning.....								1					1
Otitis media.....									1				1
II. DISEASES OF THE NERVOUS SYSTEM.													
Meningitis.....	1	2	1	2			1						7
Apoplexy.....	9	13	6	8	5	8	6	5	7	3	10	5	85
Paralysis.....		1	1	1	1	2	1	1			1	1	10
Hemiplegia.....				1	1			1	1			2	6
Eclampsia.....													1
Locomotor ataxia.....		1									1		2
Myelitis.....													1
Neurasthenia.....			1										1
Eucephalitis.....		1		1									2
III. DISEASES OF THE CIRCULATORY SYSTEM.													
Heart disease.....	13	18	6	4	12	7	3	2	3	5	10	5	88
Endocarditis.....	2	1	1	2	1	3	1	1	1	2	3		18
Myocarditis.....	1	2	1	3	4		1	2	3	2	1	3	23
Angina pectoris.....		5		1	1				1			1	9
Aneurism of aorta.....	1												1
Regurgitation.....	1	3	1	3		3	1	3	1			1	17
Pericarditis.....					1								1
IV. DISEASES OF THE RESPIRATORY SYSTEM.													
Pneumonia.....	26	16	16	14	7	7	2	1	2	7	9	12	119
Bronchitis.....	5	3	2	2	1							1	14
Pulmonary œdema.....	3	1	2			1	1						8
Asthma.....	2				1								4
Influenza.....	1	1	1										3
Empyema.....													1
Myxodema.....									1				1

Mortality in Somerville in 1917. — Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISEASES OF THE DIGESTIVE SYSTEM.													
Acute indigestion	1	1			1	1							4
Colitis		1		1				1					3
Gastritis			1					1					2
Peritonitis	2		1	5	1	1		2				2	14
Diarrhœa								1					1
Gastric ulcer				1	1				1			2	4
Enteritis		1		1	1	3	2	2	1	3	2		16
Gall stones									1			1	2
Intestinal obstruction	1		2		1	1			1	1			7
Appendicitis	1		1		1								3
Intestinal toxæmia	1					1							2
Cirrhosis liver								1	1	1		1	4
Cholera infantum								2					2
VI. DISEASES OF GENITO-URINARY SYSTEM.													
Bright's disease		1		2	2								5
Uræmia	1			3						1		2	7
Nephritis	7	6	3	4	4	5			2	4	7	5	47
Cystitis							1			1			2
Prostatitis	1						1					1	3
VII. CHILDBIRTH.													
Placenta previa													
Childbirth				2	1								3
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene											1		1
Impetigo contagiosa						1							1
IX. MALFORMATIONS.													
Hydrocephalus											1		1
X. EARLY INFANCY.													
Malnutrition			1		3	2				1	1		8
Premature birth and congenital debility	3	4	5	9	6	6	4	8	4	6	3	6	64
XI. OLD AGE.													
Senile dementia		2	1	1	3		1				2	1	11
Arterio sclerosis	15	18	15	10	10	5	12	9	10	9	10	7	130
XII. VIOLENCE.													
Accidental strangulation									2				3
Railroad			1										1
Suicide		1	1		1	1		2			3	1	10
Accidental burns from hot water			1	1				1		1			4
Accidental gas poisoning	1								1				2
Fracture of skull		1		1					1	1	1		5
Surgical shock	1												1
Accidental poisoning		1									1		2
Accidental fall						1							2
Run over by auto	1		1	1	1	1						1	6
Accidental burns	1			1				1			1	2	6
Homicide		1											1
Heat stroke								1					1
Electrical shock												1	1
Unknown			1										1
Accidental drowning						1							1
Total	122	129	101	108	98	82	56	67	61	68	82	93	1067
Population (estimated)													90,500
Death rate per thousand													11.77

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as actinomycosis, anterior poliomyelitis, anthrax, Asiatic cholera, cerebro-spinal meningitis, chicken-pox, diphtheria, dog-bite (requiring anti-rabic treatment), dysentery, German measles, glanders, hookworm disease, infectious disease of the eye, leprosy, malaria, measles, mumps, pellagra, plague, pneumonia (lobar only), rabies, scarlet fever, septic sore throat, small pox, tetanus, trichinosis, tuberculosis (all forms), typhoid fever, typhus fever, whooping cough, yellow fever, are infectious, or contagious and dangerous to the public health and safety within the meaning of the statutes. Physicians are required to report immediately to the board every case of either of these diseases coming under their care, and postal cards conveniently printed and addressed are supplied to them for the purpose. On receipt of a card from a physician, the principal of the school in the district in which the patient resides, the librarian of the public library and state board of health are notified.

Specimens and Supplies.

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vaccine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:—

- R. A. Peckham, 154 Perkins street.
- Edward Edwards, 25 Union square.
- Willis S. Furbush & Co., 1153 Broadway.
- Hall Drug Co., Hobbs building, Davis square.
- Ernest B. McClure, 529 Medford street.
- John Morrison, 288 Highland avenue.
- Richardson Pharmacy, 310 Broadway.
- George E. Wardrobe, 693 Broadway.

Hereafter the Agent of this Board will collect, daily, at five o'clock, p. m., all specimens left at culture stations for examination, prior to that hour.

Physicians desiring reports on the following day, of specimens taken after this collection has been made must deposit the same at the City Hall Annex, in the receptacle provided, before nine-thirty p. m.

Results of all examinations of specimens received at the City Hall Annex prior to nine-thirty p. m., will be reported to the physicians on the following morning.

Deaths from Scarlet Fever, Diphtheria, Typhoid Fever, and Tuberculosis in the Last Ten Years.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.										TUBERCULOSIS ALL FORMS.										
	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	
January.....	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	8	9	10	5	12	9	8	8	5	4		
February.....	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	11	6	13	11	10	14	10	16	7		
March.....	1	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	8	8	8	5	10	6	9	10	10	14		
April.....	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	9	3	7	9	4	8	5	3	11	7		
May.....	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	6	10	7	6	13	8	8	9	5	10		
June.....	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	8	10	12	10	4	7	8	5	9	8		
July.....	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	5	5	9	11	5	5	7	3	4	4		
August.....	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	8	2	10	9	7	6	9	8	3		
September.....	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	4	7	6	4	3	4	11	6		
October.....	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	5	9	10	6	2	10	6	1	8	7		
November.....	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	9	5	6	6	5	9	7	6	10	4		
December.....	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	7	7	11	11	10	4	14	6	6	11		
Total.....	4	9	5	3	2	4	11	4	2	3	11	27	20	15	14	13	25	18	21	24	9	8	6	6	4	6	4	6	11	1	6	80	90	92	99	91	87	95	74	108	85

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000
1908	903	11.96
1909	988	13.08
1910	1,043	13.45
1911	1,035	12.93
1912	983	12.13
1913	993	12.11
1914	990	11.65
1915	1,003	11.55
1916	1,081	12.01
1917	1,067	11.85
Average death rate per 1,000 for ten years		12.27

Table Showing the Five Principal Causes of Death in Somerville in 1917.

ARTERIO SCLEROSIS.		PNEUMONIA.		HEART DISEASE.		TUBERCULOSIS ALL FORMS.		APOPLEXY.	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
130	14.4	119	13.2	88	9.8	85	9.4	85	9.4

Medical Inspection of Schools.

The medical inspection of the schools of Somerville, which was instituted in December, 1907, has been continued during the year. The value of the system has been constantly demonstrated, and the work has been done in a very satisfactory manner. There has been harmony of action between the board of health and the school board, and the school principals and teachers have very generally co-operated with the inspectors in making the system as successful as possible.

The inspectors make daily visits to the schools under their charge, and to them are referred all children who show evidences of disease or abnormal conditions. Children who are found to be unfit to remain in school are sent home, accompanied by a slip properly filled out advising that the family physician be consulted. The inspectors also make an annual inspection of all the children in the schools, and any defects discovered are called to the attention of the parents. Monthly inspections of the school buildings and premises are made, and suggestions or criticisms are referred to the proper authorities. Every effort is made to protect the health of the children and to co-operate with the parents in keeping the children in as normal a condition as possible.

In accordance with the provisions of the statute, tests of sight and hearing are made by the principals or teachers.

The districts and inspectors are as follows:—

District No. 1.—Prescott, Hanscom, Davis, Edgerly and Boys' Vocational schools. Inspector, Dr. Francis Shaw, 57 Cross street.

District No. 2.—Baxter, Knapp, Perry and Bell schools. Inspector, Dr. Edward J. Dailey, 46 Bow street.

District No. 3.—Bennett, Pope, Cummings and Proctor schools. Inspector, Dr. L. H. Raymond, 146 Highland avenue.

District No. 4.—Morse, Carr, Durell, Burns and Girls' Vocational schools. Inspector, Dr. W. L. Bond, 322 Highland avenue.

District No. 5.—Brown, Bingham, and Forster schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

District No. 6.—Lincoln, Hodgkins, Highland, Cutler, and Lowe schools. Inspector, Dr. H. Cholerton, 94 College avenue.

District No. 7.—Glines and High schools. Inspector, Dr. Edgar F. Sewall, 281 Broadway.

Parochial Schools.—Inspector, Dr. M. W. White, 21 Walnut street.

During the year, 6,744 children have been referred to the inspectors during their daily visits, and 579 have been sent home because of illness.

The following list will show the classes of diseases and defects which have been found in the schools, except defects of sight and hearing:—

List of Diseases and Number of Cases Reported.

1. Infectious diseases:—		
Diphtheria	2	
Measles	111	
Whooping cough	1	
Chicken pox	102	
Mumps	26	
Scarlet fever	4	
Tuberculosis	1	
Total		247
2. Diseases of the nose and throat:—		
Enlarged tonsils and adenoids	730	
Inflammatory diseases	215	
Other abnormal conditions	128	
Total		1,073
3. Diseases of the eyes:—		
Inflammatory conditions of the eyes and lids	6	
Foreign bodies and injuries	1	
Other abnormal conditions	131	
Total		138

4. Diseases of the ears:—		
Inflammatory conditions	10	
Other abnormal conditions	22	
	<hr/>	
Total		32
5. Diseases of the skin:—		
Pediculosis	672	
Impetigo	88	
Scabies	15	
Eczema	28	
Tinea	10	
Herpes	20	
Miscellaneous conditions	140	
	<hr/>	
Total		973
6. Miscellaneous diseases:—		
Constitutional diseases		
Diseases of the digestive system	39	
Diseases of the respiratory system	161	
Diseases of the circulatory system	15	
Diseases of the lymphatic system	1	
Diseases of the nervous system	61	
Diseases of the urinary system	2	
Wounds and injuries	37	
Diseases of the teeth	235	
Other conditions	48	
	<hr/>	
Total		599
		<hr/>
Total number of diseases reported		3,062
Vaccinations performed	341	
Examinations for vaccinations	1,388	
Certificate to work	22	

Bacteriological Department.

The work of this department was performed by Frank L. Morse, M. D., medical inspector of the board, until August 14, 1917, when he entered the United States Army, Medical Officers' Reserve Corps, and has since received a captain's commission.

Since the above date the work has been done by Herbert E. Bowman, Ph. G., Inspector of Milk and Vinegar, whose report is appended to this report.

Undertakers.

Under the provisions of Section 44 of Chapter 78 of the Revised Laws of 1902, twenty persons have been duly licensed as undertakers.

Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan

C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

Health Nurses.

There are, at present, two nurses employed by this Board as school nurses. It is very necessary and this Board recommends that two or more nurses be appointed and that all these nurses be employed as health nurses their duties to be determined by this Board as necessity requires.

Regulations.

A new set of regulations has been compiled and adopted by this Board and copies of the same distributed among the physicians and other persons.

RALPH F. HODGDON, M. D., Chairman,
R. M. LAVENDER,
WARREN C. BLAIR,

Board of Health.

Attest:

LAURENCE S. HOWARD, Clerk.

Report of the Medical Inspector.

Somerville, Mass., January 1, 1918.

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present the report of the acting medical inspector for the year 1917, including the statistics of the contagious disease hospital.

Visits.

SCARLET FEVER. Each case has been inspected before release from quarantine and 190 visits were made at the homes of patients to determine that the condition of the patient was suitable for release.

DIPHTHERIA. Before patients are released from quarantine two successive negative cultures must be obtained and during the year 125 visits were made for this purpose.

Daily visits have been made at the contagious hospital.

Contagious Disease Hospital.

Diseases	Admitted	Discharged, Well, or Improved	Dead
Scarlet Fever	71	68	
Diphtheria	167	150	18
Tuberculosis	56	32	22
Erysipelas	6	11	1
Infantile Paralysis	2	2	
Pneumonia	1	1	
Total	303	264	41

The daily average of patients was 13.66 in the contagious department and 15.56 in the tuberculosis department, a total of 29.22.

Respectfully submitted,
C. CLARKE TOWLE,
Medical Inspector.

Report of Inspector of Animals and Provisions.

Somerville, Mass., January 1, 1918.

To the Board of Health, Somerville, Mass.:—

Gentlemen:—Following is the report of the inspector of animals and provisions, including tables showing the amount of work accomplished.

Articles Condemned.

Meats.

Sausage, 16 pounds; corned shoulder, 7 pounds; fowl, 440 pounds; fresh beef, 111 pounds; swine, 3 (whole); corned beef, 121 pounds; fresh pork, 54 pounds; veal, 24 pounds; salt pork, 28 pounds; spare ribs, 41 pounds; liver, 1 (whole); Frankfort sausage, 19 pounds; lamb, 80 pounds.

Fish.

Salmon, 8 pounds; oysters, 5 quarts; flounders, 112 pounds; smelts, 12 pounds; haddock, 112 pounds; butter fish, 12 (whole); haddock, 16 (whole); halibut, 7 pounds.

Fruit.

Bananas, 7 dozen; lemons, 11 dozen; grape fruit, 8½ boxes; blueberries, 16 quarts; grape fruit, 5 crates; watermelons, 20; apples, 15 bushels; cantaloupes, 6½ crates; apples, 1 barrel; peaches, 14 baskets; strawberries, 256 quarts; plums, 8 baskets; blackberries, 123 quarts; grapes, 7 baskets; oranges, 2¼ boxes.

Vegetables.

Potatoes, 26 bushels; celery, 12 bunches; squash, 23 barrels; rhubarb, 2 boxes; cabbage, 2 bushels; rhubarb, 52 pounds; cabbage, 35 heads; asparagus, 56 bunches; lettuce, 30 heads; tomatoes, 9 baskets; lettuce, 21 bushels; carrots, 1 bushel; cauliflower, 38 heads; greens, 12 bushels; turnips, ½ bushel; summer squash, 2 bushels; string beans, 12 bushels; cucumbers, 2 bushels; radishes, 52 bunches; onions, 1 bushel; corn, 4 bushels.

Eggs.

Eggs, 8 dozen.

There have been less articles condemned during the past year, than for many years previous, owing to the fact that dealers have been obliged to purchase their stock very conservatively and thereby no large surplus has been carried by any dealer. As a rule their stock has been fresh and in good condition.

Inspections for 1917.

The following table shows the number of inspections made during the past year. Constant supervision is kept over all establishments handling food products, to safeguard the consumer. Bakeries, lunch-carts and restaurants have each been inspected weekly.

Conditions in the Ice Cream and Candy Factories in the

city are greatly improved. All factories in the city have been inspected monthly. A constant inspection is made of Barber Shops and they are required to be kept in a sanitary condition, at all times, and the barbers to keep themselves neat and clean and to properly sterilize their utensils.

Stores and Markets	4805	Barber Shops	157
Pedlers	2927	Rendering Houses	148
Stables	1351	Vacant Lots	143
Lunch Rooms	1014	Candy and Ice Cream Factor-	
Bakeries	885	ies	123
Fish Markets	835	Blacksmith Shops	103
Yards and Cellars	731	Hide Houses	77
Hen Houses	708	Grease Wagons	54
Houses and Cellars	363	Milk Stables	35
Factories	356	Theatres	19
Slaughter Houses	256	Laundries	14
Public Halls	9	Public Halls	9

Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments. Inspections have also been made of all animals for infectious diseases. The slaughtering houses have been improved. The slaughtering business in this city has been increased; during the last year Somerville was one of the largest slaughtering centres in the United States.

Number of Animals Slaughtered in 1917.

Swine	1,168,047
Sheep	221,184
Calves	95,196
Cattle	29,445
Total	1,513,872

Animals.

There has been a steady decrease of glanders in this city for the past four years, and I believe it is due in part to discontinuance of public drinking fountains for horses, and a thorough disinfection of stables and blacksmith shops. Each stable and shop is now in first class sanitary condition. In 1913 there were 55 horses killed for glanders; in 1914, 30; in 1915, 10; in 1916, 13; but eight of these were in one stable and in 1917 only nine were killed, thus showing a large decrease in the disease.

Animals Examined in 1917 for Contagious Diseases.

	Inspected	Quarantined	Killed	Released
Horses	3,272	12	9	3
Swine	883	....	....	....
Cows	89	....	....	....
Sheep	5	....	....	....
Dogs	5	1	....	1
Goats	1	....	....	....
Total	4,255	13	9	4

As agent of the board of health, I have been on duty nights and Sundays most of the time to convey patients to the Contagious Hospital, by ambulance.

Respectfully submitted,

CHARLES M. BERRY,
Inspector.

Report of the Inspector of Milk and Vinegar and Acting Bacteriologist.

CHEMICAL AND BACTERIOLOGICAL LABORATORY,
City Hall Annex,
Somerville, Mass., January 1, 1918.

To the Board of Health of the City of Somerville:—

Gentlemen,—I herewith present my annual report for the year ending December 31, 1917.

On the above date there were in this city licensed to sell milk, 454 stores and 64 dealers, and 64 stores to sell oleo-margarine.

Of the 64 dealers, 23 are located in this city and 31 in the neighboring cities and towns, and 10 dealers have discontinued business.

There are approximately 22,097 quarts of milk and 1,636 quarts of cream distributed in Somerville daily, and 25 dealers selling pasteurized milk supply over eighty-five per cent. of this amount.

Table 1.

Months.	Licenses Issued.	License Fees.	Analytical Fees.	Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.
January	13	6.50	6.80	13.50	32.50	46.00
February	11	5.50	.....	5.50	37.00	42.50
March	8	4.00	3.50	7.50	82.00	89.50
April	13	6.50	.50	7.00	22.00	29.00
May	351	175.50	3.00	178.50	24.50	203.00
June	113	56.50	3.00	59.50	8.00	67.50
July	15	7.50	.....	7.50	86.50	94.00
August	4	2.00	.50	2.50	35.00	37.50
September	7	3.50	.....	3.50	11.00	14.50
October	27	13.50	1.00	14.50	17.00	31.50
November	13	6.50	2.00	8.50	9.50	18.00
December	7	3.50	1.00	4.50	7.00	11.50
Total.....	582	291.00	21.30	312.50	372.00	*684.50

* In addition to above, fines imposed amounted to \$550.00. Total included in this item were court fees amounting to \$9.30.

Table 2.
Samples of Milk, Cream, Ice Cream and Vinegar Examined.

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples left at Office.	Total Examinations.
January	160	80	15	255	15	270
February	196	72	28	296	61	357
March	196	74	.....	270	63	333
April.....	190	236	12	438	132	570
May	264	99	28	331	43	374
June	246	119	99	464	45	509
July.....	234	179	151	564	13	577
August	309	77	59	445	153	597
September.....	263	150	.....	413	51	464
October	176	100	.....	276	11	287
November.....	167	97	194	458	32	490
December	150	122	84	356	18	374
Total.....	2491	1405	670	4566	637	5203

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Total Notices.	Inspections.	Infected Samples.
January	23	16	4	43	276	.....
February	11	10	.....	21	179	.....
March	37	27	2	56	140	2
April.....	10	20	3	33	226	2
May	9	5	26	40	266	.....
June	14	32	38	84	31	.....
July	40	28	12	80	20	.....
August	31	3	.....	34	17	.....
September.....	5	9	3	17	10	.....
October	3	22	31	56	10	.....
November.....	2	1	22	25	12	.....
December	2	2	4	8	.....	.....
Total.....	187	175	145	507	1187	4

City Inspection.

The city inspection is of a routine character and has been conducted with a few exceptions in practically the same manner as in former years with the same object in view;—to obtain for Somerville a safe clean milk supply as well as one that will conform to all legal standards, and covers the supervision of milk at the receiving stations, the taking of temperatures, ex-

amination of utensils and wagons, examination of milk from dairies for visible dirt and bacteriological standard, inspection of milk plants and stores and the taking of samples of milk at railroad stations, teams, stores, lunch rooms and hotels.

Laboratory work consists of the analysis of milk, cream, butter, ice cream and vinegar, chemically and bacteriologically, with the exception of butter and vinegar (which are not examined for bacteria.)

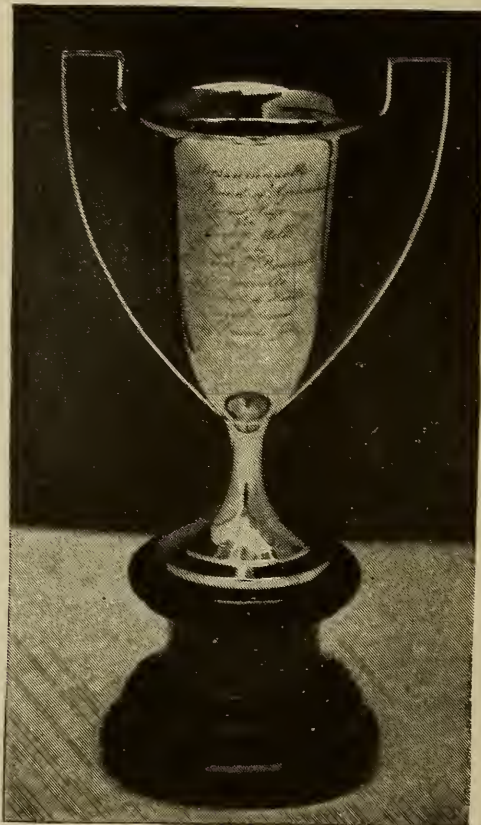
During the year there have been 27 examples of mothers' milk analysed. Physicians are invited to take advantage of the opportunity offered to have mothers' milk analysed without expense and are requested to use the utmost care in securing a representative sample.

Court Cases.

Twenty-two cases in lower court paid fines of (\$330.00) three cases in superior court, two paid \$200.00; one defaulted. Total fines \$550.00.

As in previous years I desire to express my appreciation of the very efficient assistance rendered this department by the city solicitor.

This year in January there was held at Springfield, Mass., a state-wide competition in market milk. This contest was un-



der the direction of the State Board of Agriculture and the Massachusetts Dairyman's Association. The rules of the contest were that, local milk Inspectors should take samples consisting of four one pint bottles of milk from the wagons of each dealer, the samples to be representative of his load for that day. The samples were packed and shipped to Amherst Agricultural College, Amherst, Mass., where they were examined chemically and bacteriologically by the instructors at Amherst College, working in conjunction with an expert sent from Washington, to assist them. The six highest scores were averaged and the standing of the city entering obtained in this manner. This contest resulted in Somerville receiving the second prize, a silver cup, a cut of which is shown on preceding page.

The six dealers found by the judges to lead and their respective scores follow:—

J. M. Hager & Son	95.16	Fred E. Giles	91.24
F. S. Cummings	94.54	Henning Swenson	91.20
Francis C. Brown	94.28	C. T. Conant	90.78
Score for Somerville 92.86+.			

Table 4.—Infantile Mortality.

Year.	Births.	Deaths under 1 year, all causes.	Deaths under 1 year, enteric diseases.	Enteric Death Rate per 10,000 population under 1 year.	Population.
1913.....	1861	166	45	5.48	82,000
1914.....	1992	147	33	3.92	84,000
1915.....	1898	142	25	2.90	86,000
1916.....	1952	132	23	2.58	89,000
1917.....	Returns Incomplete.	136	18	2.00	90,000

Somerville may well point with pride to the steady decrease in its death rate of children under one year of age from enteric diseases.

The above chart shows, that in the last five years the deaths from improper feeding and bowel troubles have been reduced over 60 per cent.

Note should be made of the fact that the births and population steadily increased during this period.

As has been my custom for several years I wish to impress

all consumers of milk with the desirability of having all the milk pasteurized.

Pasteurization in the final container is conceded by all to be the ideal way, but where it is impracticable pasteurization in bulk and then bottling in sterilized containers is the next best thing.

In 1917 there was a bill passed by the legislature defining pasteurized milk as follows. Chapter 259, Acts 1917:

Pasteurized milk is hereby defined to be natural cows' 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 forty-five degrees Fahrenheit, and immediately thereafter cooled therefrom to a temperature of fifty degrees Fahrenheit or lower.

Consumers should know whether they are receiving raw or properly pasteurized milk and should insist that the package be labelled just what it contains. The attention of this department should be called to any unsanitary containers. Call 930 Somerville on the telephone and report any such violation or any other that comes to your notice.

This department is always at the service of anyone on any subject with which we can consistently deal.

Diagnostic Examinations.

The work in this department was formerly done by Dr. Frank L. Morse who entered the United States Army on August 14, 1917, and since that time the examinations have been made by the milk Bacteriologist. A summary of the year's work follows.

Diphtheria.

Months	Negative	Positive	Total
January	71	5	76
February	80	16	96
March	96	43	139
April	119	34	153
May	109	29	138
June	79	24	103
July	79	15	94
August	31	9	40
September	22	6	28
October	83	42	125
November	109	30	139
December	117	37	154
Totals	995	290	1,285

Tuberculosis.

January	19	8	27
February	12	4	16
March	22	8	30
April	18	6	24
May	16	6	22
June	19	13	32
July	15	6	21
August	10	8	18
September	12	10	22
October	13	13	26
November	15	7	22
December	18	5	23
Totals	189	94	283

Typhoid.

January	1	1	2
February	3	0	3
March	4	0	4
April	11	1	12
May	6	1	7
June	10	0	10
July	13	1	14
August	13	1	14
September	9	3	12
October	8	1	9
November	9	1	10
December	11	2	13
Totals	98	12	110

Total Examinations 1678.

In addition to above there have been examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhoea, and Pneumonia.

Respectfully submitted,

HERBERT E. BOWMAN,

Inspector of Milk and Vinegar and Acting Bacteriologist.

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

HENRY F. CURTIS, M. D., President.

ALBERT W. EDMANDS, Vice-President.

MICHAEL COLL.

Committees.

On Finance, Investigation and Relief, and City Home.

DR. CURTIS, MR. EDMANDS AND MR. COLL.

Clerks.

JEAN M. HUTCHINS.

CORA F. LEWIS.

General Agent.

CHARLES C. FOLSOM.

City Physician.

C. CLARKE TOWLE, M. D.

Warden and Matron, City Home.

MR. AND MRS. J. FOSTER COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

Somerville, Mass., December 31, 1917.

To the Overseers of the Poor, Somerville, Mass. :—

Gentlemen,—The office at City Hall Annex has been a very busy place during the year just closed: There has also been some hustling on the streets to keep up with the visiting, as it is now the custom in all the up-to-date cities to have the cases thoroughly investigated. It takes one person nearly all of the time to attend to cases at the Somerville Hospital, the Board of Health and the visiting of the Mother's Aid cases. Some different arrangement will have to be made very soon in reference to the office and visiting force of the department. We must be thorough and do the work in a business-like manner, even if the cost is a little more, the results are more satisfactory and in many cases prove to be a saving to the city; by so doing. The pleasant relations which have existed throughout the past years have been with us during the year just ceased. Wishing all a happy and prosperous year, I am,

Very respectfully,

C. C. FOLSOM,

General Agent.

Somerville, Mass., December 31, 1917.

To His Honor, the Mayor, and the Board of Aldermen of the
City of Somerville:—

Gentlemen,—The report of the general agent and the warden of the City Home, with tables showing the work, are herewith submitted. The total amount expended during the year 1917 by this department was \$67,071.10, divided as follows: Miscellaneous, \$53,653.33; City Home, \$13,417.77, this being \$3,718.07 more than the previous year of 1916. We have expended on the City Home account \$13,417.77 or \$1,839.14 more than the previous year. The "Mother's Aid" cases have increased from 54 to 63 and the amount expended from \$19,620.41 to \$23,586.60, making \$3,966.19 more than the previous year. We are reminded by these figures and by the number of cases brought to our attention, that the Poor Department's expenditures are steadily increasing. We are also reminded that Somerville is becoming one of the larger cities of the Commonwealth. The Board respectfully calls the attention of your Honorable Board to the fact that the collections for our two accounts were much larger than any previous year, viz. \$29,637.73. Net cost to the City, \$37,433.37.

Respectfully submitted,

HENRY F. CURTIS,	}	<i>Overseers</i>
A. W. EDMANDS,		
MICHAEL COLL,		
		<i>of the</i>
		<i>Poor.</i>

Table No. 1.

FULL SUPPORT (During the year).

In City Home (men 45, women 34)	79
In City Home December 31, 1917	45
In private families	20
In hospitals for the sick in other towns, cities and State	52
In care of state division minor wards (children)	10

Table No. 2.

PARTIAL SUPPORT (Outside Relief).

Families	367
Persons aided (including hospital cases)	1623
Burials	6
Permits to State Infirmary	17
Average expense to the city for each (carriage for six)	\$2 03

Table No. 3.

AID UNDER 1913 LAW. (Mother's Aid).

Number of applications from widows or deserted women	74
Number of families aided at close of year	63
Number of children	195
Amount allowed each family, from \$3.00 to \$11.00 per week	
Number of out-of-town families	10
Number having no settlement	13

COST TO CITY

Somerville settlement	\$13,064 45
Settled in other cities and towns (reside here)	2,712 05
State	4,480 82
Somerville families living in other cities and towns	3,329 28
	<hr/>
	\$23,586 60

Table No. 4.
REIMBURSEMENTS.

Commonwealth of Massachusetts	\$14,719 42
City of Boston	2,093 73
“ “ Brockton	40 00
“ “ Cambridge	800 04
“ “ Chelsea	59 14
“ “ Everett	476 61
“ “ Fall River	17 14
“ “ Lawrence	14 29
“ “ Malden	10 00
“ “ Medford	10 29
“ “ Melrose	42 85
“ “ New Bedford	210 78
“ “ Newton	16 00
“ “ Woburn	153 78
“ “ Worcester	103 24
Town of Arlington	164 42
“ “ Brookline	27 14
“ “ Burlington	46 06
“ “ Duxbury	138 00
“ “ Hudson	48 00
“ “ Marshfield	90 00
“ “ Peabody	173 59
“ “ Plymouth	31 43
“ “ Randolph	63 01
“ “ Saugus	5 00
“ “ Sterling	60 16
“ “ Wakefield	5 00
“ “ Whitman	245 83
“ “ Winchester	48 46
Individuals	135 05
	<hr/>
	\$20,048 46

Table No. 5.

SOMERVILLE HOSPITAL (Patients on City Beds).

Patients having settlement in Somerville	156
Patients having settlement in other cities or towns	45
Patients having no settlement (chargeable to State)	64
Total number of patients sent to hospital	265
Money paid hospital by the City for patients settled in Somerville	\$7,500 00
Amount reimbursed to the City and paid to the hospital for patients not settled in Somerville	1,350 00
	<hr/>
Total paid to the hospital	\$8,850 00

Table No. 7.

EXPENDITURES IN DETAIL FOR THE YEAR 1917.

1917	Cash Allowances	Med. Att. and Medicine	Board.	Groceries.	Somerville Poor in other Cities and Towns.	Dry Goods and Shoes.	Burials.	Salaries.	Fuel.	Sundries.	Cash Paid Out.	Telephone.	Stationery and Printing.	Somerville Hospital.	State Institutions.	Other Institutions.	Nursing.	Somerville Poor in other Cities and Towns 1913 Laws.	Total
January	\$33.78	\$15.91	\$241.03	\$1,121.50	\$222.88	.....	.....	\$389.46	\$324.68	\$7.00	\$2,295.83	\$18.26	\$53.01	\$150.00	\$191.10	\$52.00	\$7.50	\$578.73	\$5,702.67
February	21.00	9.12	299.48	781.66	819.63	.....	.....	389.46	246.60	81.00	1,628.29	8.82	4.92	150.00	15.50	15.00	9.25	845.67	5,325.40
March	22.07	.....	328.42	1,290.65	1.96	.....	.....	495.18	230.16	40.15	2,044.32	7.06	7.55	150.00	.....	57.43	8.50	.....	4,677.45
April	21.72	22.90	203.69	750.50	774.31	.....	32.00	414.46	.....	14.00	2,003.30	11.23	8.07	150.00	95.25	.....	8.75	66.67	4,576.85
May	22.07	.....	141.28	926.80	50.00	.....	15.00	420.46	.....	28.00	2,037.25	9.33	7.41	150.00	.....	.....	8.50	48.00	3,864.10
June	21.72	17.41	399.50	702.10	13.15	.....	35.00	445.16	.....	25.00	2,239.75	9.40	2.50	150.00	220.72	52.57	8.00	.....	4,341.98
July	22.07	18.84	198.50	713.20	346.54	.....	40.00	414.46	.....	8.33	2,074.00	9.63	1.10	150.00	136.46	60.00	3.25	2.62	4,199.00
August	22.07	20.52	97.86	717.00	333.53	.....	.....	414.46	.....	14.33	2,365.99	10.35	10.00	150.00	35.00	15.00	5.75	811.73	5,023.59
September	21.72	17.10	444.66	507.50	20.00	.....	.....	515.16	.....	8.33	2,245.20	9.06	17.50	150.00	.....	52.57	14.75	159.33	4,182.88
October	22.07	4.49	187.10	742.00	28.51	.....	15.00	414.46	.....	8.33	2,487.50	10.28	2.35	.....	9.12	.....	12.75	.....	3,944.02
November	28.22	.....	94.50	620.00	150.71	.....	.....	414.46	.....	8.33	2,449.77	8.70	1.04	.....	.....	.....	12.50	.....	3,788.23
December	35.07	12.35	149.94	298.50	161.01	.....	.....	450.34	355.25	8.35	1,386.49	.....	30.10	.....	.....	.....	12.50	816.53	3,716.43
Totals	\$293.58	\$138.64	\$2,785.96	\$9,171.41	\$2,922.29	.....	\$137.00	\$5,177.52	\$1,156.69	\$251.15	\$25,257.69	\$112.12	\$145.55	\$1,350.00	\$703.15	\$298.57	\$112.00	\$3,329.28	\$53,342.60

Year	Population	Area	Population Density	Notes
1850	10,000	100 sq. mi.	100	
1860	15,000	100 sq. mi.	150	
1870	20,000	100 sq. mi.	200	
1880	25,000	100 sq. mi.	250	
1890	30,000	100 sq. mi.	300	
1900	35,000	100 sq. mi.	350	
1910	40,000	100 sq. mi.	400	
1920	45,000	100 sq. mi.	450	
1930	50,000	100 sq. mi.	500	
1940	55,000	100 sq. mi.	550	
1950	60,000	100 sq. mi.	600	
1960	65,000	100 sq. mi.	650	
1970	70,000	100 sq. mi.	700	
1980	75,000	100 sq. mi.	750	
1990	80,000	100 sq. mi.	800	
2000	85,000	100 sq. mi.	850	
2010	90,000	100 sq. mi.	900	
2020	95,000	100 sq. mi.	950	

Source: U.S. Census Bureau, Statistical Abstract of the United States

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1883 TO 1917.
INCLUSIVE.

Year	Population (Estimated)			
1883 . . .	27,000			\$15,959 80
1884 . . .	28,000			17,272 52
1885 . . .	*29,992			16,430 32
1886 . . .	32,000			14,341 33
1887 . . .	34,000			13,430 89
1888 . . .	36,000			13,375 98
1889 . . .	39,000			14,610 92
1890 . . .	*40,117			15,261 14
1891 . . .	43,000			15,980 49
1892 . . .	46,000			17,015 30
1893 . . .	48,000			17,799 58
1894 . . .	50,000			19,733 13
1895 . . .	*52,200			20,755 46
1896 . . .	54,000			21,999 79
1897 . . .	56,000			25,681 47
1898 . . .	57,500			28,522 21
1899 . . .	60,000			28,924 39
1900 . . .	*61,643	{	Miscellaneous, \$23,697 62	} 29,226 45
		{	City Home, 5,528 83	
1901 . . .	62,500	{	Miscellaneous, \$29,171 15	} 35,793 58
		{	City Home, 6,622 43	
1902 . . .	63,500	{	Miscellaneous, \$28,667 04	} 36,063 68
		{	City Home, 7,396 64	
1903 . . .	65,500	{	Miscellaneous, \$30,470 20	} 38,018 59
		{	City Home, 7,548 39	
1904 . . .	69,500	{	Miscellaneous, \$20,476 54	} 27,039 65
		{	City Home, 6,563 11	
1905 . . .	*69,272	{	Miscellaneous, \$17,527 88	} 25,002 24
		{	City Home, 7,474 36	
1906 . . .	72,000	{	Miscellaneous, \$18,237 53	} 25,044 32
		{	City Home, 6,806 79	
1907 . . .	74,000	{	Miscellaneous, \$17,852 20	} 24,853 43
		{	City Home, 7,001 23	
1908 . . .	75,500	{	Miscellaneous, \$17,955 34	} 24,830 90
		{	City Home, 6,875 56	
1909 . . .	75,500	{	Miscellaneous, \$16,843 17	} 24,406 00
		{	City Home, 7,562 83	
1910 . . .	*77,236	{	Miscellaneous, \$16,110 42	} 23,806 31
		{	City Home, 7,695 89	
1911 . . .	78,000	{	Miscellaneous, \$16,327 56	} 24,169 59
		{	City Home, 7,842 03	
1912 . . .	81,000	{	Miscellaneous, \$19,201 33	} 28,200 30
		{	City Home, 8,998 97	
1913 . . .	82,000	{	Miscellaneous, \$21,827 73	} 32,773 68
		{	City Home, 10,945 95	
1914 . . .	85,000	{	Miscellaneous, \$35,619 68	} 46,819 93
		{	City Home, 11,200 25	
1915 . . .	88,000	{	Miscellaneous, \$45,490 98	} 56,709 63
		{	City Home, 11,218 65	
1916 . . .	90,000	{	Miscellaneous, \$51,759 62	} 63,353 03
		{	City Home, 11,593 41	
1917 . . .	90,000	{	Miscellaneous, \$53,653 33	} 67,071 10
		{	City Home, 13,417 77	

* Census.

OVERSEERS OF THE POOR OF SOMERVILLE.

Since the reorganization in 1885.

