









# CITY OF SOMERVILLE

MASSACHUSETTS

# ANNUAL REPORTS

## 1919

With Mayor's Inaugural Address

Delivered January 5, 1920



SOMERVILLE PRESS PRINT

1920



# INAUGURAL ADDRESS

DELIVERED BY

## Mayor Charles W. Eldridge

MONDAY, JANUARY 5, 1920

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Gentlemen of the Board of Aldermen :

For the first time in the history of Somerville its Government is being inaugurated for a biennial term. In the natural course of events we shall be associated for two years in the management of our city, and our responsibilities are the greater because of the extended service which we are to render. The amendment to our charter making the government a continuing body for a two-year term will bring about a financial saving to the city every alternate year and will, I believe, result in a more efficient administration. There will not be at the close of every year the distraction caused by a political campaign, and to my mind the mutual understanding between the Mayor and the Board of Aldermen will be strengthened with a consequent increase of co-operation.

Each year of my term as mayor I have dwelt on co-operation as one of the essential factors in good government. For two years it has been my privilege to work in harmony with the Board of Aldermen, and I confidently believe that the next two years will be marked by even closer co-operation. Our interests are the same. We are all chosen to give the very best that is in us to the service of the city, and it should not be difficult for men animated by a single purpose to agree on essential policies of government. Let us frankly talk over all differences of opinion that may arise. The City of Somerville has grown to be an enormous business, and the best results cannot be achieved for our people if the spirit of co-operation is absent in any part of the organization.

The mayor's office will be always open to you. I shall strive to be considerate and broad-minded, and I am sure that you will be equally so. The affairs of the city will continue to be handled in a practical, business-like way, giving to the citizens full value for every dollar received, demanding from all city employees efficiency and economy, humanized by courtesy. Without courtesy no business can flourish, and in the public service courtesy should be the universal rule. It smooths over many difficult places and makes possible the consideration and service which every citizen has the right to demand.

During the two years of my administration up to the close of business on December 31, 1919, the funded debt of the city has been reduced by \$448,000. Including \$35,000 maturing January 1, 1920, this reduction amounts to \$483,000, of which \$231,500 was paid during the past year. The borrowing capacity of the city has been increased to \$837,719. With the co-operation of the boards of aldermen of the last two years the borrowing of money for five year periods has been avoided, and I urge you to continue the policy of "pay-as-you-go." We have begun again the improvements which were halted by the war, and last year \$140,000 was spent in the construction of streets, nearly 70,000 square yards of paving being laid. I am confident that each year we can extend the improvement of our highways without again having recourse to the expensive and unsatisfactory method of short term borrowing.

A statement prepared by the Auditor of the financial condition of the city on January 1, 1920, will be printed as a part of this address.

Our schools continue to have the first place in our thoughts because there is no more vital problem before us than the proper training of the youth, who in a few short years will take our places and the places of all the men and women who make up our city. The immediate direction of the schools rests with the School Committee, but we must all do our part to make them effective as to education and as to citizenship. We want our boys and girls equipped for the battle of life with all the training we can give them, and we want them inspired by patriotism, growing into young manhood and womanhood 100 per cent. American. One great problem immediately before us is the question of school accommodations, and the recommenda-



tions of the School Committee must be carefully weighed. A very large sum has been requested for new and enlarged buildings, and it is absolutely necessary that the right course be taken to meet present requirements and future needs.

The Boys' Vocational School is to undertake the training of disabled soldiers, and surely every citizen of Somerville will approve whatever expense may be required to better the condition of those brave men who, having performed nobly their patriotic duty, have returned to us suffering from the effects of war.

For reasons of economy and efficiency I recommend the complete motorization of the Fire Department. By this means we shall secure better protection of life and property along with economy in maintenance. Economy in this department is more than ever necessary, because of the large increase in fixed expenses caused by the adoption of the two-platoon system by the voters at the state election.

At my suggestion the Mayor of Medford has joined with me in presenting a bill to the legislature to straighten the boundary line between the cities of Somerville and Medford, and I ask your interest and help to bring about this result. The present course of this boundary creates conditions which are little short of ridiculous, and I believe that a friendly agreement may be reached fair to both cities. The same condition to a lesser extent applies to the line between Cambridge and Somerville, and this also should be taken under consideration.

As there will not be another inauguration in Somerville until 1922 I call your attention at this time to the approaching fiftieth anniversary of the city. Somerville was incorporated as a city on April 14, 1871, and the first city government was inaugurated in January, 1872. Since that time our city has increased in population from sixteen thousand to over ninety thousand and in valuation from twenty-two million, to over eighty-seven million. It may be deemed fitting to celebrate the golden anniversary in 1921, and I commend this to your consideration.

While not the most pressing need at the present time, there should be constructed in the near future a new city hall suitable to the dignity and size of the City of Somerville. Built in 1852 and originally designed and used for a school building,

the present structure has been repaired, remodelled and enlarged in a vain effort to keep pace with the growth of the city, and further extensions are impracticable. The cost of repairs on the old building increases annually, and none of the departments has the necessary amount of space. Under these conditions business of the city cannot be transacted to the best advantage, and citizens as well as officials and employees are inconvenienced.

The civic survey now being completed under the auspices of the Federation for Social Service will give to Somerville the first listing of all its resources and conditions. This survey will not only be of practical assistance in the development of our city, but it also brings to Somerville the prestige of being the first New England city to undertake and complete such a valuable work.

The national census taken every tenth year is now being carried on, and I ask for the hearty co-operation of our people with the federal agents employed in this task.

In common with all other municipalities Somerville feels the effect of the high cost of living, and this is reflected in the general increase of salaries and wages of city employees. An ordinary rate of increase was not sufficient to maintain the standard of living, and I am confident that the people of Somerville wish their employees to live as American citizens should live, properly fed, properly housed and able to give their children their share of the benefits of education, culture and happiness which abound under the American Flag. Many of these increases were provided for last year. The school teachers will be cared for in a special budget which I shall submit to you. There must come a time when the limit of salaries and wages will be reached, and in the meantime I shall earnestly endeavor to meet each condition on its merits, dealing fairly with the tax payers, with justice to the employees.

We recall with deep satisfaction the splendid service of our State Guard companies during the riots and the subsequent period of protection of the City of Boston. In doing this work for our neighboring city the State Guard protected Somerville and perhaps saved us from a reign of terror which the mind can scarcely conceive.

Gentlemen of the Board, I would not be doing my full duty as the chief executive of our city if I did not speak plainly on this occasion of our grave responsibility in connection with the unrest and discontent which now seem to be rampant throughout our country. The aftermath of the war with its readjustment of social and industrial conditions, its confusion, its great material gains and its equally great losses, has given an opportunity to those who would wreck our government and destroy the rule of law and order on which our country is founded and under which it has grown great and prosperous. The evil of anarchy cannot be exaggerated.

The latest figures show that Somerville had 6,560 men in the World War, that 178 were wounded, 123 died on the battle field or in camp, and 50 of our own boys won distinguished honors. Our city will ever cherish this record of patriotism and will express its gratitude in a permanent and appropriate memorial. The work of our returning service men is not yet done, for they are a tower of strength in preserving at home the principles for which they fought abroad. The peril of the Red Flag is at our doors. Already the American Legion is foremost in the fight for true Americanism—Americanism as it was known in our Army and Navy, including men of every class, of every station, of every religion and almost every nationality, but all devoted to liberty and law, willing to sacrifice and to die if need be, that eternal right and justice might prevail.

I earnestly urge that every ex-service man become a member of the American Legion, so that the Somerville Post may be among the largest and best in the country and our citizens may have the advantage of its strong devotion to American principles. Such an influence was exerted by the Grand Army of the Republic during the reconstruction period following the Civil War, and although its ranks are thinned and its surviving members are nearing the end of the span of life, America has no patriots more brave and true than the veterans of 1861-1865.

Europe is seething with Bolshevism, but we have no place here for any man or woman who does not believe in the Republic founded by Washington and Jefferson, preserved by Lincoln and Grant and maintained in the fullness of its strength

by the vast army and navy which comprised the best of our youth in the World War. There can be no excuse for further compromise with the lawless aliens who seek to destroy our American institutions. They should be made to observe a decent respect for the country which has sheltered them, or they should be driven from our shores. Every immigrant should be required within a stated time, and not too long a time at that, to learn our language and to become naturalized; failing to meet these requirements — send him back where he belongs.

We have no doubt of the ultimate triumph of the principles in which all loyal Americans devoutly believe; yet, in this land of liberty and justice, of equal opportunity, we must be ever on our guard to see that the square deal we stand for is given alike to all. There is room here for only one flag. Relying with God's grace on the love of liberty and obedience to law of the American people, we shall dwell in security and peace beneath the folds of the Stars and Stripes.

\* \* \* \*

“Lord of the Universe! shield us and guide us,  
Trusting Thee always, through shadow and sun!  
Thou hast united us, who shall divide us?  
Keep us, oh keep us the Many in One!”

## TAXES.

The total amount of taxable property as of April 1, 1919, not including non-resident bank shares, was \$87,353,424. The tax was fixed at \$25.80 per \$1,000 valuation.

State Tax .....	\$ 192,830 00
Special State Tax .....	11,569 80
Metropolitan Sewerage Tax .....	88,244 86
Metropolitan Park Tax .....	50,517 52
Wellington Bridge Tax .....	1,800 68
Wellington Bridge Tax, Special .....	1,593 90
Grade Crossings Tax .....	11,551 75
State Highway Tax .....	1,472 00
Charles River Basin Tax .....	7,917 24
Alewife Brook Tax .....	1,169 30
Abatement of Smoke Tax .....	357 94
Fire Prevention Tax .....	1,389 80
Boston Elevated Tax .....	169,593 77
County Tax .....	99,068 47
Non-Resident Bank Tax .....	3,126 34
City Appropriation .....	2,353,236 00
Overlay .....	11,426 31
	<hr/>
Total amount to be raised .....	\$3,006,865 68
Less estimated revenue .....	\$537,040 00
Appropriated from Excess and Deficiency .....	71,000 00
State Income Tax Receipts.....	26,295 00
State Income Tax Genl. School Fund Receipts .....	68,000 00
	<hr/>
	702,335 00
	<hr/>
Net amount assessed in taxes.....	\$2,304,530 68
Special Assessments:—	
Street Sprinkling .....	\$36,991 25
Moths .....	1,347 50
	<hr/>
	38,338 75.
	<hr/>
Total amount committed for collection....	\$2,342,869 43

Appropriations, classified under general headings, were made from revenue, as follows: —

General Government .....	\$106,649 00
Protection of Persons and Property .....	331,911 00
Health and Sanitation .....	230,720 00
Highways .....	257,625 00
Charities .....	85,235 00
Soldiers' Benefits .....	62,185 00
Education .....	613,432 00
Libraries .....	46,028 00
Recreation .....	27,106 00
Unclassified .....	59,360 00
Municipal Indebtedness .....	334,500 00
Water Works .....	198,485 00
	<hr/>
	\$2,353,236 00
Less estimated Receipts, State Income	
Tax and transfer from Excess and	
Deficiency .....	702,335 00
	<hr/>
Raised by taxation for city purposes.....	\$1,650,901 00

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

Year	Amount of Funded Debt	Increase of Funded Debt	Re- duc- tion of Funded Debt	Tax Rate per \$1,000 Valuation on Account of Re- duction 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
" 1918 .....	1,506,000 00	.....	251,500 00	2 97
" 1919 .....	1,309,500 00	40,000 00	236,500 00	2 71

\* \$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
1918	84,639,280 00	2,015,783 68	23 20
1919	87,392,724 00	2,305,958 62	25 80



## REPORT OF THE CITY AUDITOR.

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OFFICE OF THE CITY AUDITOR,  
January 22, 1920.

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 1919, 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, DECEMBER 31, 1919.

## Revenue Account.

## ASSETS.

Cash:—	
In Banks and Offices . . . . .	\$163,241 54
Advance to Poor Department	50 00
Accounts Receivable:—	
Taxes, 1919 . . . . .	\$327,503 09
Taxes, 1918 . . . . .	985 92
Taxes, 1917 . . . . .	947 80
Special Assessments, 1919 . . . . .	25,795 32
Special Assessments, 1918 . . . . .	936 24
Departmental Bills Receivable	21,148 12
Comm. of Mass. Soldiers' Benefits, 1919 . . . . .	26,618 75
Water Dept. Accounts, 1919 . . . . .	22,528 96

## LIABILITIES.

Temporary Loans . . . . .	\$527,000 00
Unexpended balances:	
Income of Trust Funds . . . . .	2,713 61
Appropriations . . . . .	1,215 00
Tailings . . . . .	291 65
Premiums on Bonds . . . . .	132 00
Revenue from Taxes, Supplementary Warrants	1,403 94
Revenue Reserved when Collected:	
Departmental Bills Receivable . . . . .	21,148 12
Overlay, Reserved for Abatements:	
Levy of 1919 . . . . .	\$2,955 89
Levy of 1918 . . . . .	985 92
Levy of 1917 . . . . .	947 80

Tax Titles . . . . .	\$426,464 20
Grade Crossings . . . . .	2,079 29
Comm. of Mass. Acct. Income	427 30
Tax Balance due . . . . .	6,415 00
	<hr/>
	\$598,677 33

Reserve Fund, Surplus and Overlays . . . . .	14,086 43
Excess and Deficiency . . . . .	25,796 97
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	\$598,677 33

\$4,889 61

BALANCE SHEET. — Continued.

Non-Revenue Accounts.

Cash in Banks and Offices			
Accounts Receivable:			
Extreme Emergency	46 36	Outlay Bills Receivable	\$37,554 23
			46 36
	<u>\$37,600 59</u>		<u>\$37,600 59</u>

Municipal Indebtedness.

Net Bonded Debt	\$1,309,500 00	Loans within statutory debt limit:	
		City Bonds	\$397,500 00
		Municipal Bonds	31,000 00
		Sewer Bonds	239,000 00
		Highway Bonds	289,000 00
		Bridge Bonds	30,000 00
		Public Building Bonds	278,000 00
		Emergency Loan Bonds	15,000 00
			<u>\$1,279,500 00</u>

Loans Outside Statutory Debt Limit:

Sewer Bonds	\$18,000 00
Metropolitan Park Assessment Bonds	10,000 00
Water Bonds	2,000 00
	<u>30,000 00</u>
	<u>\$1,309,500 00</u>

Trust Funds:

Investments:	
Cash and Securities	\$27,096 24
School Funds	\$5,000 00
Library Funds	20,414 58
Poor Funds	1,681 66
	<u>\$27,096 24</u>
	<u>\$27,096 24</u>

\$27,096 24

## CASH STATEMENT, DECEMBER 31, 1919.

## REVENUE.

## Receipts.

## General:—

Taxes . . . . .	\$2,329,938 34
Corporation, Bank and Income Taxes . . . . .	166,882 91
Licenses and Permits . . . . .	9,386 50
Fines and Forfeits . . . . .	2,680 72
Comm. of Mass. Account Vocational Schools . . . . .	8,751 72
Smith-Hughes Fund . . . . .	1,593 61
Dog Licenses . . . . .	2,197 92
Miscellaneous . . . . .	1,053 49

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\$2,522,485 21

Special Assessments . . . . . 53,576 91

## Departmental:—

General Government . . . . .	\$8,226 11
Protection of Persons and Property . . . . .	2,234 88
Health and Sanitation . . . . .	24,435 12
Highways . . . . .	4,291 56
Charities . . . . .	30,235 14
Soldiers' Benefits . . . . .	79,661 07
Schools . . . . .	5,709 81
Libraries . . . . .	1,969 76
Baths and Bathhouses . . . . .	848 55
Municipal Food Supply . . . . .	6,687 11
Miscellaneous . . . . .	755 41

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165,054 52

Water Department Accounts . . . . .	253,590 38
Interest on deposits, taxes etc. . . . .	24,057 42
Temporary Loans . . . . .	1,527,000 00
Premiums on Loans . . . . .	132 00
Refunds . . . . .	6,252 39

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Total receipts . . . . .	\$4,552,148 83
Balance at beginning of period . . . . .	214,520 02

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\$4,766,668 85

## CASH STATEMENT, DECEMBER 31, 1919. — Continued.

## Payments.

Appropriations . . . . .	\$2,250,487 10	
Trust Funds Income . . . . .	2,328 88	
Temporary Loans . . . . .	1,609,000 00	
Advance to Poor Department . . . . .	50 00	
Tax Titles . . . . .	1,576 95	
State Taxes and Assessments . . . . .	543,442 53	
County Tax . . . . .	99,068 47	
Tellers' Overs and Shorts . . . . .	77 84	
Refunds . . . . .	609 00	
	<hr/>	
Total Payments . . . . .		\$4,506,640 77
Transfer to Non-Revenue . . . . .		96,786 54
Balance on hand . . . . .		163,241 54
		<hr/>
		\$4,766,668 85

## NON-REVENUE.

## Receipts.

Olive W. Cummings Estate . . . . .	\$578 82	
Redemption Tax Liens . . . . .	2,159 21	
Funded Debt Loans . . . . .	40,000 00	
Refunds . . . . .	13 87	
	<hr/>	
Total Receipts . . . . .		\$42,751 90
Transfer from Revenue . . . . .		96,786 54
Balance at beginning of period . . . . .		25,476 14
		<hr/>
		\$165,014 58

## Payments.

Appropriations . . . . .	\$124,722 32	
Redemption of Tax Liens . . . . .	2,159 21	
Trust Fund Investment . . . . .	578 82	
	<hr/>	
Total Payments . . . . .		\$127,460 35
Balance on hand . . . . .		37,554 23
		<hr/>
		\$165,014 58

## Summary.

Total Revenue Receipts . . . . .		\$4,552,148 83
Total Non-Revenue Receipts . . . . .		42,751 90
		<hr/>
Total balance at beginning of period . . . . .		\$4,594,900 73
		239,996 16
		<hr/>
		\$4,834,896 89
		<hr/>
Total Revenue Payments . . . . .		\$4,506,640 77
Total Non-Revenue Payments . . . . .		127,460 35
		<hr/>
Total balance on hand . . . . .		\$4,634,101 12
		200,795 77
		<hr/>
		\$4,834,896 89



**DEPARTMENTAL BILLS.**

**Departmental Accounts, Pledged to Revenue.**

	Balance Jan. 1, 1919	Committed 1919	Total to Collect	Collected and Abated	Uncollected
Police Department . . . . .	\$32 33	\$792 96	\$825 29	\$699 57	\$125 72
Maintenance Police Buildings . . . . .	. . . . .	1,000 00	1,000 00	1,000 00	. . . . .
Fire Department . . . . .	. . . . .	3 42	3 42	3 42	. . . . .
Health Department . . . . .	381 86	522 35	904 21	584 78	319 43
Contagious Hospital . . . . .	4,161 62	7,678 97	11,840 59	7,465 18	4,375 41
Inspection of Milk . . . . .	16 00	308 25	324 25	300 75	23 50
Sanitary Department . . . . .	115 30	3,429 00	3,544 00	2,624 00	920 90
Highway Maintenance . . . . .	168 97	4,904 66	5,073 63	3,966 16	1,107 47
Suppression of Moths . . . . .	. . . . .	3 00	3 00	3 00	. . . . .
Street Sprinkling . . . . .	. . . . .	37 50	37 50	37 50	. . . . .
Sidewalks Maintenance . . . . .	. . . . .	50 00	50 00	50 00	. . . . .
New Sidewalks . . . . .	. . . . .	3 50	3 50	3 50	. . . . .
Maintenance Highway Buildings . . . . .	. . . . .	240 00	240 00	240 00	. . . . .
Poor Department — Miscellaneous . . . . .	9,027 20	24,004 88	33,032 08	19,634 55	13,397 53
Poor Department — City Home . . . . .	301 64	4,584 96	4,886 60	4,509 85	376 75
School Contingent . . . . .	459 87	4,756 11	5,215 98	4,713 67	502 31
Maintenance School Buildings . . . . .	18 75	1,007 39	1,026 14	1,026 14	. . . . .
	<u>\$14,683 24</u>	<u>\$53,326 95</u>	<u>\$68,010 19</u>	<u>\$46,862 07</u>	<u>\$21,148 12</u>

**Outlay Accounts, Pledged to Appropriations.**

Extreme Emergency . . . . .	. . . . .	. . . . .	203 09	156 73	46 36
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STATEMENT OF ESTIMATED REVENUE.

Taxes from State:—	Estimate	Receipts	Excess	Deficit
Corporation Taxes . . . . .	\$48,000 00	\$42,626 27		\$5,373 73
National Bank Tax . . . . .	4,500 00	5,650 79	1,150 79	
Street Railway Tax . . . . .	15,000 00	13,169 85		1,830 15
Licenses and Permits:—				
Milk . . . . .	275 00	342 50	67 50	
Health . . . . .	100 00	128 00	28 00	
City Clerk . . . . .	3,000 00	4,527 50	1,527 50	
Executive . . . . .	600 00	1,119 00	519 00	
Pedlars . . . . .	650 00	710 00	60 00	
Buildings . . . . .		1,241 50	1,241 50	
Electrical . . . . .		1,318 00	1,318 00	
Fines and Forfeits:—				
Court Fines . . . . .	2,500 00	2,305 22		194 78
Departmental Penalties . . . . .	150 00	375 50	225 50	
Grants and Gifts:—				
County, Dog Licenses . . . . .	2,000 00	2,197 92	197 92	
State, Industrial School . . . . .	8,000 00	8,751 72	751 72	
Special Excise Tax (Ship Owners) . . . . .	200 00	245 43	45 43	
Special Assessments:—				
Moths . . . . .	1,000 00	1,346 50	346 50	
Street Sprinkling . . . . .	37,000 00	36,943 42		56 58
Street Betterment . . . . .	16,000 00	15,651 47		348 53
Sidewalks . . . . .	7,000 00	5,621 95		1,378 05
General Government:—				
Treasury Department . . . . .	6,500 00	7,170 99	670 99	
City Clerk's Department . . . . .	1,000 00	966 05		33 95
Protection of Persons and Property:—				
Police Department . . . . .	450 00	699 57	249 57	
Rent of Court Room . . . . .	1,000 00	1,000 00		
Fire Department . . . . .	100 00	3 42		96 58
Sealer of Weights . . . . .	500 00	531 89	31 89	

## STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Health and Sanitation:—				
Health Department . . . . .	\$350 00	\$635 64	\$285 64	.....
Contagious Hospital . . . . .	7,000 00	6,903 23	.....	96 77
Inspection Milk and Vinegar . . . . .	650 00	350 25	.....	299 75
Sanitary Department . . . . .	15,000 00	16,546 00	1,546 00	.....
Highways:—				
Highway Maintenance . . . . .	2,500 00	3,957 56	1,457 56	.....
Sidewalks Construction . . . . .	.....	3 50	3 50	.....
Highway Buildings . . . . .	240 00	240 00	.....	.....
Street Sprinkling . . . . .	.....	37 50	37 50	.....
Sidewalks Maintenance . . . . .	.....	50 00	50 00	.....
Charities:—				
City Home . . . . .	8,500 00	10,690 87	2,190 87	.....
Poor Department, Miscellaneous . . . . .	20,000 00	19,544 27	.....	455 73
Soldiers' Benefits:—				
State Aid . . . . .	13,000 00	11,894 00	.....	1,106 00
Military Aid . . . . .	175 00	202 50	27 50	.....
Soldiers' Burials . . . . .	600 00	295 27	.....	304 73
State Aid—Allied War . . . . .	25,000 00	14,226 98	.....	10,773 02
Education:—				
School Contingent . . . . .	4,000 00	4,675 17	675 17	.....
Maintenance of School Buildings . . . . .	1,400 00	1,034 64	.....	365 36
Library . . . . .	1,300 00	1,969 76	669 76	.....
Recreation and Unclassified:—				
Electrolysis . . . . .	500 00	500 00	.....	.....
Bathhouse . . . . .	750 00	531 45	.....	218 55
Shower Baths . . . . .	250 00	317 10	67 10	.....
Municipal Food Supply . . . . .	14,000 00	6,687 11	.....	7,312 89
Miscellaneous . . . . .	.....	328 34	328 34	.....
Public Service Enterprises:—				
Water Department . . . . .	244,000 00	248,544 27	4,544 27	.....

Interest:									
Bank Deposits	.	.	.	.	.	10,500 09	500 09	.....	
Deferred Taxes	.	.	.	.	.	11,922 42	.....	77 58	
Deferred Special Assessments	.	.	.	.	.	416 37	116 37	.....	
Totals	.	.	.	.	.	<u>\$527,648 75</u>	<u>\$20,931 48</u>		<u>\$30,322 73</u>
Estimate	.	.	.	.	.				\$537,040 00
Actual	.	.	.	.	.				<u>527,648 75</u>
Deficit	.	.	.	.	.				<u>\$9,391 25</u>

STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

	Appropriation	Appropriation	Receipts and	Total	Expenditures	Balance to
	Trans. from	Trans. to	Service Trans.	Credit		Excess and
						Deficiency
<b>General Government.</b>						
Board of Aldermen . . . . .	\$1,100 00	\$10 00	.....	\$1,110 00	\$1,107 96	\$2 04
Clerk of Committees . . . . .	2,700 00	.....	.....	2,700 00	2,683 09	16 91
Executive Department . . . . .	6,850 00	.....	.....	6,850 00	6,461 72	388 28
Auditing Department . . . . .	5,490 00	160 00	.....	5,650 00	5,635 46	14 54
Treasury Department . . . . .	17,715 00	90 00	.....	17,805 00	17,800 90	4 10
Assessors' Department . . . . .	15,970 00	175 00	.....	16,145 00	16,143 50	1 50
Pedlers' License Commission	50 00	.....	.....	50 00	25 08	24 92
Certification of Notes and						
Bonds . . . . .	200 00	80 00	.....	280 00	275 61	4 39
City Clerk's Department . . . . .	8,570 00	260 00	1,209 80	10,039 80	10,016 88	22 92
Registration City Laborers . . . . .	415 00	.....	.....	415 00	407 40	7 60
Law Department . . . . .	2,850 00	100 00	.....	2,750 00	2,719 66	30 34
City Messenger's Department	4,700 00	.....	.....	4,700 00	4,671 60	28 40
Engineering Department . . . . .	12,540 00	900 00	34 00	13,474 00	13,473 42	58
Commissioner of Public Build-						
ings . . . . .	6,815 00	140 00	.....	6,955 00	6,954 03	97
Maintenance Municipal Build-						
ings . . . . .	10,504 00	45 00	265 60	10,814 60	10,785 50	29 10
City Planning Board . . . . .	150 00	.....	.....	50 00	48 26	1 74
Election Expenses, City						
Clerk . . . . .	2,185 00	160 00	.....	2,345 00	2,342 83	2 17
Election Expenses, Registrars						
of Voters . . . . .	3,000 00	55 00	.....	3,055 00	3,053 44	1 56
Pay of Election Officers . . . . .	4,400 00	.....	.....	4,400 00	4,400 00	.....
Maintenance Polling Places	445 00	30 00	.....	475 00	474 29	71

STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
<b>Protection of Persons and Property.</b>							
Police Department . . . . .	\$147,149 00	265 00	375 00	147,259 00	147,240 04	18 96	
Maintenance Police Buildings . . . . .	3,805 00	900 00	900 00	3,805 00	3,795 42	9 58	
Fire Department . . . . .	142,300 00	900 00	250 00	142,910 40	142,878 51	31 89	
Maintenance Fire Buildings . . . . .	9,545 00	3,370 00	50 00	10,054 70	10,050 72	3 98	
Weights and Measures . . . . .	3,370 00	600 00	600 00	3,420 00	3,412 77	7 23	
Electrical Department . . . . .	15,830 00	612 00	1,000 00	15,670 15	15,596 25	73 90	
Maintenance Electrical Buildings . . . . .	612 00	1,300 00	1,300 00	612 00	567 09	44 91	
Suppression of Moths . . . . .	3,700 00	1,000 00	1,000 00	4,700 00	4,700 00	.....	
Care of Trees . . . . .	3,600 00	1,300 00	1,300 00	4,911 09	4,907 68	3 41	
<b>Health and Sanitation.</b>							
Health Department . . . . .	\$14,925 00	65 00	600 00	15,527 00	15,518 02	8 98	
Vital Statistics . . . . .	1,200 00	250 72	250 72	1,135 25	1,131 99	3 26	
Contagious Hospital . . . . .	22,365 00	30 00	30 00	22,615 72	22,580 42	35 30	
Maintenance Contagious Hospital . . . . .	4,540 00	107 81	107 81	4,570 00	4,567 38	2 62	
Inspection Animals and Provisions . . . . .	1,735 00	100 00	100 00	1,835 00	1,834 88	12	
Inspection Milk and Vinegar . . . . .	3,695 00	405 00	405 00	4,100 00	4,095 86	4 14	
Inspection School Children . . . . .	1,660 00	65 00	65 00	1,725 00	1,722 25	2 75	
School Nurses' Salaries . . . . .	1,750 00	20,660 00	20,660 00	1,750 00	1,713 57	36 43	
Sewers Maintenance . . . . .	20,660 00	170 00	170 00	20,767 81	20,766 62	1 19	
Maintenance Sewer Buildings . . . . .	300 00	130 00	130 00	130 00	119 87	10 13	
Sanitary Department . . . . .	125,550 00	13,050 00	13,050 00	138,613 00	138,607 91	5 09	

## STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Maintenance Sanitary Build- ings . . . . .	1,090 00	85 00	18 50	1,023 50	981 26	42 24
Street Cleaning . . . . .	27,000 00	2,000 00	.....	25,900 00	25,890 70	9 30
<b>Highways.</b>						
Highway Maintenance . . . . .	\$49,675 00	4,503 37	22,922 06	77,100 43	76,784 00	316 43
Sidewalks Maintenance . . . . .	6,900 00	200 00	.....	7,100 00	7,098 87	1 13
Street Sprinkling . . . . .	37,000 00	685 00	.....	37,685 00	37,684 64	36
Street Lighting . . . . .	63,000 00	140 00	.....	62,860 00	62,841 88	18 12
Maintenance Highway Build- ings . . . . .	1,050 00	160 00	32 04	922 04	917 35	4 69
<b>Charities.</b>						
Poor Department — Miscel- laneous . . . . .	\$66,500 00	.....	155 65	67,685 65	67,682 53	3 12
Poor Department — City Home . . . . .	15,635 00	.....	.....	15,795 00	15,789 34	5 66
Maintenance City Home Buildings . . . . .	3,100 00	.....	.....	3,100 00	2,994 33	105 67
Soldiers' Benefits — General Administration . . . . .	1,235 00	.....	.....	1,235 00	1,213 27	21 73
Military Aid . . . . .	350 00	1,000 00	45 00	1,395 00	495 00	900 00
State Aid . . . . .	13,000 00	.....	50 00	13,050 00	11,944 00	1,106 00
State Aid — Allied War Soldiers' Relief . . . . .	25,000 00	1,000 00	914 39	24,914 39	15,141 37	9,773 02
Soldiers' Burials . . . . .	22,000 00	160 00	76 50	21,916 50	21,867 15	49 35
	600 00	.....	.....	600 00	295 27	304 73
<b>Education and Libraries.</b>						
School Contingent . . . . .	\$43,790 00	50 00	.....	43,740 00	43,730 69	9 31
School Teachers' Salaries . . . . .	453,000 00	.....	.....	461,000 00	460,791 69	208 76

STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

CITY AUDITOR.