†Hon. Mark F. Burns, chairman, ex-officio	1885	1888	inclusive
†Col. Herbert E. Hill	1885	1889	"
†Charles S. Lincoln, Esquire, chairman	1885	1887	"
†Hon. Edward Glines	1885	1887	"
†Charles G. Brett, (president 1888-1892)	1885	Apr. 1893	"
Edward B. West, (president May, 1894-February, 1912)	1888	to 1912	"
†Daniel C. Stillson	1888	Apr. 1892	"
†Hon. Charles G. Pope, chairman, ex-officio	1889	1891	"
Nathan H. Reed, (president 1893 to April, 1894)	1890	Apr. 1894	"
†Hon. William H. Hodgkins, chairman, ex-officio	1892	1895	"
†James G. Hinckley	May, 1892	1894	"
Albert W. Edmands	May, 1893	to date*	"
†Herbert E. Merrill	May, 1894	1909	"
†Ezra D. Souther	1895	Feb. 1898	(Died)
Hon. Albion A. Perry, chairman, ex-officio	1896	1898	inclusive
James H. Butler	March, 1898	1899	"
Hon. George O. Proctor, chairman, ex-officio	1899		
Henry F. Curtis, M. D.	1910	to date*	"
Philip Koen	1912	Nov. 9, 1916	"
Michael Coll	November, 1916	to date*	inclusive

Table No. 8.

RECAPITULATION (Miscellaneous).

Appropriations and transfers	\$53,653 33	
Reimbursements	20,048 46	
Net cost to City		\$33,604 87

* Present member.

† Deceased.

REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1918.

To the Overseers of the Poor, Somerville, Mass. :—

Gentlemen,—I submit the following as the report of the warden of the City Home for the year ending December 31, 1917:—

Table No. 3.

Number of weeks' board of inmates	2,408
Number of males admitted during 1917	20
Number of females admitted during 1917	18
Number of males discharged during 1917	11
Number of females discharged during 1917	13
Number of males supported during 1917	45
Number of females supported during 1917	34
Number of males died during 1917	7
Number of females died during 1917	4
Number of inmates in home, December 31, 1917	45

City Home Hospital.

Number of weeks' board	549 2-7
Number of patients admitted	34
Number of patients in hospital, December 31, 1917	9

Table No. 4.

FARM ACCOUNTS.

Reimbursements.

Farm produce sold	\$6,203 36	
Produce used at home	300 00	
Milk and eggs used at home	300 00	
	\$6,803 36	

Expenses.

Wages for help	\$1,778 80	
Feed for one horse	108 53	
Feed for poultry and cows	334 16	
Shoeing one horse	25 83	
Harness and horse clothing	12 00	
Farm equipment	422 73	
Garbage	468 85	
Live Stock	216 00	
Seeds and fertilizer	118 89	
	\$3,485 79	
Balance		\$3,317 57

Table No. 5.

Reimbursements	\$9,620 77	
Net expenditures	3,797 00	
	<hr/>	\$13,417 77
Appropriation	\$12,000 00	
Additional appropriation	1,340 00	
Service transfer	81 63	
	<hr/>	\$13,421 63
Balance		<hr/>
		\$3 86

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.

REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN,
Somerville, January 1, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—The work of your City Physician during the year 1917 is presented in the following abstract:—

Office consultations and treatments	528
Total outside visits	1,492
Confinements	11
Vaccinations	115
Visits at City Home	142
Attended at police station	46
Examinations:—	
For legal department	26
For highway department	17
For police department	37
For fire department	21
For water department	4

Respectfully submitted,

C. CLARK TOWLE,

City Physician.

REPORT OF THE PLANNING BOARD.

Somerville, Mass., December 31, 1917.

To His Honor The Mayor and Board of Aldermen:—

Gentlemen:—In accordance with the Acts of 1913, and as required by Section 2 of Chapter 494 of said Acts, the Planning Board herewith respectfully submits its annual report and recommendations for the year 1917.

At the end of the year 1916, the Planning Board lost two of its members by resignation and a third member because his term of office expired. As a consequence there remained but two members to carry on the work of the Board until new men were appointed by the Mayor and confirmed by the Board of Aldermen in May, 1917.

The first regular meeting of the Planning Board was held shortly afterwards for the purpose of organizing the Board for the ensuing year. The Board reorganized with William F. Riley as chairman, and David J. Kelley as secretary, the other members of the Board being Harrison L. Evans, Charles W. Hodgdon and Clarence D. Waterhouse.

During the course of the year the Board held monthly meetings and with the limited appropriation granted it by the Board of Aldermen, endeavored to accomplish some of the objects for which it was originally established. It has not been the policy of the Planning Board to recommend drastic changes or seek to advise the city government as to matters of a purely governmental nature, but has sought by a study of the conditions existing in Somerville with relation to needed public improvements to learn something which might be of value to the Mayor and Board of Aldermen in devising plans to better those conditions. The Board realizes that its power for good lies in its ability to suggest matters which will be of interest to the citizens at large.

FIRE DISTRICTS.—The first subject undertaken by the Board was the advisability of establishing Fire Districts. The Board believes this is a matter which should not be further delayed. Somerville is a city made up of over thirteen thousand (13,000) wooden houses with no fire breaks excepting the location of the Boston & Maine Railroad, and should a fire get under headway this fire break would be of very little value. Something should be done at once to prevent the erection of any more wooden buildings adjoining the public squares of our city. The Board is informed that the matter of establishing fire districts has been considered by successive Boards of Aldermen, but for

one reason or another nothing has been done. The Board respectfully recommends that the Public Safety Committee of the Board of Aldermen take action on this very important subject and submit a plan for the consideration of this year's Board of Aldermen, providing for the establishment of fire districts in and about the public squares of the city. The Planning Board has recommended the establishment of fire districts in its reports of 1915 and 1916 and respectfully calls attention of the Mayor and Board of Aldermen to a paragraph contained in the Report of the National Board of Fire Underwriters for the City of Somerville, dated June, 1916, on page 17 of that Report, the paragraph under the heading "Conflagration Hazard" reads as follows:—

"The predominating feature of the conflagration hazard is the practically continuous frame construction throughout the city, with few vacant areas to retard the spread of fire. Streets are mainly narrow; many in residential districts are but 40 feet wide and few are over 60 feet in width. Two railroad rights of way that extend through the center of the city form moderate fire breaks, but would be of little value in a general conflagration."

BUILDING LINES.—In line with the subject of fire districts and supplementary thereto, the Board has spent some time considering the advisability of establishing building lines on the main thoroughfares of the city. During the last five years some of the main streets of our city have been developed to a certain extent by the erection of one-story buildings suitable for use as small stores. This development has resulted in a temporary gain to the person erecting the store and a permanent loss to the adjacent land owner on account of depreciation to his property. This is especially true where these stores have been erected in purely residential sections. The Board believes a remedy should be found for this condition of affairs which is resulting or will result in a loss to the city of much taxable property. The erection of these one-story stores throughout the main streets of the city can be reduced by establishing building lines. The establishment of building lines would insure the erection of buildings which would add to the wealth of the city and prevent the destruction and depreciation of property in neighborhoods originally intended and which are now used for residential purposes.

The Board recommends that building lines be established on such of the main streets of the city as the city government may determine and particularly recommends that they be es-

established immediately on Broadway and Highland Avenue between limits to be determined after due consideration and having regard to the purposes for which the property between certain points on these main streets is now being used.

PUBLIC PARKS AND BUILDINGS.—The Planning Board has considered the subject of our Public Parks, their location and the advisability of providing recreation centers for those parts of our city as yet unprovided for. The Board believes the rapid growth of West Somerville in and about the Clarendon Hill section calls for some action on the part of the city government to provide a place where the smaller children can safely go for recreation. At the present time there is no playground suitable for this purpose available to the children in this section of the city.

The city could at the present time, with the outlay of a comparatively small sum of money, provide such a playground on the land known as the City Ledge, which is now New Junior High School. The use of this land for park and recreation purposes would not interfere with the erection of other public buildings at a later date should the city find it necessary to do so. It would, however, simply provide for the needs of this growing section for many years to come.

SOMERVILLE BATH HOUSE.—The public bath house recently erected on land leased from the Commonwealth at Wellington Bridge in the Fellsway section of the city is an improvement over the old location farther up the river, near the Hinckley Rendering Company Works. However, the present conditions existing at the new location leave much to be desired in order to make it more popular with the youngsters and grownups who use it. At low tide there are great hills of mud which should be removed so that the bath house may be used both at high and low tides. Bathing can only be enjoyed at high tide because of this accumulation of mud. The Board recommends that the city purchase sand to be dumped into the river so as to partly overcome the muddy condition at present existing there and also appropriate sufficient money to have these accumulations of mud removed.

BRANCH LIBRARY, UNION SQUARE.—Although the building occupied as a branch library for the use of the people in the Union Square district has been partially remodeled during the past year, there is yet much to be done before the needs of the residents of the Union Square section of our city are properly cared for in the matter of library accommodations. The approaches and the conditions of the grounds surrounding the library are not creditable to any city of the size of Somerville. This Board respectfully recommends that sufficient money be

appropriated to make this public building and the grounds surrounding it a credit instead of a reproach to Somerville.

CLEAN-UP WEEK.—The Board recommends that the custom established by former city governments with reference to clean-up and paint-up week be continued by the present city government, and that a week be set apart and due publicity given it so it may be observed by our citizens as in former years.

WIDENING OF BRIDGE STREET.—In accordance with our recommendations of 1916, we again respectfully call the attention of our city government to the necessity of arriving at some agreement with our neighboring city of Cambridge with reference to the widening of Bridge Street. The narrowness of this approach to our city from Boston still continues to cause congestion in traffic to and from Boston and has tended to aggravate the already unbearable condition of our Street Car service.

STREET CAR SERVICE.—The Board again respectfully calls the attention of the city government to the recommendation in its last annual report with reference to the advisability of establishing a connecting line from Elm Street, West Somerville, through Beach Street to Massachusetts Avenue, Cambridge, for the purpose of diverting some of the traffic through the Cambridge Subway which now goes into Boston by way of Highland Avenue and Somerville Avenue over the Charles River viaduct.

The Board also recommends that the city government confer with the Public Service Commission to consider the advisability of a connecting line from Gilman Square along Medford Street over the Boston & Maine Railroad Bridge at Winter Hill Station. The Board realizes that it may be necessary to strengthen the bridge to effect this improvement, but believes it will result in better Street Car service for the citizens living in that part of the city.

During the past year there have been many complaints on account of the over-crowded condition of our Street Cars on all the Street Car lines of our city. This has been aggravated to a certain extent by the action of the Boston Elevated in running "Limited Stop" cars both going to and coming from Boston. Upon investigating conditions at Sullivan Square and from the numerous complaints received from different citizens, the Board believes the running of large numbers of "Limited Stop" cars, and especially the cars running from Sullivan Square to Ball Square, through Medford Street and the Magoun Square district is an outrage on a great majority of our citizens and should be discontinued.

It has also come to the attention of the Board that the Boston Elevated Railway has been running "express cars" in the morning and that large numbers of our citizens have been

compelled in a good many cases to see these cars go by empty or with perhaps half a dozen passengers in them. However advisable it may be to run cars express after they have been filled to their capacity, the Board believes there is no justification for the running of express cars in the morning for the accommodation of a comparatively few of our citizens and resulting in great inconvenience to a great majority who have to rely upon car service to get to business on time in the morning.

The Board believes these matters should be taken up by the City government with the Public Service Commission in order that the abuse of these "Limited Stop" cars, to the detriment of a great body of our citizens, may be corrected and the running of express cars during the rush hours in the morning, except where cars are filled to their capacity, be discontinued.

APPROPRIATION.—In its last annual report the Planning Board requested an appropriation of Two Hundred and Fifty Dollars (\$250.00) so that much needed maps, office files and other necessary articles of a more or less permanent nature might be procured. An appropriation of Fifty Dollars was voted to the Board last year. The Planning Board has been unable with this limited amount to get the various articles needed to effect its office organization. It again respectfully calls the attention of the City government to the necessity of appropriating a sufficient sum to procure these needed articles.

Respectfully submitted,

WILLIAM F. RILEY,
Chairman.
CLARENCE D. WATERHOUSE,
HARRISON L. EVANS,
DAVID J. KELLEY,
Secretary.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,

City Hall, Somerville, January 15, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—In accordance with the city ordinances, the following report of the work done and expense incurred for the year ending December 31, 1917, by the Engineering Department and appropriations under my charge and supervision, including the accounts of city engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

City Engineering Account.

Classification of Expenses, 1917.

Sewers,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments and all engineering work relating to sewers	\$1,956 93
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department	3,512 62
Sidewalks,—comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments	1,082 13
Water works,—comprising lines, grades, locations of mains, gates, hydrants and services and other matters relating to the department	682 56
Parks and Public Grounds,—comprising surveys, plans, estimates, profiles and grades, including laying out of parks and playgrounds and boulevard	338 94
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds	206 70
Street Numbering,—comprising locations of buildings, plans, assigning street numbers	647 32
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	402 86
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc.	24 48
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc.	459 51
Middlesex Registry,—comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and sewer taking plans filed for record	241 83
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles and conduits	116 47

Office Work,—comprising record of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting	1,779 23
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	32 29
Holidays, Vacations and Sickness	648 60
	<hr/>
Total	\$12,132 52

Office Records and Value of Instruments.

Number of survey note-books, sewer permit books, deed books, calculation books, and record books—three hundred and sixty-seven.

Number of plans, including sewers, highways, parks, house lots, etc.—seven thousand eight hundred and fifty.

Value of field instruments, tools and office instruments \$2,000 00

The number of assistants employed during the year on engineering work varied from six to nine. (The War has reduced the office assistants, and employees in other divisions).

The total cost of maintaining the Engineering Department (City Engineer Account) since it was established, 1872-1917, both years inclusive, has amounted to \$367,900.00.

General Work.

The city charter provides that the Engineering Department, including Sewers, Parks and Public Grounds, shall be under the control, supervision and management of the city engineer and other prescribed duties.

The city ordinances require that the city engineer must be consulted on all work when the advice of a civil engineer would be of service; and no structure of any kind can be placed upon, beneath, or above any street, by any department of the city, corporation, or individual, until a plan is furnished showing the location and approved by him.

During the year the department made plans showing lines and grades for the acceptance, under the betterment act, of ten new public streets, a total length of 3,956 feet (0.75 mile). There are plans for acceptance of eleven other private streets, previously made, on file in the office that for various reasons are still unaccepted as public streets.

**Streets Accepted as Public Highways in 1917, Under the
Betterment Act.**

NAME OF STREET.	WARD.	FROM	To	Width in Ft.	Length in Ft.	Date of Acceptance
Belmont Square..	6	Belmont Street...	Easterl thence Nor'ly & Sou'ly....	30 & 20	220	Jan. 3, 1918
Carter Terrace ...	3	Summer Street...	Southwesterly.....	40	171	Jan. 4, 1918
Central Road.....	5	Central Street....	E'ly and N'ly	30	377	Sept.14,1917
Central Road.....	5	Central Road.....	Sycamore St.....	30 to 15	221	
Connecticut Ave.	1	Pennsylvania av.	Mystic Avenue...	40	487	Jan. 3, 1918
Horrace Street ...	2	Ward Street.....	Fi'h D.B.&M.R.R.	30	264	Jan. 3, 1918
Jaques Street.....	5	Bond Street	Edgar Avenue.....	40	395	Jan. 5, 1918
Linden Avenue....	6	Summer Street ...	Cedar Avenue.....	45	285	Jan. 5, 1918
Maine Avenue....	1	Pennsylvania av.	Mystic Avenue....	40	379	Jan. 4, 1918
Minnesota Ave...	1	Pennsylvania av.	Broadway.....	40	525	Jan' 3, 1918
Whitman Street..	7	Mason Road	Packard Ave.....	40	632	Jan. 3, 1918
Total.....			(0.749 miles)		3,956	

Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench Marks" throughout the city for giving grades.

No new street bounds were set during the year 1917. There are at the present time 576 stone bounds set in the city for defining street lines. (Tables showing location in 1907 report.)

The total length of public streets in the city is 83.846 miles, and private streets 16.949 miles. (See table in this report for location, width, length, etc).

Length of Public Streets in Each Ward.

	Miles
Ward one	10.620
Ward two	9.281
Ward three	7.630
Ward four	9.965
Ward five	12.388
Ward six	13.506
Ward seven	20.456

Total length of public streets in the city . . . 83.846

A number of streets have been changed and plans made, showing a renumbering of the buildings, and all old numbering plans revised, new houses plotted, and numbers assigned.

Some of the old main thoroughfares should be renumbered throughout the entire length, so as to eliminate half numbers and letters now being used, as many of these old streets have outgrown their original numbering.

There are many streets, avenues, courts, and places in the city of the same or very similar name, which should be changed to prevent the confusion now existing.

Sidewalk and Street construction work was carried on jointly by the Engineering Department and the Highway Department, part of the work being done by contract, and the remainder by the city highway department, day labor.

Various kinds of pavements were laid by contract during the year.

Recut granite blocks laid on a concrete base with a Portland cement grout.—Vitrified brick, cement base and grouted.—Bituminous macadam laid on a concrete base.

Powder House Square was constructed with a specially designed wearing surface, laid by contract.

(Tables showing quantities and cost in report of Street Commissioner).

The total length of permanent paved streets in the city amounts to 17.1 miles.

Nine new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestone, a total length of 4,417 feet; eight being done by contract (one of which is uncompleted) and one by day labor.

The average cost of this type of construction for a forty-foot street complete, by contract was \$5.88 per linear foot, and by the city highway department, day labor, at a considerably higher cost.

Lines and grades have been given for setting 15,242 linear feet (2.88 miles) of new edgestone, 12,483 square yards (3.17 miles) of granolithic sidewalks and measurements taken for computing assessments; 0.33 of a mile of edgestone has been reset and in addition to this 0.261 mile of granolithic sidewalk has been laid on private streets by property owners. (Table showing quantities and cost in report of Street Commissioner).

The average cost for the year has been as follows:—

For setting edgestone with gravel sidewalk by highway department	\$1.15	per	linear	foot
For setting edgestone with gravel sidewalk by contract	1.08	per	linear	foot
Laying granolithic sidewalk, complete, by contract (including one year guarantee)	1.56	per	square	yard
And the cost of materials furnished by contract:—				
Edgestone (straight) delivered at work	0.69	per	linear	foot
Edgestone (circle) delivered at work	0.87	per	linear	foot
Bricks delivered at work (sidewalks)	20.00	per	M.	
Bricks (vitrified) on cars (paving)	32.90	per	M.	
Cement (Portland) on cars	1.72	per	barrel	(net)
Sand and gravel on cars	0.80	per	cubic	yard
Trap-rock delivered on work (various sizes)	1.75	per	ton	average

From a comparison of the cost of constructing new streets, sidewalks, etc., by day labor and by contract for a number of

years past, it would seem advisable to do by contract all new work, where approximately one-half of the total cost of construction is assessed on abutting property owners, and thereby making the assessments, as levied, more uniform throughout the city.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in the place of brick.

Miles of Edgestone, Granolithic and Brick Sidewalks in Each Ward.

	Edgestone	Gravel Sidewalk	Brick Sidewalk	Granolithic Sidewalks
Ward one . . .	18.906	3.776	12.093	4.597
Ward two . . .	16.189	6.150	6.637	3.394
Ward three . . .	14.258	0.967	11.572	1.784
Ward four . . .	15.227	1.492	9.993	3.756
Ward five . . .	22.315	4.380	12.194	5.847
Ward six . . .	24.721	4.921	10.678	10.072
Ward seven . . .	31.382	2.930	8.462	21.148
Totals . . .	142.998	24.616	71.629	50.598

Table of Street Construction.

	Square Yards	Miles
*Streets paved with granite blocks . . .	119,672	5.01
**Streets paved with concrete . . .	23,990	1.42
†Streets paved with asphaltic top . . .	42,215	2.59
Streets paved with vitrified brick . . .	20,958	1.29
Streets paved with "Bi-co-mac" . . .	10,100	0.77
Streets paved with bitulithic (patent) . . .	3,059	0.06
Combination pavement (concrete base with bituminous top) . . .	90,121	5.98
‡Streets macadamized ("tarvia" bound) . . .		33.23
Streets macadamized (water bound) . . .		32.74
Streets graveled or unimproved . . .		17.70
Total		100.79

* Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

** Includes 0.42 miles state highway.

† Includes 1.16 miles of state highway.

‡ Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

A considerable quantity of stone still remains on the parcels of ledge property owned by the city, situated in West Somerville, that can be quarried and used for the foundation of streets, and on sidewalk work, to the city's advantage. By using the stone from these two ledges and purchasing trap-rock, the city will have a sufficient supply of good road material for a number of years to come.

Previous notice of the city's intended street improvements should be given to the various departments and interested corporations and ample time allowed for making all extensions and repairs of underground work; and no permission should

be granted to cut any newly constructed street, except for emergencies or under special conditions, where a sufficient sum of money, as determined by the city, is paid the city in advance for the restoration of the paving or other street surface.

An ordinance should be enacted whereby no street opening can be made until these conditions are complied with satisfactorily to the city.

The Boston Elevated Railway Company has made repairs in its roadbed in this city during the past year, replacing sections of old tracks with new and heavier rails. There are a number of miles of trackage, however, in the city's main thoroughfares where the old granite block pavement, within the railroad location, should be relaid and grouted with Portland cement, and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms. There are 32 miles of electric railroad (single track location) at the present time in the city's streets.

Where double tracks have been laid in streets, leaving narrow roadways on either side, it is impossible to maintain a macadam surface, even at a heavy expense yearly, and these streets should be permanently paved with a suitable pavement, adapted to the character of the surroundings and amount of traffic and conditions encountered.

More granite block pavement should be laid in sections of certain streets in various parts of the city; this could be accomplished at a comparatively low rate by relaying each year, as the appropriation would allow, sections of the old granite paved streets with modern work and using the surplus recut blocks for new streets desired.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc., have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled.

Plans have been made by the various companies and corporations, and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city, which have been granted by the board of aldermen during the year; and the work of placing overhead wires in conduits underground and removing all poles from the streets should be extended as rapidly as possible.

At the present time there are underground in the city's

streets 17.06 miles of telephone conduits, 12.42 miles of electric light conduits, 1.5 miles of electric railway conduits; and about 9.7 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown Gas Companies have extended their mains in the city's streets 0.58 mile the past year.

Heavy explosions have occurred in the city's streets from underground conduits, owned by private corporations. The city ordinances should be so changed that in the future all underground work constructed by these companies should be rigidly inspected by a competent man employed by the city, so as to eliminate, as far as possible, faulty construction.

A set of block plans should be made covering the entire city area, from accurate surveys made during the past twenty-five years, and carefully compared section by section with the deed dimensions and areas recorded in the assessor's department, and in this manner the correct areas of land determined.

This set of plans would show the area and dimensions of each lot, all houses and other buildings, sewers, catch basins, house drains, water services, gas mains, underground conduits for wires, street lights, street railway tracks, etc., and be of great value to many city departments. Five of these sectional plans have already been made. A separate appropriation should be made for completing these plans.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute, and special plans and data prepared for the city solicitor's use in court cases and hearings.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and the schedules of assessments made out showing the property owners. Copies have been made of all city plans where land has been taken for highways or sewers, and these have been filed and recorded at the Registry, East Cambridge, as required by law.

Grade Crossings and Bridges.

No actual construction on grade crossing abolishment in this city has been done during the past year. The construction work for the elimination of these dangerous grade crossings should be continued until completed as decreed by the court; the Park street crossing included in this decree is uncompleted.

The special automatic pump at Medford street installed for removing storm water from the subway under the steam

railroad tracks and discharging into a city sewer at a higher elevation (this means of disposal of water being made necessary by an act of the state legislature) has not proved satisfactory to the city up to the present time.

The plans for abolishments of these crossings were described in previous annual reports, and at two streets the plan adopted is the same as proposed by the city's scheme presented to the commission; at the other three streets the plan adopted is just the reverse of the city's scheme as presented.

Prospect street bridge over the Fitchburg division of the Boston & Maine railroad is an old narrow wooden bridge that has existed for many years and is wholly inadequate for the unusual amount of automobile travel at the present time and should be rebuilt immediately to the full width of the street. Likewise the Broadway bridge at North Somerville over the southern division of the Boston & Maine railroad should be widened to the full width of the street.

The old bridge carrying the Boston & Maine railroad tracks over Washington street (East Somerville) should be replaced with a new bridge of modern design and thereby increasing the head-room in the street about two and one-half feet and improve the drainage where at present the traffic is seriously impeded.

City Boundary Lines.

In December, 1917, representatives appointed from the city of Somerville, and the city of Medford examined the bounds defining the division line between these two cities and reported their findings in due form to the board of aldermen.

These boundary lines are perambulated every five years as prescribed by the statutes.

A number of stone boundary markers, defining the division lines between Somerville and bordering cities, are out of plumb and should be reset.

A contemplated change in the boundary line between Somerville and Medford has been under consideration by both cities for some time and an exchange of territory could be made that would be equally advantageous.

SEWER DIVISION.**Construction Account.****Statement of Expenses, 1917.**

Constructing "separate system" sewers (assessments levied)	\$6,719 78	
Constructing "combined system" sewers (assessments levied)	346 35	
Constructing storm drains	4,948 03	
Constructing catch basins	2,005 26	
Constructing new manholes on old sewers	346 70	
Charged to other departments and ac- counts	93 12	
Materials on hand December 31 (excess 1916)	561 15	
Total expenditure		\$15,020 39
	CREDIT.	
Appropriation (\$7,000) (\$800)	\$7,800 00	
Balance unexpended, 1916	7,688 35	
Cash for freight and cement bags	208 19	
Received from other departments and ac- counts, labor and materials furnished	93 12	
Total credit		\$15,789 66
Balance unexpended (over to 1918)		\$769 27

The greater part of the new construction work has been done by contract, and the remainder by the city employing day labor, where old structures were to be remodeled or replaced by some difficult construction work. All materials have been furnished by the city, and the prices paid for supplies for the season have been by contract with the lowest bidder as follows:—

Sewer pipe (3 foot lengths)	71% discount from list price on cars
Sewer fittings	73% discount from list price on cars
Portland cement per barrel	\$1.72 on cars (net)
Sand per cubic yard	0.80 on cars
Sewer bricks per M.	10.50 purchased at yard
Iron manhole and catch basin castings per hundred weight	2.48 delivered at yard
Catch basin traps, each	2.12 delivered at yard

A number of sewers have been constructed as petitioned for in various sections of the city, or as considered necessary for the improvement of the drainage system, and portions of the cost of construction assessed on the abutting estates under orders passed by the board of aldermen.

Short lines of storm drains and overflows from congested sewers have been constructed during the year in the most needed districts.

The "separate system" sewers (those built for house drainage only) should be extended in the older districts of the city yearly, until all the flooded districts have two complete systems of drainage, the old sewer to be used for storm and surface water. The city pays the entire cost of these new sewer extensions for house drainage, and wherever constructed the house plumbing should be changed where necessary; and the house drains and conductor, or surface water drains, reconnected with both systems as soon as possible.

New sewers and drains were constructed during the year varying in size from eight-inch pipe to twelve-inch pipe in the following localities:—

"Separate system" sewers in:—

Gordon Street,—Powder House Boulevard to near North Street.

Middlesex Avenue,—Winthrop Avenue, northerly (west-erly sidewalk).

Powder House Boulevard,—Woods Avenue to Gordon Street.

Rose Street,—Washington Street to near Lewis Street.

Winthrop Avenue,—Mystic Avenue to Middlesex Ave-nue.

"Combined system" sewers in:—

Broadway,—Fenwick Street to near Bond Street.

Carter Terrace,—Summer Street southwesterly.

Storm drains in:—

Buena Vista Road,—Holland Street to near Lexington & Arlington Branch R. R.

Gordon Street,—Powder House Boulevard to near North Street.

Hillsdale Road,—Conwell Avenue to Sunset Road.

Middlesex Avenue,—Cummings Street northerly.

Powder House Boulevard,—Woods Avenue to Gordon Street and across Boulevard.

Rogers Avenue,—Broadway southwesterly.

Rose Street,—Washington Street to near Lewis Street.

West Adams Street,—Conwell Avenue to Bailey Street.

Summary of Work.

Fifteen new sewers and drains have been constructed during the year, a total length of 8,037.2 linear feet (1.522 miles) at a cost of \$12,014.16; plans have been made showing these sewers in detail, and assessments levied on a portion of them, amounting to \$3,172.20. (See tabular statement of sewers and drains for 1917, showing itemized statement of work and cost).

The total length of the city's drainage system is 112.8 miles; 32.271 miles being on the "separate system" and 11.285 miles of storm drains, and the entire cost of construction has

Tabular Statement of Sewers and Storm Drains Built in 1917.

LOCATION.				ITEMS OF CONSTRUCTION AND COST.																							
NAME OF STREET.	FROM	TO	CONTRACTOR.	MATERIAL EXCAVATED.	Average Cut.	SEWER.		SUB-DRAIN.		Cubic yards Rock Excavation.	Price per cubic yard, Rock.	Manholes.	Average cost. Manholes.	Inlets.	PIPE SEWER, COST PER LINEAR FOOT.										Total Cost.	Assessment.	Cost to City.
						Size in inches.	Length in feet.	Size in inches.	Length in feet.						Excavating, Refilling, and Pipe Laying.		Prices including Sub-drain where laid.	Engineering and Inspection.	Miscellaneous.	Lumber.	Repairing Side-walks, Resurfacing Street, etc.	Average cost per Linear Foot.					
															Main Sewer.	Sub-drain.											
Broadway, sewer.....	Fenwick street.....	near Bond street.....	Charles A. Kelley.....	Hardpan.....	5'-9"	8	205.5					1	\$47.95	5	\$1.15		0.22	\$0.08					\$1.69	\$346.35	\$346.35		
Buena Vista road, storm-drain.....	Tannery Br'k, storm-dr'n.....	near Holland street.....	Day Labor.....	Sand and filling.....	5'-0"	12	240.5					1	39.90				0.39						1.18	346.15		\$346.15	
Buena Vista road, storm-drain.....	End of above.....	Holland street.....	Day Labor.....	Sand and filling.....	5'-0"	8	53.0																				
Carter Terrace, Sewer.....	Summer street.....	Southwesterly.....	Bartholomew Burke.....	Hardpan and loam.....	7'-6"	8	191.0																				
Gordon street, sewer.....	Powder House Blvd.....	near North street.....	Charles A. Kelley.....	Sandy marl and gravel.....	7'-0"	8	1195.4		1.0	\$5.00		4	52.20	76	1.10		0.24	0.05					1.57	1,871.37	1,871.37		
Gordon street, storm-drain.....	Powder House Blvd.....	near North street.....	Charles A. Kelley.....	Sandy marl and gravel.....	7'-0"	8	1195.4					4	17.15	70	0.15		0.21	0.02					0.44	528.02		528.02	
Hillsdale road storm-drain.....	Conwell avenue.....	Curtis avenue.....	Bartholomew Burke.....	Hardpan and ledge.....	6'-0"	10	221.1																				
Hillsdale road, storm-drain.....	Curtis avenue.....	Sunset road.....	Bartholomew Burke.....	Hardpan and ledge.....	6'-0"	8	412.4		51.0	2.50		4	40.53		1.10		0.23	0.05					1.84	1,167.89		1,167.89	
Middlesex avenue, sewer.....	Winthrop avenue.....	Northerly.....	Day Labor.....	Clay and filling.....	8'-6"	8	694.0					2	94.70	12			0.07	0.07					1.25	865.23	Assessed 1918	865.23	
Middlesex avenue, storm-drain.....	Storm-drain build in 1908	Northerly.....	Day Labor.....	Clay and filling.....	7'-6"	10	440.0					1	52.92				0.04	0.04					0.69	302.72		302.72	
Powder House Boulevard, sewer.....	Woods avenue.....	Gordon street.....	Charles A. Kelley.....	Sandy marl and clay.....	11'-6"	8	301.7					1	84.71	7	2.40		0.28	0.11	*0.23	0.04			3.34	1,009.45	177.45	832.00	
Powder House Blvd. storm-drain.....	Woods avenue.....	Gordon street.....	Charles A. Kelley.....	Sandy marl and clay.....	10'-6"	10	254.8					2	53.23	6	0.15								1.29	421.44		421.44	
Powder House Blvd. storm-drain.....	Across Boulevard from	West to East side.....	Day Labor.....	Sandy marl and clay.....	7'-6"	12	71.0										0.43	0.02									
Rogers avenue, storm-drain.....	Broadway.....	Southwesterly.....	Bartholomew Burke.....	Hardpan and clay.....	9'-0"	10	622.9					2	66.57		1.45		0.25	0.04					1.95	1,216.20		1,216.20	
Rose street, sewer.....	Washington street.....	near Lewis street.....	Charles A. Kelley.....	Sand.....	8'-0"	8	395.2					2	61.70	26	1.25		0.28	0.08					1.97	777.03	777.03		
Rose street, storm-drain.....	Washington street.....	near Lewis street.....	Charles A. Kelley.....	Sand.....	7'-0"	8	395.0	6	98.0			2	27.49	26	0.15		0.22	0.03					0.54	214.94		214.94	
West Adams street, storm-drain.....	Conwell avenue.....	near Chetwynd road.....	Bartholomew Burke.....	Hardpan.....	5'-0"	10	262.0																				
West Adams street, storm-drain.....	near Chetwynd road.....	Bailey street.....	Bartholomew Burke.....	Hardpan.....	5'-0"	8	249.3					3	34.75		0.95		0.27	0.05					1.47	750.67		750.67	
Winthrop avenue, sewer.....	Mystic avenue.....	Easterly.....	Charles A. Kelley.....	Clay and filling.....	12'-6"	8	354.0	5	299.0			3	86.51		2.65		0.26	0.12	*0.48	0.11	0.04		4.56	1,615.85		1,615.85	
Winthrop avenue, sewer.....	End of above.....	Mystic avenue.....	Day Labor.....	Clay and filling.....	8'-6"	8	283.0																2.05	580.85		580.85	

8,037.2 (1,522 miles.)

\$1,014.16 \$3,172.20 \$8,841.96

* Extra cost of Excavation and connection with Metropolitan sewer.

Total length of public sewers in the city, January 1, 1918.....	501,244.4	
Total length of private sewers in the city, January 1, 1918.....	34,748.0	
Total length of sewers in the city, January 1, 1918.....	535,992.4	= 101.514 miles (32,271 miles separate system sewers.)
Total length of storm-drains in the city, January 1, 1918.....	59,586.5	= 11.285 miles.
Total length of city drainage system, January 1, 1918.....	112,799	miles.
Total length of Metropolitan sewerage system mains running through the city.....	3,475	miles.