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	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
School Janitors' Services . . . . .	46,042 00		2,450 00	119 00	48,611 00	48,560 07	50 93
Fuel and Light . . . . .	36,300 00		400 00		36,700 00	36,698 04	1 96
Buildings and Grounds . . . . .	34,300 00	1,000 00	5,000 00	742 66	39,042 66	38,843 44	199 22
Central Library . . . . .	22,665 00				22,665 00	22,654 93	10 07
Maintenance Central Library	3,810 00		425 00		4,235 00	4,218 50	16 50
West Somerville Branch Li-							
brary . . . . .	6,843 00				6,843 00	6,842 97	03
Maintenance West Somerville							
Branch Library . . . . .	2,275 00				2,275 00	2,198 28	76 72
East Somerville Branch Li-							
brary . . . . .	3,571 00				3,571 00	3,570 94	06
Maintenance East Somerville							
Branch Library . . . . .	1,594 00				1,594 00	1,565 40	28 60
Union Square Branch Li-							
brary . . . . .	3,630 00				3,630 00	3,629 88	12
Maintenance Union Square							
Branch Library . . . . .	1,640 00				1,640 00	1,548 39	91 61
<b>Recreation and Unclassified.</b>							
Parks Maintenance . . . . .	\$9,990 00	900 00			9,090 00	9,089 46	54
Maintenance Park Build-							
ings . . . . .	1,044 00		160 00		1,204 00	1,202 76	1 24
Playgrounds Maintenance . . . . .	4,050 00		100 00	165 87	4,315 87	4,312 97	2 90
Playground and Recreation							
Commission . . . . .	4,050 00	350 00			3,700 00	3,677 43	22 57
Maintenance Bathhouse . . . . .	2,972 00	665 00			2,307 00	2,247 84	59 16
Celebrations . . . . .	5,000 00	300 00	2,570 00		7,270 00	7,268 11	1 89
Memorial Day . . . . .	425 00				425 00	404 87	20 13
Municipal Food Supply . . . . .	15,000 00				15,000 00	6,751 86	8,248 14

STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

	Appropriation	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Municipal Documents . . .	1,435 00	.....	.....	.....	1,435 00	1,409 69	25 31
Contingent Fund . . .	10,000 00	10,000 00	.....	.....	.....	.....	.....
Workmen's Compensation . . .	5,000 00	1,450 00	.....	.....	3,550 00	3,524 67	25 33
Pensions . . .	22,500 00	1,705 00	.....	.....	20,795 00	20,566 58	228 42
Damage to Persons and Personal Property . . .	5,000 00	.....	.....	.....	5,000 00	4,824 65	175 35
<b>Municipal Indebtedness.</b>							
Interest . . .	*\$107,269 50	4,500 00	.....	280 00	103,049 50	101,774 53	†1,274 97
Reduction of Funded Debt . . .	232,500 00	.....	.....	.....	232,500 00	232,500 00	.....
<b>Water Works.</b>							
Water Maintenance . . .	57,250 00	3,000 00	.....	5,003 55	59,253 55	58,496 47	757 08
Water Works Extension . . .	7,000 00	.....	.....	.....	7,000 00	6,186 41	813 59
Maintenance Water Buildings . . .	1,045 00	70 00	.....	203 84	1,178 84	1,068 85	109 99
Interest on Water Bonds . . .	240 00	.....	.....	.....	240 00	240 00	.....
Reduction of Funded Debt, Water . . .	4,000 00	.....	.....	.....	4,000 00	4,000 00	.....
Metropolitan Water Assessment . . .	128,950 00	725 00	.....	.....	128,225 00	128,082 90	142 10
<b>Total Appropriations . . .</b>	<b>\$2,252,255 50</b>	<b>\$30,460 00</b>	<b>\$46,913 37</b>	<b>\$34,833 58</b>	<b>\$2,303,542 45</b>	<b>\$2,277,391 66</b>	<b>\$26,150 79</b>

\* Including balance of \$5,269.50 from 1918.

† Reserved for 1920, \$1,215.00.



STATEMENT OF APPROPRIATIONS, 1919 (REVENUE).

CITY AUDITOR.

	Balance from 1918	Receipts	Total Credit	Expenditures	Balance to 1920
<b>Other Accounts.</b>					
Income of Trust Funds:—					
School:—					
S. Newton Cutler . . . . .	\$511 29	\$214 50	\$725 79	\$232 68	\$493 11
Smith-Hughes . . . . .	788 24	1,593 61	2,381 85	1,039 00	1,342 85
Library:—					
S. Newton Cutler . . . . .	26 11	42 88	68 99	68 84	15
Martha R. Hunt, Art . . . . .	314 29	95 00	409 29	96 40	312 89
Martha R. Hunt, Book . . . . .	279 34	295 30	774 64	771 09	3 55
Hunt Fund for Expenses . . . . .	202 77	.....	202 77	.....	202 77
Isaac Pitman, Art . . . . .	87 40	171 32	258 72	66 30	192 42
Isaac Pitman, Poetry . . . . .	29 84	42 82	72 66	41 29	31 37
Frances A. Wilder . . . . .	11 26	4 50	15 76	13 28	2 48
Poor:—					
Olive C. Cummings . . . . .	50 00	82 02	132 02	.....	132 02
Tellers' Overs and Shorts . . . . .	10 28	67 56	77 84	77 84	.....
Temporary Loans . . . . .	.....	.....	1,609,000 00	1,609,000 00	.....
Tax Titles . . . . .	.....	.....	1,576 95	1,576 95	.....
State Taxes and Assessments . . . . .	.....	.....	543,442 53	543,442 53	.....
County Tax . . . . .	.....	.....	99,068 47	99,068 47	.....
Advance to Poor Department . . . . .	.....	.....	50 00	50 00	.....
Cash Refunds:—					
Taxes . . . . .	.....	.....	460 55	460 55	.....
Special Assessments . . . . .	.....	.....	45 44	45 44	.....
Water . . . . .	.....	.....	103 01	103 01	.....
Total Other Accounts . . . . .	\$2,310 82	\$2,609 51	\$2,258,867 28	\$2,256,153 67	\$2,713 61
Revenue Totals . . . . .			4,562,409 73	4,533,545 33	28,864 40

STATEMENT OF APPROPRIATIONS, 1919 (NON-REVENUE).

	Balance from 1918	Appropriation from 1918	Appropriation Trans. to	Appropriation Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1920
<b>Protection of Persons and Personal Property.</b>							
Department, Underground							
Wires	\$303 14	\$2,000 00	\$960 79		\$3,263 93		\$3,263 93
Extreme Emergency and Safety	9,148 67			13 87	9,162 54	4,396 36	4,766 18
Sewers Construction	1,045 77	4,250 00		142 50	5,438 27	4,753 52	684 75
<b>Highways.</b>							
New Streets Permanent	274 19	35,000 00	2,099 07		33,175 12	33,175 12	
Pavement	1 62	40,000 00			40,001 62	20,355 62	19,646 00
Macadam Pavement	263 64		263 64				
Sidewalks Construction	43	15,000 00	263 64	2 50	15,266 57	15,266 36	21
Reconstruction and Resurfacing		50,000 00	\$1,534 30		48,645 70	48,645 70	
<b>Schools.</b>							
Bennett School Addition	\$166 17				166 71		166 71
S. Newton Cutler School Addition	445 34		445 34				

STATEMENT OF APPROPRIATIONS, 1919 (NON-REVENUE).

	Balance from 1918	Appropriation	Appropriation Transfer from	Appropriation Transfers to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1920
New School Building, East Somerville . . . . .	1,046 70	.....	.....	.....	.....	1,046 70	.....	1,046 70
Schoolhouses, Sprinkler Systems . . . . .	3,539 88	.....	.....	.....	.....	\$3,539 88	.....	\$3,539 88
New School Building, Holland Street . . . . .	200 00	.....	.....	.....	.....	200 00	\$200 00	.....
Southern Junior High School . . . . .	245 80	.....	90 55	.....	.....	155 25	155 25	.....
Boys' Industrial School Addition, No. 1 . . . . .	572 76	.....	5 27	.....	.....	567 49	567 49	.....
Boys' Industrial School Addition, No. 2 . . . . .	3,715 34	.....	.....	.....	.....	3,715 34	3,361 99	353 35
Recreation. Field House, Somerville Field . . . . .	2,997 25	.....	.....	541 16	.....	3,538 41	.....	3,538 41
Unclassified. Building Public Buildings . . . . .	548 11	.....	.....	.....	.....	548 11	.....	548 11
Grade Crossing Expenses . . . . .	960 79	.....	960 79	.....	.....	.....	.....	.....
Total Appropriation Accounts	\$25,476 14	\$146,250 00	\$5,218 96	\$1,765 59	\$158 87	\$168,431 64	\$130,877 41	\$87,554 23

CITY AUDITOR.

STATEMENT OF APPROPRIATIONS, 1919 (NON-REVENUE).

	Balance from 1918	Appropriation	Appropriation Transfer from	Appropriation from Transfers to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to 1920
Redemption Tax					2,159 21	2,159 21	2,159 21	
Liens								
Trust Fund Investment					578 82	578 82	578 82	
Non-Revenue Totals	\$25,476 14	\$146,250 00	\$5,218 96	\$1,765 59	\$2,896 90	\$171,169 67	\$133,615 44	\$37,554 23

## COMMONWEALTH OF MASSACHUSETTS.

## Payments.

State Tax . . . . .	\$192,830 00	
Special State Tax . . . . .	11,569 80	
State Highway Tax . . . . .	1,472 00	
Non-Resident Bank Tax . . . . .	3,126 34	
Boston Elevated Railway Tax . . . . .	169,593 77	
Metropolitan Sewer Assessment . . . . .	88,244 86	
Metropolitan Park Assessment . . . . .	50,517 52	
Wellington Bridge Assessment . . . . .	1,800 68	
Wellington Bridge Special Assessment . . . . .	1,593 90	
Grade Crossings Assessment . . . . .	11,551 75	
Charles River Basin Assessment . . . . .	7,917 24	
Alewife Brook Assessment . . . . .	1,169 30	
Abatement of Smoke Assessment . . . . .	357 94	
Fire Prevention Assessment . . . . .	1,389 80	
Soldiers' Exemption Assessment . . . . .	307 63	
	<hr/>	
Total . . . . .		\$543,442 53

## Receipts.

State Aid . . . . .	\$79,426 07	
Military Aid . . . . .	85 00	
Soldiers' Burials . . . . .	150 00	
Income Tax, 1919 . . . . .	87,880 00	
Income Tax, 1918 . . . . .	11,172 00	
Income Tax, 1917 . . . . .	6,384 00	
Mothers' Aid . . . . .	10,222 65	
General Aid to Poor . . . . .	5,390 73	
Tuition State Wards . . . . .	1,014 75	
Smith-Hughes Fund . . . . .	1,593 61	
In Lieu of Taxes . . . . .	78 20	
	<hr/>	
Total . . . . .		\$203,397 01

## COUNTY OF MIDDLESEX.

County Tax . . . . .	\$99,068 47
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## STATEMENT OF REVENUE AND EXPENSES.

## Revenue.

Total amount as per assessors' commitments		\$2,304,530 68
Less State Taxes . . . . .	\$378,591 91	
County Tax . . . . .	99,068 47	
Overlay . . . . .	11,426 31	
	<hr/>	489,086 69
Amount raised for municipal purposes . . . . .		\$1,815,443 99
Other Revenue:—		
Commonwealth of Massachusetts,		
Income Tax, 1917, Excess . . . . .	\$6,384 00	
Income Tax, 1918, Excess . . . . .	5,394 48	
Income Tax, 1919 . . . . .	94,295 00	
Sale of Land, Winter Hill . . . . .	500 00	
Revenue from Taxes, Supplementary War- rants 1917 and 1918 . . . . .	2,203 86	
Reserve Fund, Surplus from Overlays . . . . .	8,000 00	
(For School Teachers' Salaries Account)		
Estimated Revenue . . . . .	\$537,040 00	
Less Deficit . . . . .	9,391 25	
	<hr/>	527,648 75
Transfer from Excess and Deficiency . . . . .	71,000 00	
	<hr/>	715,426 09
Total . . . . .		\$2,530,870 08

## Expenses.

General Appropriations . . . . .	\$2,233,050 21	
Outlay Appropriations . . . . .	106,250 00	
Metropolitan and Other Assessments . . . . .	164,850 62	
Tellers' Overs and Shorts . . . . .	67 56	
	<hr/>	\$2,506,218 39
Excess of Revenue . . . . .		\$24,651 69

TEMPORARY LOANS, 1919.

Taken By	Nos.	Issued	Due	Rate	Amount	Paid
Salomon Bros. & Hutzler	668 @ 675	Feb. 11, 1919	Nov. 3, 1919	4 00%	\$200,000 00	Nov. 3, 1919
Salomon Bros. & Hutzler	676 @ 687	Mar. 27, 1919	Nov. 5, 1919	4 34		
Old Colony Trust Company	689	Mar. 27, 1919	Nov. 5, 1919	+\$5 00	300,000 00	Nov. 5, 1919
Old Colony Trust Company	690 @ 691	April 3, 1919	Sept. 12, 1919	4 33	100,000 00	Nov. 5, 1919
Old Colony Trust Company	692 @ 693	April 17, 1919	Nov. 20, 1919	4 33	50,000 00	Sept. 12, 1919
Old Colony Trust Company	694 @ 703	June 9, 1919	Nov. 20, 1919	4 43	50,000 00	Nov. 20, 1919
Salomon Bros. & Hutzler	704 @ 707	June 27, 1919	Dec. 12, 1919	4 25	200,000 00	Nov. 20, 1918
Old Colony Trust Company	708 @ 713	July 17, 1919	June 10, 1920	4 24	100,000 00	Dec. 12, 1919
Old Colony Trust Company	714 @ 723	Aug. 18, 1919	Mar. 10, 1920	+\$11 00	100,000 00	
Old Colony Trust Company	724 @ 729	Sept. 9, 1919	Mar. 10, 1920	4 25	150,000 00	
White, Weld & Company	730 @ 734	Sept. 16, 1919	June 15, 1920	4 46	100,000 00	
*F. S. Moseley & Company	C-73 @ C74	Sept. 16, 1919	Sept. 16, 1920	+\$3 00	50,000 00	
S. N. Bond & Company	735 @ 740	Sept. 25, 1919	May 20, 1920	4 38	27,000 00	
				4 50		
				4 25	100,000 00	
				+\$5 00		
Total amount of 1919 loans					\$1,527,000 00	
Outstanding January 1, 1919					609,000 00	
Payments, 1919					\$2,136,000 00	
Outstanding December 31, 1919					1,609,000 00	
* Coupon Notes.					\$527,000 00	

## FUNDED DEBT.

The total funded debt of the city January 1, 1919, was \$1,506,000. The debt was increased by one new loan of \$40,000. Reduction of debt through maturities was \$236,500, leaving a total debt December 31, 1919, of \$1,309,500.

## Classified Debt January 1, 1919.

City Loan . . . . .	\$490,000 00	
Municipal Loan . . . . .	39,000 00	
Sewer Loan . . . . .	259,000 00	
Public Building Loan . . . . .	302,000 00	
Highway Loan . . . . .	327,000 00	
Bridge Loan . . . . .	31,000 00	
Emergency Loan . . . . .	20,000 00	
	<hr/>	
Total inside limit . . . . .		\$1,468,000 00
Sewer Loan . . . . .	\$21,000 00	
Metropolitan Park Loan . . . . .	11,000 00	
Water Loan . . . . .	6,000 00	
	<hr/>	
Total outside limit . . . . .		38,000 00
		<hr/>
Total Funded Debt . . . . .		\$1,506,000 00

## Loan Increasing the Debt.

Permanent Pavement . . . . .	\$40,000 00
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Debt reductions by maturities were as follows:—

City Loan . . . . .	\$92,500 00	
Municipal Loan . . . . .	8,000 00	
Sewer Loan . . . . .	20,000 00	
Public Building Loan . . . . .	24,000 00	
Highway Loan . . . . .	78,000 00	
Bridge Loan . . . . .	1,000 00	
Emergency Loan . . . . .	5,000 00	
	<hr/>	
Total inside limit . . . . .		\$228,500 00
Sewer Loan . . . . .	\$3,000 00	
Metropolitan Park Loan . . . . .	1,000 00	
Water Loan . . . . .	4,000 00	
	<hr/>	
Total outside limit . . . . .		\$8,000 00
		<hr/>
Total Reduction . . . . .		\$236,500 00



## Classified Debt December 31, 1919.

City Bonds, 3½%	.	.	.	.	.	\$48,000 00
City Bonds, 4%	.	.	.	.	.	309,500 00
City Bonds, 4¼%	.	.	.	.	.	40,000 00
Municipal Bonds, 4½%	.	.	.	.	.	31,000 00
Sewer Bonds, 3½%	.	.	.	.	.	68,000 00
Sewer Bonds, 4%	.	.	.	.	.	147,000 00
Sewer Bonds, 4¼%	.	.	.	.	.	24,000 00
Public Building Bonds, 4%	.	.	.	.	.	198,000 00
Public Building Bonds, 4½%	.	.	.	.	.	80,000 00
Highway Bonds, 4½%	.	.	.	.	.	46,000 00
Highway Bonds, 4%	.	.	.	.	.	172,000 00
Highway Bonds, 3½%	.	.	.	.	.	71,000 00
Bridge Bonds, 3½%	.	.	.	.	.	30,000 00
Emergency Bonds, 4½%	.	.	.	.	.	15,000 00
						<hr/>
Total within limit	.	.	.	.	.	\$1,279,500 00
Sewer Bonds, 4%	.	.	.	.	.	\$18,000 00
Metropolitan Park Bond, 3½%	.	.	.	.	.	10,000 00
Water Bonds, 4%	.	.	.	.	.	2,000 00
						<hr/>
Total outside limit	.	.	.	.	.	30,000 00
						<hr/>
Total Funded Debt	.	.	.	.	.	\$1,309,500 00

FUNDED DEBT, DECEMBER 31, 1919.

33  
00

ANNUAL REPORTS.

Mature	City Loan	Municipal Loan	Sewer Loan	Public Building Loan	Highway Loan	Lowell Street Bridge Loan	Sewer Loan Chap. 357, 1895	Metropolitan Park Assessment Loan Chap. 325, 1902	Water Loan	Emergency Loan	Total Maturities By Years
1920	\$79,500	\$8,000	\$20,000	\$24,000	\$68,000	\$1,000	\$3,000	\$1,000	\$2,000	\$5,000	\$211,500
1921	68,500	8,000	20,000	24,000	59,000	1,000	3,000	1,000		5,000	189,500
1922	52,500	8,000	20,000	19,000	50,000	1,000	3,000	1,000		5,000	159,500
1923	41,500	7,000	18,000	18,000	31,000	1,000	3,000	1,000			120,500
1924	25,500		17,000	18,000	31,000	1,000	3,000	1,000			96,500
1925	23,000		17,000	18,000	20,000	1,000	3,000	1,000			83,000
1926	19,000		15,000	18,000	15,000	1,000		1,000			69,000
1927	19,000		14,000	17,000	7,000	1,000		1,000			59,000
1928	17,000		12,000	16,000	4,000	1,000		1,000			51,000
1929	16,000		11,000	16,000	4,000	1,000		1,000			49,000
1930	15,000		10,000	16,000		1,000		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
	\$397,500	\$31,000	\$239,000	\$278,000	\$289,000	\$30,000	\$18,000	\$10,000	\$2,000	\$15,000	\$1,309,500

MATURITIES ON FUNDED DEBT, 1920.

Class of Loan	Jan. 1, 1920	April 1, 1920	July 1, 1920	Oct. 1, 1920	Total
City . . . . .	\$9,000 00	\$41,000 00	\$27,500 00	\$2,000 00	\$79,500 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 . . . . .	17,000 00	46,000 00	5,000 00	.....	68,000 00
Bridge . . . . .	.....	1,000 00	.....	.....	1,000 00
Metropolitan Park . . . . .	.....	.....	1,000 00	.....	1,000 00
Water . . . . .	.....	.....	.....	.....	.....
Extreme Emergency . . . . .	.....	.....	5,000 00	2,000 00	2,000 00
Total . . . . .	\$35,000 00	\$103,000 00	\$69,500 00	\$4,000 00	\$211,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT, 1920.

Class of Loan	Jan. 1, 1920	April 1, 1920	July 1, 1920	Oct. 1, 1920	Total
City . . . . .	\$3,840 00	\$4,040 00	\$3,660 00	\$3,217 50	\$14,757 50
Municipal . . . . .	697 50	.....	697 50	.....	1,395 00
Sewer . . . . .	1,740 00	3,260 00	1,685 00	3,063 75	9,748 75
Public Buildings . . . . .	4,300 00	1,460 00	4,180 00	1,360 00	11,300 00
Highway . . . . .	1,697 50	4,020 00	1,400 00	3,090 00	10,207 50
Bridge . . . . .	.....	525 00	.....	507 50	1,032 50
Metropolitan Park . . . . .	175 00	.....	175 00	.....	350 00
Water . . . . .	.....	40 00	.....	40 00	80 00
Extreme Emergency . . . . .	318 75	.....	318 75	.....	637 50
Total . . . . .	\$12,768 75	\$13,345 00	\$12,116 25	\$11,278 75	\$49,508 75

MATURITIES ON FUNDED DEBT (SIX YEARS).

Class of Loan	1915	1916	1917	1918	1919	1920	Total
	City . . . . .	\$150,500 00	\$131,500 00	\$118,500 00	\$105,500 00	\$92,500 00	\$79,500 00
Municipal . . . . .	10,000 00	10,000 00	10,000 00	8,000 00	8,000 00	8,000 00	54,000 00
Sewer . . . . .	20,000 00	20,000 00	22,000 00	23,000 00	23,000 00	23,000 00	131,000 00
Public Buildings . . . . .	.....	8,000 00	19,000 00	24,000 00	24,000 00	24,000 00	99,000 00
Highway . . . . .	18,000 00	36,000 00	56,000 00	79,000 00	78,000 00	68,000 00	335,000 00
Bridge . . . . .	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Metropolitan Park . . . . .	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Water . . . . .	5,000 00	5,000 00	5,000 00	5,000 00	4,000 00	2,000 00	26,000 00
Extreme Emergency . . . . .	.....	.....	.....	5,000 00	5,000 00	5,000 00	15,000 00
Total . . . . .	\$205,500 00	\$212,500 00	\$232,500 00	\$251,500 00	\$236,500 00	\$211,500 00	\$1,350,000 00

INTEREST REQUIREMENTS ON FUNDED DEBT (SIX YEARS).

Class of Loan	1915	1916	1917	1918	1919	1920	Total
	City . . . . .	\$37,558 75	\$31,768 75	\$26,606 25	\$22,143 75	\$18,162 50	\$14,757 50
Municipal . . . . .	3,465 00	3,015 00	2,565 00	2,115 00	1,755 00	1,395 00	14,310 00
Sewer . . . . .	13,176 25	12,708 75	12,306 25	11,533 75	10,641 25	9,748 75	70,115 00
Public Buildings . . . . .	2,040 00	7,240 00	9,980 00	13,270 00	12,285 00	11,300 00	56,115 00
Highway . . . . .	6,640 00	9,747 50	13,822 50	14,325 00	11,262 50	10,207 50	66,005 00
Bridge . . . . .	1,207 50	1,172 50	1,137 50	1,102 50	1,067 50	1,032 50	6,720 00
Metropolitan Park . . . . .	525 00	490 00	455 00	420 00	385 00	350 00	2,625 00
Water . . . . .	1,040 00	840 00	640 00	440 00	240 00	80 00	3,280 00
Extreme Emergency . . . . .	.....	.....	.....	1,062 50	850 00	637 50	2,550 00
Total . . . . .	\$65,652 50	\$66,982 50	\$67,512 50	\$66,412 50	\$56,648 75	\$49,508 75	\$372,717 50

## BORROWING CAPACITY DECEMBER 31, 1919.

Valuation, 1917 . . . . .	\$78,921,472 00	
Supplementary . . . . .	13,900 00	\$78,935,372 00
	<hr/>	
Valuation, 1918 . . . . .	\$84,639,280 00	
Supplementary . . . . .	24,700 00	84,663,980 00
	<hr/>	
Valuation, 1919 . . . . .	\$87,353,424 00	
Supplementary . . . . .	39,300 00	87,392,724 00
	<hr/>	
		\$250,992,076 00
Abatements, 1917 . . . . .	\$476,650 00	
Abatements, 1918 . . . . .	373,389 00	
Abatements, 1919 . . . . .	275,675 00	1,125,714 00
	<hr/>	
		\$249,866,362 00
Average valuation for three years . . . . .		\$83,288,787 33
Two and one-half per cent. . . . .		2,092,219 68
Present debt within limit . . . . .		1,279,500 00
		<hr/>
Borrowing capacity December 31, 1919 . . . . .		\$802,719 68
Maturities:—		
January 1, 1920 . . . . .	\$35,000 00	
April 1, 1920 . . . . .	103,000 00	
July 1, 1920 . . . . .	\$69,500 00	
Less outside limit . . . . .	4,000 00	
	<hr/>	65,500 00
October 1, 1920 . . . . .	\$4,000 00	
Less outside limit . . . . .	2,000 00	
	<hr/>	2,000 00
		<hr/>
Maturities in 1920 within limit . . . . .		\$205,500 00
		<hr/>
		\$1,008,219 68
		<hr/>
Total maturities on funded debt, 1920 . . . . .		\$211,500 00

**ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEARS.**

Charges:—			
Street Sprinkling, 1918 . . . . .		\$16 15	
Highway Betterments, 1918 . . . . .		360 58	
Sidewalks, 1917 . . . . .		46 72	
		<hr/>	\$423 45
Credit:—			
Excess and Deficiency . . . . .			\$423 45

**REFUNDS TAXES, CHAPTER 49, ACTS 1918.**

Charges:—			
Taxes 1917 Refunded . . . . .			\$2 00
Credit:—			
Excess and Deficiency . . . . .			\$2 00

**WATER CHARGES 1918 REFUNDED OR ABATED.**

Charges:—			
Metered . . . . .		\$59 46	
Annual . . . . .		28 99	
		<hr/>	\$88 45
Credit:—			
Excess and Deficiency . . . . .			\$88 45

**TELLERS' OVERS AND SHORTS.**

Credit:—			
Balance from 1918 account . . . . .		\$10 28	
Appropriation from Revenue . . . . .		67 56	
		<hr/>	\$77 84
Charges:—			
Shortages . . . . .			\$77 84

**STATE INCOME TAX, 1917.**

Charges:—			
To Revenue 1919 . . . . .			\$6,384 00
Credit:—			
Cash Excess from Commonwealth . . . . .			\$6,384 00

**STATE INCOME TAX, 1918.**

Charges:—			
Balance due from Commonwealth . . . . .		\$5,777 52	
Excess to Revenue 1919 . . . . .		5,394 48	
		<hr/>	\$11,172 00
Credit:—			
Cash from Commonwealth . . . . .			\$11,172 00

**STATE INCOME TAX, 1919.**

Charges:—			
Estimate account General School Fund . . . . .		\$68,000 00	
Estimate account General Purposes . . . . .		26,295 00	
		<hr/>	\$94,295 00
Credit:—			
Cash from Commonwealth . . . . .			\$87,880 00
			<hr/>
Balance due on estimate . . . . .			\$6,415 00

## REAL ESTATE LIENS AND TAX TITLES.

Charges:—			
Balance from 1918 account	. . . . .	\$1,219 53	
Titles purchased	. . . . .	1,576 95	
		<hr/>	\$2,796 48
Credit:—			
Cash	. . . . .		717 19
			<hr/>
Balance to 1920 account	. . . . .		\$2,079 29

## SALE OF LAND, WINTER HILL.

Credit:—			
Balance from 1918 account	. . . . .		\$500 00
Charge:—			
Revenue, 1919	. . . . .		500 00

## GRADE CROSSINGS ADVANCES.

Balance from 1918 account	. . . . .		\$427 30
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## TAILINGS.

Credits:—			
Balance from 1918 account	. . . . .		\$127 11
Cash, Taxes paid twice	. . . . .		164 54
		<hr/>	
Balance to 1920 account	. . . . .		\$291 65

## PREMIUMS ON BONDS.

Credit:—			
Premiums, Loan of April 1, 1919	. . . . .		\$132 00

## ACCRUED INTEREST ON BONDS.

Credit:—			
Cash, Loan of April 1, 1919	. . . . .		\$280 00
Charge:—			
Applied to Interest Appropriations, 1919	. . . . .		280 00

## REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credit:—			
Balance from 1918 account	. . . . .	\$2,214 18	
Supplementary Warrants Nos. 1 and 2, 1919	. . . . .	1,427 94	
		<hr/>	\$3,642 12
Charges:—			
Abatements	. . . . .	\$34 32	
Revenue, 1919	. . . . .	2,203 86	
		<hr/>	2,238 18
			<hr/>
Balance to 1920 account	. . . . .		\$1,403 94

## REDEMPTION OF TAX TITLES.

Credit:—			
Cash received	. . . . .		\$2,159 21
Charges:—			
Titles redeemed, cash paid	. . . . .		2,159 21

## OVERLAY ACCOUNT.

## Overlay, 1916.

Credit:—		
Balance from 1918 account . . . . .		\$1,416 92
Charges:—		
Abatements . . . . .	\$1,321 68	
Transferred to Reserve Fund . . . . .	95 24	
	<hr/>	\$1,416 92

## Overlay, 1917.

Credit:—		
Balance from 1918 account . . . . .	\$2,734 33	
Recommitment . . . . .	8 00	
	<hr/>	\$2,742 33
Charges:—		
Abatements . . . . .	\$1,133 60	
Transferred to Reserve Fund . . . . .	660 93	
	<hr/>	1,794 53
Balance to 1920 account . . . . .		<hr/> \$947 80

## Overlay, 1918.

Credit:—		
Balance from 1918 account . . . . .	\$22,006 30	
Recommitment . . . . .	4 00	
	<hr/>	\$22,010 30
Charges:—		
Abatements . . . . .	\$5,258 64	
Transferred to Reserve Fund . . . . .	15,765 74	
	<hr/>	21,024 38
Balance to 1920 account . . . . .		<hr/> \$985 92

## Overlay, 1919.

Credit:—		
Taxes, 1919 . . . . .	\$11,426 31	
Recommitment . . . . .	2 00	
	<hr/>	\$11,428 31
Charges:—		
Abatements . . . . .		8,472 42
Balance to 1920 account . . . . .		<hr/> \$2,955 89

## RESERVE FUND, SURPLUS FROM OVERLAY.

Credit:—		
Balance from 1918 account . . . . .	\$5,564 52	
Transfer, from, Overlay, 1916 . . . . .	95 24	
Overlay, 1917 . . . . .	660 93	
Overlay, 1918 . . . . .	15,765 74	
	<hr/>	\$22,086 43
Charges:—		
General Appropriations . . . . .		8,000 00
(School Teachers' Salaries)		<hr/>
Balance to 1920 account . . . . .		\$14,086 43



## EXCESS AND DEFICIENCY.

Credit:—			
Balance from 1918 account	.	.	\$73,027 18
Revenue 1919, Excess	.	.	24,651 69
			<hr/>
			\$97,678 87
Charges:—			
Transfers to reduce tax levy	.	.	\$71,000 00
Adjustment of charges to Commonwealth of Massachusetts account State Aid	.	.	368 00
Abatement Special Assessments, Prior Years	.	.	423 45
Refund Taxes Chap. 49, 1918	.	.	2 00
Water Charges 1918 Abated	.	.	88 45
			<hr/>
			71,881 90
Balance to 1920 account	.	.	\$25,796 97

## CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

## Receipts.

## General Revenue.

Taxes:—			
Taxes, 1919	.	.	\$1,970,375 74
Taxes, 1918	.	.	358,802 43
Taxes, 1917	.	.	664 93
Taxes, 1916	.	.	95 24
From State:—			
Corporation	.	.	42,626 27
National Bank	.	.	5,650 79
Street Railway	.	.	13,169 85
Income Tax, 1919	.	.	87,880 00
Income Tax, 1918	.	.	11,172 00
Income Tax, 1917	.	.	6,384 00
Excise Tax, Ship Owners	.	.	258 10

## Licenses and Permits.

Licenses:—			
Amusement	.	.	1,119 00
Dealers Motor Vehicles	.	.	420 00
Junk	.	.	1,000 00
Milk	.	.	342 50
Pool and billiards	.	.	400 00
Sunday	.	.	535 00
Innholders and Victuallers	.	.	102 00
Pedlers	.	.	710 00
All other	.	.	308 50
Permits:—			
Marriage	.	.	1,228 00
Buildings	.	.	1,241 50
Garages	.	.	580 00
Electrical	.	.	1,318 00
Miscellaneous	.	.	82 00
			<hr/>
Carried forward	.	.	\$2,506,466 05

Brought forward . . . . .	\$2,506,466 05
<b>Fines and Forfeits.</b>	
Court Fines . . . . .	2,305 22
Departmental Penalties . . . . .	375 50
<b>Grants and Gifts.</b>	
From State, — Vocational Schools . . . . .	8,751 72
Smith-Hughes Fund . . . . .	1,593 61
From County, — Dog Licenses . . . . .	2,197 92
From Olive W. Cummings Estate . . . . .	578 82
<b>All Other General Revenue.</b>	
Real Estate Liens . . . . .	717 19
State, In Lieu of Taxes . . . . .	78 20
Total General Revenue . . . . .	<u>\$2,523,064 03</u>
<b>Commercial Revenue — Special Assessments.</b>	
For Expenses:—	
Street Sprinkling, 1919 . . . . .	\$30,433 51
Street Sprinkling, 1918 . . . . .	8,129 20
Street Sprinkling, 1917 . . . . .	16 60
Street Sprinkling, 1916 . . . . .	50
Moths, 1919 . . . . .	1,109 50
Moths, 1918 . . . . .	234 25
Moths, 1917 . . . . .	5 60
For Outlays:—	
Sewers, 1917 . . . . .	2,583 01
Sidewalks, 1919 . . . . .	562 90
Sidewalks, 1917 . . . . .	857 98
Street Betterments, 1919 . . . . .	1,685 19
Street Betterments, 1918 and 1917 . . . . .	7,958 67
Total Commercial Revenue — Special Assessments . . . . .	<u>\$53,576 91</u>
Carried forward . . . . .	<u>\$2,576,640 94</u>

## Commercial Revenue — Departmental.

Brought forward . . . . .	\$2,576,640	94
<b>General Government.</b>		
Treasurer and Collector . . . . .	\$7,170	99
Assessors . . . . .	19	50
City Clerk . . . . .	966	05
Other . . . . .	69	57
<b>Protection of Persons and Property.</b>		
Police Department:—		
Service of Officers . . . . .	172	15
Cloth . . . . .	527	42
Rent of Court Room . . . . .	1,000	00
Fire Department . . . . .	3	42
Sealer of Weights and Measures . . . . .	531	89
<b>Health and Sanitation.</b>		
Contagious Hospital . . . . .	6,903	23
Health Department . . . . .	635	64
Inspection . . . . .	350	25
Sanitary Department:—		
Garbage . . . . .	16,201	00
Incinerator . . . . .	345	00
<b>Highways.</b>		
Labor and Materials . . . . .	3,957	56
Moths . . . . .	3	00
Sidewalks Maintenance . . . . .	53	50
Street Sprinkling . . . . .	37	50
Rent of Tenements . . . . .	240	00
<b>Charities.</b>		
Almshouse:—		
Sale of produce, etc. . . . .	6,225	00
Board . . . . .	4,465	87
Outside Relief:—		
Individuals . . . . .	19	29
Cities and Towns . . . . .	1,605	87
State . . . . .	5,390	73
Mothers' Aid:—		
Cities and Towns . . . . .	2,305	73
State . . . . .	10,222	65
<b>Soldiers' Benefits.</b>		
State Aid . . . . .	79,426	07
Military Aid . . . . .	85	00
Burials . . . . .	150	00
<b>Education.</b>		
Tuition State Wards . . . . .	1,014	75
Other Tuition . . . . .	3,660	42
Rent High School Hall . . . . .	795	00
Miscellaneous, School Buildings . . . . .	239	64
<b>Libraries.</b>		
Fines, etc. . . . .	1,969	76
<b>Recreation.</b>		
Bathhouse . . . . .	531	45
Shower Baths . . . . .	317	10
<b>Unclassified.</b>		
Municipal Food Supply . . . . .	6,687	11
Electrolysis . . . . .	500	00
Miscellaneous . . . . .	255	41
Total Commercial Revenue — Departmental . . . . .		\$165,054 52
Carried forward . . . . .		\$2,741,695 46

**Commercial Revenue — Public Service Enterprises.**

Brought forward . . . . .		\$2,741,695 46
<b>Water Department:—</b>		
<b>Sale of Water:—</b>		
Metered, 1919 . . . . .	\$176,887 15	
Metered, 1918 . . . . .	27,512 21	
Annual . . . . .	41,811 72	
Additional . . . . .	1,706 32	
Service Assessments . . . . .	2,113 67	
Maintenance Bills . . . . .	3,559 31	
		<hr/>
Total Commercial Revenue — Public Service Enterprises . . . . .		\$253,590 33

**Commercial Revenue — Interest.**

Deposits . . . . .	\$10,500 09	
Taxes . . . . .	11,922 42	
Special Assessments . . . . .	416 37	
<b>Trust Funds:—</b>		
School . . . . .	214 50	
Library . . . . .	851 82	
Poor Department . . . . .	82 02	
Miscellaneous . . . . .	70 20	
		<hr/>
Total Commercial Revenue — Interest . . . . .		\$24,057 42

**Municipal Indebtedness.**

<b>Temporary Loans:—</b>		
Anticipation of Revenue . . . . .	\$1,527,000 00	
<b>General Loans:—</b>		
Highway . . . . .	40,000 00	
Premiums on Loans . . . . .	132 00	
		<hr/>
Total Municipal Indebtedness . . . . .		\$1,567,132 00

**Agency, Trust and Investment.**

Redemption of Tax Liens . . . . .		\$2,159 21
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**Refunds.**

Soldiers' Benefits . . . . .	\$1,310 68	
General Appropriations . . . . .	553 04	
Outlay Appropriations . . . . .	13 87	
Cash Advances, Poor Department . . . . .	4,101 00	
Miscellaneous . . . . .	287 67	
		<hr/>
Total Refunds . . . . .		\$6,266 26
		<hr/>
Total Receipts . . . . .		\$4,594,900 73

## EXPENDITURES.

## GENERAL GOVERNMENT.

	Expenses	Outlays
<b>Board of Aldermen Expenses.</b>		
Books, postage and supplies	\$41 32	
Printing and advertising .	99 25	
Binding . . . . .	13 75	
Auto hire, etc. . . . .	17 00	
Refreshments . . . . .	828 38	
Badges . . . . .	84 00	
All other . . . . .	24 26	
	<hr/>	
		1,107 96
<b>Clerk of Committees Department.</b>		
Salaries and Wages:—		
Clerk . . . . .	\$1,901 47	
Assistant Clerk . . . . .	624 90	
Other Expenses:—		
Books, postage and sup- plies . . . . .	54 75	
Printing and advertising	6 25	
Telephone . . . . .	83 72	
All other . . . . .	12 00	
	<hr/>	
		2,683 09
<b>Executive Department.</b>		
Salaries and Wages:—		
Mayor . . . . .	\$3,500 00	
Secretary and Clerks . . . . .	2,240 10	
Other Expenses:—		
Books, postage and sup- plies . . . . .	237 75	
Printing and advertising	106 85	
Inaugural expenses . . . . .	93 00	
Telephone . . . . .	91 20	
Auto hire . . . . .	12 00	
Contingent expenses . . . . .	139 05	
All other . . . . .	41 77	
	<hr/>	
		6,461 72
<b>Auditing Department.</b>		
Salaries and Wages:—		
Auditor . . . . .	\$2,802 38	
Clerks . . . . .	2,008 34	
Other Expenses:—		
Books, postage and sup- plies . . . . .	51 14	
Printing and advertising	599 55	
Binding . . . . .	28 20	
Telephone . . . . .	46 46	
Typewriter . . . . .	76 25	
All other . . . . .	23 14	
	<hr/>	
		5,635 46
Carried forward . . . . .		<hr/> \$15,888 23

	Expenses	Outlays
Brought forward . . .	\$15,888 23	
<b>Treasury Department.</b>		
Salaries and Wages:—		
Treasurer and Collector . . . . .	\$3,603 10	
Deputy Collector . . . . .	1,700 63	
Cashiers . . . . .	2,121 00	
Clerks . . . . .	6,351 74	
Other Expenses:—		
Books, postage and supplies . . . . .	1,690 19	
Printing and advertising . . . . .	1,272 13	
Carfares, teams, etc. . . . .	69 37	
Telephone . . . . .	158 44	
Bonds . . . . .	505 00	
Convention expenses . . . . .	67 68	
Check writer . . . . .	37 24	
Envelope sealer . . . . .	49 00	
All other . . . . .	175 38	
	<hr/>	17,800 90
<b>Assessors' Department.</b>		
Salaries and Wages:—		
Chairman . . . . .	\$2,551 97	
Assessors . . . . .	4,000 00	
Assistant Assessors . . . . .	1,500 00	
Clerks (Office) . . . . .	5,985 49	
Clerks (Street) . . . . .	400 00	
Other Expenses:—		
Books, postage and supplies . . . . .	612 83	
Printing and advertising . . . . .	957 91	
Carfares, auto hire etc. . . . .	39 16	
Telephone . . . . .	33 95	
All other . . . . .	62 19	
	<hr/>	16,143 50
<b>Pedlers' License Commission.</b>		
Books, postage and supplies . . . . .	\$19 58	
Printing . . . . .	5 50	
	<hr/>	25 08
<b>Certification of Notes and Bonds.</b>		
Certifying . . . . .	\$275 61	
	<hr/>	275 61
<b>City Clerk's Department.</b>		
Salaries and Wages:—		
City Clerk . . . . .	\$3,603 10	
Assistant City Clerk . . . . .	1,800 64	
Clerks . . . . .	2,874 76	
Other Expenses:—		
Books, postage and supplies . . . . .	209 46	
Carried forward . . . . .	<hr/> \$8,487 96	<hr/> \$50,133 32

		Expenses	Outlays
Brought forward . . . . .	\$8,487 96	\$50,133 32	
Printing and advertising . . . . .	53 75		
Binding . . . . .	11 50		
Telephone . . . . .	142 37		
Time stamp . . . . .	58 80		
Badges . . . . .	7 00		
All other . . . . .	45 70		
	<hr/>	8,807 08	
<b>Registration City Laborers.</b>			
Salaries and Wages:—			
Registration Clerk . . . . .	\$400 00		
Other Expenses:—			
Books, postage and supplies . . . . .	7 40		
	<hr/>	407 40	
<b>Law Department.</b>			
Salaries and Wages:—			
City Solicitor . . . . .	\$2,451 94		
Other Expenses:—			
Books, postage and supplies . . . . .	15 00		
Printing and advertising . . . . .	22 50		
Clerical hire . . . . .	156 00		
Witness fees, etc. . . . .	33 60		
Telephone . . . . .	20 00		
All other . . . . .	20 62		
	<hr/>	2,719 66	
<b>City Messenger's Department.</b>			
Salaries and Wages:—			
Messenger . . . . .	\$2,001 48		
Other Expenses:—			
Auto maintenance . . . . .	669 22		
Telephone . . . . .	23 55		
Carfares . . . . .	12 64		
New automobile . . . . .	1,964 71		
	<hr/>	4,671 60	
<b>Engineering Department.</b>			
Salaries and Wages:—			
City Engineer . . . . .	3,603 10		
Assistants . . . . .	7,054 92		
Clerks . . . . .	939 00		
Other Expenses:—			
Books, printing, postage etc. . . . .	155 59		
Telephone . . . . .	97 39		
Auto maintenance . . . . .	1,337 38		
Instruments and equipment . . . . .	24 16		
	<hr/>	<hr/>	
Carried forward . . . . .	\$13,211 54	\$66,739 06	

		Expenses	Outlays
Brought forward . . .	\$13,211 54	\$66,739 06	
Carfares . . . . .	222 67		
All other . . . . .	5 21		
		13,439 42	
<b>Public Buildings Department, Commissioner of Public Buildings.</b>			
Salaries and Wages:—			
Commissioner . . . . .	\$2,802 38		
Inspector of Plumbing . . . . .	1,648 86		
Clerks . . . . .	1,323 33		
Other Expenses:—			
Books, postage and supplies . . . . .	209 70		
Printing and advertising . . . . .	105 75		
Telephone . . . . .	143 30		
Auto maintenance . . . . .	703 40		
All other . . . . .	17 31		
		6,954 03	
<b>Maintenance Municipal Buildings, City Hall and City Hall Annex.</b>			
Salaries and Wages:—			
Janitors . . . . .	\$4,166 49		
Labor . . . . .	525 01		
Other Expenses:—			
Fuel and light . . . . .	2,505 24		
Furniture and furnishings . . . . .	1,437 39		
Janitors' supplies . . . . .	298 77		
Repairs, buildings . . . . .	804 28		
Heating apparatus and equipment . . . . .	13 91		
Plumbing and supplies . . . . .	251 90		
Hardware and materials . . . . .	77 36		
Ice . . . . .	279 78		
All other . . . . .	159 77		
		10,519 90	
<b>City Planning Board.</b>			
Clerical hire . . . . .	\$5 00		
Books, postage and supplies . . . . .	4 75		
Filing cabinets . . . . .	38 51		
		48 26	
<b>Election Expenses, City Clerk.</b>			
Salaries and Wages:—			
Clerks . . . . .	\$480 91		
Other Expenses:—			
Equipment and supplies . . . . .	364 74		
Printing and advertising . . . . .	1,082 41		
Carfares and auto hire . . . . .	263 25		
Ballot boxes and repairs . . . . .	126 55		
Refreshments . . . . .	22 57		
All other . . . . .	2 40		
		2,342 83	
Carried forward . . . . .		\$100,043 50	



	Expenses	Outlays
Brought forward . . .	\$100,043 50	

**Election Expenses, Registrars of Voters.**

Salaries and Wages:—

Registrars . . . . .	\$1,200 00
Clerks . . . . .	138 00
Clerical hire . . . . .	798 00

Other Expenses:—

Books, postage and supplies . . . . .	98 52
Printing and advertising . . . . .	789 94
Binding . . . . .	10 00
Refreshments . . . . .	6 98
Auto hire . . . . .	12 00

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3,053 44

**Election Expenses, Pay of Election Officers.**

Salaries and Wages:—

Wardens and clerks . . . . .	\$1,584 00
Inspectors . . . . .	2,816 00

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4,400 00

**Public Buildings Department, Maintenance Polling Places.**

Labor . . . . .	\$192 59
Teaming . . . . .	84 00
Rent . . . . .	130 00
Lumber . . . . .	24 94
Hardware and materials . . . . .	3 10
Fuel and light . . . . .	39 66

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474 29

**PROTECTION OF PERSONS AND PROPERTY.**

	Expenses	Outlays
<b>Extreme Emergency, Health and Safety.</b>		
Salaries and Wages:—		
Clerks . . . . .	\$1,214 60	
Investigator . . . . .	34 05	
Other Expenses:—		
Books, postage and supplies . . . . .	177 46	
Printing and advertising . . . . .	53 75	
Telephone . . . . .	97 36	
State Guard . . . . .	862 80	
Emergency Hospital:		
Contract for Construction . . . . .	1,454 95	
Labor and teams . . . . .	348 58	
Carried forward . . . . .	\$4,243 55	\$107,971 23

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		Expenses	Outlays
Brought forward . . .	\$4,243 55	\$107,971 23	
Materials and equip- ment . . . . .	25 90		
All other . . . . .	113 04		
	<hr/>		\$4,382 49
<b>Police Department.</b>			
Salaries and Wages:—			
Chief . . . . .	\$2,875 95		
Captains and Lieutenants	11,491 33		
Sergeants and Inspectors	6,800 00		
Patrolmen . . . . .	116,594 12		
Special police . . . . .	325 75		
Matrons . . . . .	884 13		
Other employees . . . . .	3,919 85		
Horses and Care of Same:—			
Hay, grain and straw . . . . .	208 12		
Shoeing . . . . .	58 00		
All other . . . . .	20 25		
Equipment and Repairs:—			
Automobiles and motor- cycles . . . . .	652 43		
New Motor equipment . . . . .	1,195 00		
Equipment for men . . . . .	355 04		
Gasoline, oil and supplies	768 75		
All other . . . . .	188 16		
Other Expenses:—			
Books, printing, postage and supplies . . . . .	233 26		
Care of prisoners . . . . .	43 74		
Telephone . . . . .	286 12		
Laundry . . . . .	42 41		
Bedding . . . . .	11 42		
Travel and disbursements	139 77		
All other . . . . .	146 44		
	<hr/>	147,240 04	
<b>Public Buildings Department, Maintenance Police Buildings.</b>			
Salaries and Wages:—			
Janitors . . . . .	\$1,905 43		
Labor . . . . .	207 14		
Maintenance of Buildings:—			
Fuel and light . . . . .	1,405 03		
Janitors' supplies . . . . .	90 61		
Furniture and furnishings	10 64		
Repairs, buildings . . . . .	2 45		
Heating apparatus and equipment . . . . .	40 49		
Plumbing and supplies . . . . .	40 93		
Hardware and materials . . . . .	64 27		
All other . . . . .	28 43		
	<hr/>	3,795 42	
Carried forward . . . . .		<hr/>	<hr/>
		\$259,006 69	\$4,382 49

	Expenses	Outlays
Brought forward . . .	\$259,006 69	\$4,382 49

**Fire Department.**

## Salaries and Wages:—

Chief Engineer . . .	\$2,875 95
Assistant Engineers . . .	4,350 94
Firemen . . . . .	119,215 69
Callmen . . . . .	2,419 32
Temporary and Emer- gency men . . . . .	60 28

## Horses and Care of Same:—

Horses . . . . .	500 00
Hay, grain and straw . . . . .	4,074 41
Shoeing . . . . .	1,074 50
Medicine and veterinary . . . . .	17 20
All other . . . . .	37 05

## Equipment and Repairs:—

Apparatus . . . . .	2,166 14
Hose . . . . .	470 70
Equipment for men . . . . .	31 99
Power . . . . .	12 72
Hardware, tools, etc. . . . .	145 17

## Other Expenses:—

Books, printing, postage and supplies . . . . .	38 05
Telephone . . . . .	491 64
Janitors' supplies . . . . .	292 07
Furnishings . . . . .	162 58
Laundry work . . . . .	332 62
All other . . . . .	888 48

## Supplies:—

Grease and oil . . . . .	233 39
Gasoline . . . . .	955 96
Fuel . . . . .	10 30
Ice . . . . .	118 86
Soda and acid . . . . .	94 22
All other . . . . .	297 88

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 141,368 11
**Public Buildings Department, Maintenance Fire Buildings.**

## Salaries and Wages:—

Labor . . . . .	\$828 80
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## Other Expenses:—

Fuel and light . . . . .	5,394 42
Furniture and furnishings . . . . .	331 72
Janitors' supplies . . . . .	1 60
Repairs, buildings . . . . .	746 70
Heating apparatus and equipment . . . . .	918 05
Plumbing and supplies . . . . .	1,279 54
Lumber, hardware and materials . . . . .	259 74
All other . . . . .	30 45

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 9,791 02

Carried forward . . . . .	\$410,165 82	\$4,382 49
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	Expenses	Outlays
Brought forward . . . .	\$410,165 82	\$4,382 49
<b>Weights and Measures Department.</b>		
Salaries and Wages:—		
Sealer . . . . .	\$1,450 00	
Deputy sealer . . . .	1,375 00	
Helper . . . . .	30 00	
Other Expenses:—		
Books, postage and sup- plies . . . . .	44 92	
Printing and advertising	14 50	
Carfares, etc. . . . .	58	
Equipment . . . . .	26 99	
Telephone . . . . .	26 94	
Auto maintenance . . .	437 54	
All other . . . . .	6 30	
	3,412 77	
<b>Electrical Department.</b>		
Salaries and Wages:—		
Commissioner . . . . .	\$2,351 93	
Clerk . . . . .	834 67	
Labor . . . . .	10,769 40	
Other Expenses:—		
Fire Alarm System . . .	162 61	
Police Signal System . .	359 40	
Auto maintenance . . . .	436 45	
Telephone . . . . .	102 60	
Books, printing, postage and supplies . . . . .	118 54	
Laundry . . . . .	9 82	
All other . . . . .	10 68	
	15,156 10	
<b>Public Buildings Department, Maintenance Electrical Department Building.</b>		
Labor . . . . .	\$151 44	
Janitors' supplies . . . .	266 20	
Fuel . . . . .	110 20	
Furniture and furnishings .	31 00	
Heating apparatus . . . .	8 25	
	567 09	
<b>Suppression of Moths.</b>		
Labor . . . . .	\$4,102 17	
Books, printing, postage and supplies . . . . .	74 78	
Teams . . . . .	337 31	
Hardware, Tools and equip- ment . . . . .	71 17	
Insecticides . . . . .	65 41	
Material and supplies . .	39 80	
All other . . . . .	9 36	
	4,700 00	
Carried forward . . . . .	\$434,001 78	\$4,382 49

	Expenses	Outlays
Brought forward . . .	\$434,001 78	\$4,382 49
<b>Care of Trees.</b>		
Labor . . . . .	\$3,801 12	
Teams . . . . .	637 97	
Equipment, hardware and tools . . . . .	145 20	
Lumber and materials . .	204 28	
Use of steam roller . . .	108 02	
	<hr/>	
	4,896 59	

## HEALTH AND SANITATION.

	Expenses	Outlays
<b>Health Department.</b>		
General Administration:—		
Salaries and Wages:—		
Agent . . . . .	\$1,375 39	
Clerk . . . . .	1,575 41	
Temporary clerk . . . .	538 42	
Medical Inspector and Bacteriologist . . . . .	887 62	
Acting Medical Inspector .	966 21	
Acting Bacteriologist . .	452 00	
Health Nurses . . . . .	1,740 30	
Books, printing, and postage . . . . .	\$497 00	
Telephone . . . . .	220 33	
Convention expenses . . .	55 06	
Typewriter . . . . .	74 78	
All other . . . . .	307 64	
Quarantine and Contagious Diseases:—		
Board and Treatment:—		
Cities and towns . . . . .	608 32	
Other Institutions . . . .	579 17	
All other . . . . .	11 33	
Tuberculosis:—		
Board and Treatment:—		
Cities and towns . . . . .	492 75	
State . . . . .	2,773 13	
Other Institutions . . . .	40 75	
Groceries and provi- sions . . . . .	1,426 28	
All other . . . . .	18 00	
Other Expenses:—		
Equipment and supplies . .	162 91	
Auto maintenance . . . .	645 82	
Burying dead animals . . .	66 50	
All other . . . . .	90	
	<hr/>	
	15,516 02	
Carried forward . . . . .	\$454,414 39	\$4,382 49

	Expenses	Outlays
Brought forward . . . . .	\$454,414 39	\$4,382 49

**City Clerk's Department, Vital Statistics.**

Canvassing and reporting		
births . . . . .	\$796 45	
Reporting deaths . . . . .	189 50	
Printing and advertising . . . . .	36 00	
Books and supplies . . . . .	67 04	
All other . . . . .	42 75	
	<hr/>	
		1,131 74

**Contagious Hospital.**

Salaries and Wages:—		
Matron . . . . .	\$1,060 00	
Nurses and other help . . . . .	9,826 03	
Other Expenses:—		
Drugs and medicines . . . . .	213 42	
Medical attendance . . . . .	79 00	
Bedding, dry goods and clothing . . . . .	414 47	
Groceries and provisions . . . . .	8,761 03	
Equipment and supplies . . . . .	1,726 64	
Telephone . . . . .	87 83	
Electric power . . . . .	107 98	
All other . . . . .	53 30	
	<hr/>	
		22,329 70

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

Salaries and Wages:—		
Janitor and labor . . . . .	\$576 94	
Other Expenses:—		
Fuel . . . . .	1,667 38	
Light . . . . .	840 84	
Janitors' supplies . . . . .	41 16	
Furniture and furnishings . . . . .	301 29	
Repairs, buildings . . . . .	35 68	
Heating apparatus and equipment . . . . .	6 61	
Plumbing . . . . .	73 93	
Hardware and materials . . . . .	127 82	
Granolithic work . . . . .	172 80	
Addition to hospital . . . . .	677 09	
All other . . . . .	45 84	
	<hr/>	
		4,567 38

**Inspection of Animals and Provisions.**

Salaries and Wages:—		
Inspector . . . . .	\$1,800 64	
Other Expenses:—		
Telephone . . . . .	34 24	
	<hr/>	
		1,834 88