INDEX

Introduction	1
Chapter I	10
Chapter II	25
Chapter III	40
Chapter IV	55
Chapter V	70
Chapter VI	85
Chapter VII	100
Chapter VIII	115
Chapter IX	130
Chapter X	145
Chapter XI	160
Chapter XII	175
Chapter XIII	190
Chapter XIV	205
Chapter XV	220
Chapter XVI	235
Chapter XVII	250
Chapter XVIII	265
Chapter XIX	280
Chapter XX	295
Chapter XXI	310
Chapter XXII	325
Chapter XXIII	340
Chapter XXIV	355
Chapter XXV	370
Chapter XXVI	385
Chapter XXVII	400
Chapter XXVIII	415
Chapter XXIX	430
Chapter XXX	445
Chapter XXXI	460
Chapter XXXII	475
Chapter XXXIII	490
Chapter XXXIV	505
Chapter XXXV	520
Chapter XXXVI	535
Chapter XXXVII	550
Chapter XXXVIII	565
Chapter XXXIX	580
Chapter XL	595
Chapter XLI	610
Chapter XLII	625
Chapter XLIII	640
Chapter XLIV	655
Chapter XLV	670
Chapter XLVI	685
Chapter XLVII	700
Chapter XLVIII	715
Chapter XLIX	730
Chapter L	745
Chapter LI	760
Chapter LII	775
Chapter LIII	790
Chapter LIV	805
Chapter LV	820
Chapter LVI	835
Chapter LVII	850
Chapter LVIII	865
Chapter LIX	880
Chapter LX	895
Chapter LXI	910
Chapter LXII	925
Chapter LXIII	940
Chapter LXIV	955
Chapter LXV	970
Chapter LXVI	985
Chapter LXVII	1000
Chapter LXVIII	1015
Chapter LXIX	1030
Chapter LXX	1045
Chapter LXXI	1060
Chapter LXXII	1075
Chapter LXXIII	1090
Chapter LXXIV	1105
Chapter LXXV	1120
Chapter LXXVI	1135
Chapter LXXVII	1150
Chapter LXXVIII	1165
Chapter LXXIX	1180
Chapter LXXX	1195
Chapter LXXXI	1210
Chapter LXXXII	1225
Chapter LXXXIII	1240
Chapter LXXXIV	1255
Chapter LXXXV	1270
Chapter LXXXVI	1285
Chapter LXXXVII	1300
Chapter LXXXVIII	1315
Chapter LXXXIX	1330
Chapter LXXXX	1345
Chapter LXXXXI	1360
Chapter LXXXXII	1375
Chapter LXXXXIII	1390
Chapter LXXXXIV	1405
Chapter LXXXXV	1420
Chapter LXXXXVI	1435
Chapter LXXXXVII	1450
Chapter LXXXXVIII	1465
Chapter LXXXXIX	1480
Chapter LXXXXX	1495
Chapter LXXXXXI	1510
Chapter LXXXXXII	1525
Chapter LXXXXXIII	1540
Chapter LXXXXXIV	1555
Chapter LXXXXXV	1570
Chapter LXXXXXVI	1585
Chapter LXXXXXVII	1600
Chapter LXXXXXVIII	1615
Chapter LXXXXXIX	1630
Chapter LXXXXXX	1645
Chapter LXXXXXXI	1660
Chapter LXXXXXXII	1675
Chapter LXXXXXXIII	1690
Chapter LXXXXXXIV	1705
Chapter LXXXXXXV	1720
Chapter LXXXXXXVI	1735
Chapter LXXXXXXVII	1750
Chapter LXXXXXXVIII	1765
Chapter LXXXXXXIX	1780
Chapter LXXXXXXX	1795
Chapter LXXXXXXXI	1810
Chapter LXXXXXXXII	1825
Chapter LXXXXXXXIII	1840
Chapter LXXXXXXXIV	1855
Chapter LXXXXXXXV	1870
Chapter LXXXXXXXVI	1885
Chapter LXXXXXXXVII	1900
Chapter LXXXXXXXVIII	1915
Chapter LXXXXXXXIX	1930
Chapter LXXXXXXXI	1945
Chapter LXXXXXXXII	1960
Chapter LXXXXXXXIII	1975
Chapter LXXXXXXXIV	1990
Chapter LXXXXXXXV	2005
Chapter LXXXXXXXVI	2020
Chapter LXXXXXXXVII	2035
Chapter LXXXXXXXVIII	2050
Chapter LXXXXXXXIX	2065
Chapter LXXXXXXXI	2080
Chapter LXXXXXXXII	2095
Chapter LXXXXXXXIII	2110
Chapter LXXXXXXXIV	2125
Chapter LXXXXXXXV	2140
Chapter LXXXXXXXVI	2155
Chapter LXXXXXXXVII	2170
Chapter LXXXXXXXVIII	2185
Chapter LXXXXXXXIX	2200
Chapter LXXXXXXXI	2215
Chapter LXXXXXXXII	2230
Chapter LXXXXXXXIII	2245
Chapter LXXXXXXXIV	2260
Chapter LXXXXXXXV	2275
Chapter LXXXXXXXVI	2290
Chapter LXXXXXXXVII	2305
Chapter LXXXXXXXVIII	2320
Chapter LXXXXXXXIX	2335
Chapter LXXXXXXXI	2350
Chapter LXXXXXXXII	2365
Chapter LXXXXXXXIII	2380
Chapter LXXXXXXXIV	2395
Chapter LXXXXXXXV	2410
Chapter LXXXXXXXVI	2425
Chapter LXXXXXXXVII	2440
Chapter LXXXXXXXVIII	2455
Chapter LXXXXXXXIX	2470
Chapter LXXXXXXXI	2485
Chapter LXXXXXXXII	2500
Chapter LXXXXXXXIII	2515
Chapter LXXXXXXXIV	2530
Chapter LXXXXXXXV	2545
Chapter LXXXXXXXVI	2560
Chapter LXXXXXXXVII	2575
Chapter LXXXXXXXVIII	2590
Chapter LXXXXXXXIX	2605
Chapter LXXXXXXXI	2620
Chapter LXXXXXXXII	2635
Chapter LXXXXXXXIII	2650
Chapter LXXXXXXXIV	2665
Chapter LXXXXXXXV	2680
Chapter LXXXXXXXVI	2695
Chapter LXXXXXXXVII	2710
Chapter LXXXXXXXVIII	2725
Chapter LXXXXXXXIX	2740
Chapter LXXXXXXXI	2755
Chapter LXXXXXXXII	2770
Chapter LXXXXXXXIII	2785
Chapter LXXXXXXXIV	2800
Chapter LXXXXXXXV	2815
Chapter LXXXXXXXVI	2830
Chapter LXXXXXXXVII	2845
Chapter LXXXXXXXVIII	2860
Chapter LXXXXXXXIX	2875
Chapter LXXXXXXXI	2890
Chapter LXXXXXXXII	2905
Chapter LXXXXXXXIII	2920
Chapter LXXXXXXXIV	2935
Chapter LXXXXXXXV	2950
Chapter LXXXXXXXVI	2965
Chapter LXXXXXXXVII	2980
Chapter LXXXXXXXVIII	2995
Chapter LXXXXXXXIX	3010
Chapter LXXXXXXXI	3025
Chapter LXXXXXXXII	3040
Chapter LXXXXXXXIII	3055
Chapter LXXXXXXXIV	3070
Chapter LXXXXXXXV	3085
Chapter LXXXXXXXVI	3100
Chapter LXXXXXXXVII	3115
Chapter LXXXXXXXVIII	3130
Chapter LXXXXXXXIX	3145
Chapter LXXXXXXXI	3160
Chapter LXXXXXXXII	3175
Chapter LXXXXXXXIII	3190
Chapter LXXXXXXXIV	3205
Chapter LXXXXXXXV	3220
Chapter LXXXXXXXVI	3235
Chapter LXXXXXXXVII	3250
Chapter LXXXXXXXVIII	3265
Chapter LXXXXXXXIX	3280
Chapter LXXXXXXXI	3295
Chapter LXXXXXXXII	3310
Chapter LXXXXXXXIII	3325
Chapter LXXXXXXXIV	3340
Chapter LXXXXXXXV	3355
Chapter LXXXXXXXVI	3370
Chapter LXXXXXXXVII	3385
Chapter LXXXXXXXVIII	3400
Chapter LXXXXXXXIX	3415
Chapter LXXXXXXXI	3430
Chapter LXXXXXXXII	3445
Chapter LXXXXXXXIII	3460
Chapter LXXXXXXXIV	3475
Chapter LXXXXXXXV	3490
Chapter LXXXXXXXVI	3505
Chapter LXXXXXXXVII	3520
Chapter LXXXXXXXVIII	3535
Chapter LXXXXXXXIX	3550
Chapter LXXXXXXXI	3565
Chapter LXXXXXXXII	3580
Chapter LXXXXXXXIII	3595
Chapter LXXXXXXXIV	3610
Chapter LXXXXXXXV	3625
Chapter LXXXXXXXVI	3640
Chapter LXXXXXXXVII	3655
Chapter LXXXXXXXVIII	3670
Chapter LXXXXXXXIX	3685
Chapter LXXXXXXXI	3700
Chapter LXXXXXXXII	3715
Chapter LXXXXXXXIII	3730
Chapter LXXXXXXXIV	3745
Chapter LXXXXXXXV	3760
Chapter LXXXXXXXVI	3775
Chapter LXXXXXXXVII	3790
Chapter LXXXXXXXVIII	3805
Chapter LXXXXXXXIX	3820
Chapter LXXXXXXXI	3835
Chapter LXXXXXXXII	3850
Chapter LXXXXXXXIII	3865
Chapter LXXXXXXXIV	3880
Chapter LXXXXXXXV	3895
Chapter LXXXXXXXVI	3910
Chapter LXXXXXXXVII	3925
Chapter LXXXXXXXVIII	3940
Chapter LXXXXXXXIX	3955
Chapter LXXXXXXXI	3970
Chapter LXXXXXXXII	3985
Chapter LXXXXXXXIII	4000
Chapter LXXXXXXXIV	4015
Chapter LXXXXXXXV	4030
Chapter LXXXXXXXVI	4045
Chapter LXXXXXXXVII	4060
Chapter LXXXXXXXVIII	4075
Chapter LXXXXXXXIX	4090
Chapter LXXXXXXXI	4105
Chapter LXXXXXXXII	4120
Chapter LXXXXXXXIII	4135
Chapter LXXXXXXXIV	4150
Chapter LXXXXXXXV	4165
Chapter LXXXXXXXVI	4180
Chapter LXXXXXXXVII	4195
Chapter LXXXXXXXVIII	4210
Chapter LXXXXXXXIX	4225
Chapter LXXXXXXXI	4240
Chapter LXXXXXXXII	4255
Chapter LXXXXXXXIII	4270
Chapter LXXXXXXXIV	4285
Chapter LXXXXXXXV	4300
Chapter LXXXXXXXVI	4315
Chapter LXXXXXXXVII	4330
Chapter LXXXXXXXVIII	4345
Chapter LXXXXXXXIX	4360
Chapter LXXXXXXXI	4375
Chapter LXXXXXXXII	4390
Chapter LXXXXXXXIII	4405
Chapter LXXXXXXXIV	4420
Chapter LXXXXXXXV	4435
Chapter LXXXXXXXVI	4450
Chapter LXXXXXXXVII	4465
Chapter LXXXXXXXVIII	4480
Chapter LXXXXXXXIX	4495
Chapter LXXXXXXXI	4510
Chapter LXXXXXXXII	4525
Chapter LXXXXXXXIII	4540
Chapter LXXXXXXXIV	4555
Chapter LXXXXXXXV	4570
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Chapter LXXXXXXXVIII	4615
Chapter LXXXXXXXIX	4630
Chapter LXXXXXXXI	4645
Chapter LXXXXXXXII	4660
Chapter LXXXXXXXIII	4675
Chapter LXXXXXXXIV	4690
Chapter LXXXXXXXV	4705
Chapter LXXXXXXXVI	4720
Chapter LXXXXXXXVII	4735
Chapter LXXXXXXXVIII	4750
Chapter LXXXXXXXIX	4765
Chapter LXXXXXXXI	4780
Chapter LXXXXXXXII	4795
Chapter LXXXXXXXIII	4810
Chapter LXXXXXXXIV	4825
Chapter LXXXXXXXV	4840
Chapter LXXXXXXXVI	4855
Chapter LXXXXXXXVII	4870
Chapter LXXXXXXXVIII	4885
Chapter LXXXXXXXIX	4900
Chapter LXXXXXXXI	4915
Chapter LXXXXXXXII	4930
Chapter LXXXXXXXIII	4945
Chapter LXXXXXXXIV	4960
Chapter LXXXXXXXV	4975
Chapter LXXXXXXXVI	4990
Chapter LXXXXXXXVII	5005
Chapter LXXXXXXXVIII	5020
Chapter LXXXXXXXIX	5035
Chapter LXXXXXXXI	5050
Chapter LXXXXXXXII	5065
Chapter LXXXXXXXIII	5080
Chapter LXXXXXXXIV	5095
Chapter LXXXXXXXV	5110
Chapter LXXXXXXXVI	5125
Chapter LXXXXXXXVII	5140
Chapter LXXXXXXXVIII	5155
Chapter LXXXXXXXIX	5170
Chapter LXXXXXXXI	5185
Chapter LXXXXXXXII	5200
Chapter LXXXXXXXIII	5215
Chapter LXXXXXXXIV	5230
Chapter LXXXXXXXV	5245
Chapter LXXXXXXXVI	5260
Chapter LXXXXXXXVII	5275
Chapter LXXXXXXXVIII	5290
Chapter LXXXXXXXIX	5305
Chapter LXXXXXXXI	5320
Chapter LXXXXXXXII	5335
Chapter LXXXXXXXIII	5350
Chapter LXXXXXXXIV	5365
Chapter LXXXXXXXV	5380
Chapter LXXXXXXXVI	5395
Chapter LXXXXXXXVII	5410
Chapter LXXXXXXXVIII	5425
Chapter LXXXXXXXIX	5440
Chapter LXXXXXXXI	5455
Chapter LXXXXXXXII	5470
Chapter LXXXXXXXIII	5485
Chapter LXXXXXXXIV	5500
Chapter LXXXXXXXV	5515
Chapter LXXXXXXXVI	5530
Chapter LXXXXXXXVII	5545
Chapter LXXXXXXXVIII	5560
Chapter LXXXXXXXIX	5575
Chapter LXXXXXXXI	5590
Chapter LXXXXXXXII	5605
Chapter LXXXXXXXIII	5620
Chapter LXXXXXXXIV	5635
Chapter LXXXXXXXV	5650
Chapter LXXXXXXXVI	5665
Chapter LXXXXXXXVII	5680
Chapter LXXXXXXXVIII	5695
Chapter LXXXXXXXIX	5710
Chapter LXXXXXXXI	5725
Chapter LXXXXXXXII	5740
Chapter LXXXXXXXIII	5755
Chapter LXXXXXXXIV	5770
Chapter LXXXXXXXV	5785
Chapter LXXXXXXXVI	5800
Chapter LXXXXXXXVII	5815
Chapter LXXXXXXXVIII	5830
Chapter LXXXXXXXIX	5845
Chapter LXXXXXXXI	5860
Chapter LXXXXXXXII	5875
Chapter LXXXXXXXIII	5890
Chapter LXXXXXXXIV	5905
Chapter LXXXXXXXV	5920
Chapter LXXXXXXXVI	5935
Chapter LXXXXXXXVII	5950
Chapter LXXXXXXXVIII	5965
Chapter LXXXXXXXIX	5980
Chapter LXXXXXXXI	5995
Chapter LXXXXXXXII	6010
Chapter LXXXXXXXIII	6025
Chapter LXXXXXXXIV	6040
Chapter LXXXXXXXV	6055
Chapter LXXXXXXXVI	6070
Chapter LXXXXXXXVII	6085
Chapter LXXXXXXXVIII	6100
Chapter LXXXXXXXIX	6115
Chapter LXXXXXXXI	6130
Chapter LXXXXXXXII	6145
Chapter LXXXXXXXIII	6160
Chapter LXXXXXXXIV	6175
Chapter LXXXXXXXV	6190
Chapter LXXXXXXXVI	6205
Chapter LXXXXXXXVII	6220
Chapter LXXXXXXXVIII	6235
Chapter LXXXXXXXIX	6250
Chapter LXXXXXXXI	6265
Chapter LXXXXXXXII	6280
Chapter LXXXXXXXIII	6295
Chapter LXXXXXXXIV	6310
Chapter LXXXXXXXV	6325
Chapter LXXXXXXXVI	6340
Chapter LXXXXXXXVII	6355
Chapter LXXXXXXXVIII	6370
Chapter LXXXXXXXIX	6385
Chapter LXXXXXXXI	6400
Chapter LXXXXXXXII	6415
Chapter LXXXXXXXIII	6430
Chapter LXXXXXXXIV	6445
Chapter LXXXXXXXV	6460
Chapter LXXXXXXXVI	6475
Chapter LXXXXXXXVII	6490
Chapter LXXXXXXXVIII	6505
Chapter LXXXXXXXIX	6520
Chapter LXXXXXXXI	6535
Chapter LXXXXXXXII	6550
Chapter LXXXXXXXIII	6565
Chapter LXXXXXXXIV	6580
Chapter LXXXXXXXV	6595
Chapter LXXXXXXXVI	6610
Chapter LXXXXXXXVII	6625
Chapter LXXXXXXXVIII	6640
Chapter LXXXXXXXIX	6655
Chapter LXXXXXXXI	6670
Chapter LXXXXXXXII	6685
Chapter LXXXXXXXIII	6700
Chapter LXXXXXXXIV	6715
Chapter LXXXXXXXV	6730
Chapter LXXXXXXXVI	6745
Chapter LXXXXXXXVII	6760
Chapter LXXXXXXXVIII	6775
Chapter LXXXXXXXIX	6790
Chapter LXXXXXXXI	6805
Chapter LXXXXXXXII	6820
Chapter LXXXXXXXIII	6835
Chapter LXXXXXXXIV	6850
Chapter LXXXXXXXV	6865
Chapter LXXXXXXXVI	6880
Chapter LXXXXXXXVII	6895
Chapter LXXXXXXXVIII	6910
Chapter LXXXXXXXIX	6925
Chapter LXXXXXXXI	6940
Chapter LXXXXXXXII	6955
Chapter LXXXXXXXIII	6970
Chapter LXXXXXXXIV	6985
Chapter LXXXXXXXV	7000
Chapter LXXXXXXXVI	7015
Chapter LXXXXXXXVII	7030
Chapter LXXXXXXXVIII	7045
Chapter LXXXXXXXIX	7060
Chapter LXXXXXXXI	7075
Chapter LXXXXXXXII	7090
Chapter LXXXXXXXIII	7105
Chapter LXXXXXXXIV	7120
Chapter LXXXXXXXV	7135
Chapter LXXXXXXXVI	7150
Chapter LXXXXXXXVII	7165
Chapter LXXXXXXXVIII	7180
Chapter LXXXXXXXIX	7195
Chapter LXXXXXXXI	7210
Chapter LXXXXXXXII	7225
Chapter LXXXXXXXIII	7240
Chapter LXXXXXXXIV	7255
Chapter LXXXXXXXV	7270
Chapter LXXXXXXXVI	7285
Chapter LXXXXXXXVII	7300
Chapter LXXXXXXXVIII	7315
Chapter LXXXXXXXIX	7330
Chapter LXXXXXXXI	7345
Chapter LXXXXXXXII	7360
Chapter LXXXXXXXIII	7375
Chapter LXXXXXXXIV	7390
Chapter LXXXXXXXV	7405
Chapter LXXXXXXXVI	7420
Chapter LXXXXXXXVII	7435
Chapter LXXXXXXXVIII	7450
Chapter LXXXXXXXIX	7465
Chapter LXXXXXXXI	7480
Chapter LXXXXXXXII	7495
Chapter LXXXXXXXIII	7510
Chapter LXXXXXXXIV	7525
Chapter LXXXXXXXV	7540
Chapter LXXXXXXXVI	7555
Chapter LXXXXXXXVII	7570
Chapter LXXXXXXXVIII	7585
Chapter LXXXXXXXIX	7600
Chapter LXXXXXXXI	7615
Chapter LXXXXXXXII	7630
Chapter LXXXXXXXIII	7645
Chapter LXXXXXXXIV	7660
Chapter LXXXXXXXV	7675
Chapter LXXXXXXXVI	7690
Chapter LXXXXXXXVII	7705
Chapter LXXXXXXXVIII	7720
Chapter LXXXXXXXIX	7735
Chapter LXXXXXXXI	7750
Chapter LXXXXXXXII	7765
Chapter LXXXXXXXIII	7780
Chapter LXXXXXXXIV	7795
Chapter LXXXXXXXV	7810
Chapter LXXXXXXXVI	7825
Chapter LXXXXXXXVII	7840
Chapter LXXXXXXXVIII	7855
Chapter LXXXXXXXIX	7870
Chapter LXXXXXXXI	7885
Chapter LXXXXXXXII	7900
Chapter LXXXXXXXIII	7915
Chapter LXXXXXXXIV	7930
Chapter LXXXXXXXV	7945
Chapter LXXXXXXXVI	7960
Chapter LXXXXXXXVII	7975
Chapter LXXXXXXXVIII	7990
Chapter LXXXXXXXIX	8005
Chapter LXXXXXXXI	8020
Chapter LXXXXXXXII	8035
Chapter LXXXXXXXIII	8050
Chapter LXXXXXXXIV	8065
Chapter LXXXXXXXV	8080
Chapter LXXXXXXXVI	8095
Chapter LXXXXXXXVII	8110
Chapter LXXXXXXXVIII	8125
Chapter LXXXXXXXIX	8140
Chapter LXXXXXXXI	8155
Chapter LXXXXXXXII	8170
Chapter LXXXXXXXIII	8185
Chapter LXXXXXXXIV</	

amounted to about \$1,343,434.00, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

Twenty-seven catch basins have been constructed in the highways during the year, making a total of 1,901 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways	1,763 basins
Located in city boulevard	39 “
Located in parks (16) and other city lots (12)	28 “
	1,830
Total catch basins constructed and maintained by the city	1,830
By Boston & Maine Railroad Company on railroad locations	33 basins
By state, located in boulevards	71 “
	104
Total catch basins in the city for storm drainage purposes	1,934

Metropolitan Sewer Connections.

There are within the city's limits thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report.

Wherever the city's "combined system" sewers are connected with the Metropolitan sewer, the flow is automatically regulated so that in times of storms the connection closes and the discharge continues through the old channels to the rivers; the "separate system" connections are always in operation under all conditions.

The city's assessment for the Metropolitan sewer system for the past year was \$46,408.65 on construction account and \$28,405.59 for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,242,591.64 (1892-1917, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

New Work.

The separate system sewers should be extended in the old section of the city each year, as the appropriation will allow.

The construction of the storm drainage system in the vicinity of North Somerville should be extended, the outlet for this district being through the city of Medford into Mystic river; and in connection therewith, the boundary line between Som-

erville and Medford should be changed in the vicinity of Pearson road and Boston avenue, so that this outlet, Two Penny brook, can be improved by Somerville, and the covered channel extended to the Boston & Maine railroad, to conform with the work already done within the present city limits.

A large storm overflow drain has been contemplated for some time at the East Cambridge line, across private lands from Somerville avenue, discharging into Miller's river. The construction of this conduit would relieve, to a great extent, the flooding of certain streets and many cellars in times of excessive storms. The city of Cambridge is equally interested in this matter of improved drainage and the cities acting jointly should complete this work whenever an appropriation can be made.

Some agreement should be made whereby a storm drain and sewers may be constructed in the valley along the location of the southern division of the Boston & Maine railroad, between Gilman square and Cedar street, this being the natural outlet for a number of the city's streets and house lots, which at the present time have either very poor or no means of drainage, and would abolish two syphons under the railroad tracks. It would be of great benefit to the railroad company as well as giving relief to sections of the city's overcharged drainage system during heavy storms by diverting through this proposed conduit the proper drainage area which is now flowing in other directions.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work completed.

MAINTENANCE ACCOUNT.

Statement of Expenses, 1917.

Maintenance of sewers, including cleaning and flushing (112.8 miles)	\$4,941 90
Maintenance of catch basins, cleaning and flushing (1,830)	10,747 74
Maintenance of storm water pump, Medford street (Repairs of pump \$275.00)	481 01
Changing line and grade and repairing catch basins	411 81
Changing line and grade and repairing manholes	344 14
Repairing old sewers	326 90
Inspection and location of house drains	297 34
New tools and supplies	389 46
Repairs of tools and property	57 43
Maintenance of sewer division yards	600 50
Telephone	63 22
Expressing, etc.	1 03
	<hr/>
Total debit	\$18,662 48

CREDIT.	
Appropriation (\$18,000.00 and \$1,100.00)	\$19,100 00
Transfers to other departments	410 00
	<hr/>
Total credit	\$18,690 00
	<hr/>
Balance unexpended (transferred to other accounts)	\$27.52

Value of tools and property on hand used in maintenance of sewers, \$2,000.00.

A permanent force of men and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins, etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumps. These dumping places are fast diminishing and in a very few years' time some other means of disposal will have to be provided.

About 5,260 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of about \$2.00 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$139.00. There are about twenty catch basins (average) to a mile of roadway in this city and the average cost of cleaning per basin is about \$5.87 a year.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and hanholes have been repaired and grade or line changed.

Two hundred and twenty-seven permits have been issued to licensed drain layers for connecting buildings with the main sewers, fifty-seven being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

At the present time there are six persons licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 16,442 private house drain connections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies, where alterations and new construction work have been required, furnishing materials and labor, and being partially reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

PARKS AND PLAYGROUNDS DIVISION.

At the present time there are twenty separate parcels of land located in the various parts of the city and containing about seventy-five acres, which are maintained as parks and playgrounds; also the care of about nine-tenths of a mile of boulevard is under this division. Five of these pleasure parks are famous historically. Included in this total area are playgrounds where the land is owned by private parties, and turned over to the city for use in the following localities; on Fells-way, east, 2.5 acres; Knowlton street, 1.5 acres; Tufts College Land, 4.8 acres, and the city also maintains the cemetery on Somerville avenue, containing 0.7 acre. Satisfactory arrangements have been made a number of years past whereby the city has the use of Tufts College playfield during the summer vacation months, and skating area in the winter.

This area of parks and playgrounds completely developed will compare favorably with other cities, Somerville being very small in area and the most densely populated city in the state, averaging about 22,000 in population to a square mile. (Approximately 34 per acre.)

There are eight baseball "diamonds" and three football fields in use and under the city's supervision, as well as numerous smaller playgrounds, on which are located an outdoor gymnasium, running track, tennis courts, and various kinds of athletic apparatus for recreation. These areas are constantly in use by the many athletic teams, the games being arranged for and regularly scheduled on the various grounds throughout the season, and during the winter time, ponds and artificial areas flooded for skating when the weather was favorable, and have been policed by regular officers from the police department, when required.

Tennis courts have been maintained at Mason street playground, Broadway park, and Somerville field and used continually throughout the season.

At Lincoln park one of the ball fields has been partially regraded, and the wading pool maintained during the hot weather being a source of much enjoyment to a very large number of children in the immediate vicinity.

At Somerville field an area laid out for playing girls' hockey has been used considerably. An appropriation has been made for the construction of one unit of a permanent field house; this building is to be a modern concrete structure equipped with shower baths, lavatories, dressing rooms, lockers, etc., and should be completed as soon as possible. Some progress has been made in the development of the large ungraded portion of the field, and an appropriation should be made annually for this purpose and when the entire area is

laid out and completed as originally designed, Somerville will have one of the finest recreation fields owned by any city. In the 1910 report a plan was published showing the proposed laying out.

The city has become so densely populated that portions of some of the larger park areas should be utilized for public recreation and physical training purposes; on several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained for the young men and women working in the factories daily.

On account of the war, the amount of money generally spent for flower beds, shrubs, etc., for ornamentation of the various city grounds has been used, for the past year, for raising various kinds of vegetables on certain parks. Large areas of sod land were plowed up, harrowed, fertilized and planted, the cultivation carried on during the season by the park employees and school pupils and a considerable amount of the crops, when harvested, were turned over to the poor department for distribution among the needy. The total cost for plowing, harrowing, etc., on the various park areas amounted to \$467.25.

Two hundred and seventy-three square yards of granolithic sidewalks have been constructed in sections of Powder House boulevard during the past year as petitioned for by the abutting property owners, a small area remaining for completion.

Paul Revere park area should be enlarged by acquiring additional land, constructing a street across from Main street to Broadway separating the city's park from the adjoining land, and thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

An old ledge property owned by the city, located on Clarendon Hill, near the Cambridge boundary line, might be developed in the future into a pretty pleasure park similar in nature to the Powder House park; also the Holland street ledge property, owned by the city and situated in West Somerville, could be developed by laying out a portion of the area for a connecting street with house lots on one side and the remainder for a children's playground.

With all these various parcels of land referred to, properly developed in the future as parks, playgrounds, and resting places, the city will be amply provided for in this line.

The Playgrounds Association has continued its good work in the city, and funds contributed by citizens and a sum appropriated by the city have been expended under the direction of the superintendent of schools; the greater part of the money being used for promoting war gardens throughout the city. In December, a permanent Recreation and Playgrounds Commission was established, composed of seven members, and in the future will advise, direct and control these expenditures.

The city's assessment for Metropolitan parks and boulevards for the year 1917 amounted to \$14,918.01 on construction account, \$28,202.18 being the proportional cost for maintaining the same; in addition to this the city's special assessment for the Charles River basin construction and maintenance amounted to \$7,335.15; for the improvement of Alewife brook and maintenance of same \$1,226.58 and for the maintenance of Wellington bridge across Mystic river, \$3,163.28. The total of these assessments amounts to \$54,844.20, being Somerville's proportional payment to the state on account of the Metropolitan park system for the year 1917.

The total assessment paid to the state for parks and boulevards amounts to \$647,685.90, January 1, 1918, and the length of state boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city and extending between Broadway and Mystic river, and one and three-tenths miles bordering Mystic river and Alewife brook located in the westerly part of the city.

PARKS AND PLAYGROUNDS.

Maintenance Account.

Statement of Expenses, 1917.

Playgrounds			Parks	
\$613	47	Broadway Park (15.9 acres)	.	\$1,209 67
		Broadway Parkway (2.0 acres)	.	110 65
300	74	Central Hill Park (13.1 acres)	.	3,652 16
1,064	11	Lincoln Park (8.3 acres)	.	1,147 42
151	16	Prospect Hill Park (2.6 acres)	.	1,108 93
81	66	Tufts Park (4.5 acres)	.	943 32
		Paul Revere Park (.02 acre)	.	13 50
		Belmont Street Park (0.4 acre)	.	315 25
		Powder House Boulevard (0.9 mile long)	.	987 46
		Powder House Square Parkway (0.2 acre)	.	45 27
		Cemetery, Somerville avenue (0.7 acre)	.	41 75
		Somerville Field at Alewife Brook (11.5 acres)	.	742 42
571	26	Playground, Cedar street and Broadway (4.3 acres)	.	48 18
602	58		.	

Playgrounds		Parks
\$220 67	Playground, Glen street and Oliver street (0.9 acre + 1.5 acre private land)	\$26 11
129 89	Playground, Kent street and Somerville avenue (0.8 acre)	44 98
4 00	Playground, Poplar street and Joy street (0.5 acre)	30 57
3 00	Playground, Beacon street near Washing- ton street (0.2 acre)	17 44
13 25	Playground, Webster avenue, near Cam- bridge line (0.2 acre)	
76 33	Playground, Mason street and Broadway (0.3 acre)	
84 28	Playground, Fellsway East (2.5 acres pri- vate land)	
129 45	Tufts College Land (Summer and Winter Playground, 4.8 acres)	
	Total expenditure, maintenance (75 acres) 65.5 acres city property + 8.8 acres private land, 0.7 acre cemetery and 0.9 mile boulevard, and 0.54 mile parkway roads	<hr/> \$10,485 08

CREDIT.

Playgrounds and Recreation		Parks
	Appropriation for Parks (\$10,000.00 and \$500.00)	\$10,500 00
\$4,000 00	Appropriation for Playgrounds	
89 53	Summer Playgrounds (service transfer)	
<hr/> \$4,089 53	Total credit	<hr/> \$10,500 00
	Balance unexpended (transferred to other accounts)	<hr/> \$14 92
\$43 68		

APPENDED TABLE.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,

ERNEST W. BAILEY,
City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF
PUBLIC AND PRIVATE STREETS.

Street	From	To	Public or Private.	Width in		Length.	
				Feet.	Public	Private	Public	Private
Abdell	Somerville ave	Southwesterly	Private.	25	.....	203	.....
Aberdeen road	Cedar st.	Highland ave.	Public.	40	449	.....	.....
Aberdeen rd. ex.	Angle	Westerly	Private.	30	.....	67	.....
Acadia pk.	Somerville ave	Northeasterly	Public.	40	256	.....	.....
Adams	Broadway	Medford st.	Public.	40	907	.....	.....
Adelaide rd	Somerville ave	Northeasterly	Private.	20	.....	138	.....
Adrian	Marion st.	Joseph st.	Public.	40	579	.....	.....
Albion pl.	Albion st.	Northeasterly	Private.	10	.....	166	.....
Albion ct.	Albion st.	Southeasterly	Private.	16	.....	116	.....
Albion	Central st.	Cedar st.	Public.	40	2,742	.....	.....
Albion	Broadway	Medford line	Private.	50	.....	100	.....
Albion ter.	Albion st.	Southwesterly	Public.	25	100	.....	.....
Aldersey	Walnut	Vinal ave.	Public.	40	508	.....	.....
Aldrich	Pearl	B. & L. R. R.	Public.	40	611	.....	.....
Alewife Br'k pky	Mystic Val. pky.	Cambridge line	Public.	.....	4,775	.....	.....
Alfred	Broadway	Medford line	Private.	50	.....	50	.....
Allen	Somerville ave	Charlestown st.	Private.	25	.....	680	.....
Allen ct	Park st.	Northwesterly	Private.	20	.....	150	.....
Alpine	Cedar st.	Southeasterly	Public.	30	667	.....	.....
Alpine	Alpine st.	Low'll st.	Public.	40	688	.....	.....
Alston	Cross st.	Shawmut st.	Public.	40-30	757	.....	.....
Ames	Bartlett st.	Robinson st.	Public.	40	580	.....	.....
Appleton	Willow ave.	Clifton st.	Public.	40	548	.....	.....
Appleton	Clifton st.	Liberty ave.	Public.	40	120	.....	.....
Arlington	Franklin st.	Lincoln st.	Public.	40	452	.....	.....
Arnold ave	Porter st.	Southeasterly	Private.	15	.....	127	.....
Arnold ct.	Beacon st.	Northeasterly	Private.	10	.....	115	.....
Arthur ct.	Linden st.	Easterly	Private.	about 10	.....	100	.....
Arthur	Broadway	Bonair st.	Public.	40	438	.....	.....
Ash ave.	Meacham st.	East Albion st.	Public.	40	554	.....	.....
Ash ave.	East Albion st.	Northeasterly	Private.	40	.....	151	.....
Ashland	Summer st.	Sartwell ave.	Public.	30	478	.....	.....
Atherton	Central st.	Spring st.	Public.	40	741	.....	.....
Auburn ave.	Cross st.	B. & L. R. R.	Public.	30	606	.....	.....
Austin	Broadway	Mystic ave.	Public.	40	716	.....	.....
Autumn	Broadway	Bonair st.	Public.	20	408	.....	.....
Avon	School st.	Central st.	Public.	40	1,360	.....	.....
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	.....	150	.....
Bailey	North st.	West Adams st.	Private	40	.....	420	.....
Banks	Elm st.	Summer st.	Public.	40	639	.....	.....
Bartlett	Vernon st.	Broadway	Public.	40	1,550	.....	.....
Barton	Broadway	Hamilton road	Public.	40	382	.....	.....
Bay State ave.	Broadway	Fosket st.	Public.	40	1,237	.....	.....
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	.....	200	.....
Beacon pl.	Beacon st.	Northeasterly	Private.	15	.....	200	.....
Beacon	Cambridge line	Somerville ave.	Public.	66	6,007	.....	.....
Beacon ter.	Somerville ave.,	Northeasterly	Private.	24	.....	110	.....
Bean ter.	Cutter st.	Southeasterly	Private.	16	.....	100	.....
Beckwith circle	Beacon st.	Southwesterly	Private.	28.5	.....	112	.....
Bedford	South st.	Cambridge line	Public.	30	165	.....	.....
Beech	Somerville ave.	Atherton st.	Public.	40	323	.....	.....
Belknap	Broadway	Hamilton road	Public.	40	449	.....	.....
Bellevue ter.	Albion st.	Northeasterly	Private.	20	.....	90	.....
Belmont	Somerville ave	Highland ave.	Public.	40	2,192	.....	.....
Belmont pl.	Belmont st.	Southeasterly	Public.	25	177	.....	.....
Belmont sq.	Belmont st.	Southeasterly	Public.	30	75	.....	.....
Belmont sq.	Belmont ter.	N. E. & S. W.	Public.	20	145	.....	.....
Belmont ter.	Belmont st.	Easterly	Private.	15	.....	137	.....
Benedict ave.	Broadway	Benedict st.	Private.	20	.....	200	.....
Benedict	Union st.	Austin st.	Public.	40	585	.....	.....
Bennett ct.	Bennett st.	Prospect st.	Private.	10	.....	100	.....
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	.....	400	.....
Benton road	Summer st.	Hudson st.	Public.	40	1,208	.....	.....
Berkeley	School st.	Central st.	Public.	40	1,360	.....	.....
Berwick	Hinckley st.	Northwesterly	Private.	20	.....	170	.....
Bigelow	Boston st.	Munroe st.	Public.	50	208	.....	.....
Billingham	Broadway	William st.	Public.	40	563	.....	.....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public		Length
			Width	in Feet	
			or	Public	Private
Bishop's pl.	Glen st.	Easterly	Private.	10	.... 75
Blakeley ave.	Fellsway east	Cross st.	Private.	40	.... 630
Bleachery ct.	Somerville ave.	Fitchburg R.R.	Private.	30	.... 450
Bolton	Oak st.	Houghton st.	Public.	40	.... 476
Bonair	Cross st.	Walnut st.	Public.	40	1,535
Bond	Broadway	Jaques st.	Public.	40	655
Bonner ave.	Washington st.	Columbus ave.	Public.	40	376
Boston ave.	Medford line	Mystic river	Public.	60	915
Boston ave.	Broadway	Medford line	Public.	50	80
Boston ave.	Broadway	Highland road	Public.	65	287
Boston ave.	Highland road	Prichard ave.	Public.	50	509
Boston ave.	Prichard ave.	East to angle in street	Private.	50	.... 146
Boston ave.	Angleinst.south.	Kidder ave.	Private.	40	.... 376
Boston ave.	Kidder ave.	Morrison ave.	Public.	40	649
Boston	Washington st.	Prosp't Hill av.	Public.	45	640
Boston	Prosp't Hill av.	Walnut st.	Public.	40	1,242
Bow	Union sq.	Wesley sq.	Public.	60	658
Bow	Wesley sq.	Somerville ave.	Public.	50	570
Bowdoin	Washington st.	Lincoln park	Public.	40	341
Bowers ave.	Cottage ave.	Elm st.	Private.	24	.... 288
Bow St. pl.	Bow st.	Northwesterly	Private.	40	.... 300
Bradford ave.	School st.	Southeasterly	Private.	40	.... 150
Bradley	Pearl st.	Walter st.	Public.	40	.... 762
Braemore road	Broadway	Medford line	Private.	40	.... 9
Brastow ave.	Lowell st.	Porter st.	Public.	40	686
Bristol road	Broadway	Medford line	Public.	40	146
Broadway	Charlest'n line	Cross st.	Public.	100	2,590
Broadway	Cross st.	Marshall st.	Pub.	100 to 200	2,060
Broadway	Marshall st.	Main st.	Public.	100	1,570
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030
Broadway	Top of hill	Albion st.	Public.	90	2,540
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030
Broadway	Willow ave.	Paulina st.	Public.	70	3,250
Broadway	Paulina st.	Arlington line	Public.	65-60-65	3,220
Broadway pl.	Broadway	Southwesterly	Private.	22	.... 250
Bromfield road	Warner st.	Dearborn road	Public.	40	1,262
Brook	Glen st.	Cross st.	Public.	40	504
Browning road	Sycamore st.	Central st.	Public.	40	679
Buckingham	Beacon st.	Dimick st.	Public.	40	292
Buena Vista rd.	Holland st.	Southwesterly	Private.	35	.... 276
Burnham	Broadway	Pow. House Bl.	Public.	40	543
Burnside ave.	Elm st.	Summer st.	Public.	40	720
Cady ave.	Simpson ave.	Northwesterly	Private.	40	.... 203
Caldwell ave.	Washington st.	Southerly	Private.	20	.... 210
Calvin	Beacon st.	Dimick st.	Public.	40	263
Calvin	Dimick st.	Washington st.	Public.	30	392
Cambria	Central st.	Benton road	Public.	40	488
Cameron ave.	Holland st.	Cambridge line	Public.	60	1,065
Campbell pk.	Meacham rd.	Kingston st.	Public.	40	399
Campbell Pk. pl.	Kingston st.	Arl'ton Br. R.R.	Private.	20	.... 84
Carlton	Somerville ave.	Lake st.	Public.	40	300
Carter terrace	Summer st.	Southwesterly	Public.	40	171
Carter terrace	Accepted part	Southwesterly	Private.	18+	.... 43
Carver	Porter st.	Northwesterly	Private.	40	.... 156
Cedar ave.	Cedar st.	Linden ave.	Private.	22	.... 290
Cedar ct.	Cedar st.	Southeasterly	Private.	15+	.... 70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20	.... 378
Cedar St. pl.	Cedar n Elm st.	Southeasterly	Private.	12+	.... 80+
Cedar	Elm st.	Broadway	Public.	40	4,137
Central road	Central st.	E'ly and N'ly	Public.	40	377
Central road	Central road	Sycamore st.	Public.	30 to 15	221
Central	Somerville ave.	Summer st.	Public.	33	1,043
Central	Summer st.	Medford st.	Public.	40	2,539
Central	Medford st.	Broadway	Public.	45	1,079
Centre	Albion st.	B. & L. R. R.	Private.	35	.... 200
Chandler	Park ave.	Broadway	Public.	40	1,232
Chapel	College ave.	Chandler st.	Public.	40	273
Chapel ct.	Sycamore st.	Northwesterly	Private.	12	.... 130
Charles	Washington st.	Southerly	Public.	30	166
Charlestown	Allen st.	Easterly	Private.	15	.... 400
Charnwood rd.	Willow ave.	Hancock st.	Public.	40	589