Carried forward . . . . .	\$484,278 09	\$4,382 49
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	Expenses	Outlays
Brought forward . . . . .	\$484,278 09	\$4,382 49
<b>Inspection of Milk and Vinegar.</b>		
Salaries and Wages:—		
Inspector . . . . .	\$1,800 64	
Milk Collector . . . . .	1,143 90	
Other Expenses:—		
Books, printing and post- age . . . . .	33 75	
Maintenance of auto . . . . .	973 96	
Equipment and supplies . . . . .	104 96	
Telephone . . . . .	28 70	
All other . . . . .	9 95	
	<hr/>	4,095 86
<b>Inspection of School Children.</b>		
Salaries and Wages:—		
Inspectors . . . . .	\$1,600 00	
Other Expenses:—		
Books, printing and sup- plies . . . . .	43 25	
Carfares . . . . .	79 00	
	<hr/>	1,722 25
<b>School Nurses' Salaries.</b>		
Salaries and Wages:—		
Nurses . . . . .	\$1,713 57	
	<hr/>	1,713 57
<b>Sewers Construction.</b>		
Salaries and Wages:—		
Inspector . . . . .	\$70 91	
Labor . . . . .	1,717 42	
Other Expenses:—		
Teaming . . . . .	433 71	
Pipe and fittings . . . . .	311 77	
Brick and cement . . . . .	777 37	
Sand . . . . .	30 50	
Castings . . . . .	483 90	
Freight . . . . .	105 14	
Storm drain . . . . .	680 30	
	<hr/>	4,611 02
<b>Engineering Department, Sewers Main- tenance.</b>		
Salaries and Wages:—		
Inspector . . . . .	\$650 42	
Labor . . . . .	11,795 89	
Other Expenses:—		
Teaming . . . . .	7,412 03	
Tools and equipment . . . . .	438 63	
Brick and cement . . . . .	28 47	
Pipe and fittings . . . . .	43 72	
Castings . . . . .	14 00	
Other materials and sup- plies . . . . .	138 17	
	<hr/>	<hr/>
Carried forward . . . . .	\$20,521 33	\$8,993 51
	<hr/>	<hr/>
	\$491,809 77	\$8,993 51

		Expenses	Outlays
Brought forward . . .	\$20,521 33	\$491,809 77	\$8,993 51
Care of Medford Street pump . . . . .	82 66		
Telephone . . . . .	53 50		
All other . . . . .	1 32		
	<hr/>	20,658 81	
<b>Public Buildings Department, Maintenance Sewer Buildings.</b>			
Salaries and Wages:—			
Labor . . . . .	\$35 32		
Other Expenses:—			
Fuel . . . . .	34 48		
Light . . . . .	39 43		
Plumbing . . . . .	2 22		
Hardware and materials . . . . .	8 42		
	<hr/>	119 87	
<b>Sanitary Department.</b>			
General Administration:			
Superintendent . . . . .	\$2,101 49		
Bookkeeper . . . . .	300 00		
Books, printing and supplies . . . . .	14 83		
Telephone . . . . .	48 11		
Auto maintenance . . . . .	514 06		
All other . . . . .	5 51		
Ashes, Rubbish and Garbage:—			
Labor . . . . .	88,297 70		
Hired teams . . . . .	33,096 53		
Equipment and repairs . . . . .	2,020 08		
Rent of dump . . . . .	600 00		
Materials and supplies . . . . .	84 88		
Stable Expenses:—			
Horses . . . . .	750 00		
Hay, grain and straw . . . . .	9,729 40		
Shoeing . . . . .	488 14		
Veterinary and medicine . . . . .	138 76		
Stable equipment . . . . .	303 10		
Other Expenses:—			
Fence, Mystic Avenue . . . . .	37 15		
Repairs track, North Somerville . . . . .	65 17		
	<hr/>	138,594 91	
<b>Public Buildings Department, Maintenance Sanitary Buildings.</b>			
Labor . . . . .	\$32 39		
Fuel . . . . .	113 00		
Light . . . . .	236 80		
Furniture and furnishings . . . . .	30		
Repairs, buildings . . . . .	409 17		
Plumbing and supplies . . . . .	14 00		
Hardware and materials . . . . .	157 10		
	<hr/>	962 76	
Carried forward . . . . .		\$652,146 12	\$8,993 51



	Expenses	Outlays
Brought forward . . .	\$652,146 12	\$8,993 51
<b>Street Cleaning.</b>		
Labor . . . . .	\$21,408 00	
Hired teams . . . . .	4,419 75	
Use of truck . . . . .	16 89	
Equipment . . . . .	46 06	
	<hr/>	
	25,890 70	

## HIGHWAYS

## Highway Maintenance.

## General Administration:—

Superintendent . . . . .	\$2,802 38
Bookkeeper and clerk . . . . .	2,242 38
Books, printing, postage and supplies . . . . .	182 29
Telephone . . . . .	214 54
Maintenance Superin- tendent's auto . . . . .	213 33
All other . . . . .	94 27

## General:—

Labor . . . . .	38,097 45
Hired teams . . . . .	553 00
Tools, equipment and re- pairs . . . . .	1,929 21
Autos and supplies . . . . .	1,435 76
Broken stone, gravel, etc. Edgestone, bricks and cement . . . . .	4,234 29
Lumber . . . . .	558 44
Tarvia and road oil . . . . .	163 91
Fuel . . . . .	4,009 75
Oil and waste . . . . .	1,150 62
Hardware, paint and var- nish . . . . .	369 44
Other materials and sup- plies . . . . .	400 11
Horses . . . . .	148 24
Hay, grain and straw . . . . .	1,225 00
Shoeing . . . . .	8,475 90
Veterinary and medicine . . . . .	332 70
Harnesses and horse clothing . . . . .	170 36
All other . . . . .	473 58
	18 02

## Other Expenses:—

Signs . . . . .	213 68
Taxes, City of Waltham . . . . .	216 60
Repairing bridges . . . . .	247 56
All other . . . . .	79 17

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\$70,251 98

Less service transfers for  
teams and materials  
furnished other depart-  
ments . . . . .

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16,390 04

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53,861 94

Carried forward . . . . .

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\$731,898 76

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\$8,993 51

	Expenses	Outlays
Brought forward . . . . .	\$731,898 76	\$8,993 51
<b>Highways Construction, New Streets.</b>		
Contracts . . . . .	\$21,445 44	
Edgestone and circles . . . . .	9,136 25	
Tarvia . . . . .	2,526 08	
Advertising, etc. . . . .	67 25	
	<hr/>	33,175 12
<b>Highways Construction, Permanent Pavement.</b>		
Contracts . . . . .	\$20,318 12	
All other . . . . .	37 50	
	<hr/>	20,355 62
<b>Highway Reconstruction and Resurfacing.</b>		
Labor . . . . .	\$14,430 19	
Hired teams and trucks . . . . .	3,452 74	
Use of roller . . . . .	1,410 15	
Tools and equipment . . . . .	956 74	
Tarvia . . . . .	9,533 72	
Brick, stone, cement . . . . .	18,632 13	
Other materials . . . . .	230 03	
	<hr/>	48,645 70
<b>Sidewalks Construction.</b>		
Labor . . . . .	\$268 31	
Hired teams . . . . .	24 51	
Contracts . . . . .	14,909 91	
Stone, brick, cement . . . . .	24 66	
Edgestone . . . . .	13 59	
Other materials . . . . .	38	
All other . . . . .	22 50	
	<hr/>	15,263 86
<b>Sidewalks Maintenance.</b>		
Labor . . . . .	\$4,860 77	
Hired teams . . . . .	770 84	
Stone, brick and cement . . . . .	923 56	
Use truck and roller . . . . .	88 91	
Materials and supplies . . . . .	454 79	
	<hr/>	7,098 87
<b>Street Sprinkling.</b>		
Labor . . . . .	\$5,262 92	
Hired teams and trucks . . . . .	4,187 56	
Equipment and repairs . . . . .	506 31	
Oil and other dust layers . . . . .	22,799 49	
Maintenance water posts and hydrants . . . . .	267 60	
Use steam rollers . . . . .	19 25	
Use car sprinkler . . . . .	4,569 26	
Hardware and materials . . . . .	70 25	
All other . . . . .	2 00	
	<hr/>	37,684 64
Carried forward . . . . .	<hr/> \$776,682 27	<hr/> \$126,433 81

	Expenses	Outlays
Brought forward . . .	\$776,682 27	\$126,433 81
<b>Street Lighting.</b>		
Contract:		
Electricity . . . . .	\$62,606 97	
Spot lights . . . . .	234 91	
	<hr/>	
	62,841 88	
<b>Public Buildings Department, Maintenance Highway Buildings.</b>		
Labor . . . . .	\$173 55	
Fuel . . . . .	306 30	
Light . . . . .	232 43	
Hardware and materials . . . . .	45 71	
Lumber . . . . .	98 05	
Repairs, buildings . . . . .	22 08	
Heating apparatus and equipment . . . . .	3 07	
Plumbing . . . . .	3 75	
All other . . . . .	37	
	<hr/>	
	885 31	

**CHARITIES.****Poor Department.**

Advance for immediate aid . . . . .	\$50 00	
		50 00

**Poor Department, Miscellaneous.****General Administration:—**

Agent . . . . .	1,346 80
Clerks . . . . .	1,566 13
Books, printing, postage and supplies . . . . .	112 97
Telephone . . . . .	107 39
All other . . . . .	62 00

**Outside Relief:—**

City Physician . . . . .	1,800 00
Auto maintenance . . . . .	100 00
Acting City Physician . . . . .	70 00
Board and care . . . . .	2,742 24
Cash . . . . .	13,476 40
Cash allowance . . . . .	1,076 23
Groceries and provisions . . . . .	3,670 73
Coal and wood . . . . .	1,146 30
Medicines and medical attendance . . . . .	176 27
Dry goods and clothing . . . . .	6 50
Nursing . . . . .	144 00
State Institutions . . . . .	266 72
Contagious Hospital . . . . .	228 23
Somerville Hospital . . . . .	5,218 44
Other Institutions . . . . .	1,201 49

Carried forward . . . . .	\$34,518 84	\$840,459 46	\$126,433 81
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		Expenses	Outlays
Brought forward . . . . .	\$34,518 84	\$840,459 46	\$126,433 81
Burials . . . . .	261 00		
All other . . . . .	33 91		
Relief by Other Cities and Towns:—			
Cities . . . . .	3,641 84		
Towns . . . . .	645 03		
Mothers' Aid:—			
By city . . . . .	26,725 00		
Other cities and towns . . . . .	1,701 26		
		67,526 88	
<b>Poor Department, City Home.</b>			
Salaries and Wages:—			
Warden and Matron . . . . .	\$1,883 13		
Bookkeeper . . . . .	100 00		
Domestic labor . . . . .	2,151 65		
Farm labor . . . . .	2,468 99		
Other Expenses:—			
Auto maintenance . . . . .	156 97		
Groceries and provisions . . . . .	5,098 31		
Clothing . . . . .	358 51		
Medicine and hospital goods . . . . .	130 19		
Household utensils and supplies . . . . .	275 98		
Farm equipment and supplies . . . . .	550 07		
Live stock and care . . . . .	416 61		
Garbage . . . . .	548 00		
Hay, grain and feed . . . . .	997 21		
Horse shoeing . . . . .	35 00		
Seeds and fertilizer . . . . .	116 55		
Books, printing and stationery . . . . .	23 07		
Telephone . . . . .	45 93		
Power . . . . .	59 89		
Ice . . . . .	110 43		
All other . . . . .	262 85		
		15,789 34	
<b>Public Buildings Department, Maintenance City Home Buildings.</b>			
Labor . . . . .	\$73 66		
Fuel . . . . .	834 21		
Light . . . . .	473 62		
Furniture and furnishings . . . . .	424 36		
Repairs, buildings . . . . .	233 63		
Heating apparatus and equipment . . . . .	101 85		
Plumbing . . . . .	41 43		
Hardware and materials . . . . .	18 57		
Piazza on hospital . . . . .	750 00		
Granolithic work . . . . .	43 00		
		2,994 33	
Carried forward . . . . .		\$926,770 01	\$126,433 81

## SOLDIERS' BENEFITS

	Expenses	Outlays
Brought forward . . .	\$926,770 01	\$126,433 81
<b>Soldiers' Benefits, General Administration.</b>		
Salaries and Wages:—		
Agent . . . . .	\$300 00	
Clerk . . . . .	834 66	
Other Expenses:—	78 61	
	<hr/>	
		1,213 27
<b>Soldiers' Relief.</b>		
Cash as per pay rolls . . . . .	\$21,598 00	
Medicine and medical attendance . . . . .	192 65	
	<hr/>	
		21,790 65
<b>Military Aid.</b>		
Cash as per pay rolls . . . . .	\$450 00	
	<hr/>	
		450 00
<b>State Aid.</b>		
Cash as per pay rolls . . . . .	\$11,894 00	
	<hr/>	
		11,894 00
<b>State Aid — Allied War.</b>		
Cash as per pay rolls . . . . .	\$14,226 98	
	<hr/>	
		14,226 98
<b>Soldiers' Burials.</b>		
Burials . . . . .	295 27	
	<hr/>	
		295 27

## EDUCATION.

## School Contingent.

Salaries and Wages:—		
Superintendent . . . . .	\$3,966 65	
Assistant Superintendent . . . . .	2,850 33	
Clerks . . . . .	3,803 56	
Truant Officers . . . . .	1,931 45	
Other employees . . . . .	224 76	
General Expenses:—		
Printing, postage and office supplies . . . . .	1,106 27	
Telephone . . . . .	916 36	
Automobile maintenance . . . . .	424 38	
Travel . . . . .	397 93	
All other . . . . .	490 76	
Textbooks and Supplies:—		
Text and reference books . . . . .	8,882 76	
Maps . . . . .	85 04	
Music . . . . .	82 34	
Stationery and supplies . . . . .	11,941 36	
Equipment and repairs . . . . .	3,665 14	
	<hr/>	
Carried forward . . . . .	\$40,769 09	\$976,640 18
		\$126,433 81

		Expenses	Outlays
Brought forward . . . .	\$40,769 09	\$976,640 18	\$126,433 81
<b>Other Expenses:—</b>			
Tuition . . . . .	1,108 72		
Support of truants . . . .	267 58		
Diplomas and graduation . .	342 53		
Printing and advertising . .	537 75		
Power . . . . .	684 02		
All other . . . . .	21 00		
	<hr/>	43,730 69	
<b>School Teachers' Salaries.</b>			
Day Schools . . . . .	\$452,385 74		
Evening Schools . . . . .	8,405 50		
	<hr/>	460,791 24	
<b>Maintenance School Buildings, Fuel and Light.</b>			
Labor . . . . .	\$109 48		
Fuel . . . . .	27,315 18		
Light . . . . .	9,251 69		
All other . . . . .	21 69		
	<hr/>	36,698 04	
<b>Maintenance School Buildings, Janitors' Salaries.</b>			
Janitors' Salaries . . . . .	\$48,441 07		
		48,441 07	
<b>Maintenance School Buildings, Buildings and Grounds.</b>			
Labor . . . . .	\$7,805 28		
Furniture and furnishings . .	2,701 11		
Janitors' supplies . . . . .	2,418 12		
Laundry . . . . .	47 28		
Repairs, buildings . . . . .	3,021 29		
Heating apparatus and equipment . . . . .	9,992 26		
Plumbing . . . . .	2,540 37		
Glass, hardware and paint . .	2,018 81		
Lumber . . . . .	1,378 51		
Other materials and supplies . . . . .	611 00		
Care of grounds . . . . .	2,736 69		
Flags and flag poles . . . . .	538 40		
Auto maintenance . . . . .	399 51		
Power . . . . .	336 26		
Use Y. M. C. A. Gymnasium . .	450 00		
Use Armory . . . . .	250 00		
All other . . . . .	855 89		
	<hr/>	38,100 78	
<b>New School Building, Holland Street.</b>			
Final payment on contract . . . .	\$200 00		200 00
Carried forward . . . . .		<hr/> \$1,604,402 00	<hr/> \$126,633 81

	Expenses	Outlays
Brought forward . . .	\$1,604,402 00	\$126,633 81
<b>Southern Junior High School.</b>		
Concrete walks . . .	\$155 25	
	<hr/>	155 25
<b>Boys' Industrial School Addition, No. 1.</b>		
Electrical work . . .	\$180 91	
Heating apparatus . . .	13 95	
Equipment . . .	341 53	
Hardware and materials . . .	31 10	
	<hr/>	567 49
<b>Boys' Industrial School Addition, No. 2.</b>		
Final payment on contract . . .	\$3,331 53	
Driveway . . .	30 46	
	<hr/>	3,361 99

**SCHOOL TRUST FUNDS.**

<b>S. Newton Cutler Fund.</b>		
Books . . .	\$232 68	
		232 68
<b>Smith-Hughes Fund.</b>		
School teachers' salaries . . .	\$1,039 00	
	<hr/>	1,039 00

**LIBRARIES**

<b>Central Library.</b>		
Salaries and Wages:—		
Librarian . . .	\$2,479 45	
Assistants . . .	13,062 93	
Books, Periodicals, Etc.:—		
Books . . .	3,527 80	
Periodicals . . .	568 69	
Music . . .	1 21	
Binding . . .	1,061 67	
Pictures . . .	5 00	
Other Expenses:—		
Postage and office supplies . . .	794 45	
Printing and advertising . . .	561 09	
Telephone . . .	133 87	
Catalogue cards . . .	100 00	
Express . . .	220 22	
Agencies . . .	1 87	
Convention expenses . . .	62 38	
All other . . .	74 30	
	<hr/>	22,654 93
<b>Public Buildings Department, Maintenance Central Library.</b>		
Janitors . . .	\$2,222 71	
Labor . . .	355 96	
Fuel . . .	157 00	
	<hr/>	
Carried forward . . .	\$2,735 67	\$130,718 54
	<hr/>	\$1,628,328 61

		Expenses	Outlays
Brought forward . . . . .	\$2,735 67	\$1,628,328 61	\$130,718 54
Light . . . . .	984 11		
Furniture and furnishings . . . . .	117 24		
Janitors' supplies . . . . .	100 40		
Repairs, buildings . . . . .	119 72		
Plumbing . . . . .	35 87		
Hardware and materials . . . . .	124 99		
All other . . . . .	50		
		4,218 50	
<b>West Somerville Branch Library.</b>			
Salaries and Wages:—			
Assistants . . . . .	\$4,270 19		
Books, Periodicals, Etc.:—			
Books . . . . .	1,593 77		
Periodicals . . . . .	304 97		
Binding . . . . .	410 45		
Other Expenses:—			
Postage and office supplies . . . . .	60 19		
Printing and advertising . . . . .	49 50		
Telephone . . . . .	35 18		
Express . . . . .	118 72		
		6,842 97	
<b>Public Buildings Department, Maintenance West Somerville Branch Library.</b>			
Janitor . . . . .	\$1,126 00		
Labor . . . . .	147 64		
Fuel . . . . .	404 53		
Light . . . . .	447 05		
Furniture and furnishings . . . . .	1 40		
Repairs, buildings . . . . .	2 00		
Plumbing . . . . .	2 50		
Hardware and materials . . . . .	39 16		
All other . . . . .	28 00		
		2,198 28	
<b>East Somerville Branch Library.</b>			
Salaries and Wages:—			
Assistants . . . . .	\$2,437 28		
Books, Periodicals, Etc.:—			
Books . . . . .	527 73		
Periodicals . . . . .	112 00		
Binding . . . . .	296 60		
Other Expenses:—			
Postage and office supplies . . . . .	39 47		
Printing and advertising . . . . .	21 75		
Telephone . . . . .	41 43		
Express . . . . .	92 68		
All other . . . . .	2 00		
		3,570 94	
Carried forward . . . . .		\$1,645,159 30	\$130,718 54



	Expenses	Outlays
Brought forward . . . . .	\$1,645,159 30	\$130,718 54

**Public Buildings Department, Maintenance East Somerville Branch Library.**

Janitor . . . . .	\$876 00	
Labor . . . . .	33 63	
Fuel . . . . .	190 70	
Light . . . . .	244 17	
Janitors' supplies . . . . .	7 67	
Heating apparatus and equipment . . . . .	95 70	
All other . . . . .	117 53	
	<hr/>	
		1,565 40

**Union Square Branch Library.**

<b>Salaries and Wages:—</b>		
Assistants . . . . .	\$2,351 72	
<b>Books, Periodicals, Etc.:—</b>		
Books . . . . .	662 11	
Periodicals . . . . .	131 51	
Binding . . . . .	276 64	
<b>Other Expenses:—</b>		
Postage and office supplies . . . . .	55 40	
Printing and advertising . . . . .	28 00	
Telephone . . . . .	31 80	
Express . . . . .	92 70	
	<hr/>	
		3,629 88

**Public Buildings Department, Maintenance Union Square Branch Library.**

Janitor . . . . .	\$876 00	
Labor . . . . .	42 16	
Fuel . . . . .	273 53	
Light . . . . .	295 71	
Furniture and furnishings . . . . .	12 50	
Janitors' supplies . . . . .	1 40	
Repairs, buildings . . . . .	3 70	
Hardware and materials . . . . .	29 39	
Care of grounds . . . . .	14 00	
	<hr/>	
		1,548 39

**PUBLIC LIBRARY TRUST FUNDS.**

**S. Newton Cutler Fund.**

Books . . . . .	\$68 84	
	<hr/>	
		68 84

**Martha R. Hunt, Art Fund.**

Picture reflector, Foss Memorial . . . . .	\$50 60	
Art cabinet . . . . .	45 80	
	<hr/>	
		96 40

**Martha R. Hunt, Book Fund.**

Books . . . . .	\$771 09	
	<hr/>	
		771 09

Carried forward . . . . .	<hr/>	<hr/>
	\$1,652,839 30	\$130,718 54

	Expenses	Outlays
Brought forward . . . . .	\$1,652,839 30	\$130,718 54
<b>Isaac Pitman, Art Fund.</b>		
Pictures . . . . .	\$24 45	
Books and music . . . . .	41 85	
	<hr/>	66 30
<b>Isaac Pitman, Poetry Fund.</b>		
Books . . . . .	\$41 29	
	<hr/>	41 29
<b>Francis A. Wilder Children's Fund.</b>		
Books . . . . .	\$13 28	
	<hr/>	13 28

## RECREATION.

**Engineering Department, Parks Maintenance.**

Labor . . . . .	\$6,648 70	
Teaming . . . . .	573 14	
Equipment and repairs . . . . .	361 70	
Hardware, lumber and materials . . . . .	72 74	
Trees, shrubs and plants . . . . .	303 77	
Christmas tree expenses . . . . .	266 30	
Carpentry and repairs . . . . .	433 51	
Flags and flag poles . . . . .	312 40	
Repairing Powder House Boulevard . . . . .	99 41	
All other . . . . .	17 79	
	<hr/>	9,089 46

**Public Buildings Department, Maintenance Park Buildings.**

Labor . . . . .	\$416 94	
Teams . . . . .	10 00	
Fuel . . . . .	145 20	
Light . . . . .	336 37	
Repairs, buildings . . . . .	8 55	
Heating apparatus and equipment . . . . .	24 33	
Plumbing . . . . .	107 45	
Hardware and materials . . . . .	33 45	
Laundry and janitors' supplies . . . . .	119 15	
All other . . . . .	1 32	
	<hr/>	1,202 76

**Engineering Department, Playgrounds Maintenance.**

Labor . . . . .	\$3,118 91	
Teaming . . . . .	366 60	
Apparatus and repairs . . . . .	368 50	
Materials and supplies . . . . .	164 82	
	<hr/>	
Carried forward . . . . .	\$4,018 83	\$1,663,252 39
		\$130,718 54

		Expenses	Outlays
Brought forward . . . . .	\$4,018 83	\$1,663,252 39	\$130,718 54
Repairs to fountains, fences, etc. . . . .	127 75		
All other . . . . .	<u>52</u>	4,147 10	
<b>Playgrounds and Recreation Commission.</b>			
Salaries and Wages:—			
Supervisors . . . . .	\$1,156 01		
Instructors . . . . .	1,161 50		
Social worker . . . . .	454 80		
Other helpers . . . . .	193 50		
Other Expenses:—			
Equipment and supplies . . . . .	219 79		
Plowing, teaming, etc. . . . .	165 87		
Use of auto . . . . .	244 85		
Civic social centre . . . . .	57 28		
All other . . . . .	<u>23 83</u>	3,677 43	
<b>Public Buildings Department, Maintenance Bathhouse.</b>			
Salaries and Wages:—			
Attendants . . . . .	\$1,202 70		
Labor . . . . .	62 25		
Other Expenses:—			
Bathing suits, etc. . . . .	127 48		
Towels . . . . .	23 52		
Equipment and supplies . . . . .	13 88		
Sand . . . . .	500 00		
Telephone . . . . .	23 92		
Laundry . . . . .	175 74		
Repairs, buildings . . . . .	75 70		
Hardware and materials . . . . .	11 40		
All other . . . . .	<u>31 25</u>	2,247 84	
<b>Celebrations.</b>			
Printing and postage . . . . .	\$216 74		
Certificates and medals . . . . .	2,362 31		
Music . . . . .	2,063 50		
Refreshments . . . . .	591 06		
Decorating . . . . .	253 20		
Fireworks . . . . .	1,500 00		
Special cars . . . . .	156 75		
All other . . . . .	<u>124 55</u>	7,268 11	
<b>UNCLASSIFIED</b>			
<b>Memorial Day.</b>			
Music and catering . . . . .	\$265 40		
Flowers and flags . . . . .	79 61		
All other . . . . .	<u>59 86</u>	404 87	
Carried forward . . . . .		<u>\$1,680,997 74</u>	<u>\$130,718 54</u>

	Expenses	Outlays
Brought forward . . .	\$1,680,997 74	\$130,718 54
<b>Municipal Documents.</b>		
Printing:		
Annual reports . . .	\$1,267 59	
Municipal registers . . .	125 50	
Regulations . . . . .	15 25	
Express . . . . .	1 35	
	<hr/>	1,409 69
<b>Municipal Food Supply.</b>		
Printing . . . . .	\$27 25	
Stationery and postage . . .	4 40	
Canned goods . . . . .	6,720 21	
	<hr/>	6,751 86
<b>Workmen's Compensation.</b>		
Books, postage and supplies . . . . .	\$2 00	
Compensation for injuries . . . . .	3,380 67	
Medicine and medical attendance . . . . .	142 00	
	<hr/>	3,524 67
<b>Pensions.</b>		
Janitors . . . . .	\$1,999 83	
Police . . . . .	8,067 97	
Fire . . . . .	3,962 63	
Health . . . . .	750 00	
Poor . . . . .	850 00	
Laborers:—		
Highway . . . . .	3,354 48	
Sanitary . . . . .	384 38	
Water . . . . .	1,197 29	
	<hr/>	20,566 58
<b>Damage to Persons and Personal Property.</b>		
Settlement of claims . . . . .	\$4,824 65	
	<hr/>	4,824 65

### MUNICIPAL INDEBTEDNESS.

#### Interest.

#### Temporary loans:—

Anticipation of Revenue . . . . .	\$44,465 78	
General loans		
Sewer . . . . .	10,641 25	
Highway . . . . .	11,882 50	
Municipal . . . . .	1,755 00	
City . . . . .	18,162 50	
Bridge . . . . .	1,067 50	
Metropolitan Park . . . . .	385 00	
Public buildings . . . . .	12,285 00	
Emergency . . . . .	850 00	
	<hr/>	101,494 53
Carried forward . . . . .	<hr/>	<hr/>
	\$1,819,569 72	\$130,718 54

	Expenses	Outlays
Brought forward . . .	\$1,819,569 72	\$130,718 54

**Reduction of Funded Debt.****General Loans:—**

Sewer . . . . .	\$23,000 00	
Highway . . . . .	78,000 00	
Municipal . . . . .	8,000 00	
City . . . . .	92,500 00	
Bridge . . . . .	1,000 00	
Metropolitan Park . . . . .	1,000 00	
Public buildings . . . . .	24,000 00	
Emergency . . . . .	5,000 00	
	<hr/>	
		232,500 00

**WATER WORKS.****Water Maintenance.****Administration:—**

Commissioner . . . . .	\$2,802 38
Clerks . . . . .	5,517 21
Books, printing, postage and supplies . . . . .	1,636 94
Telephone . . . . .	230 03
Carfares, etc. . . . .	29 39
Typewriter . . . . .	97 20
All other . . . . .	44 30

**General:—**

Labor . . . . .	33,247 88
Pipe and fittings . . . . .	1,460 40
Meters and fittings . . . . .	275 27
Hydrants and fittings . . . . .	672 33
Tools, equipment and re- pairs . . . . .	1,476 27
Castings . . . . .	490 28
Automobiles and supplies . . . . .	2,255 65
Gasoline . . . . .	1,202 11
Horses, feed, shoeing, etc. . . . .	735 11
Kerosene . . . . .	389 73
Other materials and sup- plies . . . . .	861 00
Power . . . . .	24 45
Freight and express . . . . .	21 59
Repairs of streets . . . . .	99 03
All other . . . . .	170 87

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\$53,739 42

Less service transfers for  
materials furnished other  
accounts . . . . .

246 50

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53,492 92

**Water Works Extension.**

Labor . . . . .	\$1,418 79
Teaming . . . . .	191 50

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Carried forward . . . . .	\$1,610 29	\$2,105,562 64	\$130,718 54
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		Expenses	Outlays
Brought forward . . .	\$1,610 29	\$2,105,562 64	\$130,718 54
Pipe and fittings . . .	3,158 34		
Meters and fittings . . .	912 68		
Tools and equipment . . .	55 60		
Trench work . . . . .	449 50		
	<hr/>	6,186 41	
<b>Public Buildings Department, Maintenance Water Buildings.</b>			
Labor . . . . .	\$56 09		
Fuel . . . . .	470 18		
Light . . . . .	291 04		
Furniture and furnishings .	1 00		
Heating apparatus and equipment . . . . .	24 47		
Hardware and materials . .	22 23		
	<hr/>	865 01	
<b>Interest.</b>			
Water Loans . . . . .	\$240 00		
	<hr/>	240 00	
<b>Reduction of Water Debt.</b>			
Water Bonds . . . . .	\$4,000 00		
	<hr/>	4,000 00	
<b>Metropolitan Water Assessment.</b>			
Assessment . . . . .	\$128,082 90		
	<hr/>	128,082 90	
<b>OTHER ACCOUNTS.</b>			
<b>Temporary Loans.</b>			
Loans in anticipation of revenue . . . . .	\$1,609,000 00		
	<hr/>	1,609,000 00	
<b>Real Estate Liens.</b>			
Titles purchased by city . .	\$1,576 95		
	<hr/>	1,576 95	
<b>State Taxes.</b>			
State . . . . .	\$192,830 00		
Special State . . . . .	11,569 80		
Non-Resident Bank . . . .	3,126 34		
Boston Elevated Railway . .	169,593 77		
	<hr/>	377,119 91	
<b>Metropolitan and Other Assessments.</b>			
Metropolitan Park . . . . .	\$50,517 52		
Metropolitan Sewer . . . . .	88,244 86		
Wellington Bridge . . . . .	3,394 58		
Grade Crossings . . . . .	11,551 75		
State Highway . . . . .	1,472 00		
Charles River Basin . . . .	7,917 24		
Alewife Brook . . . . .	1,169 30		
	<hr/>		
Carried forward . . . . .	\$164,267 25	\$4,232,633 82	\$130,718 54

		Expenses	Outlays
Brought forward . . .	\$164,267 25	\$4,232,633 82	\$130,718 54
Abatement of Smoke . . .	357 94		
Fire Prevention . . .	1,389 80		
Soldiers' Exemption . . .	307 63		
	<hr/>	166,322 62	
<b>County of Middlesex.</b>			
County Tax, 1919 . . .	\$99,068 47		
	<hr/>	99,068 47	
<b>Cash Refunds.</b>			
Taxes . . . . .	\$460 55		
Highway Betterment Assessment . . . . .	19 36		
Street Sprinkling Assessment . . . . .	26 08		
Water Rates . . . . .	103 01		
	<hr/>	609 00	
<b>Tellers' Overs and Shorts.</b>			
Adjustments . . . . .	\$77 84		
	<hr/>	77 84	

## PRIVATE TRUST.

<b>Trust Fund Investment.</b>			
Olive C. Cummings Fund . . . . .	\$578 82		
	<hr/>	578 82	
<b>Redemption of Tax Titles.</b>			
Tax titles redeemed . . . . .	\$2,159 21		
	<hr/>	2,159 21	
Totals . . . . .		\$4,501,449 78	\$130,718 54
*Appropriation Refunds . . . . .		1,918 93	13 37
		<hr/>	<hr/>
Total Cash Payments . . . . .		\$4,503,368 71	\$130,732 41
			\$4,634,101 12

\* 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 . . . . .	62,000 00	2,000 00	64,000 00
Hanscom . . . . .	66,500 00	4,000 00	70,500 00
Davis . . . . .	53,500 00	6,600 00	60,100 00
Clark Bennett . . . . .	54,500 00	3,500 00	58,000 00
Knapp . . . . .	50,000 00	5,500 00	55,500 00
Baxter . . . . .	34,200 00	1,500 00	35,700 00
Perry . . . . .	42,000 00	1,500 00	43,500 00
Bell and Southern Junior			
High . . . . .	130,000 00	9,000 00	139,000 00
Prospect Hill . . . . .	18,000 00	.....	18,000 00
Pope . . . . .	78,600 00	5,000 00	83,600 00
Cummings . . . . .	13,400 00	1,500 00	14,900 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	103,000 00
Forster (Annex) . . . . .	36,000 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	4,500 00	63,100 00
Girls' Industrial School . . . . .	4,000 00	1,000 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 . . . . .	51,000 00	2,000 00	53,000 00
Hodgkins . . . . .	98,700 00	5,000 00	103,700 00
‡West Somerville Junior			
High . . . . .	80,000 00	4,000 00	84,000 00
Lincoln . . . . .	19,800 00	1,000 00	20,800 00
Cutler . . . . .	98,700 00	10,000 00	108,700 00
Total . . . . .	\$2,036,100 00	\$140,700 00	\$2,176,800 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 . . . . .	\$27,500 00	*\$103,000 00	\$178,200 00
Central . . . . .	47,700 00	.....	.....
Engine Two . . . . .	37,000 00	15,000 00	52,000 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	\$190,700 00	\$460,900 00

\*Includes Electrical Department equipment.

**Libraries.**

†Central ... . . . .	\$125,000 00	\$100,000 00	\$225,000 00
East Somerville Branch . . . . .	24,400 00	.....	24,400 00
West Somerville Branch . . . . .	30,000 00	6,000 00	36,000 00
Total . . . . .	\$179,400 00	\$106,000 00	\$285,400 00

**Miscellaneous Buildings.**

Highway (stables, etc.) . . . . .	\$55,000 00	\$30,000 00	\$85,000 00
Sewer . . . . .	6,700 00	500 00	7,200 00
Contagious and Tuberculo- sis Hospital . . . . .	45,900 00	9,000 00	54,900 00
City Home . . . . .	92,900 00	17,000 00	109,900 00
Police . . . . .	64,300 00	8,000 00	72,300 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 . . . . .	3,000 00	500 00	3,500 00
Bathhouse . . . . .	5,000 00	.....	5,000 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 . . . . .	\$459,400 00	\$252,200 00	\$711,600 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 . . . . .	69,800 00	1,500 00	71,300 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	20,000 00	60,000 00
Total . . . . .	\$1,318,500 00	\$23,500 00	\$1,342,000 00

**Miscellaneous Land.**

Ledge, Holland Street . . . . .	\$54,500 00	.....	\$54,500 00
Somerville Avenue . . . . .	300 00	.....	300 00
Putnam . . . . .	400 00	.....	400 00
Murdock Street . . . . .	600 00	.....	600 00
Lowell Street . . . . .	100 00	.....	100 00
Spencer Avenue . . . . .	100 00	.....	100 00
Weston Avenue . . . . .	2,100 00	.....	2,100 00
Endicott Avenue . . . . .	600 00	.....	600 00
Powder House Boulevard . . . . .	400 00	.....	400 00
Waltham Gravel Land . . . . .	10,000 00	.....	10,000 00
<b>Total . . . . .</b>	<b>\$69,100 00</b>	<b>.....</b>	<b>\$69,100 00</b>

**SUMMARY.**

	Land and Buildings	Personal	Total
School Buildings . . . . .	\$2,036,100 00	\$140,700 00	\$2,176,800 00
Fire Buildings . . . . .	270,200 00	190,700 00	460,900 00
Libraries . . . . .	179,400 00	106,000 00	285,400 00
Miscellaneous Buildings . . . . .	459,400 00	252,200 00	711,600 00
Parks and Playgrounds . . . . .	1,318,500 00	23,500 00	1,342,000 00
Miscellaneous Land . . . . .	69,100 00	.....	69,100 00
<b>Total . . . . .</b>	<b>\$4,332,700 00</b>	<b>\$713,100 00</b>	<b>\$5,045,800 00</b>
Sewers (cost) . . . . .			1,351,363 02
Water Works (cost) . . . . .			1,073,196 79
<b>Total value public property</b>			<b>\$7,469,059 81</b>

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

Somerville, Mass.

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

Gentlemen:—In presenting the annual report of the City Treasurer and Collector of Taxes for the year 1919, I respectfully call attention to the following items of interest:

The assessors' warrants amounted to . . . . .	\$2,344,297 37
The amount for 1918 was . . . . .	2,053,862 53
Showing an increase of . . . . .	\$290,434 84

With the larger amount to collect, the uncollected on December 31, 1919, for the current year's commitment was \$39,119.91 less than on the corresponding date of the prior year, viz:

	1918	1919	
Taxes . . . . .	\$365,013 39	\$327,503 09	
Sprinkling . . . . .	8,145 35	6,535 99	
Moths . . . . .	234 25	234 00	
	\$373,392 99	\$334,273 08	\$39,119 91

The commitment of polls, because of the number of service men exempted, amounted to \$616.00 less than in 1918. The collections however, were \$3,716.00 more than for the corresponding period of the prior year. The personal taxes committed amounted to \$81,527.52 more than in 1918 but the amount uncollected from this source was only \$471.50 more than at the corresponding date in 1918.

Your particular attention is called to the statement showing amounts paid on account of debt, including amounts paid on Metropolitan assessments, etc., and also the statement showing the total amount due on funded debt, both principal and interest.

The amount paid for discount (including \$1,215.00 to be paid in 1920 on coupon notes 73 and 74, interest to follow, payable semiannually) was \$40,411.28. The amount for 1918 (including \$5,269.50 on loans, interest to follow) was \$53,813.41,

the rates of interest paid in 1919 being less than in 1918 accounted for the saving of \$12,402.13 on temporary loan interest. I estimate that for 1920 it will be necessary to borrow a larger amount than in 1919 and a higher rate of interest is likely to prevail.

Respectfully submitted,

JOSEPH S. PIKE,

*City Treasurer and Collector of Taxes.*

CONDENSED CASH STATEMENT.

RECEIPTS.		PAYMENTS.	
Revenue . . .	\$4,552,148 83		\$4,506,640 77
Non-Revenue . . .	42,751 90		127,460 35
	<hr/>		<hr/>
	\$4,594,900 73		\$4,634,101 12
Cash balance January 1, 1919 . . .	239,996 16	Cash balance December 31, 1919 . . .	200,795 77
	<hr/>		<hr/>
	\$4,834,896 89		\$4,834,896 89
	<hr/>		<hr/>

The assessor's warrant for the tax levy, assessed upon polls and property, April 1, 1919, including non-resident bank shares, amounted to \$2,342,869.43 and the tax rate established was \$25.80 on each \$1000 of valuation, as follows:

Real estate . . . . .	\$73,297,500 00	
Personal estate . . . . .	13,990,100 00	
Resident bank shares . . . . .	65,824 00	
	<hr/>	
Total valuation . . . . .	\$87,353,424 00	
At a rate of \$25.80 . . . . .		\$2,253,718 34
Polls, 23,843 at \$2.00 . . . . .		47,686 00
Non-resident bank shares to be paid to the State (valuation \$121,176.00 . . . . .		3,126 24
		<hr/>
		\$2,304,530 68
Street Sprinkling . . . . .		36,991 25
Suppression of moths . . . . .		1,347 50
		<hr/>
		\$2,342,869 43
Additional Assessments:		
Personal estate, valuation \$39,300 at \$25.80 . . . . .	\$1,013 94	
Polls, 207 at \$2 . . . . .	414 00	1,427 94
	<hr/>	<hr/>
Total commitments by assessors . . . . .		\$2,344,297 37
		<hr/>

Bonds outstanding January 1, 1920, with interest to maturity.

	Bonds	Interest
Water Loan Bonds .....	\$2,000 00	\$80 00
Emergency Loan Bonds .....	15,000 00	1,275 00
Metropolitan Park Loan Bonds .....	10,000 00	1,925 00
Bridge Loan Bonds .....	30,000 00	15,750 00
Sewer Loan Bonds .....	257,000 00	75,090 00
City Loan Bonds .....	397,500 00	67,865 00
Municipal Loan Bonds .....	31,000 00	3,420 00
Highway Loan Bonds .....	289,000 00	33,602 50
Public Building Loan Bonds .....	278,000 00	88,180 00
	\$1,309,500 00	\$287,187 50

Yearly Bond Maturities with Interest.

Date Due	Principal	Interest	Total
1920.....	\$211,500 00	\$49,508 75	\$261,008 75
1921.....	189,500 00	41,431 25	230,931 25
1922.....	159,500 00	34,231 25	193,731 25
1923.....	120,500 00	28,346 25	148,846 25
1924.....	96,500 00	23,731 25	120,231 25
1925.....	83,000 00	20,143 75	103,143 75
1926.....	69,000 00	17,078 75	86,078 75
1927.....	59,000 00	14,441 25	73,441 25
1928.....	51,000 00	12,188 75	63,188 75
1929.....	49,000 00	10,156 25	59,156 25
1930.....	42,000 00	8,291 25	50,291 25
1931.....	38,000 00	6,688 75	44,688 75
1932.....	33,000 00	5,246 25	38,246 25
1933.....	23,000 00	3,978 75	26,978 75
1934.....	23,000 00	3,051 25	26,051 25
1935.....	16,000 00	2,223 75	18,223 75
1936.....	11,000 00	1,673 75	12,673 75
1937.....	11,000 00	1,221 25	12,221 25
1938.....	5,000 00	808 75	5,808 75
1939.....	4,000 00	636 25	4,636 25
1940.....	3,000 00	501 25	3,501 25
1941.....	2,000 00	403 75	2,403 75
1942.....	2,000 00	326 25	2,326 25
1943.....	2,000 00	248 75	2,248 75
1944.....	1,000 00	192 50	1,192 50
1945.....	1,000 00	157 50	1,157 50
1946.....	1,000 00	122 50	1,122 50
1947.....	1,000 00	87 50	1,087 50
1948.....	1,000 00	52 50	1,052 50
1949.....	1,000 00	17 50	1,017 50
	\$1,309,500 00	\$287,187 50	\$1,596,687 50

## MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1919.

	Principal	Interest	Total
Bonds, General City Debt	\$232,500 00	\$57,308 75	\$289,808 75
Bonds, Water .....	4,000 00	240 00	4,240 00
Temporary Loans .....	.....	44,465 78	44,465 78
Grade Crossings .....	10,260 00	1,291 75	11,551 75

On account of Metro.  
Dist. Debt:

Sewers .....	19,983 71	31,174 43	51,158 14
Park .....	3,587 05	12,881 65	16,468 70
Wellington Bridge .....	1,265 00	328 90	1,593 90
Charles River Basin .....	265 20	3,246 27	3,511 47
Alewife Brook .....	818 39	350 91	1,169 30
Water .....	16,023 68	78,335 58	94,359 26
	<u>\$288,703 03</u>	<u>\$229,624 02</u>	<u>\$518,327 05</u>

Somerville's proportion  
for debt requirements:

In State Tax .....	\$27,991 21	\$32,952 61	\$60,943 82
In County Tax .....	3,912 25	2,581 23	6,493 48
	<u>\$320,606 49</u>	<u>\$265,157 86</u>	<u>\$585,764 35</u>

## GRADE CROSSING DEBT.

(Carried by Commonwealth).

Decrees entered . . . . .		\$120,097 10
Paid Commonwealth . . . . .	\$117,260 61	
Deduct interest included in above . . . . .	20,583 51	96,677 10
		<u>\$23,420 00</u>

Payable	Principal	Interest
Nov. 15, 1920 . . . . .	\$8,280 00	\$891 80
1921 . . . . .	7,380 00	576 60
1922 . . . . .	4,380 00	294 40
1923 . . . . .	3,380 00	127 20
	<u>\$23,420 00</u>	<u>\$1,890 00</u>

TREASURY DEPARTMENT, 1919.

Appropriated in budget . . . . .	\$17,715 00	
Transfer, Order approved December 30th . . . . .	90 00	
	<hr/>	\$17,805 00
Salaries:		
Treasurer and Collector . . . . .	\$3,603 10	
Deputy Collector . . . . .	1,700 63	
Cashiers . . . . .	2,121 00	
Clerks . . . . .	6,351 74	
Stationery, postage and books . . . . .	1,622 12	
Printing and Advertising . . . . .	781 36	
Carriage hire, car fares, auto hire, etc. . . . .	75 11	
Telephone . . . . .	158 44	
Surety bonds . . . . .	505 00	
Advertising and recording tax sales . . . . .	604 35	
Sundries . . . . .	278 05	
	<hr/>	
	\$17,800 90	
Balance . . . . .	4 10	
	<hr/>	<hr/>
		\$17,805 00

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

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School Committee Rooms, January 2, 1920.

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, 1919.**

HERBERT CHOLERTON . . . . . Chairman  
 DANIEL H. BRADLEY . . . . . Vice-Chairman

**Members.**

**EX-OFFICIIS.**

Term Expires  
 January

CHARLES W. ELDRIDGE, Mayor,	47 Highland road	1920
ENOCH B. ROBERTSON, President Board of Aldermen,	87 Highland rd.	1920
WARD ONE.		
JAMES J. RUDD,	46-A Franklin street	1920
DR. WINNIFRED P. DAVIS,	125 Pearl street	1921
WARD TWO.		
DANIEL H. BRADLEY,	19 Concord avenue	1920
CHRISTOPHER J. MULDOON,	88 Concord avenue	1921
WARD THREE.		
ALFRED L. WEST,	69 Avon street	1920
OSCAR W. CODDING,	21 Pleasant avenue	1921
WARD FOUR.		
EDGAR F. SEWALL,	281 Broadway	1920
FRANK H. HOLMES,	22 Walter street	1921
WARD FIVE.		
HARRY M. STOODLEY,	283 Highland avenue	1920
*MRS. BLANCHE E. HERBERT,	56 Dartmouth street	1921
WARD SIX.		
PAUL S. BURNS,	191 Summer street	1920
WILLIAM M. MORRISON,	97 Rogers avenue	1921
WARD SEVEN.		
FRANK E. PORTER,	43 Ossipee road	1920
HERBERT CHOLERTON,	94 College avenue	1921

\* Resigned Oct. 27, 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 hour is 4 o'clock on school days, and 8:30 on Saturdays.

**Assistant Superintendent of Schools.**

JOSEPH A. EWART.

Residence: 11 Bigelow street.  
 Office hour: 4 o'clock on school days.

Superintendent's office force:—

Mary A. Clark, 42 Highland avenue.  
 Mildred A. Merrill, 26 Cambria street.  
 H. Madeline Kodad, 1067 Broadway.  
 Arline P. Hall, 189 Pearl street.

**Board Meetings.**

January 27.	April 28.	September 29.	December 26.
February 24.	May 26.	October 27.	January 2, 1920.
March 31.	June 30.	November 24.	

8:15 o'clock.

## STANDING COMMITTEES, 1919.

NOTE.—The member first named is chairman.

District I.—Rudd, Dr. Davis, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Muldoon, Codding.

KNAPP, PERRY, BAXTER.

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

POPE, CUMMINGS.

District IV.—Sewall, Holmes, Mrs. Herbert.

EDGERLY, GLINES.

District V.—Stoodley, Mrs. Herbert, Sewall.

FORSTER, BINGHAM.

District VI.—Burns, Morrison, Stoodley.

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

District VII.—Porter, Cholerton, Burns.

HIGHLAND, CUTLER, LINCOLN, LOWE.

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

Finance.—Stoodley, Rudd, Bradley, Codding, Sewall, Burns, Cholerton, Eldridge, Robertson.

Text-Books and Courses of Study.—Muldoon, Dr. Davis, West, Sewall, Mrs. Herbert, Morrison, Porter.

Industrial Education.—Holmes, Rudd, Muldoon, West, Stoodley, Burns, Porter.

School Accommodations.—Porter, Codding, Rudd, Bradley, Holmes, Mrs. Herbert, Morrison, Eldridge, Robertson.

Teachers.—Cholerton, Bradley, Dr. Davis, Codding, Burns.

Playgrounds and School Hygiene.—Dr. Davis, Muldoon, Sewall, Mrs. Herbert, Morrison.

Rules and Regulations.—Codding, Muldoon, Porter.

## REPORT OF THE SUPERINTENDENT OF SCHOOLS.

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*To the School Committee of Somerville:*

The 48th Annual Report of the Superintendent of Schools is respectfully submitted. The conditions for the year just closing are given and comparisons are made with other years sufficient to show the relation of present conditions with those which have gone before. The statistics are taken, unless otherwise stated, from the report of the State Board of Education for the school year ending June 30, 1919, and do not include facts relating to vocational schools.

### Membership.

The size of the school problem for the year is best shown by the average membership which is 12,643 pupils, an increase of 75 pupils during the year. This membership is distributed among twelve grades and the kindergarten. The ninth grade or third year of the Junior High School and the tenth, eleventh, and twelfth grades of the Senior High School contain 2361 pupils of this average membership. In other words if there were no Junior High Schools these 2361 pupils would be in the four year high school organization in the High School building. This would be 700 pupils more than the present number in the High School, and at least 500 more than ought to be in attendance at one time in that building. This large number of pupils in the High School section of the school organization is caused in part by the fact that the elimination of the ninth grade which as is shown elsewhere in this report had been under way for a number of years, brought into the High School grades in September, 1918, an extra unit. This increase will continue until June, 1922, when this extra unit will pass out of the High School and thus out of the school system. This event will complete the elimination of the thirteenth year of the school organization and will reduce proportionally the total membership of the schools. The reduction thus resulting will occur in the High School alone and will not affect the situation in the grades below the High School.

### Teachers.

During the present fiscal year 45 teachers have resigned, 10 to be married, 16 to accept better paying positions elsewhere. Of this number, two went to New York, two to Boston, one to

Newton, nine to take positions of higher rank, and two to take better paying positions in business.

Fifty-two teachers have been appointed, including a matron in the High School. These new teachers were distributed as follows: High School, 14; Junior High Schools, 20; elementary schools, 18. All had professional training and experience. Nineteen were college graduates, twenty-five graduates of normal schools, three of kindergarten normal training schools, four graduates of commercial schools, and one, the matron, an employee holding a similar position in business.

Somerville graduates of state normal schools or of college courses in education are given an opportunity to get one year's training as an apprentice-teacher after graduation, in order to qualify for a permanent position. At the end of this period they are eligible for consideration with all others for appointment to any existing vacancy. Most of this number are appointed to positions in the schools. This source, however, supplies only a fraction of the total number of new teachers needed. The remainder must be sought in other communities. To induce them to make the change better pay or more advantageous teaching conditions must be offered.

On the other hand, so long as there are communities which pay higher salaries than Somerville it is inevitable that some losses will occur for this reason. The probability of such losses, however, is very greatly reduced by the salary increases given our teachers this year. The increases pending and made during the year amount to \$550 per annum for a large majority of the teachers, and \$500 for all others.

#### Increase of Pay.

In January the School Committee voted to increase the pay of all elementary, junior high, and vocational women teachers \$50 per year and to raise the pay of cadets from \$200 to \$400 per year. In June the Committee voted to increase the pay of all teachers \$100 to begin September, 1919, and to increase the maximum of elementary teachers to \$1100. A new salary scale for teachers in the high and elementary schools was adopted at the June meeting. This new scale includes the increases of pay granted by the Board during the year and has features which are more advantageous to the teachers than the old schedule. The minimum pay of elementary teachers was raised to \$700 and the maximum to \$1100. In the November meeting the School Committee passed a vote requesting His Honor, the Mayor, and the Board of Aldermen to provide funds for an increase for all teachers of \$400 per annum. Thus in one year, the School Committee raised the salaries of all women teachers in the elementary and Junior high schools \$150 per an-

num and fixed the maximum salary at \$1100, \$200 in excess of the maximum in effect January 1, and it has voted to ask for money to enable it to give a general increase of \$400 per annum to all teachers to date from the first of the new year. With the increase now pending the maximum will be \$1500.

#### School Accommodations.

In the June meeting of this year the School Committee adopted a recommendation presented by the Committee on School Accommodations asking the Mayor and the Board of Aldermen for additional accommodations in each of the junior high school centers and for a gymnasium for the use of the high school. The action proposed was intended to meet not only pressing immediate needs but also to prepare at least for the demands of the next five years. The Prescott and Southworth school buildings provide accommodation for the Eastern Junior High School and for the first four elementary grades. Four rooms in the Prescott school are used for the latter purpose. As was predicted last spring, it has been necessary this fall to put classes on half time in the Hanscom and the Prescott schools. The Edgerly and the Glines schools are full and there is no prospect of relief in this region until additional accommodations are provided. At the Southern Junior High School there are three classes in excess of the number of rooms. Afternoon classes have provided a way for relieving this situation. In the Western Junior High School there are five classes in excess of the number of rooms in the new building and the Hodgkins building combined. Every available room is used for classroom purposes and classes are held regularly in the corridors. Afternoon classes here have relieved the situation. It will be necessary to continue to have such classes until additions are made to the plant. At the Northern Junior High School every room is used and afternoon classes are held. Twelve classes are conducted in the Folsom building, although it was originally planned for only six. All rooms in the Foster building are used, including the basement ward room. Four rooms are used by six elementary grades.

The high school building is fully occupied. By transferring the Girls' Vocational School to the high school building, three rooms were occupied in the basement of the East building, one a domestic science room, the others small rooms adjoining. While there are many vacant sittings in the high school, the building is so filled as to make any variation from the present program of exercises which calls for additional room impossible.

There are now three half-time classes in the Hanscom school and two in the Prescott. Two more would have been

necessary in the Hanscom but for the fact that a whole class was transferred from the Hanscom to the Pope school to occupy a room made vacant by transferring a class therefrom to the Bennett school. Although both changes were made for the express purpose of avoiding as far as possible making half-time classes, there was considerable objection from many parents affected by the action.

It will be interesting in this connection to review what has been done in the last few years in the matter of providing additional accommodations for the schools. It appears from the records that the problem of over-crowding has constantly demanded attention. In the school report for 1907 an earnest plea was made for additions to the High School to include among other things thoroughly equipped gymnasiums for both sexes, a suitable lunch room, and an assembly room large enough to accommodate the entire school. The following were also recommended: a six room addition to the Perry School in Ward Two; a rearrangement of several rooms in the Carr School; and a twelve or fifteen room building with an ample assembly hall for Ward Seven on Holland Street. No part of this program was carried into effect until 1912 when a twelve room building was erected in Ward Seven on Powder House Boulevard.

In 1913 the overcrowding of the High School had become so great as to necessitate the adoption of the two-session plan. In this year thirty rooms and an assembly room were added to the plant. While this addition was considerable in size and cost, it was recognized at the time that a final settlement of the problem of high school accommodations had not been achieved.

In January, 1915, the School Committee adopted a report of the Committee on School Accommodations asking for a schoolhouse of thirty rooms, with a playground large enough for fifteen hundred pupils, to be built adjoining the Edgerly School, and also for an addition of twelve rooms to the Cutler School. As a result of these recommendations six rooms were added to the Cutler School and were occupied in September, and a nine room building was started on land adjoining the Prescott School.

In 1916 the High School again became overcrowded having an attendance of over two thousand pupils. In certain schools in the western and central parts of the city the attendance exceeded the capacity of the buildings. There was a general demand that something should be done to relieve this overcrowdedness, and one remedy proposed was a new high school building in West Somerville. Early in 1916 His Honor, the Mayor, asked the School Committee to inform him whether ad-

ditional school accommodations were needed, and if so, to what extent, and in what locality. After due consideration, in which opportunity was given the public to express its opinions, the School Committee agreed upon a plan to meet the immediate and future needs of the city so far as schoolhouse construction is concerned. This plan was embodied in the following resolution:

Resolved: It is the judgment of the School Committee that a system of Junior High Schools for Somerville should be established to consist eventually of four units; one in the Western part of the city on Holland Street, one at the Forster School in the Northern section of the city, one at the Prescott School in the Eastern section of the city, and a unit to be erected in the Southern part of the city, preferably adjacent to the Bell Schoolhouse. It is the sense of the Committee that provision be made, not only for the construction of the proposed building in the Western section, but also for the acquisition at the present time of the vacant land adjacent to the present Bell School lot on Vinal Avenue, it being understood that the School Board is committed in its opinion to the future development of this whole project.

During 1916 appropriation was made for a Junior High School building to be erected on the ledge lot on Holland Street, West Somerville, and a lot of land 65x117 feet on Vinal Avenue adjacent to the Bell Schoolhouse, was bought as a site for a Junior High School. In September of this year, the Southworth building was opened as a Junior High School, and a Junior High School was opened in the Forster School. As a result of these two events one hundred sixty-nine pupils of the tenth grade, who were eligible to enter the High School were retained in the Junior High School. This act reduced the membership of the Senior High School and somewhat relieved crowding there. The opening of the Southworth building also gave relief to the Glines, Edgerly, and Hanscom schools, which had been overcrowded for more than a year before that time. Provisions were made during this year for an addition of considerable size to the Boys' Vocational School.

In September, 1917, a new schoolhouse was opened on Holland Street for the use of the Western Junior High School. This building contained eleven classrooms and four basement rooms for practical arts classes. During the construction of this building, owing to the increased cost of materials, it was decided to reduce the size of the structure by the omission of a part that was included in the original plan. The building was occupied in September and was immediately filled, activities of the school occupying every room and temporary rooms created by partitioning off part of the corridors. During this year a

part of the Hodgkins School was used for Junior High School purposes and the remainder for Elementary School purposes. At the close of 1917, there was a clear understanding that additions to the Eastern and Western Junior High Schools were needed, and that at least six rooms should be provided for each school at the earliest possible moment. During this year an appropriation was made for the construction of a Junior High School building on Vinal Avenue.

In 1918 an addition to the Bell Schoolhouse was finished, and occupied in September. This building contained nine classrooms and three rooms for special uses. A building fifty-eight feet by sixty-two feet was completed on Glen Street adjoining the Davis Schoolhouse. This building is used for an automobile shop for the Boys' Vocational School.

Although these additions have been made to the schoolhouses, the present condition is that there are half-time classes in the Eastern section of the city, and afternoon classes in each of three of the Junior High Schools.

Action already described has been taken by the School Committee during the present year, with a view to meeting the present needs of the schools and of providing for their future expansion.

#### High School.

The High School had a full four grade organization during the school year ending June 30th, 1919. All departments of the school were conducted under conditions more nearly normal than those which have prevailed for several years. The emotional strain of the War was relaxed during this year; there was a release from the calls for assistance from outside organizations; teachers and pupils worked with their minds occupied with the business of the school. A successful year's work was the result. There were graduated from the school in June 310 pupils, of whom 93 entered higher institutions on certificate or examination. 18 different colleges are represented in the list. 18 boys went to Tufts college, 21 pupils went to Normal Schools, and 23 entered Boston University.

The graduates of the Commercial Course all found positions in business offices soon after graduation. They are filling places as typists, stenographers, clerks, and bookkeepers, and graduates of this course are in demand to fill responsible positions. Reference to the report of Headmaster John A. Avery will show additional particulars attesting the success of the High School in preparing its graduates for subsequent success.