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public Private	
*Chelsea	Mystic ave.	Melrose st.	Private.	50	....	1,390
Cherry	Elm st.	Highland ave.	Public.	45	1,450	....
Cherry	Highland ave.	Northeasterly	Private.	45	....	110
Chester	Elm st.	Cambridge line	Public.	40	885	....
Chester ave.	Medford st.	Angle	Public.	about 22	220	....
Chester ave.	Angle	Cross st.	Public.	20	451	....
Chester pl.	Chester st.	Northwesterly	Private.	40	....	200
Chestnut	Poplar st.	Southeasterly	Public.	40	537	....
Chetwynd road	Curtis st.	West Adams st.	Private.	40	....	892
Church	Summer st.	Lake st.	Public.	40	964	....
City road	Broadway	Cedar st.	Private.	45	....	980
Claremon	Holland st.	Mead st.	Public.	40	560	....
Clarendon ave.	Broadway	Cambridge line	Public.	40	1,217	....
Clark	Newton st.	Lincoln pky.	Public.	35	552	....
Cleveland	Central st.	Harvard st.	Public.	40	459	....
Clifton	Appleton st.	Morrison ave.	Public.	40	200	....
Clifton	Morrison ave.	Arlngtn Br. RR	Private.	40	....	220
Clyde	Cedar st.	Murdock st.	Public.	30	664	....
College ave.	Davis sq.	Medford line	Public.	60	4,080	....
College Cir.	College av. around to	College av.	Private.	10 and 12	....	284
College Hill rd.	Conwell ave.	North st.	Private.	40	....	449
Columbia	Webster ave.	Cambridge line	Public.	40	816	....
Columbia ct.	Columbia st.	Webster ave.	Private.	9	....	150
Columbus ave.	Washington st.	Walnut st.	Public.	40	1,425	....
Concord ave.	Prospect st.	Wyatt st.	Public.	40	1,483	....
Concord ave.	Wyatt st.	Beacon st.	Public.	30	472	....
Congress pl.	Linwood st.	Somerville ave.	Public.	50	202	....
Conlon ct.	Columbia st.	Easterly	Private.	20	....	200
Connecticut av.	Mystic ave.	Penn. ave.	Public.	40	487	....
Conwell ave.	Curtis st.	North st.	Public.	40	1,346	....
Conwell	Highland ave.	Southwesterly	Public.	35	363	....
Cooney	Beacon st.	Line st.	Private.	30	....	220
Corinthian road	Broadway	Cady ave.	Private.	40	....	560
Cottage ave.	Russell st.	Chester st.	Public.	40	550	....
Cottage circle	Cottage ave.	Southwesterly	Private.	25	....	87
Cottage pl.	Washington st.	Northwesterly	Private.	about 11	....	150
Craigie	Somerville ave.	Summer st.	Public.	50	1,280	....
Craigie ter.	16 Craigie st.	Westerly	Private.	25	....	126
Crescent	Washington st.	Hadley	Private.	30	....	402
Crescent	Hadley st.	Pearl st.	Public.	30	174	....
Crocker	Highland ave.	Crown st.	Public.	40	528	....
Cross	Medford st.	Broadway	Public.	45	2,680	....
Cross st. (East)	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl.	Cross st.	Northwesterly	Private.	24	....	150
Crown	Porter st.	Lowell st.	Private.	30	....	700
*Cummings	Ellsley	Middlesex ave.	Private.	40	....	625
Curtis ave.	Curtis st.	Hillsdale road	Public.	40	654	....
Curtis	Broadway	Medford line	Public.	40	2,357	....
Cutler	Hinckley st.	Northwesterly	Private.	20	....	170
Cutter ave.	Summer st.	Highland ave.	Public.	40	480	....
Cutter pk.	Cutter ave.	Northwesterly	Private.	12	....	83
Cutter	Broadway	Webster st.	Public.	40	730	....
Cypress	Central st.	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	696	....
Dane	Somerville ave.	Washington st.	Public.	40	1,341	....
Dane ave.	Dane st.	Leland st.	Public.	30	569	....
Dante terrace	Craigie st.	Westerly	Private.	25	....	125
Dartmouth	Medford st.	Broadway	Public.	40	1,465	....
Day	Elm st.	Cambridge line	Public.	40	908	....
Dearborn road	Boston ave.	College ave.	Public.	50	469	....
Delaware	Aldrich st.	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st.	Wheatland st.	Public.	40	1,031	....
Dexter	Broadway	Medford line	Private.	50	....	25
Dickinson	Springfield st.	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave.	Private.	40	....	271
Dimick	Concord ave.	Calvin st.	Public.	40	957	....
Dix pl.	Linwood st.	Southwesterly	Private.	10	....	100
Douglas ave.	Edgar ave.	Southeasterly	Private.	30	....	162
Dover	Elm st.	Cambridge line	Public.	40	975	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street	From	To	Public or Private	Width in Feet		Length Public Private
				Public	Private	
Dow	Powder House	Ware st.	Private.	40	....	257
	Bd.					
Downer pl.	Downer st.	B. & L. R. R.	Private.	20	....	125
Downer	Nashua st.	Southeasterly	Private.	20	....	120
Dresden circle	Cutter ave.	Westerly	Private.	30	....	133
Durant	Washington st.	Southerly	Private.	20	....	200
Durham	Beacon st.	Hanson st.	Public.	40	423	....
Dynamo	Willow ave.	Whipple st.	Private.	30	....	255
Earle	South st.	Fitchburg R. R.	Private.	30	....	322
East Albion	Mt. Vernon	E. of Moreland	Private.	25	....	188
	ave.	st.				
East Albion	E. of Moreland	Medford line	Private.	40	....	490
	st.					
Eastman road	Highland ave.	Southwesterly	Public.	40	296	....
Edgar ave.	Main st.	Meacham st.	Private.	50	....	800
*Edgeworth	Mystic ave.	Melrose st.	Private.	50	....	1,380
Edmands	Broadway	near Bonair st.	Public.	40	376	....
Edmonton ave.	Cross st.	Fellsway east	Private.	40	....	630
Electric ave.	Mason st.	Curtis st.	Public.	40	1,374	....
Eliot	Vine st.	Park st.	Public.	40	291	....
Ellington road	Highland ave.	Northeasterly	Private.	35	....	120
Ellington road	West st.	Northwesterly	Private.	30	....	405
Ellsworth	Cross st.	Rush st.	Public.	40	230	....
Elm ct.	Villa ave.	Northwesterly	Private.	18	....	70
Elm pl.	Harvard st.	Westerly	Private.	30	....	190
Elm road	Elm st.	Northeasterly	Private.	25	....	183
Elm	Somerville ave.	Cherry st.	Public.	63	1,672	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Davis sq.	Public.	60	1,429	....
Elmwood	Holland st.	Cambridge line	Public.	40	1,057	....
Elmwood ter.	Elmwood st.	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Endicott ave.	Broadway	Woodstock st.	Private.	40	....	800
		(Ext'n)				
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis	Beacon st.	Cambridge line	Private.	30	....	150
Everett ave.	Cross st.	Dana st.	Public.	40	845	....
Everett	Webster ave.	Newton st.	Private.	30	....	350
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	22	....	179
Exchange pl.	Washington st.	Southerly	Private.	4.5	....	70
*Fairfax st.	North st.	Powder House	Private.	40	....	915
		Bld.				
Fairlee	Cherry st.	Northwesterly	Public.	30	144	....
Fairmount ave.	Curtis st.	Northwesterly	Public.	40	679	....
Fairview ter.	Sycamore st.	Southwesterly	Private.	15	....	173
Farragut ave.	Broadway	Woodstock st.	Public.	40	905	....
		(Ext'n)				
†Fellsway	Mystic ave.	Mystic river	Public.	70 to 130	2,500	....
†Fellsway east	Broadway	Mystic ave.	Public.	50	1,222	....
(Winthrop						
ave.)						
†Fellsway West	Broadway	Mystic ave.	Public.	50	1,324	....
(Chauncey						
ave.)						
Fenwick	Broadway	Jaques st.	Public.	40	601	....
Fisk ave.	Hinckley st.	Lowell st.	Public.	20	484	....
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225
Fitchburg	Linwood st.	B. & L. R. R.	Private.	40	....	400
Flint ave.	Flint st.	Northerly	Public.	40	202	....
Flint	Franklin st.	Aldrich st.	Public.	40	1,790	....
Florence	Washington st.	Perkins st.	Public.	40	1,304	....
Florence ter.	Jaques st.	Southwesterly	Private.	20	....	90
Forest	Beacon st.	Cambridge line	Public.	40	117	....
Forster	Sycamore st.	Central st.	Private.	30	....	430

*Proposed.

†Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Foskett	Willow ave.	Liberty ave.	Public.	40	668	....
Fountain ave.	Cross st.	Glen st.	Public.	30	578	....
Francesca ave.	College ave.	Liberty ave.	Public.	40	762	....
Francis	Porter st.	Conwell st.	Public.	30	180	....
Franklin ave.	Washington st.	Franklin st.	Public.	20	575	....
Franklin pl.	Franklin st.	Southeasterly	Private.	15	....	100
Franklin	Broadway	Washington st.	Public.	40+	2,316	....
Fremont ave.	Bowdoin st.	Lincoln pk.	Public.	30	232	....
Fremont	Main st.	Nr E. Albion st	Public.	40	1,112	....
Fremont	Nr E. Albion st	Mystic ave.	Private.	40	....	335
Garden ct.	Somerville ave.	Fitchburg R. R.	Private.	25	....	370
Garfield ave.	Broadway	Blakeley ave.	Public.	40	447	....
Garfield ave.	Blakeley ave.	Middlesex ave.	Private.	40	....	983
Garrison ave.	Broadway	Land of City of Camb.	Public.	40	460	....
Garrison ave.	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40	....	390
George	Broadway	Lincoln ave.	Public.	30	275	....
Gibbens	Central st.	Benton rd, w'ly	Public.	40	665	....
Giles pk.	Walnut st.	Northwesterly	Public.	32.71	167	....
Gill's ct.	Franklin st.	Westerly	Private.	10	....	100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	....
Gilman ter.	Pearl st.	Northeasterly	Public.	40	360	....
Gilson ter.	Linden ave.	Northwesterly	Private.	20	....	124
Glen	Broadway	Tufts st.	Public.	40	2,373	....
Glendale ave.	Cameron ave.	Yorktown st.	Public.	40	410	....
Glenwood road	Vernon st.	Broadway	Public.	40	1,524	....
Glover circle	Meacham road	Southeasterly	Private.	20	....	110
*Gordon st.	North st.	Pow. House Bd	Private.	40	....	1,245
Gorham	Holland st.	Howard st.	Public.	40	763	....
Gould ave.	Porter st.	Southeasterly	Private.	16	....	156
Gove ct.	Cedar st.	Southeasterly	Private.	18	....	144
Grand View av.	Walnut st.	Vinal ave.	Public.	40	542	....
Granite	Somerville ave.	Osgood st.	Public.	40	411	....
Grant	Broadway	Mystic ave.	Public.	40	1,405	....
Greene	Summer st.	Laurel st.	Public.	40	555	....
Greenville	Medford st.	Munroe st.	Public.	40	660	....
Greenville ter.	Greenville st.	Northerly	Private.	20	....	250
Greenwood ter.	Beacon st.	Northeasterly	Private.	25	....	165
Gritter way	College ave.	Bromfield rd.	Private.	4	....	160
Grove	Elm st.	Morrison ave.	Public.	40	996	....
Hadley ct.	Franklin st.	Westerly	Private.	16	....	95
Hall ave.	College ave.	Liberty ave.	Public.	40	926	....
Hall	Cedar st.	Cherry st.	Public.	30	456	....
Hamlet	Highland ave.	Boston st.	Public.	30	616	....
Hamilton road	Russell road	North st.	Public.	40	560	....
Hammond	Dickinson st.	Concord ave.	Public.	40	267	....
Hancock	Elm st.	Highland ave.	Public.	40	1,349	....
Hancock	Highland ave.	Lexington ave.	Public.	50	376	....
Hanson ave.	Hanson st.	Easterly	Private.	30	....	252
Hanson	Washington st.	Skehan st.	Public.	30	469	....
Hanson	Skehan st.	Vine st.	Public.	35	347	....
Hardan road	Pow. House Bd.	Ware st.	Private.	20 and 40	....	283
Harding	No. of Ward st.	Cambridge line	Public.	30	465	....
Harold	Dimick st.	Marion st.	Public.	40	316	....
Harold	Gordon st.	Medford line	Private.	40	....	48
Harrison	Ivaloo st.	Kent st.	Public.	40	644	....
Harrison	Elmwood st.	Southeasterly	Public.	40	....	210
Harvard pl.	Harvard st.	Westerly	Private.	35	....	200
Harvard	Summer st.	Beech st.	Public.	40	717	....
Hathorn	Broadway	Arlington st.	Public.	40	339	....
Hawkins	Somerville ave.	Washington st.	Public.	40	330	....
Hawthorne	Willow ave.	Cutter ave.	Public.	30	807	....
Hayden ter.	Linden ave.	Easterly	Private.	20	....	120
Heath	Temple st.	Bond st.	Public.	45	1,043	....
Heath	Bond st.	Moreland st.	Public.	40	754	....
Henderson	Richardson st.	B. & L. R. R.	Public.	20	569	....
Hennessey ct.	Medford st.	Fisk ave.	Private.	20	....	250
Henrietta ct.	Somerville ave.	Northerly	Private.	8 and 20	....	161
Henry ave.	Highland ave.	Lexington ave.	Public.	40	290	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public Private	
Herbert	Chester st.	Day st.	Public.	40	337	....
Hersey	Berkeley st.	Oxford st.	Private.	40	....	230
Higgins ct.	Mt. Vernon st.	Westerly	Private.	16	....	149
High	North st.	Pow. House Bd	Private.	40	....	678
Highland ave.	Medford st.	Davis sq.	Public.	60	9,135	....
Highland path, east	Morrison ave.	Arlington Br. R. R.	Private.	10	....	107
Highland path, west	Morrison ave.	Arlington Br. R. R.	Private.	10	....	108
†Highland rd.	Morrison ave.	Boston ave.	Pub. 30(70wide)	1,499	....	....
Hill	Broadway	Fairmount ave.	Public.	40	284	....
Hillsdale rd.	Conwell ave.	Sunset rd.	Private.	40	....	632
Hillside ave.	Pearl st.	Southwesterly	Private.	30	....	150
Hillside cir.	Craigie st.	Westerly	Private.	16	....	151
Hillside pk.	Walnut st.	Northwesterly	Public.	40	196	....
Hinckley	Broadway	B. & L. R. R.	Public. 30 and 35	1,081	....	....
Hodgdon pl.	Dane ave.	Northeasterly	Private. about 20	....	150	....
Holland	Davis sq.	Broadway	Public.	60	2,696	....
Holt's ave.	Oak st.	Southeasterly	Private.	10	....	100
Holyoke road	Elm st. around	to Elm st.	Public.	40	637	....
Homer sq.	Bonner ave.	Northwesterly	Public.	30+	200	....
Horace	South st.	Fitchburg R. R.	Public.	30	517	....
Houghton	Springfield st.	Cambridge line	Public.	40	653	....
Howard	Thorndike st.	Gorham street	Public.	40	431	....
Howe	Marshall st.	School st.	Public.	40	445	....
Hudson	Central st.	Cedar st.	Public.	40	2,760	....
Hunting	South st.	Cambridge line	Private.	30	....	125
Ibbetson	Somerville ave.	Lowell st.	Public.	40	802	....
Illinois ave.	Broadway	Penn. ave.	Public.	40	427	....
Indiana ave.	Broadway	Penn. ave.	Public.	40	384	....
Irving	Holland st.	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st.	Park st.	Public.	40	685	....
James	Pearl st.	Radcliffe road	Public.	40	320	....
Jaques	Fellsway west	Temple st.	Public.	40	1,182	....
Jaques	Temple st.	Bond st.	Public.	45	1,005	....
Jaques	Bond st.	Edgar ave.	Public.	40	395	....
Jasper pl.	Walnut st.	Easterly	Private.	20	....	80
Jasper	Pearl st.	Gilman st.	Public.	40	283	....
Jay	Holland st.	Howard st.	Public.	40	534	....
Jerome ct.	Sycamore st.	Jerome st.	Private.	10	....	150
Jerome	Montrose st.	Jerome ct.	Private.	20	....	125
Jerome	Lawrence rd.	Mystic Val. py	Private.	40	....	495
Joseph	Newton st.	Lincoln pky	Public.	40	458	....
Josephine ave.	Morrison ave.	Broadway	Public.	45	1,718	....
Joy	Washington st.	Poplar st.	Public.	30	1,121	....
Joy St. pl.	Joy st.	Southwesterly	Private.	30	....	175
Kenneson road	Broadway	Walnut road	Private.	30	....	338
Kensington av.	Broadway	Blakeley ave.	Public.	40	455	....
*Kensington av	Blakeley ave.	Middlesex ave.	Private.	40	....	1,150
Kent ct.	Kent st.	Northerly	Private. about 25	....	420	....
Kent	Somerville ave.	Fitchburg R. R.	Public.	40	292	....
Kent	Fitchburg R. R.	Beacon st.	Public.	25	386	....
Kenwood	College ave.	Billingham st.	Public.	40	322	....
Kidder ave.	College ave.	Boston ave.	Public.	40	2,554	....
Kilby	Somerville ave.	Southwesterly	Private.	20	....	180
Kilsyth road	Broadway	Medford line	Private.	40	....	5
Kimball	Lowell st.	Craigie st.	Private.	40	....	303
Kingman road	Washington st.	Fitchburg R. R.	Private.	25	....	400
Kingston	Meacham road	Cambridge line	Public.	40	647	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Tufts st.	N'E' line Est. 37	Public.	40	461	....
Knowlton	End of above	Oliver st.	Private.	40	....	464
Lake	Hawkins st.	Church st.	Public.	40	840	....
Lamson ct.	Linwood st.	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Public.	40	228	....
Langmaid ave.	Broadway	Heath st.	Public.	30	353	....
Latin way	Talbot ave.	Professors row	Private.	60	....	250

*Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private	
Laurel ave.	Laurel st.	Northwesterly	Private.	18	....	125	
Laurel	Somerville ave.	Summer st.	Public.	40	983	....
Lawrence road	Medford line	Mystic Val. py	Private.	40	....	585	
Lawson ter.	Putnam st.	Easterly	Private.	5	....	200	
Lee	Medford st.	Richdale ave.	Public.	40	385	....
Leland	Washington st.	Dane ave.	Public.	40	359	....
Leon	Concord ave.	Dickinson st.	Public.	40	155	....
Leonard pl.	Joy st.	Northeasterly	Private.	13+	....	98	
Leonard	Broadway	Pow. House Bd.	Public.	40	450	....
Lesley ave.	Highland ave.	Lexington ave.	Public.	40	333	....
Leslie pl.	Highland ave.	Northerly	Private.	12	....	75	
Lester ter.	Meacham road	Northwesterly	Private.	20	....	190	
Lewis	Magnus ave.	Easterly	Private.	40	....	416	
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	....
Lexington ave.	Hancock st.	Angle	Public.	45 to 40	147	....
Lexington ave.	Angle	Cedar st.	Public.	40	578	....
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	....
Liberty rd.	Morrison ave.	Liberty ave.	Private.	16	....	200	
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Public.	30	478	....
Lincoln pky	Washington st.	Perry st.	Public.	40	1,520	....
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	....	120	
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave.	Elm st.	Cedar ave.	Public.	45	1,413	....
Linden circle	Linden ave.	Southeasterly	Private.	24	....	120	
Linden pl.	Linden ave.	Northwesterly	Private.	20	....	160	
Linden	Somerville ave.	Charlestown st.	Public.	33	587	....
Line	Washington st.	Cambridge line	Public.	33	1,727	....
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200	
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	....	150	
Linwood	Somerville ave.	Washington st.	Public.	50	2,114	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340	
Loring	Somerville ave.	Osgood st.	Public.	40	413	....
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90	
Lowell	Broadway	Eléctric ave.	Public.	40	385	....
Lowden ave.	Broadway	Fosket st.	Public.	40	1,247	....
Lowell	Somerville ave.	Summer st.	Public.	36	1,259	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....
Lowell circle	Lowell st.	Westerly	Priv.	11 and 27.5	....	143	
Lowell ter.	Lowell st.	Northwesterly	Private.	20	....	150	
Madison	School st.	Sycamore st.	Public.	40	891	....
Magnus ave.	Washington st.	Southerly	Private.	40	....	509	
Main	Broadway	Medford line	Public.	50	966	....
Maine ave.	Mystic ave.	Penn. ave.	Public.	40	379	....
Maine ter.	Maine ave.	Southeasterly	Private.	32	....	205	
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360	
Mallet	Willow ave.	Liberty ave.	Public.	40	657	....
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	255	
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	....
Mansfield	Somerville ave.	Washington st.	Public.	40	735	....
Maple ave.	School st.	Southeasterly	Private.	40	....	300	
Maple pl.	Marshall st.	Maple ave.	Private.	5	....	125	
Maple	Poplar st.	Medford st.	Public.	30	699	....
Mardel circle	Spring st.	Northwesterly	Private.	8	....	140	
Marion	Concord ave.	Dimick st.	Public.	40	1,141	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason	Broadway	Pow. House Bd.	Public.	40	681	....
May pl.	Hawkins st.	Easterly	Private.	12	....	100	
McCarroll ct.	Clyde st.	Southwesterly	Private.	25	....	75	
McCulphe pl.	Medford st.	Easterly	Private.	10	....	110	
McGregor ave.	Wigglesworth st.	Walnut st.	Private.	13	....	302	
Meacham road	Dover st.	Cambridge line	Public.	40	1,060	....
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	....
Mead	Cameron ave.	Moore st.	Private.	40	....	340	
Medford	Cambridge line	Central st.	Public.	50	8,047	....
Medford	Central st.	Broadway	Public.	55	1,985	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	2,310	
Melvin	Broadway	Bonair st.	Public.	40	487	....
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	255	
Merriam	Washington st.	Somerville ave.	Public.	40	360	....

*Proposed.

†State Highway.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Merriam	Somerville ave.	Charlestown st.	Public.	30	510	....
Michigan ave.	Broadway	Penn. ave.	Public.	40	470	....
†Middlesex ave.	Mystic ave.	Fellsway	Public.	60	2,304	....
Milk pl.	Somerville ave.	southwesterly	Private.	about 30	....	100
Miller	Sacramento st.	Beacon st.	Private.	33	....	465
Milton	Orchard st.	Cambridge line	Public.	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave.	Broadway	Penn. ave.	Public.	40	525	....
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st.	Private.	35	....	200
Montgomery av.	Broadway	Wellington ave.	Public.	40	265	....
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Public.	40	1,471	....
Morgan	Beacon st.	Park st.	Public.	40	377	....
Morrison ave.	Cedar st.	Willow ave.	Public.	50	1,366	....
Morrison ave.	Willow ave.	College ave.	Public.	40	1,690	....
Morrison pl.	Morrison ave.	Northerly	Private.	20	....	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	....	175
Mortimer pl.	Marshall st.	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave.	Elm st.	Public.	40	377	....
Mountain ave.	Porter st.	nr Linden ave.	Public.	22	280	....
Mountain ave.	End acptd part	Linden ave.	Private.	22	....	30
Mousal pl.	No. Union st.	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	584	....
*Mt. Vernon av.	Meacham st.	Mystic ave.	Private.	50	....	764
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	473	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	590	....
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st.	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle pl.	Myrtle st.	Westerly	Private.	20+	....	120
Myrtle	Washington st.	Perkins st.	Public.	40	1,423	....
Mystic ave.	Charlest'n line	Union st.	Public.	60	378	....
†Mystic ave.	Union st.	Medford line	Public.	66	6,938	....
Mystic	Benedict st.	Mystic ave.	Public.	40	336	....
‡Mystic Valley Parkway	Medford line	Arlington line	Public.	60	2,530	....
Nashua	Richardson st.	B. & L. R. R.	Public.	35	637	....
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison ave.	Public.	40	200	....
Newberne	Morrison ave.	Arlington Br. R. R.	Private.	40	....	173
Newbury park	Newbury st.	Southeasterly	Private.	55	....	68
Newbury	Holland st.	Cambridge line	Public.	40	1,260	....
N. Hampshire ave.	Mystic ave.	Penn. ave.	Public.	40	406	....
Newman pl.	Cedar st.	Southeasterly	Private.	15	....	100
Newton pl.	Newton st.	Easterly	Private.	about 10	....	100
Newton	Prospect st.	Webster ave.	Public.	25	470	....
Newton	Webster ave.	Concord ave.	Public.	40+	637	....
Norfolk	Webster ave.	Cambridge line	Public.	40	283	....
North	Broadway	Medford line b. 17	Public.	40	1,961	....
North	Medford line b. 17	Medford line b. 18	Public.	37 to 42	649	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....
Oak Circle	Cambridge line	Northerly	Private.	30	....	35

*Proposed.

†State Highway Austin St. to Medford line.

‡Metropolitan Park Commission Beulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Oak	Prospect st.	Angle	Public.	40	665	....
Oak	Angle	Cambridge line	Public.	30	563	....
Oak St. pl.	Oak st.	Northerly	Private.	4	....	85
Oak ter.	Elm st.	Northeasterly	Private.	10+	....	90
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Peterson ter.	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,085	....
Orchard	Cambridge line	Meacham road	Public.	40	1,567	....
Osgood	Granite st.	E'ly & w'ly	Private.	40	....	450
Ossipee road	Mason st.	Curtis st.	Public.	40	1,375	....
Otis	Cross st.	Wigglesworth st	Public.	40	1,200	....
Oxford	School st.	Central st.	Public.	35	1,361	....
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Professors row	Public.	60	1,758	....
Packard ave.	Professors row	Medford line	Private.	60	....	240
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	College ave.	Wallace st.	Public.	40	467	....
Park pl.	Laurel st.	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly	Private.	20	....	120
Park	Somerville ave.	Beacon st.	Public.	50	1,238	....
Parkdale	Washington st.	Montvale st.	Private.	40	....	500
Parker pl.	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Public.	35	203	....
Partridge ave.	Vernon st.	Broadway	Public.	40	1,467	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Public.	40	769	....
Pearl	Crescent st.	Mt. Vernon st.	Public.	37	341	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	957	....
Pearl	Franklin st.	Cross st.	Public.	40	1,060	....
Pearl	Cross st.	Medford st.	Public.	50	2,447	....
Pearl St. pl.	Pearl st.	Northeasterly	Public.	20	166	....
Pearl ter.	Pearl st.	Northerly	Private.	23	....	161
Pearson ave.	Morrison ave.	Boston ave.	Public.	45	1,320	....
Pearson road	Broadway	Dearborn road	Public.	40	1,713	....
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Public.	40	430	....
Penn. ave.	Broadway	Wisconsin ave.	Public.	50	1,112	....
Penn. ave.	Wisconsin ave.	Cross st.	Private.	40	....	350
Perkins pl.	Perkins st.	Northeasterly	Private.	20	....	200
Perkins	Franklin st.	Charlest'n line	Public.	40	1,336	....
Perry	Washington st.	Lincoln pkway	Public.	40	606	....
Peterson ter.	Porter st.	Olive ave.	Private.	7.5	....	155
Philips pl.	Spring st.	Westerly	Private.	15+	....	100
Pinckney pl.	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,186	....
Piper ave.	Cedar st.	Westerly	Private.	20	....	461
Pitman	Beech st.	Spring st.	Private.	30	....	380
Pitman	Spring st.	Belmont st.	Private.	26	....	390
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	543	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R.	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220
Porter	Elm st.	Mountain ave.	Public.	45	1,622	....
Porter	Mountain avé.	Highland ave.	Public.	40	415	....
Powder house boulevard	Powder house square	Alewife Brook Parkway	Public.	80	4,560	....
Pow. house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prentiss	Beacon st.	Cambridge line	Private.	35	....	150
Prescott	Summer st.	Highland ave.	Public.	50	1,110	....
Preston road	School st.	Summer st.	Public.	40	839	....
Prichard ave.	Morrison ave.	Boston ave.	Public.	40	1,191	....
Princeton	Alpine st.	Lowell st.	Public.	40	648	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Proposed	Fellsway	Middlesex ave.	Private.	40	....	195
Proposed	Fellsway	Middlesex ave.	Private.	40	....	315
Proposed	Fellsway	Middlesex ave.	Private.	40	....	340
Prospect	Washington st.	Cambridge line	Public.	50	2,071	....
Prospect Hill av.	Medford st.	Munroe st.	Public.	40	597	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Prospect Hill pky	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,262	....
Quincy	Somerville ave.	Summer st.	Public.	40	781	....
Radcliffe road	Walnut st.	Bradley st.	Public.	35	392	....
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	....
Randolph pl.	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record ct.	Broadway	Southwesterly	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly	Private.	20	....	105
Remick ct.	Cutter st.	Southeasterly	Private.	10	....	100
Rhode Is. ave.	Mystic ave.	Penn. ave.	Public.	40	460	....
Richardson	Lowell st.	Hinckley st.	Public.	35	467	....
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Roberts	Hinckley st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Boston ave.	Public.	45	1,682	....
Roland	Waverly st.	Boston line	Private.	40	....	100
Rose	Washington st.	Lewis st.	Private.	40	....	450
Roseland	Beacon st.	Cambridge line	Public.	40	121	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell rd.	Broadway	N. line Hamil- ton rd.	Public.	40	559	....
Russell rd.	N. Line Ham- ilton rd.	Northerly	Private.	40	....	75
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line	Public.	40	154	....
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st.	Northwesterly	Private.	30	....	176
Sargent ave.	Broadway	Walnut st.	Public.	40	1,075	....
Sartwell ave.	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,901	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly	Private.	12	....	120
Seven Pines av.	Cameron ave.	Cambridge line	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut	Washington st.	Cross st.	Public.	40	575	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway	Holland st.	Public.	40	1,018	....
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave.	Pearl st. around	to Pearl st.	Private.	40	....	540
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200
Snow ter.	Jaques st.	Southwesterly	Private.	16	....	120
Somerville ave.	E. Camb. line.	Union sq.	Public.	75	4,325	....
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	....
South	Medford st.	Water st.	Public.	30	989	....
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200
Spring	Somerville ave.	Summer st.	Public.	40	1,220	....
Springfield	Concord ave.	Cambridge line	Public.	40	788	....
Spring Hill ter.	Highland ave.	Belmont st.	Private.	20	....	670
Stanford ter.	Beacon st.	Northeasterly	Private.	20	....	200
Steeves circle	Cherry st.	Easterly	Private.	15	....	120
*Sterling st.	North st.	Pow. House Bd.	Private.	40	....	800
Stickney ave.	Marshall st.	School st.	Public.	40	458	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	....
St. James ave. ext.	Summer st.	Northeasterly	Public.	30	125	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	....
Stone ave.	Columbus ave.	Prospt Hill py.	Public.	38	107	....
Stone pl.	Stone ave.	Southeasterly	Public.	30	142	....
Strathmore rd.	Broadway	Medford line	Private.	40	....	15
Summer	Bow st.	Elm st.	Public.	45	7,900	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	532	....
Summit	College ave.	Billingham st.	Public.	40	262	....
Sumner	Hinckley st.	Northwesterly	Private.	20	....	175
Sunnyside ave.	Walnut st.	Wigglesworth st	Public.	25 to 35	306	....
Sunset rd.	Curtis st.	Hillsdale road	Private.	40	....	658
Sycamore	Broadway	Medford st.	Public.	45	1,275	....
Sycamore	Medford st.	B. & L. R. R.	Public.	40	667	....
Sycamore	B. & L. R. R.	Highland ave.	Public.	35	722	....
Sydney	Grant st.	Temple st.	Public.	40	679	....
Talbot ave.	Packard ave.	College ave.	Private.	50	....	1,409
*Tannery Ex.	Cambridge line	Woodstock st. (Ext'n)	Private.	40	....	160
Taunton	Wyatt. st.	East'y to angle	Private.	30	....	170
Taunton	Angle	Marion st.	Private.	20	....	95
Taylor pl.	Somerville ave.	Southerly	Private.	15	....	200
Taylor	Mystic ave.	Sydney st.	Public.	40	309	....
Teele ave.	Packard ave.	Curtis st.	Public.	40	685	....
Temple	Broadway	Mystic ave.	Public.	66	1,637	....
Tenney ct.	Mystic ave.	Northeasterly	Private.	30	....	400
Tennyson	Forster st.	Pembroke st.	Public.	40	922	....
Thorndike	Holland st.	Arlington Br.				
Thorndike	Arlington Br.	R. R.	Public.	40	465	....
Thorpe	R. R.	Kingston st	Public.	40	115	....
Thurston	Highland ave.	Southwesterly	Public.	30	468	....
Thurston	Broadway	Richdale ave.	Public.	40	1,660	....
Timmins pl.	Dane st.	Westerly	Private.	3.5	....	97
Tower ct.	Tyler st.	Northeasterly	Private.	25	....	150
Tower	Crown st.	Highland ave.	Public.	40	559	....
Tremont pl.	Tremont st.	Southeasterly	Private.	about 10	....	75
Tremont	Webster ave.	Cambridge line	Public.	40	589	....
Trull	Vernon st.	Medford st.	Public.	40	1,050	....
Trull lane	Highland ave.	Oxford st.	Private.	15	....	200
Tufts parkway	College ave.	College ave.	Public.	22	900	....
Tufts	Washington st.	Cross st.	Public.	40	982	....
Turner ct.	Franklin st.	Westerly	Private.	20	....	150
Tyler	Vine st.	Dane st.	Public.	40	404	....
Union	Broadway	Mystic ave.	Public.	40	345	....
Union pl.	Linwood st.	Southwesterly	Private.	10	....	100
Upland Park	Main st.	Southwesterly	Private.	20	....	175
Vermont ave.	Mystic ave.	Penn. ave.	Public.	40	433	....
Vernon	Central st.	Glenwood road	Public.	40	764	....
Vernon	Glenwood road.	Partridge ave.	Public.	40 to 30	190	....
Vernon	Partridge ave.	Lowell st.	Public.	30	434	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....
Villa ave.	Winslow ave.	Arlington Br. R. R.	Private.	35	....	200
Village	Dane st.	Vine st.	Private.	25	....	370
Vinal ave.	Summer st.	Highland ave.	Public.	45	1,425	....
Vinal	Richardson st.	Northeasterly	Private.	20	....	200
Vine ct.	Vine st.	Northwesterly	Private.	25	....	140
Vine	Somerville ave.	Fitchburg R. R.	Public.	40	540	....
Vine	Fitchburg R. R.	Hanson st.	Private.	40	....	222
Vine	Hanson st.	Beacon st.	Public.	30	662	....
Virginia	Aldrich st.	Jasper st.	Public.	40	405	....
Wade ct.	Cedar st.	Westerly	Private.	20	....	180
Waldo ave.	Beacon st.	Dimick st.	Public.	40	277	....
Waldo	Highland ave.	Hudson st.	Public.	40	287	....
Walker	Broadway	Leonard st.	Public.	40	713	....
Wallace	Holland st.	Broadway	Public.	40	1,342	....
Walnut	Bow st.	Broadway	Public.	40	3,948	....
Walnut road	Walnut st.	Kenneson road	Public.	40	270	....
Walter terrace	Walter st.	Southwesterly	Public.	40	222	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Walter	Walnut st.	about 100 ft N. of Bradley st.	Public.	40	548	....
Ward	Medford st.	Harding st.	Public.	30	433	....
Ware	Curtis st.	Russell rd.	Public.	40	749	....
Warner	Pow. House sq.	Medford line	Public.	60	500	....
Warren ave.	Union sq.	Columbus ave.	Public.	40	663	....
Warren	Medford st.	Cambridge line	Public.	30 to 40	109	....
Warwick place	Warwick st.	Northeasterly	Private.	15	....	150
Warwick	Cedar st.	Warwick pl.	Public.	40	665	....
Washington av.	Washington st.	Northerly	Private.	18	....	350
Washington pl.	Washington st.	Southerly	Private.	about 7.5	....	114
Washington	Charlest'n line	Franklin ave.	Public.	75	1,060	....
Washington	Franklin ave.	Fitchburg R. R.	Public.	60 to 100	3,977	....
Washington	Fitchburg R. R.	Cambridge line	Public.	60	2,344	....
Water	South st.	Northerly	Public.	25	366	....
Waterhouse	Broadway	Cambridge line	Public.	40	987	....
Watson	Broadway	Fairmount ave.	Private.	40	....	236
Waverly	Washington st.	Roland st.	Private.	35	....	200
Webster ave.	Union sq.	Cambridge line	Public.	49.5	1,955	....
Webster	Franklin st.	Cross st.	Public.	40	1,034	....
Wellington ave.	Walnut st.	Montgomery av	Public.	40	215	....
Wellington ave.	Montgomery av.	Easterly	Private.	40	....	85
Wesley pk.	Wesley sq.	Northeasterly	Public.	40	405	....
Wesley	Pearl st.	Otis st.	Public.	40	515	....
West	Hawthorne st.	Highland ave.	Public.	30	192	....
West	Highland ave.	Arlington Br. R. R.	Private.	30	....	266
West Adams	Conwell ave.	Medford line	Public.	40	710	....
Westminster	Broadway	Electric ave.	Public.	40	376	....
Weston ave.	Clarendon ave.	Broadway	Private.	40	....	525
West Quincy	Bailey st.	Medford line	Private.	40	....	291
Westwood road	Central st.	Benton road	Public.	40	489	....
Wheatland	Broadway	Mystic ave.	Public.	40	1,364	....
Wheeler	Pinckney st.	Mt. Vernon st.	Public.	40	269	....
Whipple	Highland ave.	Arlington Br. R. R.	Private.	30	....	318
†White	Elm st.	Cambridge line	Public.	..	307	....
White St. pl.	White st.	Southeasterly	Private.	20	....	200
Whitfield road	Packard ave.	Curtis st.	Public.	40	687	....
Whitman	Mason st.	Packard ave.	Public.	..	632	....
Wigglesworth	Bonair st.	Pearl st.	Public.	40	744	....
William	Chandler st.	College ave.	Public.	40	381	....
William	Broadway	Medford line	Private.	50	....	50
Williams ct.	Porter st.	Northwesterly	Private.	30	....	154
Willoughby	Central st.	Sycamore st.	Public.	40	427	....
Willow ave.	Elm st.	Broadway	Public.	50	3,534	....
Willow pl.	Cambridge line	South st.	Public.	25	125	....
Wilson ave.	Broadway	B. & L. R. R.	Public.	20	307	....
Wilton	Lowell st.	Hinckley st.	Public.	35	470	....
Winchester	Broadway	Medford line	Private.	40	....	65
Windom	Elm st.	Summer st.	Public.	40	300	....
Windsor road	Willow ave.	Hancock st.	Public.	40	575	....
Windsor st. Ex.	Windsor st., Camb.	Fitchburg R. R.	Private.	20	....	530
Winslow ave.	College ave.	Clifton st.	Public.	40	1,123	....
Winter	College ave.	Holland st.	Public.	30	402	....
Winter Hill cir.	Broadway	Northeasterly	Private.	25	....	177
Winthrop ave. (Extension)	Mystic ave.	Middlesex ave.	Private.	40	....	583
Wisconsin ave.	Broadway	Penn. ave.	Public.	50	499	....
Woodbine	Centre st.	Lowell st.	Private.	30	....	600
*Woods ave.	North st.	Pow. House Bd.	Private.	40	....	1,135
Woodstock	Victoria st.	Alewife brook	Public.	40 to 32	403	....
*Woodstock (Extension)	Victoria st.	Tannery st. (Ext'n.)	Private.	40	....	920
Wyatt circle	Wyatt st. around	Wyatt st.	Private.	20	....	315
Wyatt	Concord ave.	Lincoln pkway	Public	40	496	....
Yorktown	Cambridge line	N. E. line	Public.	40	294	....
Yorktown	N. E. line	Malvern ave.	Public.	40	....	100
Yorktown	Malvern ave.	Northerly	Private.	40	....	100

*Proposed.

†Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public or Private	Width in Feet		Length	
				Public	Private	Public	Private
Court	39 Adams st.	Southeasterly	Private.	8	....	90	
Court	Albion st.	Central st.	Private.	12	....	216	
Court	11 Albion st.	Northeasterly	Private.	9	....	178	
Court	21 Albion st.	Northeasterly	Private.	10	....	100	
Court	292 Broadway	Southwesterly	Private.	15	....	90	
Court	612 Broadway	Southwesterly	Private.	20	....	188	
Court	Buena Vista rd.	Easterly	Private.	15	....	145	
Court	Cambria st.	Northerly	Private.	9	....	59	
Court	12 Carlton st.	Southeasterly	Private.	25	....	75	
Court	112 Central st.	Northwesterly	Private.	10	....	168	
Court	113 Central st.	Southeasterly	Private.	20	....	150	
Court	227 Columbia st.	Northwesterly	Private.	10	....	117	
Court	Conlon ct.	Windsor st. ex.	Private.	20	....	240	
Court	36 Craigie st.	Westerly	Private.	25	....	126	
Court	59 Craigie st.	Easterly	Private.	23.63	....	129	
Court	58 Dane st.	Easterly	Private.	10	....	70	
Court	20 Dimick st.	Southwesterly	Private.	39.25	....	136	
Court	91 Franklin st.	Westerly	Private.	12	....	171	
Court	66 Lowell st.	Westerly	Private.	25	....	101	
Court	78 Lowell st.	Westerly	Private.	25	....	101	
Court	101 Medford st.	Easterly	Private.	8	....	75	
Court	Sacramento st.	Southeasterly	Private.	25	....	318	
Court	10 Stone ave.	Northwesterly	Private.	20	....	113	
Court	Windsor st. ex.	E'y and W'y	Private.	20	....	370	
	Total					442,710	89,489

Public, 83.846 miles [includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private 16.949 miles.

Total length of streets in the city, 100.795 miles.

REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER,
CITY HALL, Somerville, January 1, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I most respectfully submit the forty-second annual report, containing a brief summary of the principal work performed by the highway department, by day labor and contract during the year 1917, with recommendations for necessary additions for the coming year.

This department has charge of the construction, alteration, repair, maintenance and management of ways, streets, sidewalks and bridges; the setting out and care of shade trees, the suppression of gypsy and brown-tail moths and elm-leaf beetles; the watering and oiling of streets.

From developments so far, it seems inevitable that the present means of transportation will become utterly inadequate and must be supplemented by motor transportation over the main streets, and every effort must be taken to put these arteries in condition to take and to withstand this traffic. I earnestly recommend a sum sufficient to keep roads that have been constructed in repair, and reconstruct old worn out roads.

I think the city has started on the right idea in regard to our old granite paving on a gravel base. Washington street from Union square to Medford street: the granite paving was removed and recut, some of the blocks making as many as three four-inch blocks; these were laid on a concrete base, sand and cement cushion, then grouted with Portland cement. The contract was let to William J. Sullivan, a Somerville contractor, at \$2.52 per square yard.

HIGHWAY MAINTENANCE.

Snow and Ice.

I always feel that the money expended for the removal of snow and ice is wasted, but the streets and sidewalks must be kept in a safe condition for travel.

\$5,258.58 was expended for the care of ice and snow. 1,181 loads of snow and ice were removed. 821 cubic yards of fine cinders, 22½ cubic yards sand, and 3,202 pounds dust were used in caring for icy sidewalks and crossings.

Underground Wires.

Permission was issued to the Boston Elevated Railway Co. to construct conduits on Webster avenue, Prospect street,

Somerville avenue, Washington street, Hawkins street, Somerville avenue, to their plant on School street, then continuing on through School street to Broadway.

The New England Telephone and Telegraph Co., Edison Electric Illuminating Co., gas companies and city departments, laid their wires and pipes underground and made their connections, as far as possible, on all streets before the streets were constructed.

Crushed Stone.

The William J. McCarthy Co. furnished 102 tons of local crushed rock at \$1.00 per ton, at their crusher, and 9,289 tons at \$1.40 on line of work; Coleman Brothers, 3,227 tons trap rock at \$1.55 per ton and 1,021 tons of pea stone at \$1.60 per ton, all delivered on line of work.

The city crusher was in operation a few days crushing old cobbles and stones that had accumulated at the city yard, vacant lots and at the ledge.

The crusher has been abandoned and sold, and I recommend the purchase of a portable crushing plant, electric power, to be erected at the city yard.

Bridges.

The bridges are in good condition. It is my intention, the coming year, to paint the fences and guard rails on bridges that come under my supervision.

Steam Rollers.

The steam rollers are busy on the streets from the time they leave the city yard in the spring, till they return in the fall.

I most respectfully recommend the purchase of a new fifteen ton roller with scarifier attachment, to take the place of the No. 2 roller which has been in service many years and needs extensive repairs.

No. 1 roller worked $151\frac{3}{8}$ days.

No. 2 roller worked $143\frac{1}{2}$ days.

No. 4 roller worked $141\frac{1}{2}$ days.

\$61,958.18 was expended for Highway Maintenance.

Sidewalks Maintenance.

The more permanent sidewalks constructed, the less it costs for maintenance. The police keep a careful watch for defects and notify the station; these reports are telephoned to the stable and are attended to immediately.

3,905 linear feet of edgestones were reset, 2,692 square yards of brick sidewalks were relaid.

\$5,905.51 was expended for Sidewalks Maintenance.

Street Sprinkling.

The contract with the American Car Sprinkler Co. was renewed at \$750 per month plus mileage. The car flushed the squares in the early morning, then sprinkled all the main streets during the day, making twelve hours per day, thus doing away with several horse drawn sprinkling carts. All the macadam streets were oiled or tarviated.

Two of the old wooden tank horse drawn oil distributors have been refitted with steel tanks, so that hot road material as well as non-asphaltic oils can be distributed from these tanks.

A storage tank should be erected in the city yard for road oil.

The storekeepers in the several squares were pleased at the manner in which the dust was laid during the freezing weather by the use of calcium chloride.

Dust layers used during the year:—

- 14,000 pounds of Calcium Chloride.
- 46,398 gallons of Alden Spears' "Tasscoil."
- 15,910 gallons of Headley's No. 13.
- 8,073 gallons of Headley's No. 12.
- 31,959 gallons of Emerald Oil.
- 17,309 gallons of Besco Oil.
- 26,681 gallons of Oilite.
- 12,622 gallons of Sawyerline Oil.
- 33,000 gallons of Water Gas Tar.
- 80,981 gallons of Tarvia "B" (Barrett's).
- 6,000 gallons of Tarbinder (Independent).

\$35,937.41 was expended for Street Sprinkling.

Street Cleaning.

Clean streets are a good advertisement for a city.

To give our city the benefit of good advertisement, to attract the right kind of permanent residents, to favorably impress the business man on the lookout for a manufacturing site, to include in our population families of refinement, what better advertisement can we have, what greater inducement can we offer than clean streets?

This department has done its utmost to keep the streets clean and keep within the appropriation.

It is the habit of many storekeepers, just before closing time, to sweep their rubbish into the street, too late for the push-cart man to clean up, therefore giving the streets and squares, especially, an untidy appearance. I have overcome this nuisance by having a night cleaning patrol which has proven satisfactory.

To get a paved street thoroughly clean, it must be washed, and the car flusher has done good work in flushing the squares and paved streets early every morning.

9,431 loads of street sweepings were removed.

\$25,788.81 was expended for Street Cleaning.

Suppression of Moths.

Both public and private trees were cared for in regard to moths.

7,250 street trees were inspected and cared for.

11,970 private trees were inspected and cared for.

2,985 brown tail nests were gathered and destroyed.

22,845 gypsy nests were painted with creosote.

8,320 trees were sprayed by the gasoline spraying machine to exterminate the elm-leaf beetle.

\$3,354.09 was expended for the Suppression of Moths.

Shade Trees.

I realize, owing to the condition of the times, that asking for an appropriation for new shade trees would seem unnecessary, nevertheless new trees should be set out to take the places of dead trees removed, thus beautifying the appearance of the streets.

72 trees were set out.

84 trees were cut down.

196 trees were trimmed.

357 tree-guards and supports installed.

\$3,121.94 was expended for the Care of Trees.

Highways Construction — New Streets.

New streets, with the exception of one, were constructed by contract.

Eight new streets, a length of 3,988 feet, were constructed by contract. The city furnished all the bituminous binder for these streets, also edgestone.

The average cost of new streets by contract was \$5.67 per linear foot.

New street construction consists of:—Edgestone, concrete gutters and bituminous macadam. All the work of regrading sidewalks is also charged to this account.

Ten streets were accepted by the Mayor and Aldermen of 1917.

(For details see City Engineer's report of 1917).

Streets Constructed in 1917.

STREET.	FROM	TO	MATERIAL.	LENGTH IN FEET.	COST.
Curtis avenue.....	Curtis street	Hillsdale road	Bituminous macadam.....	654	\$3,976.57
Heath street.....	Bond street.....	Edgar avenue.....	"	390	2,044.13
Indiana avenue.....	Broadway	Pennsylvania avenue.....	"	384	2,200.77
Leonard street.....	Broadway	P. H. Boulevard.....	"	450	2,727.51
Vermont avenue.....	Mystic avenue.....	Pennsylvania avenue.....	"	433	2,503.83
*Waldo avenue	Dinick street.....	Beacon street.....	"	277	2,124.05
West Adams street.....	Conwell avenue.....	Medford line.....	"	710	4,128.03
Whitfield road.....	Packard avenue.....	Curtis street	"	687	4,664.33
†Mountain avenue	Porter street.....	near Linden avenue.....	"	280	913.13
‡Ware street.....	Curtis street	Russell road	"	749	1,400.00
Recording and Advertising new streets					130.00
				5,014	\$26,812.35
					96.20
					\$26,716.15

Length in feet and cost..... 5,014
 Above amount includes \$96.20, paid in 1916, for advertising.....

* Waldo avenue was constructed by the city, the others by contract.
 † Mountain avenue will be completed in 1918.
 ‡ The final payment was made on Ware street in 1917.

Streets Macadamized in 1917.

STREET.	FROM	To	MATERIAL.	LENGTH IN FEET.	COST.
Aldersey street.....	at Vinal avenue.....	.....	Bituminous macadam.....	25	\$14.37
Benton road.....	entire length.....	.....	"	285	664.33
Burnside avenue.....	entire length.....	.....	"	720	1,885.96
Cedar street.....	Highland avenue.....	Broadway.....	"	2,290	7,033.10
Cedar street.....	Elm street.....	Summer street.....	"	970	3,144.37
Concord avenue.....	Prospect street.....	Beacon street.....	"	1,475	3,687.45
Dinnick street.....	entire length.....	.....	"	957	2,720.68
Florence street.....	Pearl street.....	Washington street.....	"	825	2,563.54
Glen street.....	Tufts street.....	Oliver street.....	"	690	2,202.81
Glen street.....	Broadway.....	Pearl street.....	"	1,045	2,619.22
Hall avenue.....	entire length.....	.....	"	926	1,919.79
Hancock street.....	Summer street.....	Highland avenue.....	"	520	1,239.35
Knapp street.....	entire length.....	.....	"	379	1,082.40
Medford street.....	Highland avenue.....	R. R. So. Division.....	"	1,185	4,325.14
Monmouth street.....	Central avenue.....	Westerly.....	"	267	717.92
North street.....	Conwell avenue.....	Fairfax street.....	"	840	1,948.91
Otis street.....	entire length.....	.....	"	1,200	3,262.21
Pleasant avenue.....	entire length.....	.....	"	543	1,162.16
Powder House Square.....	(special wearing surface)	.....	Taric pavement.....	995	5,311.61
Rogers avenue.....	entire length.....	.....	Bituminous macadam.....	1,682	5,326.29
Russell street.....	entire length.....	.....	"	700	1,764.56
Summer street.....	Willow avenue.....	Cutter square.....	"	860	2,569.49
Sycamore street.....	Medford street.....	Broadway.....	"	1,275	3,551.80
Temple street.....	Derby street.....	Mystic avenue.....	"	635	3,815.28

Carried forward..... 21,289 \$64,532.74

Highways Construction — Permanent Pavement.

Permanent pavements were laid by the following named contractors:—

James H. Fannon, Somerville, Mass.

“Vitrified” brick on a concrete base.

The Hassam Paving Company, Worcester, Mass.

Re-cut granite blocks grouted on a concrete base.

Wm. J. Sullivan, Somerville, Mass.

Re-cut granite blocks grouted on a concrete base.

Independent Coal Tar Co., Boston, Mass.

“Tarie Pavement” on a concrete base.

The City laid, on a concrete base, “Shawmut” brick, granite block and bituminous macadam.

Brick paving on a concrete base was laid at an average cost of \$2.97 per square yard complete, where work was performed by contract, and bricks furnished by the city.

“Tarie Pavement” on a concrete base was laid at an average cost of \$2.05 per square yard complete, where work was performed by contract.

Re-cut granite blocks grouted on a concrete base were laid at an average cost of \$2.35 per square yard where blocks were furnished by the city and cutting done by the contractor, on an uncompleted contract of 1916, and same type of work under contract of 1917, at an average cost of \$2.52 per square yard.

“Bicomac Pavement” was completed contract of 1916, at a price of \$1.52 per square yard, where all excavation was performed by the city. Contract was let to the Simpson Brothers Corporation.

On all narrow streets where there are car tracks, paving should be done with granite paving blocks grouted on a concrete base. With a few more years of permanent paving our main streets will be in a first class condition.

Streets paved with granite blocks	5.01 miles
Streets paved with concrete	1.42 miles
Streets paved with asphaltic top	2.59 miles
Streets paved with brick	1.29 miles
Streets paved with Bicomac	0.77 miles
Streets paved with bitulithic	0.06 miles
Streets paved with concrete base and bituminous top	5.98 miles

Total length of Permanent Pavement 17.12 miles

Payments on 1916 contracts were made on the following streets:—

Meacham road.

Union square.

Washington street.

Bow and Summer streets.

Pearl street.

\$58,411.16 was expended for Permanent Pavement.

Highways Construction — Permanent Pavement.

STREET.	MATERIAL.	FROM	TO	SQUARE YARDS.
Union square and parts of adjoining streets.....	Granite paving blocks grouted on a concrete base.....			2,985.5
Broadway	Machine mixed bituminous top on a concrete base.....	P. H. square	Teele square.....	4,014.4
Concord sq. and part of Newton street.....	Paving brick grouted on a concrete base.....			1,658.3
Harding street.....	Granite paving blocks grouted on a concrete base.....	Northerly side.....		234.6
Walnut street.....	Granite paving blocks grouted on a concrete base.....	Highland avenue.....	Pearl street	2,152.5
Washington street.....	Recut granite paving blocks grouted on a concrete base.....	Union square	Medford street.....	5,082.0
Willow place	Granite paving blocks grouted on a concrete base.....	Conwell avenue.....	City line.....	248.8
North street	Concrete gutter	In front of city.....	Ledge property	187.7
Clarendon avenue.....	Concrete gutter	Heath street.....	Jacques street.....	120.0
Bond street.....	Concrete gutter	Bond street	Fenwick street.....	107.2
Jacques street.....	Concrete gutter	Brick paving.....	Westerly	32.8
Meacham road.....	Paving brick grouted on a concrete base.....			151.0
	Total.....			16,974.8

Sidewalks Construction.

I most respectfully recommend that the uncompleted portions of sidewalks on the main streets be completed.

Miles of edgestones, granolithic, brick and gravel sidewalks in the city:—

Length of edgestones	142.998 miles
Gravel sidewalks	24.616 miles
Brick sidewalks	71.629 miles
Granolithic sidewalks	50.598 miles

The contract for granolithic sidewalks was let to Denis I. Crimmings, of Somerville, who furnished all material and did the excavation at \$1.50 per square yard.

The city laid granolithic on Jaques street from Bond street to Fenwick street, and substituted granolithic for brick on Washington street from Webster avenue to Kingman road, and on Somerville avenue, Union square and Washington street in front of the property of St. Thomas' Episcopal Church, Somerville Union Hall Company, and the Phillip Eberle property.

Sidewalks Constructed, One-Half the Cost Being Assessed upon the Abutting Estates.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF GRANOLITHIC.	COST.
Albion street.....	both sides	Lowell street.....	Cedar street .....	.....	1,760.4	\$2,808.40
Ash avenue.....	Easterly	Meacham street.....	E. Albion street.....	.....	377.2	589.97
Beacon street	Northeasterly	Concord avenue.....	Washington street.....	.....	1,168.6	1,791.76
Bond street	both sides	Heath street	Jaques street.....	482.2	376.2	1,290.56
Clarendon avenue.....	Westerly	Boston avenue.....	No. 59 Clarendon avenue	540.0	366.0	1,296.73
Elm street.....	Northeasterly	Est. of Frank McDermott .....	.....	.....	91.8	137.70
Elm street.....	Southwesterly	Est. 112-120 .....	.....	.....	245.0	367.50
Fisk avenue	Southwesterly	Est. No. 38.....	.....	.....	12.8	19.20
Glen street.....	Easterly	Est. No. 27 Tufts street.....	.....	.....	67.8	105.03
Glenwood road.....	Southwesterly	Medford street	Vernon street.....	.....	623.5	935.25
Heath street	Southwesterly	Bond street.....	Fenwick street .....	.....	93.2	145.10
Highland avenue.....	Southwesterly	Somerville Trust Co. ....	.....	.....	66.8	100.20
*Highland avenue.....	Southwesterly	Porter street	Crocker street.....	.....	56.1	257.61
Jaques street.....	Southwesterly	Bond street.....	Fenwick street.....	147.5	117.4	436.99
Knapp street.....	Southwesterly	School street.....	Granite street.....	.....	259.5	434.27
Kidder avenue.....	Southwesterly	Highland avenue.....	Pearson avenue.....	.....	126.1	190.15
Lowell street.....	Northwesterly	Est. No. 124-126 .....	.....	.....	62.6	93.90
Medford street	Southwesterly	Highland road.....	Walnut street.....	450.7	.....	737.19
Mystic avenue	Southwesterly	Austin street.....	Comm. avenue.....	93.9	586.6	1,130.69
Nathan Tufts park.....	Southwesterly	Broadway	College avenue.....	.....	666.0	1,054.05
North street	Easterly	Conwell avenue.....	Medford line.....	845.0	554.8	1,900.70
P. H. Boulevard.....	Northeasterly	Est. No. 197-203 .....	.....	.....	75.5	133.51
P. H. Boulevard.....	Southwesterly	Burnham street.....	Mason avenue .....	.....	197.7	344.44
Raymond avenue.....	both sides	Curtis street	North street	2,629.8	819.0	5,608.60
Carried forward.....				5,189.1	8,770.6	\$21,909.50

* Highland avenue was brick.

Sidewalks Constructed, One-Half the Cost Being Assessed upon the Abutting Estates.—Continued.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF GRANOLITHIC.	COST.
Russell road	Southeasterly	Broadway	Brought forward	5,189.1	8,770.6	\$21,909.50
Union square	at Ebele block		north of Ware street		324.0	488.59
Washington street	Southerly	Webster avenue	Kingman road		403.0	736.35
Walker street	both sides	Broadway	Leonard street		334.0	391.86
Waterhouse street	Northeasterly	Broadway	Woodstock street		273.0	415.80
Wheatland street	Northwesterly	Jaques street	Mystic avenue		584.7	891.42
William street		Est. No. 189-193			539.3	852.64
Willow avenue	Southeasterly	corner Lexington avenue			129.1	220.72
Medford street		Est. No. 501-505			83.0	129.80
			Total	5,189.1	11,552.60	\$26,205.53

Miscellaneous.

Special repairs were made on the following streets:—

Summit avenue, entire length.
 Hancock street, Highland avenue to Lexington avenue.
 Porter street, Summer street to Carver street.
 Wellington avenue, entire length.
 Montgomery avenue, entire length.
 Cross street (north), Broadway to Mystic avenue.
 Grove street, Highland avenue to Winslow avenue.
 Cutter avenue, entire length.
 Morton street, entire length.
 Knowlton street, entire length.
 Banks street, entire length.
 St. James avenue, Summer street to Elm street.
 College avenue, Powder House boulevard to Professors' row.
 Newton street, Prospect street to Joseph street.
 Gilman street, Cross street to Aldrich street.

Driveways constructed, relocated, extended and discontinued at the expense of the petitioners cost \$1,578.14.

Length of public streets, 83.846 miles.

Four horses were killed on account of their disability and one horse purchased during the year.

The department maintains its own municipal repair shop for the different lines of work.

I have attended meetings of the Public Works and of the different committees of the Board of Aldermen for consultation regarding work and petitions.

A safety zone has been established in Union square and is greatly appreciated by pedestrians.

The subways under the Boston and Maine Railroad need constant attention and employees are assigned to care for the same.

Labor.

The regular employees were given two weeks' vacation and all employees, five months Saturday half holidays without loss of pay. At the last city election on a referendum the city employees were given a Saturday half holiday the year round without loss of pay. Mayor Cliff increased the pay beginning in June to all employees. Laborers to receive \$2.75 per day, drivers to receive \$2.90 per day, steam roller engineers and mechanics \$3.50 per day. Eight hours constitute a day's work.

The city does its own insuring for injured laborers. There are eleven former employees receiving pensions under the act providing for pensioning of laborers.

For the Appropriations and Expenditures of this department see the Auditor's report.

There were during 1917:—

- 162 permits issued to the Cambridge and Charlestown Gas Companies.
- 281 permits issued to occupy streets and sidewalks.
- 68 permits issued to cross sidewalks.
- 33 permits issued to feed horses.
- 36 street watering complaints and requests.
- 231 notifications to other departments and corporations.
- 38 accident reports.
- 961 police reports.
- 266 brick and granolithic sidewalks repaired.
- 420 miscellaneous reports and requests.
- 0 requests to care for moths.
- 351 poles and guards for trees.
- 68 drain layers' permits.
- 459 water department openings.
- 116 permits to open streets and sidewalks.
- 23 new signs erected.
- 39 danger signs erected.
- 63 signs repainted.
- 2,242 cubic yards sand and gravel used.
- 6,626 cubic yards dirt removed.
- 3,882 cubic yards old macadam used.
- 2,783 cubic yards of ashes used.
- 1,872 bags of Portland cement used.

Recommendations.

I most respectfully recommend:—

That traffic rules and regulations be established in our city.

That safety zones, as far as possible, be established in the several squares.

That the incomplete paving and sidewalks on the main streets be completed.

That the re-cut paving on Washington street be extended to Tufts street and from Union square on Somerville avenue to and including Metropolitan square.

The reservation on Broadway from Cross street to Boston line should be paved with granite paving blocks.

A "Topeka" top should be laid on the old Hassam concrete paving on Medford street from School street to Lowell street and the brick paving in Magoun square be extended to Lowell street.

A garage should be erected at the city yard for the department's automobiles and trucks, and a suitable heating plant installed to heat the several work shops, doing away with individual stoves, thus saving coal and labor as well.

I wish to extend my sincere thanks to all for their support and hearty co-operation.

Respectfully submitted,

ASA B. PRICHARD,

Street Commissioner.

REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

OFFICE OF COMMISSIONER OF PUBLIC BUILDINGS,
CITY HALL, Somerville, January 1, 1918.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:—

Gentlemen,—In accordance with the provisions of the City Charter, I submit herewith the annual report of the public buildings department for the year ending December 31, 1917.

The total valuation of the public property which is in the custody of the public buildings department is \$3,533,300.

The total expenditure for the year 1917 for the care and maintenance of this property was \$159,577.50.

This amount was expended as follows:—

Janitor service,	\$46,379 45
Fuel and light,	57,955 82
Care and repairs,	55,242 23

Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter and as such during the past year has made 1,290 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1917:—

Buildings	WARDS							Totals
	1	2	3	4	5	6	7	
Wood	30	48	5	19	33	11	54	200
Wood and Iron		1		2				3
Wood and Stucco					2	1		3
Wood and Cement							1	1
Wood and Concrete							1	1
Wood, Fireproof	1	1	3	2	2			9
Brick	3	6			5	2		16
Brick and Wood		1		1	1	1	2	6
Brick and Steel	1	1					1	3
Brick, Steel and Concrete	3							3
Brick and Concrete	2	1	1	1				5
Brick and Cement		1				2		3
Concrete	3	4		3	3	5	12	30
Concrete, Wood and Steel					1			1
Cement Block	4	4	10	2	8	3	28	59
Steel	1							1
Stucco					1	1		2
Galvanized Iron					1			1
Terra Cotta Tile							1	1
Totals	48	68	19	30	57	26	100	348

The total number of permits issued during the year 1917, viz., 348, was seventy-nine less than during the year 1916, when 427 permits for new buildings and alterations were issued.

The total estimated cost of the new buildings and alterations during the year 1917 was \$883,412, while the estimated cost in 1916 was \$1,498,932, showing a decrease of \$615,520.

Buildings	WARDS							Totals
	1	2	3	4	5	6	7	
Dwellings	14	29	1	15	33	7	44	143
Stores	1	4		2	2		3	12
Dwellings and Stores	4	1		1	1	1	1	8
Garages	10	13	13	7	12	13	40	108
Stables	2	2						4
Stables and Garages	1							1
Shops	1	1	1	1	1		2	7
Sheds	2	6	1		4	2	2	17
Manufactories	5	3	1	2	2		4	17
Offices	1			1				2
Storage	4	6	1		1	3	3	18
Office and Storage		1						1
Station			1					1
Banks				1			1	2
Foundation		1						1
Miscellaneous	3	1		1	1			6
Totals	48	68	19	30	57	26	100	348
		Wood		Fire	Resisting			Total
New Buildings		93		130				223
Alterations		107		18				125
Totals		200		148				348

The number of plumbing permits issued during the year 1917 was

Number of permits for plumbing in new buildings,	301
Number of permits for plumbing in old buildings,	145
Number of buildings in which soil pipes were tested,	156
	229

This decrease can largely be attributed to the high cost of materials and to the fact that the available land for building purposes in our city is decreasing very rapidly, and this department expects that in the future the number of permits issued for alterations and for the tearing down and construction of larger and better buildings will show a gradual increase each year. The figures this past year show a tendency in this direction, there being 125 permits issued for alterations against 119 in 1916.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all of the public buildings of the city and the grounds in connection therewith, the direction of all janitors in the city's employ, the inspection of the installation and care of all elevators, the supervision of the construction of all new municipal buildings, the maintenance of the public bathing beach and the public municipal baths in the Bennett and Bingham Schools and Lincoln Park.

The various activities in connection with the department

work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

School Buildings.

The maintenance and care of the school buildings has as formerly demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Additional Accommodations.

During the year provision has been made for additional seating capacity in the schools for 600 pupils. This has been accomplished by the completion of the fifteen room Junior High School in Ward Seven, known as the West Somerville Junior High.

Upon the completion of this Junior High School, it became necessary to make changes in the arrangement of 700 desks and seats in four school buildings at a considerable outlay of time and money.

The contract has been let and the work started on a new Junior High School in Ward 3.

Work was started on this building during October, 1917, and it is expected it will be ready for occupancy next September.

The building is located on the lot adjoining the Bell School, situated on Vinal avenue, and is to contain twelve classrooms, which will accommodate 450 pupils.

The equipment will be modern in every respect. The heating will be by the fan system automatically controlled. The sanitary system will include the required number of fixtures and there are to be in the building four rooms fitted up for instruction in carpenter work, cooking and sewing. The stairways are to be absolutely fireproof and so located as to be protected in the case of fire from all other sections of the building.

A new addition has been connected to the Boys' Vocational School which contains room for the instruction of machine shop work and the repair of automobiles.

The foundations, framing and roofing were done by contract and the school boys put on the clapboards and all the finish on the inside.

It will be necessary the coming year to install a new heating system, furnish new equipment, and fix up the grounds around these two buildings.

A new laboratory has been thoroughly equipped on the third floor of the High School filling a long needed want of the Chemistry Department.

A new flag-pole has been set up in front of the West Somerville Junior High School which makes it possible to raise or

lower the flag in any kind of weather beside removing the strain on the building. New poles have also been put up on the Bingham, Bennett and Lincoln School buildings to replace poles which were in a dangerous condition.

The entire school yard of the East Somerville Junior High School was covered with a concrete surface, also the yard of the Prescott School was repaired and resurfaced.

Another large area in the rear of the Cutler School has been covered with a concrete surface.

At the Winter Hill Junior High School an assembly hall has been constructed during the past summer with a seating capacity of two hundred. New ventilating skylights have been put in the roof, making possible the opening of another room on the third floor. This room is to be used as a cooking-room, thus making it necessary to install a new sink and gas and water supply. Also a master clock system for ringing the program bell has been installed in this building. Eight additional rooms have been wired for electric lights and fixtures installed.

Six of our school buildings have been entirely repainted on the outside and in fact such necessary painting, repairs, alterations and additions were made as the appropriations would permit.

The most pressing needs this year will be the following:—

That the policy of yard resurfacing be continued so that the school yards may be kept sanitary and free from dust.

That the policy of painting as many school buildings as possible during the year be continued.

Additional windows in the Edgerly School.

Electric lighting in all buildings with one side lighted rooms.

Outside enclosed fire escapes on the Edgerly, Morse and Highland School buildings. These buildings are three stories high and the old style type of construction with very little distance between stairways.

New heating and ventilating plant in the Morse School, doing away with the present seven furnaces which are in bad condition.

New floors should be installed in both the Edgerly and Highland School buildings.

The furnaces in the Girls' Trade School are in such a condition that provision must be made this year to replace same.

A connecting passageway should be installed between the East Somerville Junior High School and the Prescott School buildings as both these buildings are used as a Junior High School and the pupils are obliged to pass between the buildings many times a day.

Installing direct steam coils thermostatically controlled in the new wing of the Brown School, also the Glines and Pope Schools and the High School Annex. This would mean a great saving of coal and would eventually pay for itself.

Extending the heat control system in the High School to the remainder of the building.

The third story of the Pope School to be fitted up for a hall.

Installing a motor and doing away with the present engine used to run the ventilating fan at the Bell School as this engine is in bad shape and would cost as much to be repaired as a new motor.

Removing the partitions between the fire rooms and coal bins in the Bingham, Durell, Morse and Highland School buildings and the Central Heating Plant and replacing same with an eight inch brick wall.

Continuation of the policy of installing sprinkler systems, doing as many buildings as possible during the coming year.

Fire Department Buildings.

There has been considerable work done and many improvements made in the several fire department buildings.

The Central Fire Station has been partially renovated inside owing to the removal of the Fire Alarm Department to the new building, and on account of the changing over of the stable to a machine shop. New sleeping quarters for the men and new recreation rooms were installed on the second and third floors. Considerable interior painting was done and seventeen new steel lockers have been installed.

Engine Two House has been thoroughly remodelled, the interior of the first story painted and a new shower bath and modern sanitary accommodations installed.

Hose Five Station has been equipped with a new shower bath and modern sanitary accommodations installed.

Ladder Two House has been thoroughly renovated. Enlarged sleeping quarters for the men have been provided and also private rooms for the officers of the two companies occupying this house. New shower baths and modern sanitary accommodations have been installed, and a new hot water heating apparatus to supply the additional demand of the new bath room.

The most pressing needs for this year will be the following:—

- Completion of the interior of the Central Fire Station.
- Improved sanitary accommodations at Engine Two House.
- Repairs to Engine Six House.
- Painting interior of second story of Hose Eight House.
- Painting interior of Hose Five Station.

Municipal Buildings.

The municipal buildings, consisting of City Hall and City Hall Annex, are in fair condition generally.

It will be necessary, however, to make general repairs to the front entrance porch and balustrade of the City Hall this coming year in order to save certain portions which are fast deteriorating.

The ceiling and walls of the two front staircases to the second story of the City Hall need repairing and painting.

Considerable new fittings and furniture have been requested by the various departments, and new sanitary accommodations are needed in City Hall Annex.

During the past year a new desk was furnished for the

President of the Board of Aldermen, City Clerk and City Messenger, and installed in the Board of Aldermen Chamber.

The Mayor's offices were thoroughly renovated and a new floor laid in the City Treasurer's office.

The men's toilet on the first floor was thoroughly remodelled.

Libraries.

The Central Library and its branches are well provided for now that the Union Square Branch has been enlarged and the new building erected in East Somerville.

There is, however, considerable needed this coming year especially in the Central Library in the way of furniture and other equipment.

Water, Highway and Refuse Buildings.

Quite extensive repairs have been made to the Highway Department Stable. The outside of the building has been painted and new gutters have been put up around the entire building.

The sanitary stable and sheds have been thoroughly repaired and new wash stand for washing wagons completed.

Hospital Buildings.

Quite a number of necessary repairs have been attended to during the past year.

The yard has been regraded and a concrete surface laid in the clothes yard. New concrete walks have been laid to the Tuberculosis Camp to replace the board walks which had become badly rotted.

This year considerable plastering and painting are needed in both buildings and the roof of the Tuberculosis Camp will need repairing.

City Home Buildings.

Many important improvements and necessary changes have been made in these buildings.

Changes in the heating system have been completed which make a great saving of fuel possible.

A new fence has been constructed the entire length of the property on the Powder House boulevard and North street sides.

Also considerable new furniture was purchased.

Extensive repairs have been made to the Wash-house, including a new concrete loading platform and stairs.

Police Buildings.

The exterior of these buildings has been painted during the past year, new furniture purchased, the Exemption Board

fitted up, the cell locks made more secure, a new storage shed started and numerous other repairs made.

There is need for considerable inside patching of the plaster and painting to be done this coming year. Also a new heating apparatus is badly needed in the stable.

Bathhouse.

The new bathhouse was completed and opened for the first time last June and proved a great success.

It was possible to accommodate a great many more patrons than ever before, thus tending to make this institution more self-supporting.

The beach was not all that would be desired, but if enlarged from year to year and kept sanded we will in a short time have a very desirable resort of this kind.

Beside the enlargement and resanding of the beach this coming year, we will need some new bathing suits and some slight additional alterations in the free locker rooms.

Park Buildings.

Since the enlargement of the Lincoln Park Showers, a great many more people have been accommodated in this section of the city where the facilities of this kind are greatly appreciated, thus making this small outlay of money a great success.

The old building in Broadway Park is badly in need of repairs, and to my best judgment should be torn down and an addition made to the new concrete building located in this same park.

In General.

The Commissioner of Public Buildings has had the cooperation of all branches of the City Government, including His Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

GEORGE L. DUDLEY,

Commissioner of Public Buildings.

REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

OFFICE OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS,
CENTRAL FIRE STATION, January 1, 1918.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:—

Gentlemen,—I most respectfully submit my ninth annual
report as Commissioner of Electric Lines and Lights for the
year ending December 31, 1917.

Inspection of Wiring in Buildings.

The inspection of electrical installations is of great importance as it is necessary that all such work must be done according to the Rules and Requirements of this office as well as to conform to the "National Electrical Code" which has been adopted as a standard for wiring in all of the principal cities in the country.

The tendency to have work done cheaply results in incompetent workmen being employed who are not familiar with these code rules and causes a great deal of annoyance to the inspector, as several trips are required to make sure defects which are found and reported have been remedied.

The "home" electrician is also responsible for quite an amount of defective wiring, as such persons connect additional wires and lights to existing wiring and do not notify this office or have an inspection made, and such wiring is only discovered by accident or when trouble has resulted from such unapproved work.

The attachment of heating and cooking appliances to lamp sockets which are not designed to carry such loads is another source of trouble causing fuses to blow which are generally replaced by larger ones than those approved in the original installation.

These fuses when blown should be replaced with those of the same capacity and if the cause of trouble cannot be found an experienced electrician should be called in.

Separate circuits should be run for connecting flat-irons, cooking utensils, vacuum cleaners and like apparatus.

Inspections are followed up very closely and electrical wiring as a whole shows some improvement.

No work should be accepted until the inspector has been notified and his approval obtained.

Number of notifications of new work	1,015
Number of inspections of new work	1,015
Number of re-inspections of new work	2,150
Number of inspections of old work	119
Number of defective installations of old work	12
Number of defective installations remedied	12
Number of re-inspections of old work	14
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Total number of inspections	3,298
Number of permits issued to the Edison Electric Illuminating Company for installing meters, lamps, etc.	2,116

Fire Alarm System.

At the beginning of the year the new central office fire alarm equipment purchased last year was put into commission.

This system is of the best and latest type and is equal to any in the State.

It consists of the following:—

- 2— 6 circuit operating boards.
- 1— 5 circuit tapper board.
- 1— 5 circuit gong board.
- 2—16 circuit storage battery charging boards.
- 1—32 circuit protector board.
- 1—12 circuit automatic repeater.
- 1— 1 dial, 4 number manual transmitter.
- 2— 5 circuit puncturing registers.
- 13 punching registers and take up reels.
- 2 automatic time and date stamps.
- 1 master clock.
- 9—40 cells storage battery.
- 5—10 foot 4 shelf battery racks.
- 4 metropolitan tappers and 2 gongs.

All alarms are received in this office from the street boxes and then transmitted to the fire stations and outside bells by operators who are on duty day and night. 208 bell alarms were received and transmitted during the year.

A telephone desk with 4 trunk lines from the telephone exchange and connecting with all the fire stations is located in the central office and telephone notifications of fire are transmitted to the fire station nearest the call and apparatus sent immediately.

The apparatus outside of the central office consists of the following:—

- 130 signal boxes.
- 8 tower strikers.
- 45 gongs.
- 10 punching registers.
- 20 tappers.
- 1 automatic steam whistle.
- 9 private telephones.
- About 57 miles of overhead wires.
- About 78 miles of underground wires.

There has been run 19,750 feet of new overhead wire and 1,200 feet of old has been removed.

No underground wires were installed last year owing to lack of appropriation and the difficulty of securing material.

Three new boxes have been added during the year:—

Box 153 — Vacuum Company, Mystic avenue.

Box 239 — Putnam Street.

Box 721 — West Adams Street, corner Chetwynd Road.

Police Signal System.

The police signal system has been given the usual constant attention and is giving excellent satisfaction.

Boxes have been thoroughly tested and all found to be in perfect working order.

The system consists of the following:—

1—4 circuit police desk.

57 street signal boxes.

4 special boxes.

About 19 miles of overhead wire.

About 13 miles of underground wire.

Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years.

A large number of defective poles have been replaced by companies owning the same.

New poles have been placed in locations granted for the purpose of supplying light and telephone service, and abandoned poles have been removed.

	New poles placed	Re- moved	Re- moved set
New England Telephone & Telegraph Co.	12	48	1 3
Edison Electric Illuminating Co.	23	204	2 18
Permits given to the New England Telephone & Telegraph Company for attachments to the Edison Company's poles, 226.			
Permits given to the Edison Electric Illuminating Company for attachments to the New England Telephone & Telegraph Company's poles, 33.			

Street Lighting.

The matter of street lighting has had the same attention as in previous years and additional lights have been placed in various parts of the city.

Some new streets in the western portion of the city will require lights as a large number of houses have been built and streets developed.

	Jan. 1, 1917	Jan. 1, 1918
Magnetites	129	130
Incandescents 600 c. p.	367	374
Incandescents 125 c. p.	100	103
Incandescents 60 c. p.	907	918
Incandescents 40 c. p.	5	5

Recommendations.

I respectfully recommend that additional ordinances be made to further govern the installations of electric wires and appliances in the city.