#### Junior High Schools.

The school year ending last June was the first in which the junior high schools were operated with provisions made for all



parts of the city. All the problems of administration of the new enterprise had been met in a competent manner and the program of studies had been carefully arranged and had been applied by teachers whose experience and skill assured efficient instruction. An admirable school spirit had been developed among teachers and pupils. A large degree of co-operation had been secured from the parents of the pupils and thriving and enthusiastic Parent-Teacher Associations had been formed in several of the schools. The junior high schools had come into vigorous, confident, and capable being. The institution had met all the conditions which the public and the School Committee expected it to do, when, in 1916, they adopted it as the means best adapted to satisfy the various difficult conditions then confronting them. In the short interval of three years the transition from the old system to the new had been made all over the city, three new school buildings had been opened, the high school and elementary schools had been relieved of overcrowding, and the new organization had been completed and successfully operated. That this is a creditable record and one of which the city may well be proud is shown by the attention which this undertaking has received from other communities. School Boards, Superintendents of Schools, principals, and teachers have visited these schools during this time to study the plan of organization and to see how it works in practice. Favorable comment in conversation, in letters, and in press notices has been frequent. Among the visitors during this year have been School Committeemen and the Superintendent of Schools from one of the largest cities of the State, which is now about to change from the nine year elementary and four year high school system to the six year elementary, three year junior high, and three year senior high school plan, with four junior high schools. This junior high school plan is now in operation in eleven cities and twenty-four towns in this state and in several others is being considered for early adoption. Other cities have adopted part of the junior high school idea by gathering together the pupils of the highest grammar grade and giving them a program of studies conducted on the departmental plan. All of these movements are indicative of a recognition of the fact that present day conditions make imperative the giving of a broader educational opportunity to pupils of the pre-adolescent age.

The present need for additional accommodations should not be regarded as a consequence of the establishment of junior high schools. It was clearly set forth and generally understood in 1916 that more accommodations must be provided in the near future. Among other reasons for adopting the junior high school plan was that this plan concentrated in four centers

building operations which would benefit the whole city. The two buildings authorized since the adoption of this plan, the Western and the Southern, were both smaller than the needs of the schools, but were provided with the idea of later adding other units of construction to make an adequate provision for the needs of the city. For more detailed information about the junior high schools the report should be read which Mr. Ewart, the Assistant Superintendent of Schools, has prepared at my request and which I submit as a part of this report.

#### Elementary Schools.

This term now applies to the first six grades as distinguished from those above the sixth year. These schools are in better physical condition than ever before, because, with the exceptions already noted in this report, the elementary schools are not crowded and the number of pupils to a teacher has been reduced in many cases. These schools are taught by experienced and competent women, many of whom have long been in the service of the city. The elementary schools are supervised and administered by supervising principals who were formerly grammar school masters or were instructors in other responsible positions. The problem of these grades is to develop the child physically, morally, and mentally, and to instruct him in the rudiments of knowledge. This is in some respects the most important part of the school undertaking. It is therefore fitting that it should have its needs met most fully. Such, in general, is the case now. In accommodations, in principals and teachers, in equipment and supplies, the elementary schools are better prepared to do their work than ever before.

#### Boys' Vocational School.

Nine boys were graduated from this school in June. The boys immediately found profitable employment in industry. Now the school has the largest membership in its history and three departments in good working order. During the war vocational schools throughout the State fell off in membership but this year new interest has been shown by a general increase in attendance.

#### Girls' Vocational School.

Nine girls were graduated from this school last June. In the fall there was an unexpected falling off in attendance at the school. After consultation with the Deputy Commissioner of Education of the State of Massachusetts, it was decided to be desirable to continue the school but to reduce the corps of teachers to correspond with the reduced membership. As a

means of further reduction of cost, it was decided to transfer the school to the high school building, where there were a large domestic science room and two small rooms in the basement of the East building which had not been in use since September. The school was established in these rooms in October under the charge of the director. One teacher of domestic science is employed; one period a day instruction in English is given by a high school teacher, and instruction in dressmaking and drawing is given in high school classes. This school assists in the preparation of food for the high school lunch rooms, both of which are under the direction of the principal of the Girls' Vocational School.

#### Cost.

The cost of schools is increasing though not so fast as that of living in general. The chief item of expense for support of the schools is salaries of teachers. This item grows through the automatic, longevity increases afforded by the salary schedule, through general increases made by the School Committee, and through additions of salaries for new undertakings. Other large items are cost of text books and supplies, operation of school plant including janitor service and the cost of repairs and upkeep.

The details of these expenditures for the last school year are given in tables which form a part of this report. These show the cost for the last school year and give opportunity for comparisons with other years. How Somerville ranks with other cities in the State is shown in a report of the Board of Education for the school year 1917-18, the latest figures available for such a comparison. Somerville is the tenth city in population, but is eighth in the number of pupils in the average membership. Seven cities only had a larger average membership.

In expenditures for salaries of teachers Somerville is seventh, one above its rank in membership. In expenditures for text books it is sixth, two above its rank; in supplies fifth, three above its rank; in fuel sixth, two above its rank; in janitor service ninth, one below its rank; in general control or administration twelfth, or four below its rank.

A comparison of the cost of these items per pupil in the average membership in our schools with the average for the cities and towns of the state show the following facts:

Salaries of teachers, Somerville \$30.55, State \$32.62.

Expenditures for text books and supplies, Somerville \$2.15, State \$2.27.

Operation School plant, including janitor service and fuel, Somerville \$5.59, State \$7.09.

Expenditures for administration, Somerville \$0.98, State \$2.03.

There has been an increase of 775 in the average membership of the schools notwithstanding the fact that in 1910 the number of beginners was cut down more than one half by raising the age of admission to the first grade one year and this reduction has been operative since that year.

The increase in cost of teaching has been from \$22.69 to \$30.55.

The maximum salary of the elementary teacher in 1907 was \$650; in 1917 \$900.

Additional activities had been established and the change of residence of a portion of the school attendance necessitated opening new schools without closing old ones, although reducing the number of pupils per teacher in the latter.

The cost of books and supplies increased from \$1.40 to \$2.15. This change is due in part to the general increase of cost of all materials and in part to broadening the work in industrial and commercial subjects.

General control, or administration, has risen from 47 cents to 98 cents. The average for the State in 1907 was \$1.67, in 1917 \$2.03.

In 1907 the Superintendent of Schools recommended the employment of a man to have charge of the business of the School Committee. Since 1917 State laws and municipal regulations have imposed additional business and clerical work, and the addition of school activities such as vocational schools, junior high schools, domestic science, special schools, Americanization work, war work, etc., have greatly added to administrative and business work, the whole making a volume at least three times greater than that of 1907. Legislation of 1919 will add to that volume in connection with establishing and conducting continuation schools and an enlarged program of Americanization work.

#### Review.

This examination of comparative cost statistics suggests a review of the changes which have been made in school activities in the same period. In the school report for 1907, Superintendent Southworth made the following specific recommendations for the improvement of the schools: The extension of high school accommodations to include enlargement of the high school plant to afford suitable quarters for manual

training with a view to its extension, enlarged facilities for commercial work, more room for the library, thoroughly equipped gymnasiums for both sexes, additional room for the chemistry and physics departments, facilities for the teaching of domestic science, a suitable lunch room accessible to both schools, larger book and supply rooms, and an assembly room large enough to accommodate an entire school; the enlargement of the Perry Schoolhouse by the addition of six rooms; the erection of a twelve or fifteen room building on the city ledge lot in Ward Seven, with an ample assembly hall for public as well as school convenience; the employment of additional teachers in the Latin School; the awakening of public interest in playgrounds for children; the employment of an additional truant officer; the extension of manual training, to include the eighth and ninth grades; the employment of two nurses in connection with the medical inspection of schools; the employment of an instructor of physical training for the high schools; the extension of supervision by grammar masters, to include the smaller schools; the gradual reduction of the number of pupils assigned to a teacher; the employment of extra teachers for backward children; changes in the methods of school administration, by the employment of a man to transact the business of the School Board. Concerning these recommendations Mr. Southworth said "In reviewing this report I find that it contains an unusual number of recommendations. Further consideration of them, however, leads to the conviction that their adoption is largely a matter of time. If they could be made at once the schools would be greatly benefited."

Among the changes which have been made since 1907 many of these recommendations have been carried into effect. The high school plant has been enlarged and an auditorium provided; the Cutler school building has been provided, filling the need in West Somerville as then foreseen, with the exception of the auditorium; additional teachers have been provided in the college preparatory course of the high school; the School Committee has assisted in the development of the supervised summer playgrounds which are now under the management of the Recreation and Playground Commission. Supervised play is part of the physical training program of the schools. In 1919 the School Committee employed an additional attendance officer. The Junior High School presents to boys a broader opportunity for instruction in manual training. Two nurses are now employed by the Board of Health, subject to the direction of the School Committee. In 1914 an instructor in physical training was employed for high and elementary schools. A director is now employed part time and an assistant

teacher full time. While physical training is not now compelled by law, legislation to that effect is being urged with increased strength. In connection with the opening of the junior high schools the supervision of all elementary schools has been organized in nine supervisory districts, each under the charge of a grammar school master. A reduction of the number of pupils per teacher in the elementary schools has been made wherever there has been a sufficiency of schoolroom. Since 1910 three classes have been formed for children retarded in mental development. A state law, passed in 1919, makes compulsory the establishment at the beginning of the school year 1920 of special classes to give to children, three or more years retarded in mental development, instruction adapted to their mental development, under regulations prescribed by the Board of Education. The recommendation that the school administration be improved by the employment of a man has been met and other additions made to meet the increase of work.

Other important changes have been made in harmony with the prevailing educational thought and demand. In 1910 the Committee voted to reduce the elementary course from nine to eight years. The Commissioner of Education in his report for 1919 says "It is apparent that the ninth year of the elementary school is fast disappearing, and that the eight-year course, now most common, is being replaced in many instances by an elementary course of six years, and a Junior High School course of two or three years." The beginners who entered school in September, 1910, were started on an eight-year elementary course and entered the High School in 1918 as the third year class in the Junior High Schools. As the Committee had at the time of voting the eliminating of the ninth grade raised the age of admission to the first grade, the average age of entering the high school was not reduced by that action. In making this change, the Committee was clearly in step with the times, though ahead of communities which have since done the same thing, and of others which have it yet to do.

In 1910 the Committee opened a vocational school for boys, and in 1911 one for girls. The providing of vocational schools was demanded by local sentiment. One half of the maintenance cost of these schools has been met by the State. Since 1918 the National Government has contributed a substantial sum towards the maintenance of Vocational Education. The present arrangement is that the city and state divide equally maintenance cost after deducting from the gross expenses the amount paid by the National Government.

A beginning in teaching domestic science was made in the Forster Intermediate School in 1914. It is now taught in the four Junior High Schools and in the High School. The State

legislature in 1919 made compulsory, in towns of over 20,000 inhabitants, the teaching of "household arts as a part of both its elementary and its High School system."

In 1910 a dental dispensary was opened to give treatment to pupils who could not afford to pay the charge for professional service. This action was urged by local practitioners and was regarded as an important step forward in the interest of the health and well-being of children.

Other measures for the improvement of the schools, not elsewhere discussed in this review include the employment of a librarian, a teacher coach, and a matron in the High School, the consolidation of two high schools into one general high school, with highly developed courses of instruction, the establishment of Junior High Schools with broadened courses for children of intermediate ages, and a progressive increasing of salaries of teachers, principals, and other workers in the schools.

#### Teachers' Salaries.

The most notable occurrence of the present year has been the recognition given to the fact that teachers were underpaid and were deserving of a substantial increase in their pay. Public opinion throughout the Nation became aroused upon this matter with the result that communities everywhere made unprecedented advances in expenditures for this account. Somerville, as usual, kept step with the progressive communities, and made generous increases in teachers' salaries.

This recognition of their needs has brought to the teachers a welcome relief from financial anxieties. For this improved condition they are deeply appreciative and grateful. That they will justify in their work this expression of public regard I have not the slightest doubt.

#### New Legislation.

As a result of State Legislation and of a Referendum submitted to the voters of Somerville, it has been decided that continuation schools shall be established and maintained in this city at the beginning of the next school year. The law prescribes in some detail the general conditions to govern the establishment and conduct of these schools. It is provided that the schools and courses of instruction shall be subject to approval by the Board of Education and that with such approval granted reimbursement shall be made from the Treasury of the Commonwealth to an amount equal to one-half the total sum raised by local taxation and expended for the maintenance of such schools.

The establishment of these schools will require careful

planning and the provision of suitable teaching and supervising corps. In order that all arrangements should be completed by the first of the new school year it will be necessary to begin soon the investigations which must precede the formulating of plans for this new institution.

#### Classes for Retarded Children.

The legislation regarding classes for children retarded in mental development provides that the School Committee shall before July 1, 1920, and annually thereafter "ascertain under regulations prescribed by the Board of Education and the Director of the Commission on Mental Diseases the number of children three years or more retarded in mental development who are in attendance upon the public schools of its city or town or who are of school age and reside therein." It also provides "At the beginning of the school year of nineteen hundred and twenty, the school committee of each city and town in which there are ten or more children three years or more so retarded shall establish special classes to give such children instruction adapted to their mental attainments, under regulations prescribed by the board of education."

It is apparent from these provisions that it will be necessary to make an investigation in accordance with the directions of the board of education to ascertain how many children there are in the city who need to be taught in these classes. Whether this will make necessary more classes than are now maintained can not be decided until the inquiry has been made.

#### Americanization Work.

Another act of the last legislature is one entitled "An Act to promote Americanization through the Education of Adult Persons unable to use the English Language."

This provides that the Board of Education may co-operate with cities and towns to promote and provide for the education of persons over twenty-one years of age who are unable to speak, read, and write the English language. The school committee having already expressed its intention to accept the co-operation of the board of education in this matter this city will be entitled to receive from the Commonwealth one half the sums expended by it in carrying out the provisions of this act. Several teachers are now employed in this work. There is no doubt that more classes should be formed and more teachers employed to meet the conditions which exist in this city. The board of education through its agent will assist in investigating the needs of the community and in recommending action that should be taken. It is the policy of the board



of education to conduct Americanization work of the State through local school committees. Such being the case, the initiative for meeting the needs of the community for this kind of work must be taken by the school committee. An enlarged program for this work is clearly needed and measures to provide it should be adopted in the near future.

#### Conclusion.

I again invite your attention to the reports of the Assistant Superintendent, the Head Master of the High School, the principal of the Vocational school for Boys, and the Garden Supervisor submitted herewith, and to the statistical tables and statements giving interesting facts and details about the work of the schools.

In conclusion I express again my deep obligation to all the members of the School Committee for the courtesy and consideration which have attended all our personal relations. I acknowledge also with pleasure the co-operation and support which have been given by the officers and teachers of the schools in all the work of the year.

Respectfully submitted,

CHARLES S. CLARK,

*Superintendent of Schools.*

January 2, 1920.

#### REPORT ON HIGH SCHOOL.

Somerville, Mass.,

January 2, 1920.

Mr. Charles S. Clark,  
Supt. of Schools,  
Somerville, Mass.

Dear Mr. Clark:

The unusual conditions of the past years have seriously interfered with the regular work of the school. This has been evident in various ways. Poor attendance has been the rule rather than the exception. Sickness, lack of interest, many opportunities to do part time work out of school, and the general unrest have all tended to make pupils' attendance irregular. Add to these conditions the fact that many days were lost because of coal shortage, influenza, etc., and it is very apparent

that the number of school days per pupil has been of late years decidedly decreased. Furthermore, pupils when present have not been in the same mental attitude toward their work as formerly. The uncertainty of the outcome of the war, the absence of members of their own families in the service, together with the death or sickness of relatives and friends have interfered with concentration of effort and with the accomplishing of satisfactory results. And in addition the constant appeal for pupils to assist, both in and out of school hours, in all kinds of war work reacted against the successful fulfilment of any definite educational program. The effect of all this has been hard to bear more particularly in the Preparatory department where the usual requirement for college entrance was strictly maintained by the colleges. Of course there have been some favorable reactions. Particularly has the interest in war work and the eager desire to be of service developed a high spirit of patriotism, of unselfishness and of loyalty. This effect, however, was moral and spiritual, very rarely educational.

This year, with the war closed, with no signs of unusual sickness and an accordingly greatly improved attendance, with the cessation of interruptions from demands for outside work, the school has been able to readjust itself to the accomplishment of the normal function of educating its pupils. The effect has been striking with the keynote "business" continuously before us. We have already, in a large way, recovered the old stride and have settled down to hard work with a gratifying energy.

This has particularly shown itself in the preparatory department which naturally suffered the most during the war. An unusual number of last June's graduating class felt the desire for a college education, and there were sent either by certificate or examination Sept., 1919, 95 pupils to the following institutions:

Amherst College . . . . .	1
U. S. Naval Academy . . . . .	1
Boston University	
College of Business Administration . . . . .	18
College of Liberal Arts . . . . .	4
Law School . . . . .	1
Brown University . . . . .	1
Columbia University . . . . .	1
Dartmouth College . . . . .	3
Harvard College . . . . .	2
Holy Cross College . . . . .	1
Jackson College . . . . .	3
Lowell Textile . . . . .	4
Massachusetts Institute of Technology . . . . .	3
Massachusetts Agricultural College . . . . .	1

Northeastern College . . . . .	3
Notre Dame University . . . . .	1
Normal Schools . . . . .	21
Simmons College . . . . .	5
Trinity College . . . . .	1
University of Pittsburg . . . . .	1
University of Maine . . . . .	1
Tufts College . . . . .	18
	<hr/>
Total . . . . .	95

In connection with these figures of 1919, I feel justified in making the statement that Somerville High School has a right to be proud of its record as a preparatory school, and I invite a careful inspection of tables following this letter as evidence. From Harvard this fall we have had two letters regarding our boys, showing that our graduates there are standing well to the front. Two young men have been elected to the Phi Beta Kappa Society, three have received this fall scholarships of the first group and one of the second group. In addition, one freshman this fall received Price Greenleaf Aid for excellence in passing his entrance examinations.

I quote the following letter in full:

Harvard College,  
Cambridge, Mass.

Dear Mr. Avery:—

I am glad to be able to tell you that Harold F. Price, '23, who entered Harvard this fall from your school, did such good work in the entrance examinations that we have been able to give him Price Greenleaf Aid. We shall hope that his future work may be so good that we can continue to aid him from our scholarship funds and in other ways. You may be sure that we shall endeavor in every possible way to help him and that we shall welcome any suggestions from you of ways in which conditions may be made more favorable for him.

With congratulations on the good work of your school, which Price's record reflects, I am,

Yours very truly,

C. N. GREENOUGH,

*Acting Dean.*

While great stress has been laid on our preparatory course, in no sense have the other courses been neglected.

While statistics of the Commercial graduates are necessarily harder to obtain yet we are constantly in receipt of evidence that the graduates of our commercial department are

giving satisfaction in excellent positions. We could place many more young people in good positions. Requests are coming in continuously for which we have no available candidates. A gratifying testimonial to the excellence of this department was a gift of three hundred dollars presented to the school last June in appreciation of the admirable record which our graduates have made in the business world.

A business man employing many graduates of schools, in speaking of the exceptionally good work which one of our last year's graduates was doing for him, said that he had never had a stenographer so adaptable and proficient. Reports of this kind are not uncommon. Dexterity in shorthand and knowledge of bookkeeping are of course essential in a commercial preparation, but too much emphasis cannot be laid, along with these, on general knowledge, proficiency in English, and all-round adaptability. In these respects a public school can show results which the commercial school can seldom produce. There is no short road to success. A four year high school commercial training cannot fail to secure, if properly employed, high standards, great proficiency, and a high power of adaptability. Past results speak for themselves and our commercial graduates deserve commendation.

All things considered, therefore, I feel that the outlook for the Somerville High School is a bright one.

With the complete organization of junior High Schools we should be able to concentrate on a three years' course of intensive work. Furthermore, the Junior High Schools under careful planning should in due time send us even better prepared pupils than we were formerly able to secure in the Sophomore year.

Also as a three year school we shall soon be reduced to numbers consistent with the size of our building. In addition to a release from crowding, we should thereby be able to secure rooms for activities sadly handicapped at present, — such rooms as a library of proper size and location, satisfactory teachers' rooms, improved toilets for pupils, special rooms for the school paper, athletics, and debating, an emergency room and office for our school matron, and a small assembly hall.

Thanking you and the School Committee for your kind interest and co-operation, I am,

Very sincerely yours,

JOHN A. AVERY,

*Head Master.*

## REPORT ON JUNIOR HIGH SCHOOLS.

Mr. Charles S. Clark,  
Superintendent of Schools,  
Somerville, Mass.

Dear Sir:—

The last school year was notable for the fact that junior high schools were for the first time in operation in all sections of the city, the fourth and last one, the Southern, having been opened in September, 1918, in the enlarged Bell building on Vinal Avenue. The transition from the regular grade organization to the junior high school organization had been accomplished by a plan of gradual extension, covering a period of three years. Each unit, as soon as organized, began operation in a steady well-controlled, consistent manner, supported from the outset by earnest, enthusiastic teachers and pupils and by friendly, co-operative parents.

**Ideals and Purposes.**

As developed in Somerville, the junior high school plan has taken away no educational advantage from any pupil but has created a larger opportunity for securing in the school the maximum of preparation for the life that the child will later lead in the community.

The school of today will not have done what may fairly be expected of it if it contents itself with imparting knowledge of a small range of subjects. It must prepare its pupils to become efficient members of the community. This most important work of the school is not measurable by the written examination: the real test comes after the child has passed into the activities of citizenship.

SCHOOL LIFE, an official publication of the United States Bureau of Education, says: "There is plainly discernible a new spirit, a new method, and a new ideal in education. . . . . The new ideal of the school is the fitting of our youth to enter into reciprocal and co-operative relations with their fellow-men in an intelligent manner. The ideal in the past, at least in the city schools, has been the fitting of pupils to do the work of the next grade or to be promoted into the next higher school. The aim of the modern school is to develop initiative, good judgment, and right attitude toward ones' fellows. To develop initiative pupils must be given opportunity to initiate; to cultivate good will requires active co-operation with others; to develop skill of any sort involves activity under proper guidance."

A better statement of the ideals and aims of the junior high school would be hard to find. It is these ideals and aims that our schools are successfully emphasizing.

One of the best known authorities on education in America asserts that the junior high school is the greatest contribution to American education in several generations. Somerville, therefore, has reason to be proud of the reputation for leadership its junior high schools have gained, extending far beyond local bounds.

#### Centralization.

One of the essential features of this type of school is the centralizing of pupils of the upper grades of several grammar schools into one school. The seventh and eighth grade children who under the former plan would have attended one of the fourteen grammar schools now go to one of the four junior high schools. Obviously this involves for some children the necessity of travelling an increased distance to school during those years. The increased distance during these two years is, however, offset, by the fact that inasmuch as the junior high school includes also the work of the first year of the high school, the number of years required to go the much greater distance to the senior high school is reduced by that one year. It should be remembered in this connection that the compactness of our city makes school distances small as compared with other communities.

The advantages of centralization are so important that the gain to the pupil in the way of educational opportunity far outweighs any individual inconvenience. Parents and teachers recognize the fact that the child on coming to the age of twelve or thirteen years requires a form of discipline and control quite different from that needed in the earlier years. He is capable of carrying a larger responsibility than before and the control under which he develops most is one of direction rather than of dictation. So difficult is it to have these two forms of control in the same school building that in the grammar school the latter form has usually prevailed. With the pupils of this age in a building by themselves and thus apart from the younger children, the former method of control can be employed. As good citizenship rests upon the knowledge of the difference between right and wrong and a deliberate choice to do the right, it is that that has determined the choice of the method of direction rather than of dictation as the method of our junior high schools. Visitors to these schools comment approvingly upon the evidences that the children are active, not passive; responsible, not dependent. In other words, school is not alone preparation for life, it becomes life itself.

The teachers of the first two years of these schools have been chosen from those who had had successful experience in the corresponding years of the grammar schools. The assembling in one building of the larger number of pupils of the same grade makes it possible to reduce very materially the number of subjects any instructor is called upon to teach. This affords an opportunity for the teacher to choose the subjects in which she is most proficient and in which she may become a specialist, assuring to the children the best possible instruction in all subjects.

Another economy effected by centralization is found in the avoidance of the necessity of duplication of the material aids to teaching, making possible a better use of the limited money available for the purchase of such material. This is particularly true in the field of manual training.

There has been for many years an increasing recognition of the fact that the school cannot limit itself to book work alone and that more provision must be made for the training of the hand as well. Years ago this demand was recognized in Somerville by the establishment of three manual training centers to which the boys were sent from the surrounding schools. To reach these centers many boys had to go long distances, spending considerable time in passing to and from these shops. In many cases this loss of school time resulted in serious interference with the other work of the school. At these centers woodworking alone was taught. In each of the four junior high schools instruction is now provided in woodworking of a more practical sort than formerly. In addition, two schools offer instruction in metal working, a third in bookbinding, and the fourth in printing. While the object of this shop work is not to fit directly for the trade, yet it is of large value in giving an opportunity to test abilities and aptitudes along lines of work that are common to a large variety of hand occupations. Already these shops have opened fields of efficient work to many boys for whose individual needs and abilities book work alone made no adequate provision. It cannot be gainsaid that he who goes out of these schools into something that he can do well goes out to be a more respected and self-respecting citizen. To provide these opportunities for self-testing in every grammar school would involve prohibitive expense.

For the girls sewing instruction was formerly provided in each school. Instruction in cooking, a most important aid in home-making, was admittedly impossible on account of the expense. Every girl in the junior high school now has lessons in cooking. By a skilful harmonizing of the educational and the economic aspects of the work, the cooking centers are now

entirely self-supporting, the sale of the product paying all maintenance costs except the salary of the teacher.

Again, the bringing together in one school of the larger number of pupils of the same grade makes possible a better grouping in classes according to ability. The former grammar school with only one or two classes of the same grade worked oftentimes a hardship upon the quicker and the slower pupil alike. The former was held down to a pace that often invited a waste of time, while the latter, finding himself unable to maintain the required pace, often resorted to truancy and soon dropped out of school altogether. This is amply proved by the fact that in the sixth and seventh grades occurred the crest of the wave of truancy and habitual absenteeism. Already the effect of the junior high school is being seen in its successful meeting of the needs of such pupils. Its privileges must be increasingly offered to the over-aged, discouraged pupils for whom the work of the lower grades has lost its attractiveness and, therefore, largely its value, and must provide a different type of instruction in a school made up of children of their own age-group. Just as life today demands workmen of a wide variety of occupations, so the school must constantly be broadening its field of instruction. This broadening does not mean at all the abandonment of adequate training in the fundamentals of knowledge; it means that such essential training will be provided under even better and more attractive conditions, thus benefiting many for whom such instruction alone has no adequate appeal.

#### Co-operation of Home and School.

A school can be most efficient only if it is supported by a live interest on the part of the three factors in its success, namely, parents, teachers, and pupils. From the outset, our junior high schools have been so supported. During the past year the Parent-Teachers' Associations connected with the Western and the Southern schools have been especially active and have held meetings frequently, attended in gratifyingly large numbers by the teachers and parents of the children. Strong educational speakers have discussed subjects pertinent to the best development of junior high schools. These meetings have done much to bring about a good understanding between the school and the home. The most recently formed association, the one at the Northern, has made an excellent beginning and is full of promise for good in that school.

The interest on the part of the teachers has been apparent in many ways, particularly in larger professional interest in their work. Many have followed courses of study that they might be more efficient in their teaching. Educational meet-



ings have been largely attended whether in the late afternoon or on Saturday. I wish to take this opportunity to express my most cordial appreciation of the fine professional spirit and interest displayed by the teachers of the junior high schools.

#### Evidences of Pupil-Interest.

That the pupils are interested is evidenced constantly. There is a marked tendency to more regular attendance. It is a matter of frequent occurrence for boys to ask to be allowed to work in the shops in the afternoon. Perhaps the most convincing evidence of interest on the part of the pupils will be found in the following facts. Investigation covering the period from 1912 through 1917 shows that of those pupils promoted to the high school from the several grammar schools from eighteen to twenty-five per cent failed to enter the high school. At the end of the second year of the junior high school organization the pupil passes from grammar school to high school work, this being therefore the point in his school life corresponding to graduation from the grammar school. At this time a pupil for whom the work of high school character had no appeal would be most likely to drop out. A careful investigation has been made to locate every one who was last June promoted to the third year of the junior high school to begin high school work in September. One per cent could not be found; four per cent went to work; three per cent moved away but were known to be in high schools; two per cent obtained transfer cards that would admit them to high schools elsewhere and presumably most of them are in high schools; the remaining ninety per cent entered the third year of our own junior high schools. It can therefore be asserted that one important expectation of the junior high school is already being realized in the longer retention of children in school, for this investigation shows that the loss to our schools at this point has been reduced one half. When the Forster Intermediate School was established in 1914 I predicted that this would be the result of a proper development of the new organization. At this time I wish to predict with the same confidence that the work done in the junior high schools will lead to a larger proportion of pupils entering and completing the course in the senior high school, an accomplishment most earnestly to be desired.

Interest is constantly being increased by the consistent effort on the part of the teachers in these schools to make the children consequential factors in the school. Responsibilities are given them increasingly, giving occasion for the initiative, co-operation, and activity referred to in the quotation from

SCHOOL LIFE previously given. One of the best examples of this is the system of physical training in vogue in the junior high schools. Chosen leaders, two boys and two girls from each two rooms in each school, meet bi-weekly with the instructors in physical training at the State Armory for instruction. The exercises in which they are there trained they afterward give to groups of pupils in daily periods in their own classrooms. After a time the best trained groups from the four schools, selected by competition within the schools, compete at the Armory. The keenest competition results from the endeavor to win but the good sportsmanlike manner in which the result is accepted by winners and losers alike, is excellent training for that attitude of mind that will in later life bring the most good out of success or disappointment.

#### Courses of Study.

It may fairly be said that organization problems of the junior high school have now been brought to the point where they do not demand as much attention as before. This leaves the way clear for greater focussing of interest upon the content of the courses of study in the several subjects. All energy may well be bent now to bring to all subjects of instruction the best content that co-operative thinking can give.

#### Study In School and At Home.

A problem that claims careful consideration is the matter of study, whether done in school or at home. It is beyond question that the school in the long class period now in vogue will go far in the way of training the pupils in right habits of study. The work of the school may be largely nullified, however, if the home on its part compels the child to study under conditions that are distracting. Parents may well be expected to see that the best possible conditions are created at home so that the pupil may get the most value out of the time he spends with his work there. Perhaps no question is a more vexing one than that of the amount and the nature of the work to be done at home. The best thought of both teachers and parents is invited with a view to reaching the right solution of the problem.

#### Recognition of Individual Differences.

One of the most important developments in education in the past few years is the provision in the program of studies for recognition of the fact of individual differences in the abilities, interests, and aptitudes of children. The three principal groups of studies provided to meet these variations are: com-

mercial, leading to employment in business; industrial, preparing for a manual occupation of some sort; and academic, looking toward professional life. The junior high school offers at the outset an opportunity for individual testing-out along all these general lines. The electives provided for this purpose are carefully explained to the pupils of the sixth grade, so that the choices seem to be, in the main, well made.

Four fifths of the time of the seventh and eighth grades is devoted to prescribed subjects. These are the standard studies of the grammar grades, as required by law or dictated by public demands. The remaining one fifth of the time is given to an elective, the pupil choosing one only of several studies representative of the three large groups named above. These are at present Latin, French, Spanish, principles of commercial work with typewriting, and special manual or household arts. Any pupil not wishing to take any of these electives may intensify the work in the prescribed studies. The number over the entire city choosing to do the latter is so small as to indicate conclusively that the patrons of the junior high schools approve and are glad to avail themselves of the opportunities afforded for the trying out of individual abilities by means of these electives. In order that varying needs may be met in still larger measure, it is desirable that these alternative opportunities should be increased in number. It should be apparent that while the electives serve the purpose of assisting the child to discover his bent, in every case the one so chosen re-enforces the instruction in some one or more of the prescribed studies.

In the seventh grade provision is made for changing from one elective to another when by so doing it is evident that the pupil's interests may be further advanced. This elective work constitutes so small a part of the whole work that his progress through the grades is not retarded by reason of such a change. These opportunities for self-discovery before reaching the years of the high school when the choice must of necessity be of more nearly final nature, is a large gain in the direction of effective education and in itself justifies the organization of the junior high school.

#### The Teacher Problem.

The large number of changes of teachers the past year or two has somewhat broken up the continuity of the instruction. The generous increase of salary recently provided by the School Committee with the co-operation of the Mayor and the Board of Aldermen, will without doubt result in stabilizing our corps of teachers and at the same time, when changes do occur, will make it possible for our schools to attract the best from many other communities.

### Leaving School.

If parents would confer with the teachers when a pupil begins to think of dropping out of school, the combined interest and efforts of parents and teachers would doubtless result in a decision to continue in school. Considering the importance of the issue and the anxiety of the school to serve best the interests of all the children, this does not seem too much to ask.

### Rapid Spread of the Junior High School.

Your annual report of 1915 to the School Committee, referring to the beginning of the junior high school work in Somerville, contains this statement, amounting to a prophecy; "It is pioneer work in a movement bound to continue."

It is therefore pertinent at this time to inquire as to the present situation in the light of this assertion.

In 1916 the system was adopted to cover the entire city. In that year the epidemic of infantile paralysis compelled the closing of the schools for over a month. The next school year the coal shortage caused a month's interruption of the work. The third year, beginning in September of 1918, was handicapped by the enforced closing for a month by reason of the epidemic of influenza. In addition three of the schools are now very seriously handicapped by lack of room. Certainly circumstances have been far from favorable for the successful carrying out of so important a departure from the established regime. It is therefore all the more striking confirmation of the wisdom of the adoption of the new system that the schools have met with the cordial approval of our own citizens and in addition have attracted favorable comment from far and near.

Three years ago in connection with a convention in Boston, a conference was held to consider junior high school problems. The subject at that time attracted only eleven men. A few weeks ago a similar meeting was held in Boston, which was attended by eighty. As an outcome of the vote of that meeting the State Board of Education is arranging a three days' conference of junior high school administrators to be held at one of the State Normal Schools next spring. One of the largest universities gave leave of absence for six months to one of its professors to investigate for the United States Bureau of Education the junior high schools of the country. His report shows our Somerville schools up in a most favorable light.

The growing importance of the junior high school is shown by the recognition given it by the several colleges and other schools that train teachers. For example, Harvard, Boston University, Tufts, Dartmouth, Columbia, and all the normal schools of Massachusetts offer courses specifically prepar-

ing teachers for work in junior high schools.

Last spring the Superintendent and the School Committee of one of the largest cities of our state visited our schools and shortly afterward adopted the system for their city. Visiting school officials have given us most gratifying endorsement that cannot fail to stimulate us to still greater effort. Letters of inquiry are constantly coming to us, a single day recently having brought such letters from three widely separated States. The system has now been officially approved for the entire State of New York and for three or four other states, which shows that we are moving in the approved direction of educational development.

A letter from one of the high schools in the city of New York, under date of Nov. 10, 1919, says: "It seems to me that the city of Somerville has worked out a solution of the Junior High School problem which is eminently satisfactory and which might well serve as a model for other cities. I only hope that the city of New York may find a means of meeting its own needs in as satisfactory a manner."

#### The Future.

Gratifying as these endorsements are, it is farthest from our thought to rest contented with present accomplishments. In order that even better results may be accomplished in these schools, we most cordially welcome constructive suggestion and invite the continued earnest co-operation of all who are interested to assist us in realizing the purpose for which these schools were established, namely, the providing of a better preparation for useful living.

Very truly yours,

JOSEPH A. EWART,

*Assistant Superintendent of Schools.*

January, 1920.

#### REPORT OF VOCATIONAL SCHOOL FOR BOYS.

Mr. Charles S. Clark,  
Supt. of Schools,  
Somerville, Mass.

Dear Sir:

I submit the following report for the Boys' Vocational School and for the Department of Manual Arts for the year 1919.

The drawing of the sixth grades of the elementary schools continues as in the past with the teaching done by the room

teachers under direct supervision. Although considerable work has been completed for the Red Cross and occasional demands in the future will be met by this department of drawing, in the main, the schools are now adjusting themselves to follow the outline of the work of the regular schedule.

The whittling of the sixth grade boys has been intensified by combining with drawing the former sixth and seventh grade projects, thereby increasing to a moderate extent the boys' ability to handle the more difficult work. At the same time this combination of drawing and whittling projects approaches more nearly the work of the junior high grade. The sixth grade teachers have recently finished a ten weeks' course in black-board sketching which was planned to equip them for better presentation of the grade whittling and free hand drawing. Much of the original work in knife work has made its appearance in some schools.

The four junior high schools are now running smoothly with fairly well equipped shops. With the installation of machines the equipment will be complete. However, the shops will be inadequate to accommodate the increasing number of pupils. Already over time work is being done in the afternoons. Therefore, I recommend an additional room in each centre in the near future.

The free hand drawing is now in charge of a special teacher in each school, but in order to enable the work to be carried on efficiently as in the senior high school, a special room with adequate equipment is urgently needed.

The drawing and manual training in the senior high school remains unchanged. Although in a large way the first year woodwork is now done in the junior high schools, there remains a considerable group of boys taking first year shop work. These boys come from the parochial schools, from out of the city, and from the upper classes, pupils electing woodwork and drawing for the first time. These mixed groups are difficult to handle, but considering the wide range of the pupils' ability, these classes are conducted in as capable a way as possible. The rooms and equipment seem to be adequate for some time to come.

The enrollment of the Boys' Vocational School is the largest in its history. The addition of the automobile department meets completely the predicted needs of this branch of industry. Considerable equipment has been furnished in this department during the year but further equipment is needed to carry on the necessary work of construction. Additional equipment is greatly needed in the machine department and requests for machines have been made to the War Department and the Federal Board of Vocational Education. At this

date the prospect of receiving assistance from these agencies looks promising. To meet the new conditions arising from the establishment of the junior high schools which has increased the number of sixth grade applicants, I strongly recommend that the boys be required to remain in school four years before graduating. It is very evident that these boys, in many cases, of a demoted group, are unable in three years to satisfactorily complete the necessary work to enable them to acceptably fill positions in the industry for which they trained. Our three year course now in operation allows little enough time to meet present industrial requirements, even with a normal boy of regular promotion grade. To make our school still more efficient, I recommend that a department of printing be added this year as conditions in the trade warrant the introduction of this course. This will also give an opportunity for boys now taking printing in the junior high schools to continue the work as a means of livelihood.

The following are statistics relative to the school:

Year	No. of Graduates	Placed in Industry	Average Entering Wage	Total Productivity of Shops
1916	16	15	\$11 00	\$1,105 14
1917	18	17	12 00	3,215 33
1918	15	15	14 50	5,345 98
1919	9	8	15 00	4,928 88

Respectfully yours,

HARRY L. JONES.

December 31, 1919.

#### REPORT OF GARDEN SUPERVISOR FOR 1919.

Mr. Charles S. Clark,  
Superintendent of Schools.

Dear Sir:

I herewith submit my report as agricultural teacher and garden supervisor for the season of 1919.

The line of work carried on by myself during the past season embraced the following activities: conducting and supervising of school gardens, instruction and advice to backyard gardeners, the organizing and conducting of canning clubs, the forming and carrying on of poultry clubs, and co-

operating with the Middlesex Country Farm Bureau in all of their forms of agricultural activities, including the forming of Home Economics Clubs in the junior high schools.

#### Gardening.

School gardens were carried on by seventeen different schools in the city on areas of land belonging to the city and donated by private individuals for this purpose. The total acreage was about nine and a half acres. The children in the different schools were organized into garden clubs with a president, secretary, and treasurer. Meetings were held during February and March at which instructions were given regarding the work and the methods to be pursued in the carrying on of their gardens during the gardening season. Three hundred seventy four children were organized into seventeen different clubs; these clubs were held intact during the entire season and in the fall exhibits and reports were made by the children individually and as clubs. In connection with this work an attempt was made to correlate garden activities with arithmetic, spelling, and bookkeeping by placing a school garden record book in the hands of each child and making one of the requirements the keeping of accurate records in this book. About twenty-two hundred fifty children signed cards and were enrolled as members of the United States School Garden Army and carried on some form of gardening either in their own back yards or neighboring vacant lots. Advice and instruction were given to these children by the garden supervisor whenever requests were made.

Perhaps some idea of the results obtained from the garden work may be gained by a study of the garden record books. The value of the products raised and either sold or used in the home amounted to \$7,779.95. All but eleven of the three hundred seventy-four gardens were properly cared for and successfully carried on to the end of the season. The appearance of the gardens at all times was a credit to the children and those responsible for this line of work.

First prize was awarded the children for their exhibit of garden products at the New England States Fair at Worcester early in September. The officers and directors of the Middlesex County Farm Bureau paid this city several visits during the season and brought with them instructors and people interested in garden work who were much pleased with the results obtained and the methods pursued.

#### Canning Clubs.

Canning clubs were conducted in connection with garden work. Most of the eighty members of six canning clubs had



a school garden so that a large part of the vegetables canned were picked fresh and this in a large degree was responsible for the excellent results obtained. Canning operations were carried on in the cooking room of the high school and the western junior high school. Two young ladies were employed three days a week to supervise and help the children. A total of about sixteen hundred quart jars was canned, and at the exhibit held this fall banners were awarded to four of the clubs which signified that every member of that club had completed all requirements of the state department of agriculture and exhibited products worthy of a rating of ninety per cent. or better.

#### Poultry Clubs.

A new kind of activity in the form of poultry clubs was attempted this fall. The state department of agriculture sent out bulletins stating that they were to carry on junior egg-laying poultry clubs for one year beginning November first. Any child between the ages of ten and fifteen who owned or cared for five or more hens would be considered eligible for enrollment in a poultry club. This statement was placed in the hands of school principals in the elementary schools of the city and more than four hundred children applied for membership in a poultry club. It was necessary to make rather strict rules and by a process of elimination five poultry clubs were actually formed with a membership of sixty-five children. They have agreed to carry on this work for a year's time, keeping accurate account of all expenses entailed and number of eggs laid, money received for same, etc. At the end of the year we hope to have some interesting and instructive data on this subject. These children meet once a month, have elected their own officers and the garden supervisor meets with them and plans to have some interesting speaker from the department of agriculture attend their meetings occasionally and talk to the children along poultry lines.

Home Economics Clubs have been formed in the Southern and Northern junior high schools. These clubs are carried on with work outlined by the state, which provides a supervisor who comes to Somerville and attends their club meetings and helps the children with their work.

Two public exhibits were held this fall, one at the Cutler school and the other at the Southern Junior High School. Both of these exhibits were well attended by the public as well as the school children. The quality and quantity produced and canned material exhibited at both exhibitions were highly creditable to those participating. The judges, who were furnished by the state, were much surprised and pleased that a

city with so little chance for gardening work should make such a good showing.

During the season pictures were taken of the children at work in their gardens and from these pictures lantern slides have been made and were shown for the first time at both exhibits.

In closing, permit me to express my appreciation to all those interested in this branch of school work. If it had not been for the hearty co-operation of principals and teachers as well as the children themselves, the results obtained would not have been possible.

Very truly yours,

WILLIAM B. MOORE,

*Garden Supervisor.*

REPORT OF PUPILS ENTERING HARVARD UNIVERSITY FROM  
SOMERVILLE HIGH SCHOOL

1912-1919.

*Entered Sept., 1913.*

- No. 1, Graduated 1916, cum laude, received 4 scholarships.
- No. 2, Graduated 1916, cum laude, received 3 scholarships.
- No. 3, Graduated 1916, cum laude.
- No. 4, Left to join Co. B, 301st Infantry, 2nd. Lt.
- No. 5, Graduated 1916.

*Entered Sept., 1913.*

- No. 1, Graduated 1917, received 1 scholarship.
- No. 2, Graduated 1917, cum laude, received 2 scholarships.
- No. 3, Graduated 1916, cum laude, received 2 scholarships.
- No. 4, Graduated 1917, cum laude, received 1 scholarship.
- No. 5, Graduated 1916, received 1 scholarship.
- No. 6, Graduated 1917.

*Entered Sept., 1914.*

- No. 1, Graduated 1918, cum laude, received 3 scholarships.
- No. 2, Graduated 1918, entered Naval Reserve May, 1918.
- No. 3, Graduated 1919, (war degree) entered Government service Mar., 1918.
- No. 4, Graduated 1918, received 1 scholarship.
- No. 5, Graduated 1918, received 1 scholarship.
- No. 6, Graduated 1918, cum laude.
- No. 7, Graduated 1918.
- No. 8, Graduated 1918, (war degree).

*Entered Sept., 1915.*

- No. 1, Graduated 1918, (war degree), received 3 scholarships,  
Naval Ensign.  
No. 2, Graduated 1918, (war degree), 2nd. Lt.  
No. 3, Graduated 1918, (war degree).

*Entered Sept., 1916.*

- No. 1, Withdrew Feb., 1919, ill health.  
No. 2, Withdrew Sept., 1917, ill health, received 1 scholarship.  
No. 3, Still in college, received 4 scholarships, elected Phi  
Beta Kappa, Jan., '19.  
No. 4, Still in college, received 4 scholarships, elected Phi  
Beta Kappa, Jan., '19.  
No. 5, Still in college, received 1 scholarship.  
No. 6, Still in college.

*Entered Sept., 1917.*

- No. 1, Left at end of first year.  
No. 2, Left at end of first year.  
No. 3, Still in college.  
No. 4, Left at end of first year.

*Entered Sept., 1918.*

- No. 1, Still in college.  
No. 2, Still in college, received 1 scholarship.

*Entered Sept., 1919.*

- No. 1, Still in college, received 1 scholarship.  
No. 2, Still in college.

**Summary of Eight Years' Record.**

1. Number entered, 36.
2. Number graduated, 21.
3. Number graduated, cum laude, 8.
4. Number receiving scholarships, 17.
5. Number scholarships received, 34.
6. Number elected to Phi Beta Kappa, 2.
7. Number still in college, 9.
8. Number withdrawn, ill health, 2.

## PUPILS LEAVING HIGH SCHOOL SEPT., 1918, TO MAR. 12, 1919.

	I Yr.	II Yr.	III Yr.	IV Yr.	Total
To go to work .....	17	17	4	0	38
Moved out of town .....	10	10	6	5	31
Poor Work .....	4	3	1	0	8
Truancy .....	3	0	0	0	3
No reason given .....	28	18	14	5	65
Poor deportment .....	2	0	1	0	3
Financial reasons .....	1	2	0	0	3
Ill health .....	0	3	2	2	7
Married .....	0	0	1	0	1
Died .....	0	0	3	2	5

## SOMERVILLE HIGH SCHOOL.

Distribution of Pupils by Courses  
1918-1919.

	Preparatory		Commercial		General		Total
Class of 1919	146	44.9%	125	38.4%	54	16.7%	325
“ “ 1920	144	48.7	119	40.2	33	11.1	296
“ “ 1921	209	40.9	256	50.0	47	8.1	512
“ “ 1922	251	41.1	336	55.0	24	3.9	611
School .....	750	43%	836	47.9%	158	9.1%	1744

NUMBER OF PUPILS BY SUBJECTS,  
1919-1920.

English .....	1691
History .....	813
Latin .....	420
French .....	851
German .....	28
Spanish .....	300
Greek .....	18
Mathematics .....	763
Chemistry .....	270
Physics .....	81
Physiology .....	203
Biology .....	60
Astronomy and Geology .....	11
Elocution .....	278
Stenography .....	653
Typewriting .....	670
Bookkeeping .....	318
Penmanship .....	744
Business Arithmetic .....	37
Salesmanship .....	48
Commerce and Industry .....	531
Commercial Law .....	19
Manual Training .....	192
Mechanical Drawing .....	298
Freehand Drawing .....	125
Cooking .....	61
Sewing .....	107
Arts and Crafts .....	16

## HONOR PUPILS.

## By Years and Quarters.

## 1918-1919.

Quarters	I	II	III	IV
IV Yr. Class . . . .	330	321	304	301
Honor pupils . . . .	28	44	39	35
Per Cent . . . . .	8.5	13.7	12.8	11.6
III Yr. Class . . . .	295	288	277	260
Honor Pupils . . . .	15	25	31	30
Per Cent . . . . .	5.8	8.7	11.2	11.5
II Yr. Class . . . . .	510	496	480	452
Honor Pupils . . . .	29	42	44	43
Per Cent . . . . .	5.7	8.3	9.2	9.5
I Yr. Class . . . . .	608	594	582	561
Honor Pupils . . . .	53	57	67	68
Per Cent . . . . .	8.7	9.6	11.5	12.1

## 1917-1918.

Quarters	I	II	III	IV
IV Yr. Class . . . .	287	281	306	300
No. Credit . . . . .	30	39	54	58
Per Cent . . . . .	14.5	13.9	17.6	19.3
III Yr. Class . . . .	364	344	361	339
No. Credit . . . . .	29	41	46	34
Per Cent . . . . .	8	11.9	12.7	10
II Yr. Class . . . . .	555	531	405	374
No. Credit . . . . .	38	73	48	59
Per Cent . . . . .	6.8	13.7	11.9	15.6
I Yr. Class . . . . .	218	210	207	185
No. Credit . . . . .	21	23	24	52
Per Cent . . . . .	9.6	10.5	11.6	28.9

## 1916-1917.

Quarters	I	II	III	IV
IV Yr. Class . . . .	322	316	339	328
No. Credit . . . . .		46	45	13
Per Cent . . . . .		14.6	13.3	4
III Yr. Class . . . .	398	387	388	368
No. Credit . . . . .		43	33	46
Per Cent . . . . .		11.1	8.5	12.5
II Yr. Class . . . . .	518	507	538	493
No. Credit . . . . .		67	69	69
Per Cent . . . . .		13.2	12.8	14
I Yr. Class . . . . .	537	520	423	389
No. Credit . . . . .		55	51	86
Per Cent . . . . .		10.6	12.1	22.1

## 1915-1916.

Quarters	I	II	III	IV
IV Yr. Class . . . . .	351	351	363	358
No. Credit . . . . .	35	41	44	17
Per Cent . . . . .	14.5	11.7	12.1	4.8
III Yr. Class . . . . .	384	379	395	381
No. Credit . . . . .	46	54	46	58
Per Cent . . . . .	12	14.2	11.6	15.2
II Yr. Class . . . . .	522	515	543	515
No. Credit . . . . .	48	70	60	61
Per Cent . . . . .	9.2	13.6	11	11.8
I Yr. Class . . . . .	721	711	754	730
No. Credit . . . . .	58	85	90	82
Per cent . . . . .	8	12	11.9	11.2

**REPORT OF PUPILS ENTERING HIGHER INSTITUTIONS FROM  
SOMERVILLE HIGH SCHOOL  
BETWEEN THE YEARS 1912 AND 1919.**

	Number Entered	Graduated	Graduated with Honor	*Rec'd Scholarships	No. of Scholarships Received	Elected to Phi Beta Kappa	Still in College
Boston University . . . . .	27	10	2	2	2	2	11
Harvard . . . . .	36	21	8	17	34	2	9
Jackson . . . . .	43	9	8	....	....	....	24
Mt. Holyoke . . . . .	8	3	....	1	....	....	1
Radcliffe . . . . .	27	15	1	9	14	....	8
Simmons . . . . .	31	17	....	....	....	....	12
Smith . . . . .	7	3	2	....	....	1	3
State Normal Schools . . . . .	99	62	....	....	....	....	24
Tufts . . . . .	97	23	3	....	....	....	46
Wellesley . . . . .	15	7	....	3	4	....	2
Wheaton . . . . .	6	....	....	....	....	....	6
Total . . . . .	396	170	24	*32	54	5	146

This report does not include Dartmouth, Massachusetts Institute of Technology, and others, from which no report has as yet been received.

\* These scholarships indicate superior achievement. No mention is made of scholarships received in institutions where the financial need of the student rather than excellence of rank is the basis of award.

## SOMERVILLE TEACHERS' ASSOCIATION.

1919.

President, Charles A. Kirkpatrick.  
 Vice-Presidents,                    ) Irving P. Colman.  
   ) James S. Thistle.  
 Secretary-Treasurer, Anna J. Coll.  
 Executive Committee:—  
                                   Charles S. Clark, ex-officio.

Annie C. Woodward, High.	Mary E. Richardson, Edgerly.
Edith L. Laycock, E. Junior.	Alice C. Blodgett, Glines.
Katherine E. Read, S. Junior.	Grace Shorey, Forster.
May A. Daly, N. Junior.	Ethel Gross, Bingham.
Ralph E. Farnsworth, W. Junior.	Hazel N. Friend, Carr.
Harry L. Jones, Boys' Vocational.	Mary A. Whitney, Morse.
Lucy Dorr, Girls' Vocational.	Abigail P. Hazelton, Durell.
Jeannette M. Hannabell, Prescott.	Ruth E. Andrews, Burns.
Maude A. Nichols, Hanscom.	Lucia Alger, Proctor.
M. Regina Desmond, Bennett.	Annie Sanburn, Brown.
Etta R. Holden, Baxter.	Marion Allen, Highland.
Eleanor M. Lundgren, Knapp.	Clara G. Hegan, Lowe.
Mary A. Mullin, Perry.	Mrs. Mabel T. Totman, Cutler.
Mrs. Stella M. Hadley, Cummings.	Eliza H. Lunt, Lincoln.
C. Edith Taylor, Pope.	

The meetings held under the auspices of this association in the year 1919 were as follows:—

- January 29 — Peace Social and Sing — Conducted by Mr. Frank W. Seabury, Master, Highland School.
- February 5 — Address by Rev. William Harman Van Allen. Subject: "Liberty, Bolshevik or American?"
- February 19 — Social and Sing — Conducted by Mr. James P. McVey, Supervisor of Music.
- February 26 — Address by Captain H. D. Cormerais. Subject: "The Exploits of the 26th Division, A. E. F."
- April 8 — Illustrated lecture by Dr. Donald B. MacMillan. Subject: "Four Years in the Great White North."
- October 23 — Address by Mr. Frank W. Wright, Deputy Commissioner of the State Board of Education. Subject: "Teachers of the Times."

## SOMERVILLE TEACHERS' CLUB.

Officers, 1919-1920.

President, Annie C. Woodward.

Vice-Presidents,                    } Mary L. Bryant.  
  } Clara G. Hegan.

Recording Secretary, Clara B. Sackett.

Corresponding Secretary, Gladys L. Swallow.

Treasurer, Elizabeth J. Mooney.

Auditor, 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 14 — First of a series of musicals by the Philharmonic Trio: Frank McDonald, Violin; Louis Dalbeck, 'Cello; Fred Tillotsen, Piano.

February 11 — Piano Recital by James Ecker, assisted by Helen Choate, Soprano.

March 11 — Reception to Superintendent and Mrs. Clark and His Honor, the Mayor, and Mrs. Eldridge, followed by a Concert by the Ladies' Philharmonic Orchestra, assisted by Hazel Clark, Violin soloist, and Helen Choate, Soprano.

April 1 — Address by Isabella MacLean — "The Immigrant Woman." Miss Joslin of the Department of University Extension of the Board of Education spoke on "The Work the Department is Willing to do for Teachers."

October 14 — Musicales. Soprano, Margaret Miller Henry; Violinist, Lucy Dennett; Pianist, Nina del Castillo.

November 18 — Lecture Recital on the "Attributes of Music as an Art," presented by Elbridge W. Newton, of Somerville, illustrated on the piano by Helen Leavitt. Mary McSkimmon, President of the Massachusetts Teachers' Federation, addressed the club on "The Future Plans of this Federation." High School orchestra furnished the music for dancing.

December 17 — Christmas Party, Solos, fancy dancing, carol singing, and a Christmas Tree, followed by refreshments and dancing.



## HIGH SCHOOL ATHLETIC ASSOCIATION.

Report of Treasurer, January 1, 1920.

Receipts:			
Balance on hand January 1, 1919 . . . . .		\$657 10	
Baseball games . . . . .		517 75	
Football games . . . . .		8,581 66	
Membership . . . . .		218 75	
		<hr/>	\$9,975 26
Disbursements:—			
Supplies . . . . .		\$1,987 15	
Coaching . . . . .		950 00	
Telephone . . . . .		10 75	
Manager's expenses, Student . . . . .		3 45	
Travelling expenses . . . . .		79 00	
Guarantees to Teams . . . . .		2,981 19	
Postage . . . . .		2 40	
Miscellaneous . . . . .		11 18	
Dues, Suburban League and Mass. High School League . . . . .		7 00	
Printing . . . . .		191 00	
Medical attendance and supplies, 1918-19		249 00	
Treasurer's salary 1918-19 . . . . .		400 00	
Music, Band for Everett-Somerville game		84 00	
Police . . . . .		310 00	
Officials . . . . .		231 00	
Advertising . . . . .		28 19	
Car fare, Hotel, Meals, etc., for six persons to Toledo, Ohio, and return . . . . .		473 83	
Balance in Bank January 1, 1920 . . . . .		1,976 12	
		<hr/>	\$9,975 26

## NOTE:—

Amount due Mr. O'Donnell for coaching . . . . .	\$1,150 00
Leaving a balance, after bill is paid, . . . . .	\$826 12

Respectfully submitted,

J. L. HAYWARD,

*Sec'y-Treasurer.*

STATEMENT OF WORK OF SCHOOL DENTAL DISPENSARY.  
For the School Year Ending June, 1919.

MONTH.	No. Children Treated.	No. First Appointment	No. Reappointments.	Teeth Extracted.	No. of Teeth Filled.	No. Cleansings.	No. Having Brush.	No. not Having Brush.	Amount Collected.	Incidental Expenses.	Novocain.	Treatments.	Examinations
September .....	6	5	1	2	.....	1	6	.....	\$.55	.....	.....	4	.....
October .....	40	36	4	19	.....	4	32	8	4.33	\$1.58	11	19	2
November .....	98	81	17	79	5	9	80	18	12.28	6.61	43	16	5
December .....	91	71	20	35	26	8	74	17	9.25	2.91	48	9	10
January .....	118	82	36	48	25	8	99	19	12.66	5.35	60	15	10
February .....	70	55	15	31	10	3	59	11	7.40	3.66	35	7	5
March .....	158	113	45	73	30	14	135	23	20.89	6.45	80	9	4
April .....	110	79	31	32	44	4	94	16	12.70	6.16	64	13	7
May .....	166	112	54	70	52	15	142	24	15.89	5.83	69	21	1
June .....	124	74	50	49	49	21	110	14	19.55	5.00	43	10	2
Total .....	981	708	273	438	241	87	831	150	\$115.50	\$43.55	453	123	46

COMPARATIVE FINANCIAL STATEMENT.

	1916-1917	1917-1918	1918-1919
Receipts:—			
Cash on hand September 1.....		\$39.51	\$46.68
From fees.....	\$54.36	106.45	115.50
From sale of tooth brushes and powder.....	24.96	—	—
Expenditures:—			
For supplies.....	\$184.59	\$99.28	\$111.62
Cash on hand June 30.....	39.51	46.68	50.56
	\$224.10	\$224.10	\$145.96
			\$162.18
			\$162.18





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IN MEMORY OF CARA M. JOHNSON,  
a teacher in the Highland School,  
WHO DIED DECEMBER 21, 1919.