An assistant inspector be employed to be able to thoroughly cover all old installations in the city.

Conclusion.

I wish to thank His Honor, the Mayor, the members of the Board of Aldermen, and the several departments for the courtesies received.

Respectfully yours,

WALTER I. FULLER,

Commissioner of Electric Lines and Lights.

REPORT OF SANITARY DEPARTMENT.

City Hall, Somerville,
January 25, 1918.

To the Honorable, the Mayor, and the Board of Aldermen of
the City of Somerville:—

Gentlemen:

I have the honor to submit to you the report of the Sanitary Department for the year 1917. The Sanitary Department commenced operations as a separate department on May 1, 1916, under authority of an ordinance adopted by the City Government. Previous to the above date the work had been carried on as a division of the Highway Department and before that for a number of years was under the control of the Board of Health, during which time, a period of sixteen years, the present superintendent has been in direct charge of the collection and disposal of ashes and offal.

The work has increased in proportion with the rapid growth of the city since 1900 until at the present time there are about eighty-five men, thirty-five horses and a varying number of hired teams employed each week. At the last City Election it was voted that a Saturday half holiday be granted to the laborers and mechanics employed by the city, which I believe will be appreciated by the employees of this department. Regardless of the half holiday there remains the same amount of work to be performed each week by the Sanitary Department and it has been necessary to make a re-survey of the city and divide same into the proper districts in order to make the weekly collections in five and one-half working days.

The personnel of the department consists of a superintendent, bookkeeper, two working sub-foremen, a yardman, four stablemen, a horseshoer, a dumpman, twenty-eight drivers, and as many laborers as are needed in the work of collecting and disposing of ashes, paper, garbage and other refuse materials.

The equipment and its valuation are as follows:

Horses	\$9,000 00
Vehicles	13,675 00
Harnesses, blankets, etc.	2,665 00
Stable equipment, etc.	300 00
Fittings in blacksmith shop	75 00
	<hr/>
	\$25,715 00

During the year the Sanitary Department paid to the Highway Department \$3,663.11 for the use of teams. Collections of garbage amounted to 1,987 cords, all of which was disposed of to farmers at the department yard.

Receipts.

Sale of garbage	\$12,301 75
Use of incinerator	1,150 00
Total	<u>\$13,451 75</u>

COLLECTIONS OF ASHES AND PAPER.

	Ashes (Cubic Yards)	Paper (Cubic Yards)
January	10,619	2,780
February	11,787	2,400
March	15,959	2,760
April	13,113	2,500
May	11,262	2,600
June	8,262	2,230
July	6,037	2,560
August	5,796	2,600
September	5,469	2,500
October	6,271	2,640
November	7,362	2,500
December	10,083	2,600
Totals	<u>112,020</u>	<u>30,670</u>

I wish to call your attention to the condition of the dumping privileges in the city. There is no public dump within the city limits and the only dump now in use by this department is located on Mystic avenue at the foot of Temple street. This dump is on private land and the city is paying six hundred dollars per year for the privilege of dumping there and it is fast filling up. All of the collections of rubbish are dumped on private land. Some provision should be made in the near future to care for the disposal of refuse.

On an estimated population of 90,000, the cost of collecting ashes and offal was slightly under \$1.19 per capita. Deducting the revenue received by the city from the sale of garbage and use of the incinerator, the per capita cost was about one dollar. I believe the per capita cost could be still further reduced. This department was organized for the benefit of householders and tenants primarily. The great increase in the number of stores has put a heavy burden on the department in caring for their refuse. A small charge for the collection of refuse materials from manufacturing and business establishments would be fair in my opinion. Somerville would be making no precedent in this regard as other cities have established rates per barrel or receptacle taken from business concerns. I respectfully submit this for your consideration with the belief that

the storekeepers and business men in general would deem it only fair and proper.

In concluding I wish to thank the members of the City Government for their co-operation the past year and the employees of the Sanitary Department for their earnest and conscientious work with the hope and trust that the workings of this department will continue to the advantage and welfare of the City of Somerville.

Respectfully submitted,

EDGAR T. MAYHEW,

Supt. of Sanitary Dept.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Location: Somerville City Hall (near centre of the city) is $2\frac{3}{4}$ miles northerly from State House in Boston.

Greatest extent of the City north and south about 4.2 miles.

Greatest extent of the City east and west about 2.1 miles.

Elevation Highland avenue at City Hall 105 feet above mean low water.

Lowest building elevation in the city 13 feet.

Highest building elevation in the city 145 feet.

Area of city, including land and water, about 4.22 square miles.

Land, 2,461.50 acres; water and marsh, 238.50 acres.

Population 1915, census, 86,854.

Present population, estimated, 90,000.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.

Construction commenced in 1868.

Source of supply: Metropolitan system, taking water of the Nashua river at Clinton, Mass.

Range of pressure on street mains:

Low service 35 to 65 pounds.

High service 45 to 100 pounds.

Mayor.

HON. ZEBEDEE E. CLIFF.

Water Commissioner.

FRANK E. MERRILL.

Office of the Water Department.

Room 10, City Hall.

Department Buildings and Yard.

Cedar street, near Broadway.

REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER,
January, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

I present herewith my report for the year ending December 31, 1917, this being the forty-fourth annual report of the water department and my eighteenth as water commissioner:—

Revenue and Expenditures.

Water bills have been issued as follows:—

“Annual” water charges, amounting to	\$47,204	25
“Additional” water charges, amounting to	2,059	39
“Metered” water charges, amounting to	215,773	92
	\$265,037	56

	Annual and Additional.	Metered.	
Abatements and refunds on above charges	\$1,736 87	\$582 92	2,319 79
Income from sale of water			\$262,717 77
Receipts from water service assessments	\$3,494 53		
Receipts for labor and materials sold:—			
Miscellaneous accounts		3,542 59	\$7,037 12
Total income of water works			\$269,754 89

This amount was used as follows:—

For water works purposes:—

Water works maintenance	\$52,410 85		
Water works extension	22,692 31		
Miscellaneous accounts	3,542 57		
		\$78,645 73	
Interest on water loan bonds		640 00	
Maturing water loan bonds		5,000 00	
Metropolitan water works assessment		118,425 67	
Maintenance water works buildings		1,496 99	
		\$204,208 39	

For other municipal purposes:—

Surplus to general revenue account	\$65,546 50		
		\$65,546 50	
			\$269,754 89

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.

WATER MAINTENANCE ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen		\$55,965 00
Refund		18 00
Department accounts		1,141 47
Materials furnished for extension of the water works		13,318 74
Amount expended for labor and materials for operation, maintenance, and renewal of the water works	\$52,410 85	
Amount expended for materials used in extension of the water works	13,318 74	
Miscellaneous accounts	3,542 59	
Labor and materials furnished municipal departments	1,141 47	
Unexpended balance	29 56	
	<hr/>	<hr/>
	\$70,443 21	\$70,443 21

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen		\$22,540 00
Department accounts		152 31
Labor and materials charged to Water Maintenance account	152 31	
Amount expended for labor and materials used in extension of the water works	\$22,526 30	
Unexpended balance	13 70	
	<hr/>	<hr/>
	\$22,692 31	\$22,692 31

Cost of Water Works.

The total cost of the water works on December 31, 1916, as represented by the expenditures from appropriations for water works extension was	\$1,038,662 29
Expended during the year 1917, on extension account	22,526 30
	<hr/>
Total expenditures, December 31, 1917	\$1,061,188 59

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$1,106,000, leaving the water debt on December 31, 1917, \$11,000.

The outstanding bonds mature as follows:—

Year.	Amount.
1918	\$5,000
1919	4,000
1920	2,000

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1917, inclusive, is shown in the following table:—

Total water income, years 1898 to 1917, inclusive . . . \$4,619,711 60
Distribution:—

Water Works Account.

Water Works Construction, Renewal, Maintenance and Operation	\$1,157,910 96	
Water bonds	263,000 00	
Interest	85,815 00	
Metropolitan Water Assessments	1,762,852 71	
Maintenance Water Works buildings	2,843 05	
	<hr/>	\$3,272,421 72

Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account		\$1,347,289 88
		<hr/>
		\$4,619,711 60

Water Distribution System — Construction.

STREET MAINS.

Approximate number of feet of street mains in the city, January 1, 1917, (including hydrant branches and blow-offs)	536,544
Feet of street mains laid in 1917	5,808
Feet of hydrant branches laid in 1917	92
Feet of blow-off branches laid in 1917	34
Feet of car-sprinkler connections laid in 1917,	205
Total feet of pipe laid	6,139
Feet of street mains removed and replaced,	2,053
Net increase in feet of pipe	4,086
Total approximate feet of pipe in the city	540,630
Total pipe mileage, approximately	102.39

The sizes and lengths of pipe laid and removed are as follows:—

Size.	Feet Laid.	Feet Removed.	Size.	Feet Laid.	Feet Removed.
1"	0	101	8"	1,096	30
1½"	0	350	10"	268	0
2"	575	261	12"	2,657	0
4"	234	225	20"	489	0
6"	820	1,086			

The street mains constructed and replaced during the year are as follows:—

	Size of Pipe.	Feet Laid.	Feet Re-moved.	Size Re-moved.
Bailey street; new construction.....	8"	24		
Bellevue terrace, reconstruction.....	2"	88	101	1"
	4"	13		
Broadway; new construction.....	2"	149		
Carter terrace, new construction.....	6"	169		
College Hill road; new construction.....	6"	19		
Columbus avenue; new construction....	6"	12		
Conwell avenue; new construction.....	12"	22		
Conwell avenue; reconstruction.....	10"	4	4	6"
Cummings street; new construction.....	8"	535		
Day street (H. S.); new construction....	8"	87		
Fairfax street; new construction.....	8"	9		
Gordon street; new construction.....	12"	1,257		
High street; new construction.....	12"	70		
Middlesex avenue; new construction....	20"	489		
Morrison place; reconstruction.....	2"	186	186	1½"
Mountain avenue; reconstruction.....	6"	261	261	2"
North street; new construction.....	6"	237		
	12"	202		
North street; reconstruction.....	12"	1,082	1,082	6"
Porter avenue; reconstruction.....	2"	152	164	1½"
	6"	12		
Powder House blvd., new construction	12"	24		
Rose street; new construction.....	8"	432		
Sterling street; new construction.....	8"	9		

Walnut street; reconstruction.....10"	255	225	4" }
10"	9	30	8" }
Woods avenue; new construction..... 10"	9		
Hydrant and car-sprinkler branches and blow-off pipes,	331		
Total	6,139	2,053	
Hydrants, Gates, Etc.			
Number of fire hydrants in city January 1, 1917,		1,160	
Number set during the year.....	24		
Number removed during the year.....	13		
Net increase in number of hydrants.....		11	
Total number of public fire hydrants.....			1,171
Number of private fire hydrants, January 1, 1917		64	
Number set by private companies during the year		0	
Total number of private fire hydrants re- ceiving their supply from the city mains			64
Number of gates in city, January 1, 1917.....		1,733	
Number set during the year for new streets	15		
Number of section gates set.....	7		
Number set on hydrant branches.....	33		
Number set on blow-off branches.....	4		
Number set on car-sprinkler connections....	16		
		75	
Number of street gates removed.....	6		
Number of section gates removed.....	1		
		7	
Net increase in number of gates.....		68	
Total number of gates in city.....			1,801
Number of check-valves in city January 1, 1917		8	
Number of blow-offs in city January 1, 1917		173	
Number added during the year.....		1	
Total number of blow-offs.....			174
Number of waterposts in city January 1, 1917		79	
Number set or removed during the year.....		0	
Total number of waterposts.....			79
Number of drinking fountains in city, Janu- ary 1, 1917.....		9	
Number set or removed during the year.....		0	
Total number of drinking fountains in city			9
Number of car-sprinkler connections in city January 1, 1917.....		0	
Number installed during the year.....		17	
Total number of car-sprinkler connec- tions in city.....			17

Water Services

Number of services in city January 1, 1917, (approximately)		13,420
Number laid during the year.....	118	
Number permanently discontinued.....	29	
	<hr/>	
Net increase in services.....		89
		<hr/>
Total number of water services in city....		13,509
Amount received for services laid in 1917....		\$3,494.53
Number feet service pipe in city January 1, 1917		463,682
Number feet laid during the year.....	4,206	
Number feet discontinued.....	1,321	
	<hr/>	
Net increase in feet of service pipe.....		2,885
		<hr/>
Total feet service pipe in city (approx- imately)		466,567
Total service mileage (approximately)		88.36

Size, number and length of service pipes laid in 1917:—

$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1½"	6"	1¼"	1½"
12—541'	87—2933'	16—520'	1—18'	2—72'	1—76'	1—26'
Number of fire services installed during 1917.....						2
Locations						No. Size
Sprague-Hathaway Co. (High-Service).....						1 6"
Sprague-Hathaway Co. (Low-Service).....						1 6"

Blow-offs

Number of blow-offs in city January 1, 1917.....	174
Number added during the year.....	3
	<hr/>
Total number in city.....	177

Locations of Blow-Offs Installed in 1917

Middlesex Avenue, near Cummings St.....	6"
North St., on dead end, at Medford line.....	4"
Washington St., foot of Columbus Ave.....	4"
Gordon St., at Alewife Brook Parkway (partly completed)	

Water Meters

Number of water meters in city, January 1, 1917.....		9,758
Number installed during the year, new.....	317	
Number reset	174	
	<hr/>	
		491
Number removed on account of permanent or tem- porary discontinuance of water and for substitu- tion of other meters.....		225
		<hr/>
Net increase in number of operating meters.....		226
Number of motor registers in service.....		4
Total number of meters and registers.....		10,028
Per cent. of all services metered.....		74.23

The kinds and sizes of all meters now installed are shown in the following table:—

Operating Meters December 31, 1917.

KIND.	SIZE.								Total.
	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	3"	4"	6"	
Nash	176								176
Empire.....	4								4
Crown.....	5	3	3	2	2	2			17
Gem.....							1		1
Hersey			5	1	1	2			9
Hersey Disc....	256	22	9	1	4				292
Torent								1	1
Trident.....	503	41	24	6	6				580
Trident Crest...					2	2	3		7
Trident Comp..					7	2	2		11
Union.....	15	13	7	1	3				39
Union Special..		13	2	2					17
Columbia.....	55								55
King	655								655
Lambert.....	4,152	150	27	1					4,330
Worthington Disc.....	3,762	32	6	4					3,804
Worthington Turbine.....							1	1	2
Keystone.....	24								24
Totals.....	9,607	274	83	18	25	8	7	2	10,024
Motor and ele- vator registers									4
									10,028

The meters installed in 1917 were classed as follows:—

Applications of property owners	83
New services	154
General installation	80
Reset	174
Total	491

Meters were removed for the following causes:—

Vacancies and temporary non-use of water	100
Services permanently discontinued	8
Replaced by other meters	117
Total	225

Under the provisions of the Metropolitan Water Act it is necessary that there be installed in this city at least 411 meters each year on services previously unmetered, and meters on all new services when they go into regular use.

In past years an excess of meter installation has been attained, amounting to 872 in number. Because of this, and taking into consideration the present high cost of material and the drafting into government service of much of our skilled labor, the approval of the Metropolitan Water and Sewerage

Board was obtained to a decreased installation of meters for the year 1917. Meters were installed on all new services and 163 were set on old services, reducing the regular quota for the year by 248, but still leaving an excess installation for the term of years since the act became effective amounting to 624 meters.

Meters installed yearly on old and new services under the State Compulsory Meterage law :—

Year	Meters set on old services	Set in excess of requirements	Total excess	Meters set on new services .
1908	755	344	344	147
1909	637	226	570	201
1910	501	90	660	169
1911	528	117	777	200
1912	423	12	789	236
1913	432	21	810	255
1914	422	11	821	231
1915	439	28	849	217
1916	434	23	872	203
1917	163	248 (less)	624	154

The following table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption :

Year	Population	Number of Services	Number of Meters	Per Cent Metered	Per Capita Consumption
1897	58,000	9,601	.....	.....	(Est.) 88
1898	59,000	9,806	143	1.5	" 88
1899	61,000	10,053	226	2.25	" 88
1900	62,000	10,291	202	2	" 88
1901	64,000	10,520	224	2	" 88
1902	66,000	10,710	269	2.5	" 88
1903	68,000	10,854	647	6.	" 88
1904	69,000	11,059	1,272	11.5	89
1905	70,000	11,279	2,092	18.5	89
1906	71,000	11,489	2,829	24.5	89
1907	72,000	11,662	3,455	29.5	90
1908	74,000	11,817	4,333	36.5	89
1909	76,000	12,018	5,155	43	84
1910	78,000	12,149	5,817	48	80
1911	79,000	12,357	6,533	53	74
1912	80,000	12,596	7,171	57	79
1913	82,000	12,827	7,856	61	72
1914	85,000	13,034	8,499	65	73
1915	87,000	13,233	9,155	69	67
1916	90,000	13,420	9,763	72.75	69
1917	91,000	13,509	10,028	74.23	73

Summary of Pipes and Fixtures of the Water System
December 31, 1917.

Feet of main pipe (approximately)	540,630
Feet of service pipe (approximately)	466,567
Service connections (approximately)	13,509
Public fire hydrants	1,171
Private fire hydrants	64
Gates	1,801
Check valves	8
Meters	10,024
Motor registers	4
Waterposts	79
Blow-offs	177
Drinking fountains and troughs	9

WATER DISTRIBUTION SYSTEM—MAINTENANCE.

Street Mains.

The 1" and 1½" service mains in Bellevue terrace, Morrison place and Porter avenue have been replaced with larger pipes on account of inadequacy of the supply through them. The old 2" service main in Mountain avenue was replaced with a 6" main on account of poor supply and the reconstruction of the street. The 4" main in Walnut street between Highland avenue and Medford street was replaced with a 10" main to improve the water circulation and in anticipation of the permanent paving of the street. The old 6" main in North street between Conwell avenue and the dead end was replaced with 12" pipe laid on the westerly side of the street and was connected with the new main continuing northerly to a dead end at the Medford city line. A new 12" connection was made with this main at Conwell avenue and the old 6" main from Conwell avenue northerly was removed from the ground.

All the service pipes formerly attached to the old 6" main were transferred to the 12" main. This work was done on account of the desire of the Metropolitan Water Board to eventually transfer this district from the high-service to the low-service system, and at this particular time on account of the proposed reconstruction of North street by the highway department.

Defects in the street mains have appeared in nine different places, the most serious being a cracked pipe in the 16" line in Mansfield street, a settled pipe and pulled joint in the 12" main over the B. & M. R. R. bridge in Medford street, and a blow-out in the 18" main in Washington street near Franklin street. In the latter place, in the early morning of December 5, a section of the main of approximately three square feet in area broke out from the side without any apparent cause, but fortunately did but little damage aside from tearing up the paved street and flooding two cellars on a side street. The water pressure on

the main at this point was about 65 pounds per square inch and the pipe had been laid about twenty-five years.

Hydrants.

All the fire hydrants have been inspected, repaired when necessary, and painted. A card index of all hydrants in the city has been prepared, showing the location, make, water pressure and other details.

Services.

The older service pipes are giving us the usual amount of trouble from corrosion and other causes and their care occupies a considerable portion of our time. On account of increasing cost of labor and materials the policy of replacing or examining all old services in streets undergoing reconstruction has, by agreement, been temporarily discontinued and only those known to be very old or suspected to be in defective condition have been overhauled. Where permanent paving has been laid, however, the services have generally been relaid.

LABOR.

The wages of common laborers were advanced by the mayor in June to \$2.75 per 8-hour day, and of skilled laborers to \$2.90 per day, but good labor has been difficult to obtain. Our skilled jobbing force has been largely depleted through calls of the men to Government service or to better paying positions, and this labor problem is proving a difficult one to overcome as men not only have first to be obtained but afterward must be trained in water-works requirements before they become of much value to the department.

WATER ASSESSMENTS AND CONSUMPTION.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year	Sinking Fund	Maintenance	Interest	Maturing Bonds	Total
1898.....	No division	made			\$14,250 19
1899.....	"	"			20,975 58
1900.....	"	"			28,689 24
1901.....	\$12,491 73	\$12,033 79	\$32,291 24		56,816 76
1902.....	19,014 85	12,955 64	30,427 40		62,397 89
1903.....	15,748 56	12,763 10	48,776 77		77,288 43
1904.....	16,404 42	15,393 87	54,938 64		86,736 93
1905.....	21,358 11	13,666 71	55,535 91		90,560 73
1906.....	22,345 50	17,412 51	57,402 07		97,160 08
1907.....	25,365 30	18,880 01	62,089 30		106,334 61
1908.....	24,865 73	15,221 12	68,604 23		108,691 08
1909.....	24,812 23	21,220 56	66,540 41		112,573 20
1910.....	25,018 52	18,212 28	66,825 45		110,056 25
1911.....	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912.....	24,469 82	16,111 70	68,205 16	445 46	109,232 14

1913.....	24,930 94	20,691 19	70,206 83	491 92	116,320 88
1914.....	14,190 98	22,488 71	73,138 81	180 63	109,999 13
1915.....	14,164 65	21,376 07	74,111 12	1,129 50	110,781 34
1916.....	13,249 71	21,643 98	74,058 98	1,515 62	110,468 29
1917.....	13,364 71	28,110 19	75,117 17	1,833 60	118,425 67
					\$1,762,852 71

There has been credited to the city by the commonwealth as its proportion of the amounts received from entrance fees, water supplied outside the district, and water furnished to water companies the sum of \$9,056.10.

The daily consumption of water in Somerville, as recorded by the Venturi meters, operated by the Metropolitan water works, is shown below by months for the year 1917:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January	6,998,300	78	July	6,944,700	76
February	7,438,400	82	August	6,770,500	74
March	6,667,800	74	September ...	6,379,900	70
April	6,250,600	69	October	6,431,600	70
May	6,216,000	68	November ...	6,373,400	70
June	6,458,900	71	December	7,217,100	79

The consumption for the year was:—

Low-service system	1,878,049,000	gallons
High-service system	558,735,000	gallons
Total consumption	2,436,784,000	gallons
Average daily consumption	6,676,100	gallons
Average daily consumption, per capita, for Somerville	73	gallons
Average daily consumption, per capita, for Metropolitan district	90	gallons

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan Water District for the year 1917, as registered by the Metropolitan meters:—

City or Town	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Arlington	58	62	55	52	55	59	86	76	64	57	54	58	61
Belmont	46	48	48	48	51	56	73	66	58	49	47	48	53
Boston	115	118	107	101	102	102	105	107	104	101	97	113	106
Chelsea	73	78	69	65	66	63	72	71	68	67	63	73	69
Everett	81	88	77	72	70	74	77	79	71	70	71	84	76
Lexington	63	65	69	67	72	77	93	90	74	73	71	70	74
Malden	49	50	49	48	48	46	49	48	45	43	42	49	47
Medford	50	50	49	46	45	50	53	51	53	47	46	51	49
Melrose	45	48	49	48	49	53	57	58	59	54	47	50	51
Milton	38	39	38	38	40	44	47	44	42	45	43	41	41
Nahant	48	52	57	61	84	130	230	250	154	82	54	52	105
Quincy	56	60	58	53	56	59	75	67	61	65	58	84	63
Revere	55	60	55	53	53	56	71	70	61	52	49	57	58
Somerville	78	82	74	69	68	71	76	74	70	70	70	79	73
Stoneham	60	66	59	60	66	69	71	73	82	74	74	76	69
Swampscott	45	66	74	69	53	64	92	91	71	53	49	50	65
Watertown	74	74	78	77	83	100	100	102	95	92	93	94	89
Winthrop	45	47	45	47	48	52	69	71	56	49	45	47	52
Met. Dist.....	96	100	91	86	87	88	93	93	89	86	83	96	90

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1917:—

City or Town	Gallons		PerCent. Services Metered
	Total per Day	Per Capita per Day	
Milton	375,000	41	100
Malden	2,419,300	47	96.75
Medford	1,641,300	49	100
Melrose	992,900	51	100
Winthrop	727,200	52	100
Belmont	474,800	53	100
Revere	1,615,400	58	76.54
Arlington	997,100	61	100
Quincy	2,706,800	63	91.39
Swampscott	503,800	65	100
Stoneham	531,300	69	99.51
Chelsea	3,188,500	69	99.79
Somerville	6,676,100	73	74.23
Lexington	426,700	74	99.19
Everett	3,023,400	76	58.66
Watertown	1,584,600	89	100
Nahant	155,300	105	75.34
Boston	82,073,200	106	59.87
Total District.....	110,022,700	90	72.14

GENERAL.

New Work.

Building operations have fallen off to a considerable extent and there has been but little call for mains into new territory, the principal being for a residential development along North and Gordon streets in West Somerville, and for manufacturing development along Middlesex avenue in East Somerville. Several smaller districts have also been piped, all as shown in tables in this report.

Trench excavation and backfilling, pipe-laying and joint-runing with Lead-Hydro-Tite furnished by the company, were done by agreement with H. A. Hanscom Co., contractors, in the following streets:—

Street	Size of Pipe	Price, per Foot
Carter Terrace.....	6"	44 cents
Rose Street.....	8"	49 "
Gordon Street.....	12"	70 "
North Street.....	12"	70 "
North Street.....	6"	55 "

The main laid in Middlesex avenue was 20" diameter, the intention being eventually to connect this pipe with the 48" main of the Metropolitan system in the Fellsway boulevard in order to obtain an additional feeder of ample capacity for the East Somerville district. The early arrival of extremely cold weather stopped the work of backfilling the trench on this job and carried its completion over to the coming year.

Street-Car Sprinkling Connections.

At the request of the mayor, the department has installed seventeen connections with our water mains for the purpose of speedily filling the large tanks used by a street-car sprinkling company in sprinkling and flushing our streets.

These connections are 4" branches cut into the mains, extending to a point between the street car tracks and terminating in a special hydrant having one outlet provided with a 90° elbow to which is attached a fitting adapted to the 5" hose connection leading to the tank car.

The hydrant is firmly imbedded in the earth to a point just below the outlet elbow, and from this point to the street surface, about 18 inches, the head and fittings are encased by a 2-inch plank box having a cement bottom. These boxes are connected by 2" pipe with nearby sewer manholes to carry off the drainage and are capped with heavy cast-iron frames and covers set flush with the street paving.

The hydrants are of a type in which the working parts are easily removable for repairs and each branch is provided with a 4" gate valve and iron box independent of the hydrant.

The hydrants are operated by the sprinkler-car crew with a socket wrench and the gate valves are restricted to the use of the city in shutting off for repairs if needed and for the winter season. The customary drip-valves were removed and the outlets plugged, it being the intention to pump out the hydrants after they are closed for the season to prevent their freezing in cold weather.

On account of other obstructions in the streets many difficulties were encountered in making the connections, but the work was ultimately accomplished at a cost to the water department of \$2,751.96, and has operated with entire satisfaction.

Pensions.

The name of Thomas Fitzpatrick, an efficient laborer in this department for many years, was placed on the pension payroll on December 29th, at rate of \$7.58 per week.

Honor Roll.

The Water Commissioner has placed in the general office of the department in city hall a service flag containing three stars in honor of the young men of the department who have entered the service of the government during the year, and whose names are here given:—

Name	Occupation	Date of Retirement
Ralph Orne	Clerk	September 18, 1917
George L. Brown	Machinist	October 6, 1917
Charles P. Mullen	Repairer	November 28, 1917

The best wishes of the entire department force have gone with these men for their success in whatever duty they may be called upon to perform, and for their return to good health and condition at the appointed time.

High-Pressure Auxiliary Supply.

I again renew my recommendation for some action on your part toward providing the city with adequate water service in case of a conflagration. It is well known, through my numerous reports on the matter, that the high-service system of the city has for some years been unprotected by any local means of delivering high-pressure water into it should emergencies arise making it needful to do so, and this condition still exists through failure to authorize an auxiliary means of supply.

Although these are times of special conservatism in the matter of public expenditures, I believe this to be a need which merits and should receive your early and thorough investigation.

Respectfully submitted,

FRANK E. MERRILL,

Water Commissioner.

GATES SET IN NEW LOCATIONS, 1917.

- Albion street, 6-inch gate, (section gate) set 14 feet 7 inches south from the north line of Albion street, on the west line of Albion court.
- Beacon street, 4-inch gate, set 24 feet 8 inches west from the east line of Beacon street, 18 feet north from the north line of Dickinson street, on sprinkler hydrant branch.
- Beacon street, 4-inch gate, set 24 feet 8 inches west from the east line of Beacon street, 17½ feet south from the north line of Forest street, on sprinkler hydrant branch.
- Bellevue terrace, 4-inch gate, set 6 feet 8 inches east from the west line of Bellevue terrace, on the north line of Albion street.
- Bond street, 6-inch gate, set 63 feet south from Jaques street, 4 feet out from hydrant, on hydrant branch.
- Broadway, 2-inch gate, set on west line of Fenwick street, 12 feet 6 inches south from the north line of Broadway.
- Broadway, 4-inch gate, set 22 feet 6 inches north from the south line of Broadway, 23 feet west from the east line of Liberty avenue, on sprinkler hydrant branch.
- Broadway, opposite City Home, 4-inch gate, set 22½ feet north from the south line of Broadway, 187 feet west from the east line of entrance to Boston Elevated property, on sprinkler hydrant branch.
- Broadway, 4-inch gate, set 46 feet south from the north line of Broadway, 24 feet east from the west line of New Cross street, on sprinkler hydrant branch.
- Broadway, 4-inch gate, set 17 feet 5 inches west from the east line of Main street, 78 feet south from the south line (extended) of Edgar avenue, on sprinkler hydrant branch.

- Ⓢ Clyde street, 6-inch gate, set 16 feet east from the west line of Murdock street, 3 feet out from hydrant, on hydrant branch.
- Ⓢ Concord avenue, 6-inch gate, set on east line of Knapp school, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Concord avenue, 6-inch gate, set 7 feet east from east line of Marion street, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Cummings street, 8-inch gate, set on west line of Middlesex avenue, in centre of Cummings street at its junction with Middlesex avenue, or 20 feet south from the north line of Cummings street, measured at right angle to north line of Cummings street.
- Ⓢ Cummings street, 6-inch gate, set 24 feet west from the west line of Middlesex avenue, measured at right angle with Middlesex avenue, on hydrant branch.
- Ⓢ Eastman road, 6-inch gate, set 280 feet south from Highland avenue, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Elm street, 6-inch gate, set 7 feet west from Elston street, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Elm street, 4-inch gate, set 23½ feet south from the north line of Elm street, 20½ feet east from the west line of Cedar street, on sprinkler hydrant branch.
- Ⓢ Fairfax street, 8-inch gate, set 13 feet 4 inches north from the south line of Fairfax street, on the west line of North street.
- Ⓢ Franklin street, 6-inch gate, set 157 feet south from Pearl street, 4½ feet out from hydrant, on hydrant branch.
- Ⓢ Garfield avenue, 6-inch gate, set 24 feet south from Mystic avenue, 1½ feet out from hydrant, on hydrant branch.
- Ⓢ Gordon street, 12-inch gate, set on east line of Alewife Brook parkway, 13 feet 4 inches north from the south line of Gordon street.
- Ⓢ Gordon street, 12-inch gate, (section gate) set 598 feet west from the west line of North street, 13 feet 4 inches north from the south line of Gordon street.
- Ⓢ Gordon street, 12-inch gate, set on west line of North street, 13 feet 4 inches north from the south line of Gordon street.
- Ⓢ Gordon street, 6-inch gate, set 108 feet east from the east line of Alewife Brook parkway, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Gordon street, 6-inch gate, set 373 feet east from the east line of Alewife Brook parkway, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Gordon street, 6-inch gate, set 559 feet west from the west line of North street, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Gordon street, 6-inch gate, set 238 feet west from the west line of North street, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Gordon street, 6-inch gate, set 5 feet east from the east line of Alewife Brook parkway, 16 feet north from the south line of Gordon street, on blow-off (blow-off not completed).
- Ⓢ High street, 12-inch gate, set 13 feet 4 inches north from the south line of High street, on the west line of North street.
- Ⓢ Highland avenue, 4-inch gate, set 30 feet north from the south line of Highland avenue, 16 feet 5 inches west from the east line of Cherry street (between car tracks), on sprinkler hydrant branch.
- Ⓢ Holland street, 4-inch gate, set 21 feet west from the east line of Holland street, 203 feet south from the south line of Winter street (projected), on sprinkler hydrant branch.
- Ⓢ Holyoke road, 6-inch gate, set 164 feet west from the west line of Elm street, 4 feet out from hydrant, on hydrant branch.
- Ⓢ Lake street, 6-inch gate, set 220 feet west from the west line of Hawkins street, 4 feet out from hydrant on hydrant branch.
- Ⓢ Lincoln street, 6-inch gate, set 38 feet south from the south line of Broadway, 3½ feet out from hydrant, on hydrant branch.
- Ⓢ Medford street, 6-inch gate, set in sidewalk, 7 feet north from the south

- line of Medford street, 4 feet west from the west line of School street, on hydrant branch.
- Medford street, 4-inch gate, set 28 feet 4 inches east from the west line of Medford street, 4 feet 3 inches south from the south line of Prospect Hill avenue, on sprinkler hydrant branch.
- Medford street, 4-inch gate, set 20 feet 4 inches east from the west line of Medford street, 12 feet 5 inches south from the north line (projected) of Lowell street, on sprinkler hydrant branch.
- Middlesex avenue, 6-inch gate, set 58 feet north from the gate for Cummings street, 5 feet 6 inches east from the west line of Middlesex avenue, on blow-off.
- Middlesex avenue, 20-inch gate, (section gate) set 225 feet north from the centre of 20x20x8 tee on centre line of Cummings street.
- Morrison place, 2-inch gate, set 8 feet 6 inches east from the west line of Morrison place, on the north line of Morrison avenue.
- Newton street, 6-inch gate, set 9 feet west from Joseph street, 4 feet out from hydrant, on hydrant branch.
- North street, 12-inch gate, (section gate) set on north line of Sterling street, 10 feet east from the west line of North street.
- North street, 12-inch gate, (section gate) set on north line of Conwell avenue, 10 feet east from the west line of North street.
- North street, 6-inch gate, (section gate) set 10 feet east from the west line of North street on the north line of Gordon street.
- North street, 6-inch gate, set 82 feet south from the south line of Gordon street, 2 feet out from hydrant, on hydrant branch.
- North street, 6-inch gate, set 35 feet south from College Hill road, 6 feet 6 inches out from hydrant, on hydrant branch.
- North street, 6-inch gate, set 246 feet north from Bailey street, 9 feet south from hydrant, on hydrant branch.
- North street, 4-inch gate, set 19 feet east from the west line of North street, 217 feet north from the north line of Gordon street, on blow-off.
- Osgood street, 6-inch gate, set 39 feet east from the east line of Granite street, 4 feet out from hydrant, on hydrant branch.
- Pearl street, 4-inch gate, set 21 feet south from the north line of Pearl street, 104 feet west from the west line of Marshall street, on sprinkler hydrant branch. (Also 1-4" Smith gate used as a corporation under car tracks.)
- Pleasant avenue, 6-inch gate, set 257½ feet west from Walnut street, 4 feet out from hydrant, on hydrant branch.
- Rogers avenue, 6-inch gate, set 88 feet south from Kidder avenue, on hydrant branch.
- Rose street, 8-inch gate, set 13 feet 4 inches west from the east line of Rose street, on the north line of Lewis street.
- Rose street, 6-inch gate, set 240 feet south from the south line of Washington street, 4 feet out from hydrant, on hydrant branch.
- School street, 6-inch gate, set 32 feet south from Oakland avenue, 4 feet out from hydrant, on hydrant branch.
- Somerville avenue, 4-inch gate, set 1 foot 8 inches south from the south line (projected) of Poplar street, 49 feet east from the west line of Somerville avenue, on sprinkler hydrant branch.
- Somerville avenue, 4-inch gate, set 22½ feet south from the north line of Somerville avenue, 13 feet east from the west line of Laurel street, on sprinkler hydrant branch.
- Sterling street, 8-inch gate, set 13 feet 4 inches north from the south line of Sterling street, on the west line of North street.
- Summer street, 10-inch gate (section gate), set on west line of Elston street, 15 feet south from the north line of Summer street.

- Walnut street, 6-inch gate, set 87 feet north from the north line of Gilman street, 4 feet out from hydrant, on hydrant branch.
- Washington street, 6-inch gate set on west line of Columbus avenue, 4 feet out from hydrant, on hydrant branch.
- Washington street, 6-inch gate, set 36 feet east from the east line of Rossmore street, 4 feet out from hydrant, on hydrant branch.
- Washington street, 6-inch gate, set 89 feet west from the west line of Medford street, 3 feet out from hydrant, on hydrant branch.
- Washington street, 4-inch gate, set 17 feet south from the north line of Washington street, 18 feet 6 inches west from the east line of Columbus avenue, on blow-off.
- Washington street, 4-inch gate, set 22 feet south from the north line of Washington street, 155 feet east from the east line (projected) of Stone avenue, on sprinkler hydrant branch.
- Washington street, 4-inch gate, set 23 feet 5 inches south from the north line of Washington street, 17 feet west from the west line (projected) of Washington avenue, on sprinkler hydrant branch.
- Whitfield road, 6-inch gate, set 81 feet east from the east line of Curtis street, 3 feet out from hydrant, on hydrant branch.
- Whitfield road, 6-inch gate, set 321 feet east from the east line of Curtis street, 4½ feet out from hydrant, on hydrant branch.
- Windsor street, 6-inch gate, set 384 feet south from Glass House court, 5½ feet out from hydrant, on hydrant branch.
- Woods avenue, 10-inch gate, set on west line of North street, 13 feet 4 inches north from the south line of Woods avenue.

Gates -- Recapitulation.

Gates	1"	1½"	2"	4"	6"	8"	10"	12"	14"	16"	20"	Total
Set			2	20	38	4	4	6	—	—	1	75
Removed or Discontinued	1	2	1	1	1	1	—	—	—	—	—	7

FIRE HYDRANTS.

Construction—Renewal—Removal, 1917.

- Alewife Brook parkway, 6-inch Chapman hydrant, set 157 feet south from the northeast corner of grandstand.
- Carter terrace, 6-inch Corey hydrant, set 169 feet south from the south line of Summer street, on end of 6-inch main pipe.
- Clyde street, 6-inch Mathews hydrant set and 6-inch Holyoke hydrant removed, at 16 feet east from the west line of Murdock street.
- Day street, 6-inch Mathews hydrant set and 6-inch Holyoke hydrant removed, at 10 feet south from Davis square.
- Eastman road, 6-inch Mathews hydrant set and 6-inch Mathews hydrant removed, at 279 feet from Highland avenue.
- Elm street, 6-inch Corey hydrant set and 6-inch Holyoke hydrant removed, at 9 feet west from Elston street.
- Franklin street, 6-inch Mathews hydrant set and 6-inch Holyoke hydrant removed, at 157 feet south from Pearl street.
- Gordon street, 6-inch Corey hydrant, set 108 feet east from the east line of Alewife Brook parkway.
- Gordon street, 6-inch Corey hydrant, set 373 feet east from the east line of Alewife Brook parkway.
- Gordon street, 6-inch Corey hydrant, set 559 feet west from the west line of North street.
- Gordon street, 6-inch Corey hydrant, set 238 feet west from the west line of North street.
- Heath street, 6-inch Mathews hydrant, set 98 feet west from Bond street and 6-inch Mathews hydrant, removed from 101 feet west from Bond street.

- Holyoke road, 6-inch Corey hydrant set and 4-inch Holyoke hydrant removed, at 164 feet west from Elm street.
- Lake street, 6-inch Corey hydrant set and 6 inch Holyoke hydrant removed, at 220 feet west from Hawkins street.
- Lincoln street, 6-inch Corey hydrant set and 6-inch Holyoke hydrant removed, at 38 feet south from Broadway.
- Medford street, 6-inch Chapman hydrant, set 4 feet west from School street and 6-inch Chapman hydrant, removed from 5 feet west from School street.
- North street, 6-inch Corey hydrant, set 82 feet south from the south line of Gordon street.
- Pleasant avenue, 6-inch Corey hydrant set and 6-inch Holyoke hydrant removed, at 257½ feet west from Walnut street.
- Rogers avenue, 6-inch Corey hydrant set and 4-inch Boston Machine hydrant removed, at 88 feet from Kidder avenue.
- Rose street, 6-inch Corey hydrant, set 240 feet south from the south line of Washington street.
- School street, 6-inch Mathews hydrant set and 6-inch Mathews hydrant removed, at 32 feet south from Oakland avenue.
- Whitfield road, 6-inch Mathews hydrant, set 321 feet east from the east line of Curtis street.
- Whitfield road, 6-inch Corey hydrant, set 81 feet east from the east line of Curtis street.
- Windsor street, 6-inch Corey hydrant, set 384 feet south from the south line of Glass House court, 40 feet east from the east line of Windsor street.

Hydrants — Recapitulation.

	4"	6"	8"	Total
Set	—	24	—	24
Removed	2	11	—	13

STREET-CAR SPRINKLER CONNECTIONS INSTALLED IN 1917.

Location	Service	Size
Beacon Street, opposite Forrest Street.....	Low	4"
Beacon Street, near Dickinson Street.....	Low	4"
Broadway, opposite City Home.....	High	4"
Broadway, opposite Liberty Avenue	Low	4"
Broadway, junction with Main Street.....	High	4"
Broadway, at Cross Street, Inbound.....	Low	4"
Broadway, at Cross Street, Outbound.....	Low	4"
Elm Street, opposite Cedar Street.....	Low	4"
Highland Avenue, opposite Cherry Street.....	Low	4"
Holland Street, south of Winter Street.....	Low	4"
Medford Street, opposite Lowell Street	Low	4"
Medford Street, opposite Prospect Hill Avenue.....	Low	4"
Pearl Street, junction with Medford Street.....	Low	4"
Somerville Avenue, opposite Laurel Street.....	Low	4"
Somerville Avenue, opposite Poplar Street.....	Low	4"
Washington Street, easterly junction Somerville Ave.	High	4"
Washington Street, near Franklin Avenue.....	Low	4"

Main gate: on west line of Fenwick street, 12 feet 6 inches south from the north line of Broadway.	4"	13	2"	1
Sprinkler hydrant: in chamber between tracks, 23 feet west from the east line of Liberty avenue, or 1 foot 4 inches west from the centre of sewer manhole.	4"	13	4"	1
Gate on sprinkler hydrant branch: 22 feet 6 inches north from the south line of Broadway, 23 feet west from the east line of Liberty avenue.	4"	15	4"	1
Sprinkler hydrant: 32 feet 4 inches north from the south line of Broadway, 187 feet west from the east line of entrance to Boston Elevated property.	4"	15	4"	1
Gate on sprinkler hydrant branch: 22½ feet north from the south line of Broadway, 187 feet west from the east line of entrance to Boston Elevated property.	4"	9	4"	1
Sprinkler hydrant: 47 feet south from the north line of Broadway, 20 feet east from the west line of New Cross street.	4"	9	4"	1
Sprinkler hydrant: 47 feet south from the north line of Broadway, 17½ feet east from the west line of New Cross street.	4"	62	4"	1
Gate on sprinkler hydrant branch: 46 feet south from the north line of Broadway, 24 feet east from the west line of New Cross street.	4"	62	4"	1
Sprinkler hydrant: 71½ feet north from the south line of Broadway, 247 feet west from the west line of Sycamore street.	4"	62	4"	1
Gate on sprinkler hydrant branch: 17 feet 5 inches west from the east line of Main street, 78 feet south from the south line (extended) of Edgar avenue.	6"	169	6"	1
Street main: from connection with main pipe in Carter terrace at south line of Summer street to point 169 feet south from the south line of Summer street, 13 feet 4 inches west from the east line of Carter terrace.	6"	169	6"	1
Hydrant: 169 feet south from the south line of Summer street, on end of 6-inch main pipe.	6"	169	6"	1
Hydrant: 16 feet east from the west line of Murdock street.	6"	169	6"	1
Gate on hydrant branch: 16 feet east from the west line of Murdock street, 3 feet out from hydrant.	6"	169	6"	1
Reconstruction, street main: extending 6-inch main pipe in College Hill road from its former connection with old 6-inch high service pipe on the east side of North street to the new 12-inch low service pipe on the west side of North street.	6"	19	6"	1
Street main: from connection with main pipe in Washington street to connection with Columbus avenue main at point 6 feet south from the north line of Washington street and 17 feet west from the east line of Columbus avenue.	6"	12	6"	1
Gate on hydrant branch: 7 feet east from the east line of Marion street, 4 feet out from hydrant.	6"	12	6"	1

Street Mains, Gates, Hydrants, Etc., Laid, Set and Removed in 1917.—Continued.

STREET.	DESCRIPTION.	PIPE.		GATES.		HY-DRANTS.		BLOW-OFFS.		SPRINKLER CONNEX.	
		Laid. Feet. Size.	REMOVED. Feet. Size.	SET. No. Size.	RE-MOV'D No. Size.	SET. No. Size.	RE-MOV'D No. Size.	SET. No. Size.	RE-MOV'D No. Size.	SET. No. Size.	RE-MOV'D No. Size.
Mountain avenue (Con.) Newton street	Replaced main gate: on west line of Porter street, 6 feet 6 inches north from the south line of Mountain avenue. Gate on hydrant branch: 9 feet west from Joseph street, 4 feet out from hydrant.			6" 1 6" 1	2" 1						
North street	Street main: from connection with main pipe at Woods avenue to point 217 feet north from the north line of Gordon street, 10 feet east from the west line of North street. Main gate: (section gate) 10 feet east from the west line of North street, on the north line of Gordon street. Hydrant: 82 feet south from the south line of Gordon street. Gate on hydrant branch: 82 feet south from the south line of Gordon street, 2 feet out from the hydrant. Blow-off: gate set 19 feet east from the west line of North street, 217 feet north from the north line of Gordon street. Replaced street main: from connection with main pipe in Woods avenue to connection with 12x12x12 tee opposite Conwell avenue, 10 feet east from the west line of North street. Main gate: (section gate) on north line of Sterling street, 10 feet east from the west line of North street. Main gate: (section gate) on north line of Conwell avenue, 10 feet east from the west line of North street Extension of hydrant branch: connecting hydrant branch located 35 feet south from College Hill road to new 12-inch low service main pipe. Gate on hydrant branch: 35 feet south from College Hill road, 6 feet 6 inches out from hydrant. Extension of hydrant branch: connecting hydrant branch located 246 feet north from Bailey street to new 12-in. low service main pipe. Gate on hydrant branch: 246 feet north from Bailey street, 9 feet south from hydrant.	237 202		6" 1 6" 1 6" 1 6" 1 4" 1	2" 1 6" 1	6" 1 6" 1 6" 1 6" 1 4" 1	6" 1	4" 1			
		12" 1,082	6" 1,082	12" 1 12" 1	6" 1						
		6" 16		6" 1							
		6" 19		6" 1							

Summary of Statistics

FOR THE YEAR ENDING DECEMBER 31, 1917.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

General Statistics.

Population, census 1915, 86,854; present, estimated 90,000.
 Date of construction: commenced in 1868.
 By whom owned: City of Somerville.
 Source of supply: Metropolitan water system.
 Mode of supply: Water is delivered into the city's mains, under both high and low pressures, by the Metropolitan Water Works.

Statistics of Consumption of Water.

Estimated total population at date, 90,000.
 Estimated population on lines of pipe, 90,000.
 Estimated population supplied, 90,000.
 Total consumption for the year, 2,436,784,000 gallons.
 Average daily consumption, 6,676,100 gallons.
 Gallons per day to each inhabitant, 73.

Statistics Relating to Distribution System, 1917.

MAINS.

Kind of pipe, cast iron.
 Sizes, from 4-inch and under to 20-inch.
 Laid 6,144 feet; discontinued 2,053 feet; net extension, 4,091 feet.
 Total now in use, 102.39, miles.
 Number of leaks per mile, .09.
 Number of hydrants added during year (public, 11; private, 0), 11.
 Number of hydrants (public and private) now in use, 1,235.
 Number of stop gates added during year, 68.
 Number of stop gates now in use, 1,801.
 Number of blow-offs, 177.
 Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES.

Kind of pipe: Lead, wrought iron—lead-lined; wrought iron—cement-lined; cast iron.
 Sizes, one-half to eight inches.
 Extended less discontinued, 2,885 feet.
 Total now in use, 88.36 miles.
 Number of service taps added, 118; discontinued, 29; net increase, 89.
 Number now in use, 13,509.
 Number of meters added, 491; discontinued, 225; net increase, 266.
 Number now in use, 10,028.
 Percentage of services metered, 74.23.
 Percentage of receipts from metered water, 82.
 Number of motors and elevator registers added, 0; removed, 1.
 Number now in use, 4 (included in number of meters).

FINANCIAL STATISTICS.

REVENUE.		EXPENDITURES.	
From Water Rates:—		Water Works Maintenance:—	
Fixture rates.....	\$47,526 77	Operation (management,	
Meter rates.....	215,191 00	repairs and renewals)....	\$52,410 85
		Special:—	
Total from consumers.....	\$262,717 77	Miscellaneous accounts	3,542 59
From other sources:—			
Water service assessments.....	3,494 53	Total maintenance.....	\$55,953 44
Labor and materials.....	3,542 59	Interest on bonds.....	640 00
		Payment on bonds.....	5,000 00
		Water Works Buildings.....	1,496 99
		Water Works Construction:—	
		Mains	\$14,067 14
		Services	3,998 04
		Meters	1,709 16
		Car-sprinkler connections	2,751 96
		Total construction.....	22,526 30
		Unclassified expenses:—	
		Metropolitan water assessment.....	118,425 67
		Balance:—	
		Ordinary	\$65,546 50
		Total balance.....	65,546 50
Total	\$269,754 89	Total	\$269,754 89
		Disposition of balance: applied to municipal purposes.	
		Cost of works to date.....	\$1,061,188 59
		Bonded debt at date.....	11,000 00
		Average rate of interest, 4 per cent.	

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

OFFICE OF CHIEF OF FIRE DEPARTMENT,
Somerville, Mass., January 28, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

Gentlemen,—I have the honor of presenting to you for your consideration the annual report of the fire department for the year ending December 31, 1917:—

Alarms of Fire.

Number of bell alarms	208
Number of still alarms	317
	<hr/>
Total alarms	525
Number less than 1916	53
Value of buildings at risk	\$1,092,050 00
Insurance on buildings	475,300 00
Damage to buildings	52,080 50
Value of contents	301,950 00
Insurance on contents	199,500 00
Damage to contents	60,993 75
Total value at risk	1,394,000 00
Total insurance	674,800 00
Total damage	113,074 25

List of Probable Causes.

Accidental	5
Automobiles and trucks	8
Bonfires	7
Carelessness with matches	11
Candle falling on table	2
Children playing with matches	20
Cigars, cigarettes and pipes	17
Combustion	4
Closet fires	5
Clothing near stove	3
Curtain in contact with gas	2
Defective chimneys	18
Dump fires	7
Electric car	2
Electric and gas irons	3
Electric wires	3
Fire in Cambridge	2
False alarms	26
Filling gasoline tank	1
Firecracker on roof	2
Gas explosion	1
Grass fires	3
Hot ashes	5
Incendiary	6

Kettle of fat	2
Kerosene lamps and stoves	9
Lace curtain in contact with gas	2
Short circuit in wires	4
Smoke from automobile	1
Smoking in bed	4
Spark from furnace	3
Spark from locomotive	4
Spark from roofer's kettle	2
Steam mistaken for fire	1
Using paint remover	4
Unknown	4
Water front in stove bursting	2
Water main bursting in street	1
Wood on furnace to dry	2

IN MEMORIAM.

JOHN GILLOOLY

Captain

Engine Co. No. 4.

Appointed July 1, 1884.

Died March 13, 1917.

FREDERICK L. JENSEN

Engineman

Engine Co. No. 4.

Appointed November 14, 1899

Died August 2, 1917.

CHARLES G. J. McNAMARA

Ladderman

Ladder Co. No. 2.

Appointed December 12, 1907.

Died April 12, 1917.

Manual Force.

During the year three (3) men have died, one (1) has enlisted in the navy, one (1) has been taken by the selective draft, one (1) has been discharged and one (1) is on an indeterminate leave: Six (6) permanent men have been appointed from the eligible list of the classified service and one (1) callman has been promoted to the permanent force under Chapter 487, Acts 1913. The force of the department now consists of seventy-eight (78) permanent men and fourteen (14) callmen, as follows:—

- 1 Chief Engineer.
- 1 First Assistant Engineer.
- 1 Second Assistant Engineer.
- 7 Captains.
- 1 Master Mechanic.
- 11 Lieutenants.
- 2 Enginemen.
- 4 Assistant Enginemen.
- 50 Permanent men.
- 14 Callmen.

Apparatus.

- 1 Second size, horse drawn steam fire engine.
- 1 Third size, horse drawn steam fire engine.
- 2 Horse drawn combination chemical engine and hose wagons.
- 1 Horse drawn hose wagon.
- 1 Horse drawn combination ladder truck and chemical engine.
- 1 Horse drawn ladder truck.
- 1 Motor driven ladder truck.
- 4 Motor driven combination chemical engine and hose wagons.
- 1 Second size tractor drawn steam fire engine.
- 1 Motor driven 900 gallon pumping engine and hose wagon.
- 1 Motor driven supply and wrecking car.
- 1 Automobile Chief's car.
- 1 Automobile Assistant Chief's car.
- 2 Four wheel buggies for Assistant Chiefs.
- 2 Horse drawn relief hose wagons.
- 1 Horse drawn relief ladder truck.
- 5 Exercising wagons.
- 1 Supply wagon.

Horses.

There are twenty-one (21) horses in the department at the present time; there have been no horses purchased during the year. The horses are getting older each year and some of them are rapidly approaching the stage where they can no longer be useful to the service.

Hose.

The amount of serviceable hose is 9,900 feet of two and one-half inch rubber lined cotton hose, and 1,950 feet of three-quarter inch chemical hose. There has been purchased 600 feet of new hose and 700 feet condemned. There should be at least 1,000 feet of new hose purchased the coming year.

Brief Resume.

Although the value of property at risk was over one-half million dollars more than 1916, the loss was less than \$600 over the loss of 1916. The fire loss for the month of March was nearly one-half the total loss of the year as shown by the following table giving the losses by months:—

January	.	.	.	.	.	.	.	\$5,132	00
February	.	.	.	.	.	.	.	5,059	50
March	.	.	.	.	.	.	.	54,737	00
April	.	.	.	.	.	.	.	4,294	70
May	.	.	.	.	.	.	.	2,210	00
June	.	.	.	.	.	.	.	2,756	00
July	.	.	.	.	.	.	.	14,561	50
August	.	.	.	.	.	.	.	1,116	00
September	.	.	.	.	.	.	.	2,978	00
October	.	.	.	.	.	.	.	2,472	25
November	.	.	.	.	.	.	.	14,688	30
December	.	.	.	.	.	.	.	3,069	00
									\$113,074	25

There have been eighteen fires with an insurance loss exceeding \$1,000, as follows:—

January 3, 2.25 P. M. Box 122, 2-4 Washington street, stable owned by Annie L. Staples; occupied by R. C. Christie. Damage to building, \$2,035; to contents, \$402. Cause, careless smoker.

January 20, 4.56 A. M. Box 429, 57-59 Hall avenue, dwelling owned by Mrs. Abbie J. Greenwood; occupants, F. A. Weigel and Wm. H. Ashman. Damage to building \$1,462; to contents, \$65. Cause, spark in waste paper barrel in cellar.

February 2, 5.53 P. M. Box 441, Howard and Gorham streets, jewelry factory owned by M. W. Carr Company; occupants, Holton, Abbott Mfg. Company, Winslow Maple Syrup Company, Cambridge Screen Company, and Atwood Preserving Company. Damage to building, \$953; damage to contents, \$1,088. Cause, careless dropping match in basement.

March 1, 6.40 P. M. Box 441, a second alarm was sounded for this fire, 80-90 Elmwood street; doors, windows and blinds plant owned and occupied by the F. H. Newton Company. Damage to building, \$12,095; to contents, \$29,403. Cause, unknown.

March 8, 9.05 P. M. Box 452, 22-24 Belknap street, dwelling owned by Mrs. Matilda Swenson; occupants, Agnes Robinson and Herbert Rumford. Damage to building, \$1,430; to contents, \$752. Cause, careless caretaker.

March 12, 9.59 A. M. Box 224, 105 Prospect street, owned and occupied by Michael Kelley. Damage to building, \$648.50; to contents, \$400. Cause, children playing with matches.

March 17, 3.00 A. M. Box 212, 21 Water street, Boynton Yard, coal yard owned and occupied by McCarthy Brothers.

Damage to building, \$3,700; to contents, \$1,750. Probable cause, careless smoker.

March 20, 3.20 P. M. Box 424, 4-6 Banks street, 3 apartment dwelling owned by Frank McDermott; occupants, H. A. Smith and C. E. Cowan. Damage to building, \$1,291; to contents, \$150. Cause, child playing with matches.

April 1, 5.01 P. M. Box 73, 93 Bromfield road, dwelling owned by Somerville Associates; occupants, George N. Baker and M. S. Holder. Damage to building, \$1,726; to contents, \$480.70. Cause, careless smoker.

June 15, 12.30 P. M. Box 29, 311 Washington street, dwelling owned by W. C. Holmes; occupants, W. C. Holmes and Mrs. Annie Kilroy. Damage to building, \$738; to contents, \$320. Cause, child playing with matches.

July 1, 2.25 P. M. Box 25, a second alarm was sounded for this fire, 9 Stone place, cocoanut cake manufactory owned and occupied by A. Martin. Damage to building, \$2,000; to contents, \$3,072.00. Probable cause, electric wires.

July 8, 12.09 A. M. Box 37, 526-532 Medford street, block of stores owned by M. J. Barron; occupants, Sam Weiner, Eletov & Sloane, Moses Lander and C. Simeone. Damage to building, \$2,153; to contents, \$3,048. Probably incendiary.

July 24, 1.19 A. M. Box 232, 38 Lake street, laundry owned and occupied by Michael Donahue. Damage to building, \$1,831; to contents, \$1,715. Cause, combustion in laundered clothes.

September 7, 5.05 P. M. Box 219, 65-65-A Oak street, 3 apartment dwelling owned by Frank L. Fagundia; occupants, Jacob Glassman, Jacob Baker and the owner. Damage to buildings, \$1,522; to contents, \$375. Cause, box of rubbish in back yard.

October 17, 12.44 A. M. Box 235, 18 Harrison street, dwelling owned and occupied by Mrs. Nora Motherway and James Leary. Damage to building, \$655; to contents, \$422. Cause, overheated kerosene lamp.

November 9, 6.36 A. M. Box 342, 43 Sargent avenue, dwelling owned and occupied by Charles H. Frye. Damage to building, \$1,395; to contents, \$200. Cause, spark from furnace set fire to shingles in cellar.

November 18, 1.16 A. M. Box 47, Box 427 was sounded for this fire and a second was sent in from this box, 351-355 Summer street, cracker bakery, owned and occupied by O. B. Gilman. Damage to building, \$3,945; to contents, \$8,000. Cause, combustion.

December 22, 5-17 P. M. Box 412, 13 Porter street, apartment building owned by Pasquale Benedetto; occupants, J.

Sully, Newforo and Frank D. Girolomo. Damage to building, \$1,154; to contents, \$500. Cause, overheated stove.

FALSE ALARMS have again contributed the greatest number; alarms of this kind are all too numerous and not infrequently expensive; one such alarm from Box 332 in the latter part of the year caused damage to the fire apparatus amounting to more than \$1,000. The local papers, through their editorials, have called attention to the seriousness of these criminal deeds, calling fire apparatus falsely to one part of the city when its service may be urgently needed in some other part to preserve and protect life and property. Persons, or those responsible for them, should be made to reimburse the city for the expense incurred.

CHILDREN PLAYING WITH MATCHES: twenty bell alarms have been recorded directly attributable to this cause, and the pitiful feature is that the loss of the lives of four children was the toll exacted from the thoughtless, negligent and careless parents leaving matches around the home where children may get them and destroy themselves and possibly the home. The Fire Chiefs of the State are urging the Legislature to enact a law prohibiting the use and sale of any match other than the scratch-on-the-box match; the passage of this bill will very materially reduce this class of fires and act as a reminder to the parents of the ever present danger of the combination of child and match.

DEFECTIVE CHIMNEYS cause many and expensive fires; this class of fires is unnecessary inasmuch as if the chimneys are properly cared for as is the remainder of most of the dwellings there would be no occasion to call out the fire apparatus; furthermore chimney fires are the most inaccessible being in the middle of the buildings and cased in, therefore requiring considerable damage to the interior of the house to extinguish.

Recommendations.

Immediate action should be taken to establish fire districts, this is of the utmost importance. The National Board of Fire Underwriters insist upon the creation of at least two such fire districts or fire barriers. Our city has imposed upon it an extra 5 cents insurance rate due to the conflagration hazard, so called, therefore it is necessary to comply with the imposed condition if we ever expect to remove this additional insurance tax now imposed upon our citizens.

The department today consists of eleven pieces of motor-driven apparatus and eight horse-drawn; the operating expense, for the past year, of the motor-driven has been \$1,368, as against \$3,745 for the horse-drawn. Full motorization of the entire department equipment at the earliest possible time

should be effected not only because of the economic feature, but because of the more prompt, speedy and effective handling of fires. I again recommend, as in last year's report, the attaching of a tractor to Ladder 3 at Engine No. 2 Station, thereby removing all of the horses from this building; next in importance is the motorizing the Teele Square station; eight horses would be released by such action and a very great maintenance expense would thereby be saved.

Seven of the eight fire stations are in very good condition, but that of Engine No. 4, at the corner of Grove street and Highland avenue, is very poor; the expense of fixing this building suitable for men and machinery is hard to estimate, in fact in my conference with the Building Commissioner, it is our opinion that the repairs and changes in this building, having been erected 44 years, would be very considerable and the results far from satisfactory. I am of the opinion that this building might be torn down and replaced with a modern building, smaller, without hay-loft and stable, suitable for motor apparatus. The material in the present building would go far in the erection of the new one.

Fire prevention, its rules and regulations, their application and enforcement, although in many instances annoying and sometimes causing expense, has been a great factor in reducing useless and many times expensive fires; its assistance in the extinguishment of fires is invaluable. The matter of safeguarding our school buildings against disastrous fires is all important; in 1915 the building commissioner and myself were directed to make inspections and recommendations, in detail, of schoolhouse conditions; after seven weeks of inspections and investigations we were of the opinion that the source of four-fifths of all the fires in this class of buildings was in the basement; we recommended the isolation of the basements from the remaining portions of the building by the erection of partitions protected by metal lath and cement plaster and fireproof spring closing doors so that neither fire nor smoke can find its way up, thereby making it possible for the scholars to make safer exit in event of fire; furthermore, the basements should be equipped with automatic sprinklers; a start has been made in this direction but the completion of this work is remote; the danger is very great and ever present; this work should be done as speedily as possible.

In Conclusion.

In closing, I desire to express my sincere appreciation for the unfailing courtesy and confidence shown me by the Mayor

and Board of Aldermen. I wish to commend the members of the department for their faithfulness, energy and efficiency in the performance of the arduous duties of an exceptionally hazardous calling.

Respectfully submitted,

SEWALL M. RICH,

Chief Engineer.

REPORT OF THE CHIEF OF POLICE.

To the Honorable, the Mayor, and Board of Aldermen of the City of Somerville:—

Gentlemen,—I respectfully submit the annual report of the Somerville police department for the year ending December 31, 1917:—

ARRESTS

Whole number of arrests made	1,784
With and without warrants	1,430
On summons and notification	354
	1,784
Males	1,698
Females	86
	1,784
Americans	1,133
Foreign born	651
	1,784
Residents	1,136
Non-residents	648
	1,784

1.—Crimes and Offenses Against the Person

Assault, felonious	1
Assault on officers	10
Assault with dangerous weapon	4
Assault with intent to murder	3
Assault with intent to rape	1
Assault with intent to rob	2
Assault and battery	124
Attempt to rescue prisoners	2
Manslaughter	1
Rape	2
Robbery	5
Threats	9
	164

2.—Crimes and Offenses Against Property.

Breaking and entering	57
Breaking and entering, accessory to	1
Breaking and entering, attempt	18
Breaking and entering railway cars	10
Breaking glass	3
Evading railroad fare	1
Injury to real estate	7
Larceny	131

Larceny, attempt	1
Larceny from person, attempt	1
Larceny in building	1
Malicious mischief	5
Receiving stolen goods	11
Selling leased property	1
Throwing glass in street	1
Trespass	66
Trespass, wilful	24
Unlawful appropriation of automobile	1
Unlawful appropriation of horse	1
Unlawful appropriation of team	1
Unlawfully riding on freight cars	20
Walking on railroad track	2

3.—Crimes and Offenses Against Public Order, etc.

Accosting female	1
Bail surrender	25
Bastardy	16
Capais	9
Carrying revolver without license	5
City ordinances, violation of	62
City ordinances, violation of, attempt	1
Contempt of court	1
Cruelty to animals	7
Default	15
Deserters from United States Army	3
Desertion of wife	2
Disorderly conduct on public conveyance	6
Disturbing the peace	4
Drunkenness	598
Drunkenness, common	17
Escape from Lyman School	1
Escaped prisoners	3
False statement to obtain marriage certificate	1
Fugitive from justice	2
Gaming implements, present where found	56
Giving false weight of ice	3
Indecent exposure of person	7
Interrupting funeral procession	1
Lewd cohabitation	4
Lottery, promoting	2
Neglect of family	97
Neglected children	28
Neglect to support illegitimate child	2
Obstructing street railway car	1
Profanity	1
Runaway child	1
Safe keeping, contempt of court	1
Safe keeping, delirium tremens	1
Safe keeping, demented	7
Safe keeping, feeble minded	1
Safe keeping, inebriate	2
Safe keeping, infirm	2
Safe keeping, insane	7
Safe keeping, runaway children	3
Safe keeping, runaway from Lyman School	

for Boys	1
Stragglers from United States Army	7
Stubbornness	27
Vagrancy	3
Violation of Board of Health rules	3
Violation of bowling alley laws	2
Violation of cigarette laws	1
Violation of labor laws	8
Violation of liquor laws	6
Violation of Lord's Day	54
Violation of milk laws	19
Violation of motor vehicle laws	61
Violation of parole from Lyman School	1
Violation of parole from Middlesex County Training School	1
Violation of parole from State Farm	1
Violation of parole from Suffolk School for Boys	1
Violation of pool room laws	1
Violation of school laws	5
Violation of terms of probation	47
Witness, assault intent to murder	1

1,256

Recapitulation

(1) Crimes and Offenses Against the Person	164
(2) Crimes and Offenses Against Property	364
(3) Crimes and Offenses Against public Order, etc.	1,256
<hr/>	
Whole number of arrests made	1,784
Bailed to appear at other courts	18
Cases in which <i>nolle prosequi</i> was entered	36
Contempt of court	1
Delivered to jail at East Cambridge, bail surrender, indictment, etc.	23
Delivered to police court, Somerville, viola- tion of probation, <i>capias</i> , default, etc.	62
Delivered to superior court, bail surrender, <i>capias</i> , etc.	2
Defaulted in police court, Somerville	4
Discontinued and dismissed in police court, Somerville	1
Released without arraignment	1
Released by probation officer, drunkenness	79
Surrendered to other officers, institutions, etc.	80

307

Number of cases held for trial 1,477

Note.—Two hundred and seventy-eight of the above number of cases were juveniles and delinquents.

Reserveman Allan S. Burns, promoted to patrolman, July 28, 1917.
Lieutenant Eugene A. Carter, promoted to captain, September 28, 1917.

Reserveman William H. Donovan, promoted to patrolman, September 29, 1917.

Reserveman George R. Allan, promoted to patrolman, November 24, 1917.

Police Signal Service.

Number of on duty calls made by the patrolmen . . .	261,220
Telephone calls made by the officers and patrolmen . . .	39,210

REPORT OF POLICE MATRON.

January 1, 1918.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1917. The following females and minor children have been committed to my care during the year who were arrested or brought to the police station, for the following offenses, etc.:

Absentee from school	1
Assault and battery	9
Drunkness	28
Insane	1
Larceny	8
Lewd and lascivious cohabitation	4
Lost children	76
Neglected children	15
Neglect of minor child	1
Non-support	1
Runaway	1
Safe keeping	1
Stubbornness	11
Threats	1
Violation of city ordinances	2
Violation of labor laws	1
Violation of probation	1
Witness	1
Total	<hr/> 163

I have attended to the regular duties each day at the station and have remained through the juvenile court sessions on Saturdays looking after the younger boys and girls who were present at court.

Respectfully submitted,

MRS. MINA T. WEEKS,

Matron.

Conclusion.

During the past year police departments all over the country have had unusual duties to perform and this department has had its share of increased duties.

There was a strike at the American Tube Works in April which was handled by this department in a very satisfactory manner.

The war activities included looking after war gardens, assistance rendered to the United States Department of Justice, and selective boards in every way, making investigations in regard to non-registrants, deserters and stragglers from the United States Army and Navy, etc., etc. Assistance to national, state and local boards of food and fuel administration and public safety committees. Nearly every member of the department is a member of the Red Cross and all have purchased Liberty Bonds to help his country. Giovanni Percoco was arrested in Italy for the murder of one Samuel Wolkon in Somerville on April 29, 1916, and is being held there for trial. Attention is called to the large amount of stolen property recovered by members of this department.

An emergency special police force of over three hundred members and a juvenile police force of one hundred and fifty members has been established.

Two machine guns, a touring car, new revolvers, clubs, etc., have been added to the department. A captain of police has been appointed.

The officers have all performed their duties in a highly creditable manner and only minor infractions of the rules have occurred. With the spirit of unrest which is abroad in the land, I feel that Somerville has been a quiet, sane and safe city in which to live.

To the Mayor, Honorable Zebedee E. Cliff, members of the Board of Aldermen, all members of the police department and all others which this department has had business relations I wish to extend my sincere thanks for assistance rendered.

Respectfully submitted,

CHARLES A. KENDALL,

Chief of Police.

REPORT OF SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES.
City Hall Annex, Somerville, January 1, 1918.

To His Honor, the Mayor, and the Board of Aldermen:—

The following report of the sealer of weights and measures for the year 1917 is respectfully submitted:—

Chapter 62 of Revised Laws:—

Section 21. Sealer of weights and measures shall annually give public notice by advertisement, or by posting, in one or more public places in their respective cities and towns, notices to all inhabitants or persons having usual places of business therein who use weights, measures or balances for the purpose of selling goods, wares, merchandise or other commodities or for public weighing, to bring in their weights, measures and balances to be adjusted and sealed. Such sealers shall attend in one or more convenient places, and shall adjust, seal and record all weights, measures and balances so brought in.

Section 23. Said sealers shall go once a year, and oftener if necessary, to every hay and coal scale and to every platform balance within their respective cities and towns which cannot be easily or conveniently removed, and shall test the accuracy of, adjust and seal the same.

Section 34. Each sealer of weights and measures, including the county treasurers, shall receive a fee of one dollar for sealing each platform balance if weighing five thousand pounds or more, and fifty cents if weighing less than that amount, and three cents each for sealing all other weights, measures, scales, beams or balances. He shall also have a reasonable compensation for all necessary repairs, alterations and adjustments made by him.

When weights and measures are sealed as provided in Section 21 (that is, brought to the office) no fees are charged for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertising in the Somerville papers in March, 1917.

During the year all places where goods were bought or sold were visited and all scales, weights and measures were tested, and all found correct were sealed and all found not correct were condemned. Ninety-one scales, weights and measures were adjusted before sealing. Two hundred and eleven scales, weights and measures were condemned, and non-seals labels

placed on 58 others that were not used for buying or selling. Four hundred and twelve reweighings and inspections in stores and on the streets were made in 1917.

Work of weights and-measures department for 1917.
Weights and measures sealed:—

	No. of Tests Made in Office	No. of Tests Outside of Office	
Number of scales sealed	436	1,595	
Number of weights sealed	500	3,843	
Number of dry measures sealed	44	92	
Number of liquid measures sealed	161	713	
Number of ice-cream measures sealed	4,920		
Number of oil and gasoline pumps sealed		156	
Number of yard sticks sealed		155	
Number of miscellaneous sealed		13	
Total	6,061	6,567	12,628
<hr/>			
Number of scales adjusted and sealed	20	17	
Number of weights adjusted and sealed	5	46	
Number of liquid measures adjusted and sealed	3		
Total	28	63	91
Number of scales condemned	20	55	
Number of weights condemned	5	14	
Number of liquid measures condemned	4		
Number of ice cream measures condemned	102		
Number of pumps condemned		9	
Number of yard sticks condemned		2	
Total number condemned	131	80	211
Number of scales and weights non sealed:			
Number of scales non sealed		18	
Number of weights non sealed		40	
Inspections in stores and street			58 412
Total			13,400

JOHN H. DUSSEAULT,
Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville:

The annual report of the law department for the year ending December 31, 1917, is as follows:

An action brought against the city by the contractor who constructed the S. Newton Cutler School House in West Somerville was tried before an auditor and afterward before a jury in the Middlesex superior court. A verdict in the nature of a compromise was given for the sum of \$4,705.44, which was later paid in accordance with an order passed by the board of aldermen.

Two petitions for the abatement of taxes assessed in the years 1915 and 1916 on a large tract of land in West Somerville were heard before a commissioner appointed by the superior court and on his report questions of law have been raised which I expect to carry to the full bench of the supreme court.

In the action brought by the Union Glass Company for damages to its real estate resulting from the abolition of the railroad grade crossing at Webster avenue the supreme court has sustained the petitioner's exceptions and the case will probably be tried again before a jury.

Actions brought by the railroad company for damages to its real estate resulting from the abolition of grade crossings have been settled with the written approval of the attorney general. As a part of the settlement all the parcels of real estate which were taken for the benefit of the city and state and railroad and street railway and had been conveyed to the railroad company in connection with settlements for land damages have become the property of the railroad company.

For violation of milk laws several cases have been prosecuted in the Somerville police court by the milk inspector and myself. For violation of regulations of the Board of Health in regard to stables several cases have been prosecuted in the same court by the agents of the board and myself.

Settlements of claims for injuries received by reason of defects in public ways have been made in a number of cases.

A bill in equity brought by an owner of land to restrain the use of the Glen street playground has been dismissed without costs by agreement.

Very respectfully,

FRANK W. KAAH,
City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK,
January 1, 1918.

To the Honorable, the Mayor, and the Board of Aldermen :

Gentlemen : The following is respectfully submitted as the forty-sixth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1917.

The receipts and payments were as follows:—

Receipts.

Balance from year 1916, being for dog li-			
censes issued in December, 1916:—			
20 males at \$2.00		\$40 00	
6 females at \$5.00		30 00	
1 spayed at \$2.00		2 00	
		\$72 00	
Less city clerk's fees paid to the city treas-			
urer, 27 at \$.20		5 40	
		\$66 60	
For dog licenses issued in 1917:—			
777 males at \$2.00		\$1,554 00	
153 females at \$5.00		765 00	
63 spayed at \$2.00		126 00	
		2,445 00	
Recording mortgages, assignments, etc., 849			
papers		\$516 25	
Certificates of marriage intentions:—			
1,243 at \$1.00	\$1,243 00		
Money refunded on 1 not is-			
sued	1 00		
		1,242 00	
Furnishing copies of records		224 60	
Licenses:—			
Auctioneers, 26 licenses at \$2.00		52 00	
Billiard and pool tables and			
bowling alleys, 34 li-			
censes for 95 tables and			
72 alleys at \$2.00	\$334 00		
2 licenses granted in 1916,			
paid in 1917, for 3 tables	6 00		
		\$340 00	
1 refund on 1916 license for			
2 tables	4 00		
		336 00	
Cry goods and calling, 5 licenses granted			
in 1916, and paid in 1917, at \$1.00		5 00	
Drain layers, 7 licenses at			
\$1.00	\$7 00		
Amounts carried forward		\$2,375 85	\$2,511 60

Amounts brought forward	\$2,375 85	\$2,511 60
1 license granted in 1916, paid in 1917	1 00	
	<hr/>	8 00
Drivers, 1 license at \$1.00		1 00
Engines and motors, 23 licenses for 54 mo- tors and 1 steam engine at \$1.00		23 00
Gasoline tanks, 23 licenses at \$1.00	23 00	
1 license granted in 1916, paid in 1917	1 00	
	<hr/>	24 00
Garages, 143 licenses at \$2.00	\$286 00	
5 licenses granted in 1916, paid in 1917	10 00	
	<hr/>	296 00
Hackney carriages, 6 licenses at \$1.00		6 00
Innholders and common victuallers, 36 licenses for 1 innholder and 35 vic- tuallers at \$2.00		72 00
Intelligence offices, 3 licenses at \$2.00		6 00
Junk and second-hand li- censes, 41 licenses at \$10.00	\$410 00	
5 licenses granted in 1916, paid in 1917	50 00	
12 licenses granted at \$25.00	300 00	
1 license granted in 1916, paid in 1917	25 00	
	<hr/>	785 00
Lord's Day, sale of ice cream, confection- ery, soda water and fruit, on 70 li- censes at \$5.00		350 00
Private detectives, 5 licenses at \$10.00		50 00
Slaughtering, 7 licenses at \$1.00		7 00
Street musicians, 4 licenses for 4 persons at \$.50		2 00
Wagons, 44 licenses for 81 wagons at \$1.00		81 00
Wagon stands, 5 licenses at \$1.00		5 00
Permits for projections over sidewalks, 46 permits for 2 awnings and 44 signs at \$1.00	\$46 00	
6 permits granted in 1916, paid in 1917, for 6 signs	6 00	
	<hr/>	52 00
Filing certificates, under Acts of 1908, Chap. 502, 2 at \$.50		1 00
Interest on deposits		6 36
Notices of hearings (public service corpora- tions)		29 39
Physicians' registration, 96 at \$.25		24 00
Chiropodists' registration, 1 at \$.50		50
Repairing and sale of junk badges		4 50
Sale of old ballots		15 16
	<hr/>	4,224 76
Total receipts		\$6,736 36

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1916, to November 30, 1917, both inclusive:—

783 males at \$2.00	\$1,566 00	
158 females at \$5.00	790 00	
64 spayed at \$2.00	128 00	
	<hr/>	
	\$2,484 00	
Less city clerk's fees, 1,005 at \$.20	201 00	
	<hr/>	\$2,283 00
To the city treasurer, monthly:—		
City clerk's fees for issuing and recording dog licenses, 993 at \$.20	\$198 60	
All the receipts above specified, except for dog licenses	4,224 76	
	<hr/>	4,423 36
Total payments		\$6,706 36
Balance, January 1, 1918, being for dog licenses issued in November and December, 1917:—		
14 males at \$2.00	\$28 00	
1 female at \$5.00	5 00	
	<hr/>	
	\$33 00	
Less city clerk's fees paid to the city treasurer, 15 at \$.20	3 00	
	<hr/>	\$30 00

There have been issued during the year 263 resident hunters' certificates at one dollar each, the fees for which have been paid monthly to the commissioners on fisheries and game of the Commonwealth; total, \$263.

Licenses and Permits.

Besides the licenses mentioned in the foregoing list of receipts, licenses and permits have been granted by the Board of Aldermen, without charge, as follows:

Auctioneers (to veterans of the Civil War)	2
Children under fifteen to take part in entertainments	8
Newsboys	14
To hold open-air political meetings	2
To parade in streets, with music, etc.	3
To hold religious services in streets and squares	4
To erect bandstand in street for flag raising	1
To suspend guy wires across street	1
To use buildings for stable, within two feet of lot line	1
To give band concerts (two permits for seven concerts)	2
To move buildings through streets	2
To construct gasoline fill boxes in sidewalk	1
To construct sidewalk hoist in sidewalk	1
To construct coal bin and ash lift in sidewalk	1
To blast rock or stone on public or private lands	1

First marriage of	2,325	
Second marriage of	220	
Third marriage of	9	
	<hr/>	1,277 couples.

Deaths.

(Exclusive of still-births.)

Number of deaths in Somerville in 1917		1,067
Less than previous year		14
Males	506	
Females	561	
	<hr/>	1,067
Under ten years of age	218	
10 and under 20 years of age	34	
20 and under 30 years of age	54	
30 and under 40 years of age	57	
40 and under 50 years of age	102	
50 and under 60 years of age	123	
60 and under 70 years of age	187	
70 and under 80 years of age	182	
80 and under 90 years of age	96	
90 years of age and over	14	
	<hr/>	1,067
Age of oldest person deceased	106 years.	
Born in Somerville	230	
Born in other places in the United States	462	
Of foreign birth	374	
Birthplace unknown	1	
	<hr/>	1,067
Number of deaths in January	122	
Number of deaths in February	129	
Number of deaths in March	104	
Number of deaths in April	105	
Number of deaths in May	98	
Number of deaths in June	82	
Number of deaths in July	56	
Number of deaths in August	84	
Number of deaths in September	44	
Number of deaths in October	68	
Number of deaths in November	82	
Number of deaths in December	93	
	<hr/>	1,067

The number of still-births during the year was sixty-seven. In addition to the above, 272 deaths which occurred elsewhere and one removal were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

ASSESSSED POLLS AND REGISTERED VOTERS.

Men's Lists.

WARD	PRECINCT.	As- sessed Polls, April 1, 1917	REGISTERED VOTERS.							
			Nov. 22, 1916.	Re- vised Lists of Aug.1 1917	Add- ed in Sept. & Oct. 1917	Oct. 17, 1917	Add- ed in Nov. 1917	Nov. 21, 1917	Voted Nov. 6, 1917	Voted Dec. 11, 1917
Ward 1.....	Precinct 1.....	1,368	732	638	15	653	7	660	383	276
" 1.....	" 2.....	897	457	386	30	416	1	417	245	175
" 1.....	" 3.....	476	295	265	7	272	1	273	157	102
" 1.....	" 4.....	646	282	245	1	246	1	247	164	112
		3,387	1,766	1,534	53	1,587	10	1,597	949	665
Ward 2.....	Precinct 1.....	1,137	438	391	6	397	3	400	279	149
" 2.....	" 2.....	1,762	755	714	10	724	9	733	488	210
" 2.....	" 3.....	738	377	323	6	329	2	331	221	101
		3,637	1,570	1,428	22	1,450	14	1,464	988	460
Ward 3.....	Precinct 1.....	1,355	859	803	19	822	10	832	546	299
" 3.....	" 2.....	1,203	712	657	13	670	7	677	460	289
		2,558	1,571	1,460	32	1,492	17	1,509	1,006	588
Ward 4.....	Precinct 1.....	1,316	738	688	26	714	5	719	458	211
" 4.....	" 2.....	1,272	696	629	21	650	3	653	418	214
		2,588	1,434	1,317	47	1,364	8	1,372	876	425
Ward 5.....	Precinct 1.....	1,323	829	754	26	780	8	788	544	252
" 5.....	" 2.....	1,054	665	606	19	625	6	631	409	226
" 5.....	" 3.....	992	625	571	16	587	6	593	390	237
		3,369	2,119	1,931	61	1,992	20	2,012	1,343	715
Ward 6.....	Precinct 1.....	1,890	960	877	25	902	13	915	579	281
" 6.....	" 2.....	1,548	847	780	27	807	6	813	509	287
" 6.....	" 3.....	1,185	804	747	25	772	6	778	517	272
		4,623	2,611	2,404	77	2,481	25	2,506	1,605	840
Ward 7.....	Precinct 1.....	1,029	750	692	16	708	14	722	494	255
" 7.....	" 2.....	1,254	775	718	17	735	17	752	487	291
" 7.....	" 3.....	1,472	870	820	26	846	16	862	552	335
" 7.....	" 4.....	1,003	1,034	598	12	610	13	623	436	282
" 7.....	" 5.....	643	.....	374	19	393	14	407	254	124
		5,401	3,429	3,202	90	3,292	74	3,366	2,223	1,287
City .....	.....	25,563	14,500	13,276	382	13,658	168	13,826	8,990	4,980

Women's Voting Lists.

WARD.	PRECINCT.	Nov. 22, 1916.	Revised Lists of Aug. 1, 1917.	Added in Sept. Oct. and Nov. 1917.	Nov. 21, 1917.	Voted Dec. 11, 1917.
Ward 1.....	Precinct 1.....	64	59	.....	59	5
" 1.....	" 2.....	38	35	.....	35	2
" 1.....	" 3.....	28	24	.....	24	.....
" 1.....	" 4.....	62	50	.....	50	1
		192	168	.....	168	8
Ward 2.....	Precinct 1.....	6	5	.....	5	.....
" 2.....	" 2.....	13	12	2	14	1
" 2.....	" 3.....	11	9	.....	9	.....
		30	26	2	28	1
Ward 3.....	Precinct 1.....	152	136	3	139	5
" 3.....	" 2.....	129	124	2	126	3
		281	260	5	265	8
Ward 4.....	Precinct 1.....	62	52	.....	52	2
" 4.....	" 2.....	100	93	2	95	4
		162	145	2	147	6
Ward 5.....	Precinct 1.....	221	207	5	212	13
" 5.....	" 2.....	158	147	.....	147	8
" 5.....	" 3.....	230	192	1	193	4
		609	546	6	552	25
Ward 6.....	Precinct 1.....	253	204	10	214	7
" 6.....	" 2.....	85	73	.....	73	4
" 6.....	" 3.....	84	72	1	73	3
		422	349	11	360	14
Ward 7.....	Precinct 1.....	43	41	1	42	2
" 7.....	" 2.....	104	84	2	86	4
" 7.....	" 3.....	68	58	1	59	1
" 7.....	" 4.....	28	13	2	15	1
" 7.....	" 5.....	.....	13	2	15	.....
		243	209	8	217	8
City .....	.....	1,939	1,703	34	1,737	70

ELECTIONS.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on various questions, at the state election held November 6, 1917:—

CANDIDATE.	PARTY.	WARD.							Total.
		1	3	3	4	5	6	7	
GOVERNOR.									
James Hayes,	Socialist Labor,	13	13	4	6	8	13	16	73
Chester R. Lawrence,	Prohibition,	9	26	8	18	13	18	35	127
Frederick W. Mansfield,	Democratic,	395	658	276	177	402	423	312	2,673
Samuel W. McCall,	Republican,	500	215	696	650	880	1,090	1,810	5,841
John McCarty,	Socialist,	21	22	16	14	28	44	35	180
Blank,		11	24	6	11	12	17	15	96
LIEUTENANT GOVERNOR.									
Calvin Coolidge,	Republican,	485	224	668	654	863	1,085	1,743	5,722
Matthew Hale,	Democratic,	353	591	279	169	400	414	392	2,598
Sylvester J. McBride,	Socialist,	28	31	18	16	32	49	43	217
Fred E. Oelcher,	Socialist Labor,	8	12	8	7	5	11	6	57
Blank,		75	130	33	30	43	46	39	396
SECRETARY.									
Herbert S. Brown,	Prohibition,	21	56	26	25	26	35	64	253
Albert P. Langtry,	Republican,	474	201	652	643	859	1,063	1,767	5,659
Ingvar Paulsen,	Socialist Labor,	11	40	1	5	11	10	13	91
Arthur B. Reed,	Democratic,	355	579	271	150	369	384	276	2,384
Marion E. Sproule,	Socialist,	25	24	22	18	35	47	43	214
Blank,		63	88	34	35	43	66	60	359
TREASURER.									
Charles L. Burrill,	Republican,	488	205	668	659	877	1,074	1,803	5,774
Solon Lovett,	Prohibition,	11	4	14	14	17	14	33	107
Joseph A. Murphy,	Socialist,	18	21	15	16	28	45	40	183
Humphrey O'Sullivan,	Democratic,	363	661	282	153	376	391	231	2,457
Mary E. Peterson,	Socialist Labor,	16	14	9	9	13	20	62	143
Blank,		53	83	18	25	32	61	54	326
AUDITOR.									
Elzaré H. Choquette,	Democratic,	350	631	266	144	376	377	264	2,408
Alonzo B. Cook,	Republican,	497	209	656	652	833	1,053	1,757	5,657
David Craig,	Socialist Labor,	11	13	4	3	8	11	13	63
Walter S. Peck,	Socialist,	14	22	14	16	33	46	38	183
Henry G. Smith, Jr.,	Prohibition,	12	12	25	23	42	36	72	222
Blank,		65	101	41	38	51	82	79	457

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
ATTORNEY-GENERAL.									
Henry C. Attwill,	Republican,	474	191	660	642	858	1,059	1,758	5,642
Frank Auchter,	Prohibition,	13	3	12	16	12	11	33	100
William R. Henry,	Socialist.	17	29	16	20	37	48	43	210
Thomas J. Maher,	Socialist Labor,	36	12	4	8	9	15	30	114
Josiah Quincy,	Democratic,	355	666	287	158	387	406	295	2,554
Blank,		54	87	27	32	40	66	64	370
COUNCILLOR, FOURTH DISTRICT.									
George B. Wason,	Republican,	578	332	728	695	974	1,173	1,879	6,359
Chas. L. Underhill	.....	.....	.....	.....	.....	1	.....	.....	1
David B. Kelley,	.....	.....	.....	.....	.....	1	.....	.....	1
Dan McIntyre,	.....	.....	.....	.....	.....	1	.....	.....	1
W. J. Shanahan,	.....	.....	.....	.....	.....	.....	1	.....	1
Blank,	.....	371	656	278	181	366	431	344	2,627
SENATOR, 3RD. MIDDLESEX DIST.									
Joseph O. Knox,	Republican,	601	338	754	709	1,010	1,208	1,909	6,529
Frederick J. Hubert,	.....	.....	.....	.....	.....	1	.....	.....	1
Patrick H. Ryan,	.....	.....	.....	.....	.....	1	.....	.....	1
David J. Kelley	.....	.....	.....	.....	.....	1	.....	.....	1
Joseph T. Cotter,	.....	.....	.....	.....	.....	.....	1	.....	1
Blank,	.....	348	650	252	167	330	396	314	2,457
REPRESENTATIVES, 23RD. DIST. (3)									
Charles M. Austin,	Republican,	588	.....	732	675	962	.....	.....	2,957
William Fleming,	Republican,	579	.....	697	650	957	.....	.....	2,883
Charles L. Underhill,	Republican,	552	.....	662	627	892	.....	.....	2,733
Chas. Leo Shea,	.....	.....	.....	.....	.....	1	.....	.....	1
John J. Kilmartin,	.....	.....	.....	.....	.....	1	.....	.....	1
John J. Ducey,	.....	.....	.....	.....	.....	1	.....	.....	1
Patrick H. Ryan,	.....	.....	.....	.....	.....	1	.....	.....	1
Ray R. Rideout,	.....	.....	.....	1	.....	.....	.....	.....	1
William F. Riley	.....	.....	.....	.....	.....	1	.....	.....	1
Blank,	.....	1,128	.....	927	675	1,213	.....	.....	3,943
REPRESENTATIVES, 24TH. DIST. (3)									
Warren C. Daggett,	Republican,	.....	253	.....	.....	.....	1,048	1,683	2,984
William P. French,	Republican,	.....	259	.....	.....	.....	1,084	1,782	3,125
Robert C. Harris,	Democratic,	.....	746	.....	.....	.....	503	468	1,717
Arthur W. Robinson,	Republican,	.....	194	.....	.....	.....	1,022	1,593	2,809
Blank,	.....	.....	1,512	.....	.....	.....	1,158	1,143	3,813
COUNTY COMMISSIONER.									
Walter C. Wardwell,	Republican,	527	301	673	618	893	1,050	1,648	5,710
Thomas F. McCormack,	.....	.....	.....	.....	.....	1	.....	.....	1
Blank,	.....	422	687	333	258	449	555	575	3,279

	WARDS.							Total.
	1	2	3	4	5	6	7	
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO ABSENTEE VOTING, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	587	483	690	623	957	1,192	1,724	6,256
Number of "No" votes,	186	293	174	144	222	208	247	1,474
Blank,	176	212	142	109	164	205	252	1,260
"IN PLACE OF ARTICLE 18 OF THE ARTICLES OF AMENDMENT OF THE CONSTITUTION, SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO APPROPRIATIONS FOR EDUCATIONAL AND BENEVOLENT PURPOSES, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	480	232	646	593	845	1,069	1,728	5,593
Number of "No" votes,	385	664	291	216	428	440	337	2,761
Blank,	84	92	69	67	70	96	153	636
"SHALL THE FOLLOWING ARTICLE OF AMENDMENT RELATIVE TO THE TAKING AND DISTRIBUTION BY THE COMMONWEALTH AND ITS MUNICIPALITIES OF THE COMMON NECESSARIES OF LIFE, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"								
Number of "Yes" votes,	701	587	761	682	1,049	1,284	1,842	6,906
Number of "No" votes,	126	198	105	74	143	141	130	917
Blank,	122	203	140	120	151	180	251	1,167

The following is a statement of the votes cast in the several wards of the city for the candidates for the various offices, and on the questions of granting licenses for the sale of intoxicating liquors in this city, and on Saturday half-holidays, at the city election held December 11, 1917:—

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
MAYOR,									
John H. Concannon,	Democratic,	257	284	127	89	238	154	151	1,300
Charles W. Eldridge,	Republican,	401	160	452	328	468	668	1,109	3,586
Blank,		7	16	9	8	9	18	27	94
ALDERMAN-AT-LARGE, WARD 1.									
Justin P. Nowell,	Republican,	451	161	441	316	483	581	952	3,385
Blank,		214	299	147	109	232	259	335	1,595
ALDERMAN-AT-LARGE, WARD 2,									
George W. Pratt,	Republican,	418	240	453	314	506	610	978	3,519
Blank,		247	220	135	111	209	230	309	1,461
ALDERMAN-AT-LARGE, WARD 3,									
John M. Webster,	Republican,	413	159	473	313	471	580	954	3,363
Blank,		252	301	115	112	244	260	333	1,617
ALDERMAN-AT-LARGE, WARD 4,									
Walter H. Snow	Republican,	406	159	433	351	482	579	959	3,369
Robert Ransom,						1			1
Blank,		259	301	155	74	232	261	328	1,610
ALDERMAN-AT-LARGE, WARD 5,									
William J. Bell,	Republican,	408	162	423	311	549	576	953	3,382
Blank,		257	298	165	114	166	264	334	1,598
ALDERMAN-AT-LARGE, WARD 6,									
Joseph J. Pincus,	Republican,	405	160	428	303	492	682	974	3,444
Blank,		260	300	160	122	223	158	313	1,536
ALDERMAN-AT-LARGE, WARD 7,									
Eugene M. Carman,	Republican,	398	158	420	301	479	580	1,121	3,457
Blank,		267	302	168	124	236	260	166	1,523
WARD ALDERMEN, (2) WARD 1,									
Walter D. Flynn,	Democratic,	272							272
Ralph H. Hosmer,	Republican,	370							370
James J. Shay,	Republican,	453							453
Blank,		235							235
WARD ALDERMEN, (2) WARD 2,									
Maurice F. Ahearn,	Democratic,		336						336
Peter F. Donnelly,	Democratic,		317						317
Blank,			267						267

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
WARD ALDERMEN, (2) WARD 3,									
Carl F. Ashton,	Republican,			449					449
George A. Berry,	Republican,			467					467
Blank,				260					260
WARD ALDERMEN, (2) WARD 4,									
Charles H. Manzer,	Republican,				336				336
Richard L. Rice,	Republican,				325				325
Blank,					189				189
WARD ALDERMEN, (2) WARD 5,									
Arthur R. Corwin,	Republican,					456			456
George W. O'Brien,	Democratic,					186			186
Alfred M. Pride,	Republican,					468			468
Patrick H. Ryan,	Democratic,					184			184
Blank,						136			136
WARD ALDERMEN, (2) WARD 6,									
Fred W. Jackson,	Republican,						655		655
Joseph Linhares,	Democratic,						158		158
Enoch B. Robertson,	Republican,						640		640
Blank,							227		227
WARD ALDERMEN, (2) WARD 7,									
Hiram N. Dearborn,	Republican,							1,073	1,073
Wilbur F. Lewis,	Republican.							1,107	1,107
Blank,								394	394
SCHOOL COMMITTEE (2 yrs.) WARD 1,									
James Joseph Rudd,	Republican,	451							451
Blank,		222							222
SCHOOL COMMITTEE (2 yrs.) WARD 2,									
Daniel H. Bradley,	Democratic,		343						343
Blank,			118						118
SCHOOL COMMITTEE (2 yrs.) WARD 3,									
Alfred L. West,	Republican,			467					467
Blank,				129					129
SCHOOL COMMITTEE (2 yrs.) WARD 4,									
Arthur N. Richardson,	Republican,				356				356
Blank,					75				75
SCHOOL COMMITTEE (2 yrs.) WARD 5,									
Robert C. Moakley,	Democratic,					245			245
Harry M. Stoodley,	Republican,					439			439
Blank,						56			56

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE (2 yrs.) WARD 6,									
Guy E. Healey,	Republican,						657		657
Blank,							197		197
SCHOOL COMMITTEE (2 yrs.) WARD 7,									
Frank E. Porter,	Republican,							1,110	1,110
Blank,								185	185
"SHALL LICENSES BE GRANTED FOR THE SALE OF INTOXICATING LIQUORS IN THIS CITY?"									
Number of "Yes" votes,		210	260	155	79	231	190	166	1,291
Number of "No" votes,		410	156	404	330	468	607	1,082	3,457
Blank,		45	44	29	16	16	43	39	232
"SHALL THE LABORERS, TEAMSTERS AND MECHANICS EMPLOYED BY THE CITY OF SOMERVILLE RECEIVE A HALF-HOLIDAY ON SATURDAYS WITHOUT LOSS OF PAY?"									
Number of "Yes" votes,		457	367	348	254	485	556	823	3,290
Number of "No" votes,		162	75	216	149	214	238	408	1,462
Blank,		46	18	24	22	16	46	56	228

Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	No.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION.
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000
1914	2,178	5,535	488	13,404	85,000
1915	1,705	5,262	379	13,805	*86,854
1916	1,100	4,158	271	14,500	88,000
1917	1,291	3,457	232	13,826	90,000

*Census.

ORDINANCES.

Somerville, January 1, 1918.

The following ordinances have been adopted since the printing of the annual reports for the year 1916:—

No. 76.

An Ordinance Relative to Hearings on Certain Garages.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The public hearing required by Chapter XXII of the Revised Ordinances of 1911 and by Ordinance No. 54 entitled "An Ordinance Relative to Garages" shall in the case of any garage for not more than two automobiles be held before the Committee on Licenses and Permits of the Board of Aldermen. Whenever a petition for such garage is filed with the City Clerk he shall cause notice to be given of such hearing to be held at the next convenient regular meeting of said committee in the manner provided by Chapter XXXIX of the Revised Ordinances of 1911 so far as applicable.

Section 2. This ordinance shall take effect upon its passage.

Approved January 26, 1917.

No. 77.

An Ordinance Relative to Flag of the U. S. A.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 18 of Chapter XV of the Revised Ordinances of 1911 is hereby amended by adding at the end of said section, the following:—provided, however, that with the written approval of the Mayor, in accordance with the terms of such approval, any person may suspend the flag of the United States of America over any street or sidewalk.

Section 2. This ordinance shall take effect upon its passage.

Approved April 13, 1917.

No. 78.

An Ordinance Amending Ordinance Relative to Pedlers and Hawkers.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 12 of Ordinance No. 75 is hereby amended by striking out the words "one dollar" and inserting in place thereof the words "five dollars" so that said section as amended shall read as follows: Section 12. The fee for a license under Section 2 of this ordinance shall be five dollars.

Section 2. This ordinance shall take effect on the thirtieth day of April, 1917.

Approved April 27, 1917

No. 79.

An Ordinance Further Amending Ordinance Relative to Pedlers and Hawkers.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Ordinance No. 75 is hereby amended by adding the following section: Section 16. A fee of one dollar for a license under Section 5 shall be paid by all persons except pedlers and hawkers.

Section 2. This ordinance shall take effect upon its passage.

Approved May 25, 1917.

No. 80.

An Ordinance Relative to Fireworks.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. No person shall discharge, fire or use any firecracker, rocket, torpedo, Roman candle or other fireworks or substance designed or intended for pyrotechnic display, or a pistol, cane, cannon, or other appliance, using blank cartridge or cap containing chlorate of potash mixture or other explosive, without permission from the Board of Aldermen.

Section 2. No person shall sell or store any fireworks without permission from the Board of Aldermen.

Section 3. Any person, firm or corporation violating any of the provisions of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence.

Section 4. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Section 5. This ordinance shall take effect upon its passage.

Approved June 15, 1917.

No. 81.

An Ordinance Relative to the Police Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Chapter XIX of the Revised Ordinances of 1911, as amended by Ordinance No. 57, is hereby further amended by striking out Section 1 and inserting in place thereof the following:—

Section 1. The police department shall consist of a chief of police, a captain, five lieutenants (two of whom shall be inspectors), four sergeants, such number of patrolmen as the Board of Aldermen may from time to time determine, and a reserve force of ten men. They shall take rank in the order in which they are named.

Section 2. This ordinance shall take effect upon its passage.

Approved September 28, 1917.

No. 82.

An Ordinance Establishing Recreation and Playground Commission.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The Playground Commission which this city is authorized to create under the provisions of Chapter 25 of the Acts of the Legislature of Massachusetts for the year 1915, entitled "An Act relative to the powers of cities and towns in respect to playgrounds and physical education" shall be composed of seven residents of this city. Women as well as men shall be eligible to be members of the commission. The title of the commission shall be "Somerville Recreation and Playground Commission." The members of the commission shall serve without pay.

Section 2. The members of the commission shall be appointed by the Mayor subject to the approval of the Board of Aldermen as soon as this ordinance takes effect, four to serve until the appointment and qualification of their successors in the year 1918 and three to serve until the appointment and qualification of their successors in the year

1919, and thereafter they shall be appointed yearly, four in one year and three in the alternate year to serve for two years and until the appointment and qualification of their successors. Any vacancy shall be filled by appointment for the balance of the unexpired term.

Section 3. This ordinance shall take effect upon its passage.

Approved December 21, 1917.

FREDERIC W. COOK,

City Clerk.

CITY GOVERNMENT AND OFFICERS FOR 1917.

Mayor.

ZEBEDEE E. CLIFF, 29 Powder House Terrace.

Board of Aldermen.

President, WARREN C. DAGGETT.

Vice-President, HERMON A. FLEMING.

WARD ONE.

Wallace E. Loveless, Alderman-at-large	91 Perkins street
Ralph H. Hosmer	51 Mt. Vernon street
Justin P. Nowell	5 Webster street

WARD TWO.

George W. Pratt, Alderman-at-large .	35 Clark street
Maurice F. Ahern	21 Linden street
Robert C. Harris	12 Dimick street

WARD THREE.

Charles M. Austin, Alderman-at-large .	23 Berkeley street
Carl F. Ashton	17 Bonner avenue
John M. Webster	246 Medford street

WARD FOUR.

Arthur N. Richardson, Alderman-at-large	68 Bonair street
Charles H. Manzer	60 Fellsway West
Walter H. Snow	42 Derby street

WARD FIVE.

Hermon A. Fleming, Alderman-at-large .	51 Heath street
William J. Bell	380 Medford street
Arthur R. Corwin	8 Sycamore street

WARD SIX.

James A. Butler, Alderman-at-large .	286 Highland avenue
Joseph J. Pincus	41 Lexington avenue
Enoch B. Robertson	87 Highland road

WARD SEVEN.

Warren C. Daggett, Alderman-at-large .	28 Belknap street
Wilbur F. Lewis	51 Fosket street
Austic M. Pinkham	34 Liberty avenue

City Clerk—Frederic W. Cook.

Assistant City Clerk—Jason M. Carson.

City Messenger—Fred E. Hanley.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

- ELECTRIC LINES AND LIGHTS—Aldermen Pratt, Richardson, Pincus, Nowell and Ashton.
- FINANCE—The President, Aldermen Pinkham, Ahearn, Webster, Robertson, Corwin and Hosmer.
- LEGISLATIVE MATTERS—Aldermen Loveless, Bell, Manzer, Ashton and Hosmer.
- LICENSES AND PERMITS—Aldermen Butler, Pratt, Fleming, Snow, Webster, Lewis and Nowell.
- PUBLIC PROPERTY—Aldermen Bell, Ahearn, Richardson, Pincus and Lewis.
- PUBLIC SAFETY—Aldermen Harris, Austin, Robertson, Manzer and Corwin.
- PUBLIC SERVICE—Aldermen Pincus, Richardson, Pinkham, Fleming, Austin, Loveless and Ahearn.
- PUBLIC WORKS—Aldermen Austin, Butler, Fleming, Harris, Pinkham, Snow and Loveless.

School Committee.

Chairman—GEORGE E. WHITAKER.

Vice-Chairman—HERBERT CHOLERTON.

(Term, two years, except members ex-officiis.)

ZEBEDEE E. CLIFF, Mayor (ex-officio), 29 Powder House terrace.

WARREN C. DAGGETT, President Board of Aldermen (ex-officio),
28 Belknap street.

WARD ONE.

JAMES J. RUDD (elected 1915), 46-A Franklin street.

WINIFRED P. DAVIS, (elected 1916), 125 Pearl street.

WARD TWO.

DANIEL H. BRADLEY (elected 1915), 19 Concord avenue.

CHRISTOPHER MULDOON (elected 1916), 88 Concord street.

WARD THREE.

GEORGE E. WHITAKER (elected 1915), 75 Walnut street.

OSCAR W. CODDING (elected 1916), 21 Pleasant avenue.

WARD FOUR.

HARRY A. STONE (elected 1915), 254 Broadway.

FRANK H. HOLMES (elected 1916), 22 Walter street.

WARD FIVE.

HARRY M. STOODLEY (elected 1915), 283 Highland avenue.

JULIA R. ALDRICH (elected 1916), 262 School street.

WARD SIX.

GUY E. HEALEY (elected 1915), 38 Cambria street.

GEORGE E. WARDROBE (elected 1916), 31 Rogers avenue.

WARD SEVEN.

FRANK E. PORTER (elected 1915), 43 Ossipee road.

HERBERT CHOLERTON (elected 1916), 94 College avenue.

Superintendent and Secretary—CHARLES S. CLARK.

Office, City Hall Annex.

Hours: 7.45 A. M. to 5 P. M., except Saturdays;
Saturdays, 8 to 10 A. M.

Regular meetings, last Monday evening of each month, except July and August, when none are held, and December, when meetings are on the fourth Friday, and on the Friday preceding the first Monday in January.

Assessors.

(Term, three years.)

GEORGE E. ELLIOTT, Chairman (term expires 1920). (Died April 3, 1917.)

FRED E. WARREN, Chairman (term expires 1920).

(Appointed April 26, 1917.)

WINSOR L. SNOW (term expires 1918).

HARRY VAN IDERSTINE (term expires 1920).

J. ROBERT FENELON (term expires 1919).

DAVID B. ARMSTRONG (term expires 1918).

Assistant Assessors.

(Term, one year.)

FRED B. CLAPP.

JOHN M. NANGLE.

JOHN S. MCGOWAN.

LEONARD C. SPINNEY.

JOHN J. MCCARTHY.

WALTER F. TURNER.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, two members, two years; one member, one year.)

JACKSON CALDWELL, Chairman (term expires 1917).

(Resigned April 26, 1917.)

RALPH F. HODGDON, M. D., Chairman (term expires 1918).

(Appointed April 26, 1917.)

ROBERT M. LAVENDER (term expires 1917).

WARREN C. BLAIR (term expires 1919).

Clerk—LAURENCE S. HOWARD.

Agent—GEORGE I. CANFIELD.

Medical Inspector—FRANK L. MORSE, M. D.

Inspector of Animals and Provisions—CHARLES M. BERRY.

Inspector of Milk and Vinegar—HERBERT E. BOWMAN.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

(Term, three years.)

HENRY F. CURTIS, M. D., Chairman (term expires 1919).

ALBERT W. EDMANDS (term expires 1920).

MICHAEL COLL (term expires 1918).

Agent—CHARLES C. FOLSOM.

Secretary—CORA F. LEWIS.

Warden City Home—J. FOSTER COLQUHOUN.

Matron City Home—CATHARINE COLQUHOUN.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Planning Board.

(Term, five years.)

CHARLES W. HODGDON (term expires 1917).
 CLARENCE D. WATERHOUSE (term expires 1918).
 DAVID J. KELLEY (term expires 1919).
 HARRISON L. EVANS (term expires 1920).
 WILLIAM F. RILEY (term expires 1921).

Registrars of Voters.

(Term, three years.)

EDWIN D. SIBLEY, Chairman (term expires 1918).
 DOUGLASS B. FOSTER (term expires 1920).
 CHARLES LEO SHEA (term expires 1919).
 FREDERIC W. COOK, City Clerk (term expires 1917).

Public Library Trustees.

(Term, three years.)

THOMAS M. DURELL, Chairman (term expires 1919).
 J. FRANK WELLINGTON (term expires 1920).
 FREDERICK W. PARKER (term expires 1918).
 WILLIAM L. BARBER (term expires 1919).
 CHARLES L. NOYES (term expires 1920).
 HERBERT E. BUFFUM (term expires 1920).
 GILES W. BRYANT (term expires 1918).
 DAVID H. FULTON (term expires 1918).
 HERMAN C. BUMPUS (term expires 1919).
Librarian and Secretary—DREW B. HALL.
 (Resigned May 1, 1917.)
Librarian and Secretary—GEORGE H. EVANS.
 (Appointed May 1, 1917.)

Recreation and Playground Commission.

FRANCIS P. GARLAND (term expires 1918).
 GEORGE L. DUPLEY (term expires 1918).
 ERNEST W. BAILEY (term expires 1918).
 JOHN F. COLQUHOUN (term expires 1918).
 MRS. A. H. WEEKS (term expires 1919).
 MRS. CHARLES E. MORGAN (term expires 1919).
 CHARLES L. CLARK (term expires 1919).

City Clerk.

FREDERIC W. COOK.

Assistant City Clerk—JASON M. CARSON.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

JOSEPH S. PIKE.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Messenger.

FRED E. HANLEY.

Mayor's Secretary.

FRED E. WARREN. (Resigned May 1, 1917.)
 FORREST D. COOK. (Appointed May 1, 1917.)

City Solicitor.

FRANK W. KAAH.
50 State street, Boston.

City Auditor.

HOWARD E. WEMYSS.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Engineer.

ERNEST W. BAILEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

ASA B. PRITCHARD.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Public Buildings and Inspector of Buildings.

GEORGE L. DUDLEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Electric Lines and Lights.

WALTER I. FULLER.
Office, Central Fire Station, 261 Medford street.

Water Commissioner.

FRANK E. MERRILL.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Superintendent of Sanitary Department.

EDGAR T. MAYHEW.

Clerk of Committees and Departments.

RICHARD A. KEYS.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Chief of Police.

CHARLES A. KENDALL.
Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

City Physician.

C. CLARKE TOWLE, M. D.
24 Prospect Hill avenue.

Inspector of Plumbing.

DUNCAN C. GREENE.
Office hour: 8 to 9 A. M.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN.
Office hour: 9 A. M. to 12 M., except Saturdays.

Inspector of Animals and Provisions.

CHARLES M. BERRY.
60 Prescott street.

Inspector of Petroleum.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

Sealer of Weights and Measures.

JOHN H. DUSSEAULT.
Deputy Sealer—BENJAMIN S. ABBOTT.
Office, City Hall Annex.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Registration Clerk, City Laborers.

FORREST D. COOK.

Fence Viewers.

CHARLES M. BERRY,
60 Prescott street.
HOWARD LOWELL,
46 Gilman street.

Agent of Military and State Aid and Soldiers' Relief and Burial Agent.

JOHN H. DUSSEAULT,
42 Sargent avenue.

Constables.

CHARLES M. AUSTIN.	FRED E. HANLEY.
CHARLES W. BURBANK.	JAMES M. HARMON.
CHARLES W. F. BENNETT.	HARRY E. JACKSON.
GEORGE H. CARLETON.	CHARLES A. KENDALL.
EUGENE A. CARTER.	MICHAEL T. KENNEDY.
WINSLOW W. COFFIN.	JOHN J. MCCARTHY.
FORREST D. COOK.	EDWARD E. MARSH.
WILLIAM E. COPITHORNE.	CORRAOD PALLADINO.
ALBION B. CROCKER.	CHARLES B. PALMER.
THOMAS DAMERY.	JOHN A. RAY.
CHARLES L. ELLIS.	JOHN F. SCANNELL.
CHARLES C. FOLSOM.	MALCOLM E. STURTEVANT.
ARTHUR L. GILMAN.	HERBERT WILSON.

CHARLES E. WOODMAN.

Measurers of Wood and Bark.

CHARLES A. HARDY.
OSMON T. MARSH.
JOSEPH F. TYTER.
F. FULLER WHITING.

Measurer of Grain.

EVERETT C. EMERY.

Public Weighers.

WILLIAM H. WHITCOMB.
HARRY A. WILSON.

INDEX.

	PAGE
City Auditor, Report of	12
Balance Sheet	13
Cash Statement	15
Departmental Bills	18
Water Department Accounts	19
Statement of Estimated Revenue	20
Appropriations	23
Service Transfers	32
Temporary Loans	34
Commonwealth of Massachusetts	35
Revenue and Expenses	35
Revenue from Taxes, Supplementary Warrants	36
Funded Debt	37
Maturities on Funded Debt	40
Interest Requirements on Funded Debt	40
Borrowing Capacity	42
Overlay Accounts	43
Reserve Fund, Surplus from Overlay	43
Excess and Deficiency Account	43
Receipts and Expenditures, Classification of	44
Schedule of Public Property	72
City Clerk, Report of	332
Receipts	332
Payments	334
Licenses and Permits	334
Births	335
Marriages	335
Deaths	336
Assessed Polls and Registered Voters	337
Women's Voting Lists	338
Elections	339
Liquor License Question	345
Ordinances	346
City Engineer, Report of	223
Engineering Department, Statement of Expenses	223
Office Records and Value of Instruments	224
General Work	224
Streets Accepted in 1917	225
Length of Public Streets in Each Ward	225
Miles of Edgestones, Granolithic and Brick Sidewalks in Each Ward	227
Table of Street Construction	227
Grade Crossings and Bridges	229
City Boundary Lines	230
Sewer Division, Statement of Expenses	231
Summary of Work	232
Metropolitan Sewer Connections	233
New Work	233
Maintenance Account	234
Parks and Playgrounds Division	236
Parks and Playgrounds Statement of Expenses, Main- tenance	238
Table of Streets	240
City Government and Officers for 1917	349

	PAGE
Public Library — Continued.	
Book Bulletin	180
War Measures	180
Statistics	182
Sanitary Department, Report of	278
Receipts	279
Collection of Ashes and Paper	279
School Department	81
Report of School Committee	81
School Committee	82
Report of Superintendent	84
High School	87
Junior High School	89
East Somerville Junior High School	90
Vocational School	90
Elementary Schools	91
Atypical Classes	91
Kindergarten	92
Physical Training	92
Summer Work	93
Civic Spirit	94
Teachers' Salaries	96
Summary	97
Conclusion	98
Vocational Guidance, etc.	99
Placement Work	100
Somerville Playground Association	102
Summer Playgrounds	103
Garden Expenditures	104
School Savings Bank	105
School Dentist, Report of	106
School Nurses, Report of	106
Somerville Teacher's Association	107
Somerville Teachers' Club	108
High School Athletic Association	109
Content of Appendix	110
Sealer of Weights and Measures, Report of	329
Sewers (see City Engineer)	277-278-279
Street Commissioner, Report of	253
Snow and Ice	253
Underground Wires	253
Crushed Stone	254
Bridges	254
Steam Rollers	254
Highway Maintenance	253
Sidewalks Maintenance	254
Street Sprinkling	255
Street Cleaning	255
Suppression of Moths	256
Shade Trees	256
Highways Construction, New Streets	256
Streets Constructed in 1917	257
Streets Macadamized in 1917	258
Highways Construction, Permanent Pavement	260
Sidewalks Constructed	262
Miscellaneous	265
Labor	265
Recommendations	266

	PAGE
Support of Poor Department (see Overseers of the Poor)	210
Water Commissioner, Report of	281
Statement of Accounts	282
Cost of Water Works	283
Water Debt	283
Water Works Income and Distribution	284
Water Distribution System, Construction	285
Hydrants, Gates, etc.	286-291
Water Services	287
Water Meters	287
Summary of Pipes and Fixtures	290
Water Distribution System, Maintenance	290
Services	291
Water Assessments and Consumption	291
General, New Work	293
Street Car Springling Connections	294-299
Pensions	294
Honor Roll	294
High Pressure Auxiliary Supply	295
Gates Set in New Locations	295
Fire Hydrants	298
Mains, Gates, Hydrants, etc.	300
Summary of Statistics	310
Financial Statistics	311