After a faithful service of twenty-two years in the public schools of  
Somerville.

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## 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, 1919, by school census .....	15,167

## 2.—SCHOOL BUILDINGS.

Number of school buildings in June .....	30
Number of classrooms in use in June .....	388
Valuation of school property .....	\$2,164,600

## 3.—TEACHERS.

	*1918	*1919	Change
In high schools .....	70	69	—1
In junior high schools.....	108	106	—2
In elementary schools .....	204	206	+2
In kindergartens .....	8	8	0
Total in elementary schools .....	212	214	+2
Vocational school for boys .....	6	6	0
Vocational school for girls .....	7	6	—1
Atypical classes .....	3	3	0
Cadet teachers .....	2	2	0
Special .....	10	11	+1
Total .....	418	417	—1

## 4.—ATTENDANCE FOR YEAR.

	*1918	*1919	Change
Entire enrollment for the year.....	14,256	14,039	—217
Average number belonging .....	12,656	12,733	+77
Average number attending .....	11,798	11,609	—189
Per cent. of daily attendance.....	93.2	91.2	—2.0
High school graduates .....	322	310	—22
Junior High school graduates .....	374	596	+222
Grammar school graduates .....	207	....	....

## 5.—COST OF SCHOOL MAINTENANCE.

	*1918	*1919	Change
Salaries of teachers .....	\$401,457 29	\$426,587 31	+\$25,130 02
Salaries of officers .....	9,131 26	11,142 89	+2,011 63
Cost of books and supplies .....	33,587 26	33,225 26	—362 00
Cost of light .....	6,966 05	8,820 72	+1,854 67
Cost of janitors' services .	42,081 71	55,709 67	+13,627 96
Cost of fuel .....	35,839 20	22,959 73	—12,879 47
Rent of Armory .....	.....	882 50	+882 50
Total cost of day and evening schools .....	529,062 77	559,328 08	+30,265 31
Per capita cost .....	39 42	43 93	+4 51
Cost of high school instruction .....	84,738 45	87,112 01	+2,373 56
Per capita cost .....	64 64	51 73	—12 91

\*School year.

6.—MISCELLANEOUS.

	*1918	*1919	Change
Paid for new school build- ings .....	\$100,177 02	\$104,066 80	+\$3,889 78
Repairs and permanent im- provements .....	30,125 56	20,491 59	—9,633 97
Total school expenditures..	659,365 35	683,886 47	+24,521 12
Number of dollars spent to maintain schools out of every \$1,000 of valua- tion .....	6 25	6 43	+0 18
Valuation of city .....	84,639,280 00	87,353,424 00	+2,714,144 00
Number of dollars spent for all school purposes out of every \$1,000 of valua- tion .....	7 79	7 82	+0 03

\*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, 1919, is \$559,328.08.

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

The amount paid for janitors is.....	\$55,709 67
The cost of fuel is .....	22,959 73
The cost of light is .....	8,820 72
Rental of Armory .....	882 50

A total cost of ....	\$88,372 62
The cost per capita .....	6 94
Cost of repairs .....	\$20,491 59

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 .....	\$11,142.89				
Office Expenses .....	2,598.10				
Textbooks.....	8,488.14	\$3,068.11	\$5,406.56	\$2.04	\$11.43
Stationery and Supplies and Other Expenses of Instruction	18,750.48	8,839.48	9,741.80	140.13	29.07
Miscellaneous (Tuition, etc.)...	3,388.54	1,165.98	2,130.18	72.11	20.27
Total .....	\$44,368.15	\$13,073.57	\$17,278.54	\$214.28	\$60.77



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 .....	\$6,590.25	\$1,417.00	\$5,173.25	.....	.....
Principals .....	34,927.25	10,301.11	23,529.14	\$467.00	\$630.00
Teachers .....	385,069.81	122,440.80	257,003.01	4,171.00	1,455.00
Total .....	\$426,587.31	\$134,158.91	\$285,705.40	\$4,638.00	\$2,085.00

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, 1919, is as follows:—

Care .....	\$88,372 62
Contingent .....	44,368 15
Salaries .....	426,587 31
Total for school maintenance .....	\$559,328 08
Paid for repairs .....	20,491 59
Paid for new buildings .....	104,066 80
Total for all school purposes .....	\$683,886 47

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

	1914	1915	1916	1917	1918	1919
Janitors' salaries .....	\$0.079	\$0.074	\$0.077	\$0.076	\$0.079	\$0.097
Heat and light .....	0.060	0.054	0.059	0.066	0.081	0.057
Administration .....	0.018	0.017	0.017	0.018	0.017	0.017
School supplies .....	0.065	0.067	0.058	0.062	0.064	0.067
Teachers' salaries .....	0.778	0.788	0.789	0.778	0.759	0.762
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 1918 AND 1919.

	High Schools.			Grammar and Primary Schools.			All Day Schools.		
	1918.	1919.	Change	1918.	1919.	Change	1918.	1919.	Change
Instruction.....	\$65.79	\$52.59	-\$13.20	\$25.16	\$26.35	+\$1.19	\$30.78	\$32.75	+\$1.97
Supplies.....	7.74	5.21	-2.53	1.39	1.41	+0.02	2.48	2.52	+0.04
Care.....	11.27	9.67	-1.60	6.02	5.63	-0.39	6.34	6.58	+0.24
Total.....	\$84.80	\$67.47	-\$17.33	\$32.57	\$33.39	+\$0.82	\$39.60	\$41.85	+\$2.25

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

	1915	1916	1917	1918	1919
Cost of Instruction .....	\$24 90	\$26 25	\$26 72	\$29 58	\$31 82
Cost of Supplies .....	2 03	1 88	2 05	2 40	2 45
Cost of Care .....	3 92	4 41	4 61	6 09	6 43
Total .....	\$30 85	\$32 54	\$33 38	\$38 07	\$40 70

An examination of these tables shows that we have paid \$13.20 less for the instruction of each pupil in the High School than in 1918, and \$2.53 less per pupil for supplies.

The grammar and primary schools have cost \$1.19 more per pupil for instruction, and two cents more for supplies.

The amount spent for the school year 1919 was \$6.43, or 18 cents more than was spent in 1918. The amount yielded for each child in the average membership of the schools for 1919, not including the vocational schools, was \$40.70.

## Teachers' Salaries.

The salaries paid to teachers in January, 1920, are as follows:

1 man .....	\$4,100	1 man, 4 women .....	\$1,650
1 man .....	3,500	1 man, 23 women .....	1,600
1 man .....	2,850	1 man, 17 women .....	1,550
11 men, 1 woman, .....	2,700	1 woman .....	1,525
3 men .....	2,600	9 women .....	1,500
2 men .....	2,500	200 women .....	1,450
1 woman .....	2,400	1 man, 19 women .....	1,400
6 men, 1 woman, .....	2,300	14 women .....	1,350
2 men .....	2,200	17 women .....	1,300
5 men .....	2,100	4 women .....	1,275
6 men .....	2,000	5 women .....	1,250
2 women .....	1,950	16 women .....	1,200
7 men, 2 women .....	1,900	2 women .....	1,150
2 men .....	1,850	3 women .....	1,100
4 women .....	1,800	1 man (part time) .....	1,050
1 woman .....	1,750	1 woman .....	1,000
5 women .....	1,700		

Temporary teachers and cadets or apprentice teachers are not included in the list given above.

## SIGHT AND HEARING.

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

## Eyes.

	1919	1918	Change
Tested .....	11,840	11,473	367+
Defective .....	1,516	1,557	41—
Per cent. defective.....	12.8%	13.6%	0.8%—
Notices sent to parents .....	1,084	950	
Professionally treated .....	202	153	

## Ears.

	1919	1918	Change
Tested .....	12,681	12,591	91+
Defective .....	219	182	37+
Per cent. defective .....	1.72%	1.4%	0.3%+
Notices sent to parents .....	149	101	
Professionally treated .....	27	13	

Table 1. — Schoolhouses, January, 1920.

NAME	No. of Classrooms	No. of Sittings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
High School } West	74	1,786	*	Brick	Steam	Fan	\$390,000	1895	8 rooms added 1906
} East			.....	Brick	Steam	Fan		1871	30 rooms added 1913
Prescott } .....	13	487	.....	Brick	Steam	Fan		1867	
Southworth } .....	11	356	49,310	Brick	Steam	Fan	139,200	1916	
Knapp .....	13	622	24,517	Brick	Steam	Gravity	55,500	1889	4 rooms added 1894
Pope .....	12	578	27,236	Brick	Steam	Gravity	83,600	1891	
Bell .....	24	797	29,860	Brick	Steam	Fan	138,900	1874	13 rooms added 1918
Edgerly .....	12	573	24,000	Brick	Steam	Gravity	48,000	1871	{ 4 rooms added 1882 4 rooms added 1892
Glines .....	14	628	28,800	Brick	Steam	Gravity	93,400	1891	5 rooms added 1896
Forster } .....	13	576	30,632	Brick	Steam	Gravity	104,000	1866	
Folsom } .....	13	293	.....	Brick	Steam	Gravity		1899	
Bingham .....	16	773	35,586	Brick	Steam	Gravity	78,000	1886	{ 4 rooms added 1894 8 rooms added 1904
Carr .....	17	745	20,450	Brick	Steam	Gravity	58,600	1898	
Morse .....	12	473	29,000	Brick	Furnace	Furnace	59,000	1869	6 rooms added 1890
Highland .....	12	524	23,260	Brick	Steam	Gravity	71,600	1880	4 rooms added 1891
Carried forward.....	256	9,211	.....	.....	.....	.....	\$1,319,800	.....	.....

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

†Includes home rooms, laboratories, shops, assembly rooms, dental dispensary, etc.

Table 1.— (Concluded). — Schoolhouses, January, 1920.

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.....	256	9,211	.....	.....	.....	.....	\$1,319,800	.....	
Hodgkins .....	14	568	35,034	Brick	Steam	Gravity	103,700	1896	
Western .....	17	577 †	.....	Brick	Steam	Fan	84,000	1917	
Cutler .....	18	783	53,729	Brick	Steam	Fan	108,700	1912	6 rooms added 1915
Bennett .....	12	436	21,964	Brick	Steam	Gravity	58,000	1902	
Hanscom.....	10	487	16,767	Brick	Steam	Fan	70,500	1897	+ rooms added 1907
Brown .....	10	487	26,733	Brick	Steam	Gravity	74,600	1901	+ rooms added 1907
Proctor.....	9	343 *	.....	Brick	Steam	Gravity	44,000	1905	
Burns .....	8	387	16,080	Brick	Steam	Gravity	42,000	1886	+ rooms added 1899
Lowe.....	8	386	21,650	Brick	Steam	Gravity	53,000	1903	
Baxter .....	6	290	11,000	Brick	Steam	Gravity	37,000	1901	
Perry .....	6	298	46,080	Brick	Steam	Gravity	43,500	1899	
Girls' Vocational .....	7	60	8,850	Wood	Furnace	Furnace	9,000	1911	{ Machine shop added 1917 Automobile shop added 1918
Boys' Vocational .....	8	50	30,155	Wood	Furnace	Furnace	59,500	1884	
Cummings .....	4	196	11,300	Wood	Furnace	Furnace	14,600	1884	
Durell .....	4	190	13,883	Brick	Steam	Gravity	21,900	1894	
Lincoln .....	4	175	17,662	Wood	Steam	Gravity	20,800	1885	
Total.....	401	14,924	.....	.....	.....	.....	\$2,164,600	.....	

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

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1918-19.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total
	Instruction and Supervision.	Supplies.	Care.	
High .....	\$88,568.50	\$8,777.19	\$16,276.22	\$113,621.91
Eastern Jr. ....	21,897.41	1,948.60	3,201.46	27,047.47
Southern Jr. ....	26,770.57	5,080.92	3,856.65	35,708.14
Northern Jr. ....	23,363.88	2,027.72	4,184.93	29,576.53
Western Jr. ....	33,572.72	2,295.37	8,657.99	44,526.08
Prescott .....	4,528.36	399.24	1,117.92	6,045.52
Hanscom .....	11,298.69	451.04	1,963.27	13,713.00
Bennett .....	11,178.19	744.23	2,967.04	14,889.46
Baxter .....	6,638.73	247.38	1,487.24	8,373.35
Knapp .....	7,441.56	425.60	2,054.30	9,921.46
Perry .....	6,274.27	351.10	1,478.60	8,103.97
Pope .....	13,064.21	969.53	2,188.96	16,222.70
Cummings .....	4,114.69	179.38	1,678.02	5,972.09
Edgerly .....	13,481.23	935.19	2,161.74	16,578.16
Glines .....	16,105.25	634.05	2,405.28	19,144.58
Forster .....	4,294.60	139.24	1,288.28	5,722.12
Bingham .....	16,129.89	707.16	2,720.18	19,557.23
Carr .....	15,551.69	893.42	2,829.22	19,274.33
Morse .....	11,569.89	633.38	2,336.07	14,539.34
Proctor .....	7,317.83	499.39	1,793.64	9,610.86
Durell .....	4,128.92	168.77	1,212.78	5,510.47
Burns .....	7,844.45	342.74	1,717.80	9,904.99
Brown .....	12,080.51	552.54	3,237.70	15,870.75
Highland .....	13,500.56	468.01	2,308.35	16,276.92
Cutler .....	18,381.03	1,290.91	4,288.16	23,960.10
Lincaln .....	4,155.91	235.52	1,427.83	5,819.26
Lowe .....	8,188.71	383.89	1,699.62	10,272.22
Atypical .....	2,589.54	86.20	624.16	3,299.90
Boys' Vocational .....	10,001.77	840.71	1,962.44	12,804.92
Girls' Vocational .....	6,843.89	165.05	1,369.02	8,377.96
Evening .....	6,852.75	351.79	1,877.75	9,082.29
Total .....	\$437,730.20	\$33,225.26	\$88,372.62	\$559,328.08

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1918-19.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High .....	\$52.59	\$5.21	\$9.67	\$67.47
Eastern Jr. ....	47.19	4.20	6.90	58.29
Southern Jr. ....	39.90	7.57	5.75	53.22
Northern Jr. ....	38.43	3.34	6.88	48.65
Western Jr. ....	38.55	2.64	9.94	51.13
Prescott .....	23.83	2.10	5.88	31.81
Hanscom .....	24.09	.96	4.19	29.24
Bennett .....	30.88	2.06	8.20	41.14
Baxter .....	30.73	1.15	6.89	38.77
Knapp .....	23.11	1.32	6.38	30.81
Perry .....	26.03	1.46	6.14	33.63
Pope .....	24.19	1.80	4.05	30.04
Cummings .....	24.35	1.06	9.93	35.34
Edgerly .....	23.53	1.63	3.77	28.93
Glines .....	25.85	1.02	3.86	30.73
Forster .....	23.73	.77	7.12	31.62
Bingham .....	28.96	1.27	4.88	35.11
Carr .....	25.37	1.46	4.62	31.45
Morse .....	27.81	1.52	5.62	34.95
Proctor .....	24.56	1.70	6.02	32.28
Durell .....	25.49	1.04	7.49	34.02
Burns .....	24.75	1.08	5.42	31.25
Brown .....	29.11	1.33	7.80	38.24
Highland .....	35.81	1.24	6.12	43.17
Cutler .....	24.74	1.74	5.77	32.25
Lincoln .....	25.03	1.42	8.60	35.05
Low .....	23.53	1.10	4.88	29.51
Atypical .....	55.09	1.83	13.28	70.20
Evening .....	11.75	.60	3.22	15.57
Elementary .....	26.35	1.41	5.63	33.39
All schools (without vo- cational) .....	31.82	2.45	6.43	40.70
Boys' Vocational .....	163.96	13.78	32.17	209.91
Girls' Vocational .....	236.00	5.69	47.21	288.90

**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.	
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
1918	12,656	410,589	33,587	6,966	35,839	42,063	18	529,062
1919	12,733	437,730	33,225	8,821	22,960	55,710	.....	*559,328

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

\* Includes \$882.50, rent of Armory.

**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, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
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
1918	29 58	2 40	6 09	38 07	84,639,280	.00625
1919	31 82	2 45	6 43	40 70	87,353,424	.00643

**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
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
1918	100,177	30,126	529,062	659,365
1919	104,067	20,492	559,328	683,887

For years prior to 1912 see School Report of 1917.



TABLE 7.—POPULATION AND SCHOOL CENSUS.

For School Year 1918-19.

1842 . . .	1,013	1900 . . .	61,643	1911 . . .	78,000
1850 . . .	3,540	1901 . . .	63,000	1912 . . .	80,000
1860 . . .	8,025	1902 . . .	65,273	1913 . . .	81,000
1865 . . .	9,366	1903 . . .	67,500	1914 . . .	85,000
1870 . . .	14,693	1905 . . .	69,272	1915 . . .	86,854
1875 . . .	21,594	1906 . . .	70,875	1916 . . .	88,000
1880 . . .	24,985	1907 . . .	72,000	1917 . . .	90,000
1885 . . .	29,992	1908 . . .	75,500	1918 . . .	91,000
1890 . . .	40,117	1909 . . .	75,500	1919 . . .	91,500
1895 . . .	52,200	1910 . . .	77,236		

## School Census.

Number of children between 5 and 15 years of age, inclusive, April 1, 1919 . . . . .	15,167
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## School Registration.

Number of children between 5 and 15 years of age, inclusive, April 1, 1919:—	
In public schools . . . . .	11,826
In private schools . . . . .	2,669
Total . . . . .	14,495
Number of compulsory school age, 7 to 13, inclusive:—	
In public schools, males . . . . .	4,417
females . . . . .	4,482
Total . . . . .	8,899
In private schools, males . . . . .	948
females . . . . .	1,039
Total . . . . .	1,987
Total . . . . .	10,886

Table 8. — Attendance of the Public Schools for the School Year  
1918-1919.

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.
*74	High .....	1,854	1,684	1,545	91.7	1,775	1,581
20	Eastern Jr. High .....	530	464	424	91.3	490	443
26	Southern Jr. High .....	741	671	606	90.3	690	645
22	Northern Jr. High .....	673	608	554	91.1	631	593
31	Western Jr. High .....	945	871	812	93.2	906	808
4	Prescott .....	210	190	170	89.4	187	196
10	Hanscom .....	535	469	420	89.5	480	463
10	Bennett .....	396	362	325	89.7	349	365
6	Baxter .....	252	216	197	91.2	208	221
8	Knapp .....	342	322	298	92.5	316	321
6	Perry .....	256	241	222	92.1	241	248
12	Pope .....	589	540	491	90.9	541	536
4	Cummings .....	190	169	155	91.7	168	170
12	Edgerly .....	639	573	516	90.0	581	558
14	Glines .....	673	623	568	91.1	587	628
4	Forster .....	214	181	165	91.1	196	174
15	Bingham .....	634	557	502	90.1	564	562
15	Carr .....	657	613	560	91.3	613	594
10	Morse .....	451	416	379	91.1	431	398
7	Proctor .....	335	298	276	92.6	317	298
4	Durell .....	177	162	146	90.1	168	153
8	Burns .....	356	317	288	90.8	328	309
10	Brown .....	447	415	381	91.8	417	394
11	Highland .....	410	377	353	93.6	375	387
17	Cutler .....	804	743	675	90.8	755	712
4	Lincoln .....	199	166	147	88.5	187	164
8	Lowe .....	372	348	312	89.6	367	350
3	Atypical .....	52	47	41	87.2	45	47
6	Boys' Vocational .....	69	61	56	91.8	55	54
7	Girls' Vocational .....	37	29	25	86.1	29	25
388	Total .....	14,039	12,733	11,609	91.2	12,997	12,397
370	Total for 1917-18.....	14,256	12,656	11,798	93.2	13,200	12,235

\*Includes all rooms used for school exercises.

Table 9. — Statistics of High School for School Year September 11, 1918  
to June 27, 1919.

Number of teachers, including head master . . . . .	70
Number of days school kept . . . . .	162*
Number enrolled . . . . .	1,854
Average number belonging . . . . .	1,684
Average daily attendance . . . . .	1,545.2
Tardinesses . . . . .	3,250
Dismissals . . . . .	425
In Class 1922, September . . . . .	615
June . . . . .	561
Per cent. of loss . . . . .	8.8
In Class 1921, September . . . . .	526
June . . . . .	452
Per cent. of loss . . . . .	14.1
In Class 1920, September . . . . .	304
June . . . . .	260
Per cent. of loss . . . . .	14.5
In Class 1919-B, September . . . . .	318
June . . . . .	301
Per cent. of loss . . . . .	5.3
In Class 1919-A, September . . . . .	12
February . . . . .	13
Per cent. of gain . . . . .	8.3
Special Students, September . . . . .	6
June . . . . .	7
Per cent. of gain . . . . .	16.6
Total, September . . . . .	1,781
June . . . . .	1,581
Per cent. of loss . . . . .	11.2
Number of graduates, male . . . . .	108
Number of graduates, female . . . . .	202
Total . . . . .	310
Average age, male graduates . . . . .	18 yrs. 1 mo.
Average age, female graduates . . . . .	18 yrs. 3 mos.
Number entering college . . . . .	58
Number of graduates entering technical schools . . . . .	9
Number of graduates entering normal schools . . . . .	16
Cost of instruction . . . . .	\$87,112 01
Cost of supplies . . . . .	8,145 35
Total cost . . . . .	\$95,257 36
Per capita cost of instruction . . . . .	\$51 73
Per capita cost of supplies . . . . .	4 83
Total cost per capita . . . . .	\$56 56

\* School sessions were omitted for 21 days on account of epidemic of influenza.

Table 10. — Pupils by Grades, June, 1919.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.
		Men.	Women.		Boys.	Girls.	Total.	
			Regular.	Assistants.				
High	Special .....					7	7	1,278
	Twelfth .....				106	195	301	
	Eleventh .....				87	173	260	
	Tenth .....				198	254	452	
	Ninth .....				235	326	561	
	Total .....	18	51		626	955	1,581	
Junior High	Ninth .....				280	356	636	
	Eighth .....				397	428	825	
	Seventh .....				466	562	1,028	
	Total .....	15	91		1,143	1,346	2,489	
Grammar	Sixth .....	6	30	1	573	595	1,168	
	Fifth .....		34		626	695	1,321	
	Fourth .....		33		665	648	1,313	
	Total Grammar.....	6	97	1	1,864	1,938	3,802	
Primary	Third.....		31		657	657	1,314	
	Second .....		33	1	724	676	1,400	
	First.....		36	1	756	705	1,461	
	Total Primary .....		100	2	2,137	2,038	4,175	
	Total Grammar and Primary.....	6	197	3	4,001	3,976	7,977	
	Kindergarten .....		4	4	106	99	205	
	Boys' Vocational...	6			54		54	
	Girls' Vocational...		6			25	25	
	Atypical.....		3		33	14	47	
	Special .....	3	8		6	13	19	
Cadets.....		2						
	Grand Total.....	48	362	7	5,969	6,428	12,397	

Table 11. — Pupils in High, Junior High, Elementary and Vocational Schools, 1918-1919.

	High School.	Junior High Schools.	Grammar and Primary Schools.	Kinder-gartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment .....	1,854	2889	8,930	208	69	37	52	14,039
Average membership .....	1,684	2614	8,115	183	61	29	47	12,733
Average attendance .....	1,545	2396	7,382	164	56	25	41	11,609
Per cent. of attendance.....	91.7	91.7	91.0	89.6	91.8	86.1	87.2	91.2
Number cases of tardiness .....	3,250	1794	4,257	.....	37	309	97	9,744
Number cases of dismissal .....	525	617	1,653	.....	7	.....	7	2,809
Membership, October, 1918.....	1,775	2717	8,178	198	55	29	45	12,997
Membership, June, 1919.....	1,581	2489	8,016	185	54	25	47	12,397
No. cases corp. punishment.....	.....	18	71	.....	.....	.....	.....	89

Table 12. — Number of Pupils Admitted to Grade 1

SCHOOL.	1915-16		1916	1917	1918
	Sept.	Feb.	Sept.	Sept.	Sept.
Prescott .....	45	23	40	49	46
Hanscom .....	66	20	85	100	114
Bennett.....	73	26	72	84	67
Baxter.....	31	15	35	32	31
Knapp.....	27	14	19	42	30
Perry .....	64	12	27	43	42
Pope.....	36	8	46	51	55
Cummings .....	51	13	40	71	35
Edgerly.....	26	17	33	45	43
Glines .....	43	26	57	91	86
Forster .....	44	33	25	31	21
Bingham.....	51	25	52	102	65
Carr.....	56	21	51	92	79
Morse .....	61	23	65	67	82
Proctor .....	25	16	38	46	48
Durell.....	23	11	21	45	28
Burns .....	16	17	59	107	65
Brown.....	47	22	70	77	63
Hodgkins.....	19	23	41	50	.....
Cutler .....	43	0	73	96	136
Lincoln.....	44	18	55	45	60
Low .....	64	77	42	90	82
Total .....	955	460	1,046	1,456	1,278
Grand Total.....	1415				

Table 13. — Promotions to Grade 10 of High School, June, 1919.

FROM GRADE 9 IN	Receiving Diplomas	Certificated to Grade 10	Entered Grade 10
High School.....	0	511	455
Eastern Junior High School.....	117	117	96
Southern Junior High School.....	163	163	132
Northern Junior High School .....	128	127	102
Western Junior High School .....	198	189	162
Total .....	596	1,107	947

In the process of reducing the number of years in the school course from thirteen to twelve there were brought together in September, 1918, two classes of the high school first year or freshman grade. This grade was denominated the ninth and one-half of the class was conducted in the high school as a first year class and the other half in the four junior high schools as senior classes. In September, 1919, these classes were united in the high school and formed a 10th grade class of double the usual size. The high school now consists of grades 10, 11, and 12.

Table 14. — Comparative Statistics of the Attendance Department for the School Year 1918-1919.

	1918	1919	Change
Number of visits to the schools . . . . .	542	571	+29
Number of visits to the homes . . . . .	1,245	1,463	+218
Number of cases investigated . . . . .	1,336	1,550	+214
Number of cases found to be truancy or absenteeism . . . . .	348	425	+77
Number of different pupils who were truants or habitual absentees . . . . .	270	329	+59
Number who were truants for the first time . . . . .	216	260	+44
Number who were truants for the second time . . . . .	42	48	+6
Number who were truants for three or more times . . . . .	12	17	+5
Number of girls who were truants or absentees . . . . .	49	78	+29
Number of cases of parental neglect of children found and reported to charitable institutions . . . . .	4	4	0
Number of cases of removal of children from the custody of parents by order of the court . . . . .	2	2	0
Number of visits to mercantile or manufacturing establishments . . . . .	52	56	+4
Number of minors found to be working without employment certificates . . . . .	121	70	-51
Number of employment certificates issued to boys . . . . .	702	544	-158
Number of employment certificates reissued to boys . . . . .	480	364	-116
Number of employment certificates issued to girls . . . . .	501	502	+1
Number of employment certificates reissued to girls . . . . .	254	487	+233
Number of educational literate certificates issued to minors over 16 years of age (first issue) . . . . .	*1,519	1,262	....
Number of newspaper licenses issued to boys 12 to 16 years of age . . . . .	140	108	-32
Number of transfer cards investigated . . . . .	1,488	1,333	-155
Number of truants in the County Training school at the close of the year . . . . .	17	22	+5
Amount paid for board of truants . . . . .	\$788.13	\$850.13	+\$62.00

\* Includes reissues.

Table 14. — (Concluded). — Comparative Statistics of the Attendance Department.

For the School Year 1918-1919.

Disposition of truancy and habitual absentee cases:—

Warned and returned to school . . . . .	211
Transferred to other schools . . . . .	13
Obtained certificates (14 to 16 years) . . . . .	35
Left school (over 16 years) . . . . .	13
Removed from city . . . . .	25
Brought before court and returned to school . . . . .	6
Brought before court and sent to Training School . . . . .	11
Parents brought before court for keeping children out of school (convicted) . . . . .	2
Sent to Lyman School . . . . .	7
Given in charge of State Board of Charity . . . . .	1
Given in charge of Home for Destitute Catholic Children . . . . .	3
Given in charge of House of Good Shepherd . . . . .	2
Sent to Industrial School for Boys, Shirley . . . . .	1
	330

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

GRADES.	BY AGES.											Total.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.....	3	18	3	.....	.....	.....	.....	.....	.....	.....	.....	24
II.....	1	5	18	5	2	.....	.....	.....	.....	.....	.....	31
III.....	.....	.....	9	14	11	1	.....	1	.....	.....	.....	36
IV.....	.....	.....	2	4	10	16	14	6	.....	.....	.....	52
V.....	.....	.....	.....	.....	6	13	8	17	5	1	.....	50
VI.....	.....	.....	.....	.....	1	8	7	23	19	6	.....	64
VII.....	.....	.....	.....	.....	.....	1	10	27	22	8	1	69
VIII.....	.....	.....	.....	.....	.....	.....	7	16	22	11	.....	56
IX.....	.....	.....	.....	.....	.....	.....	.....	5	4	5	3	17
X.....	.....	.....	.....	.....	.....	.....	.....	1	1	2	4	8
XI.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	4
XII.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Boys' Voc'l	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Girls' Voc'l	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
Ungraded..	.....	4	1	.....	2	.....	.....	1	2	.....	.....	10
Total.....	4	27	33	23	32	39	46	97	76	38	10	425



Table 15. — Attendance in Elementary Evening Schools from October, 1918, to June, 1919.

		Bell.	Highland.	Total.
Enrolled .....	Male	153	53	206
	Female	62	29	91
	Total	215	82	297
Ave. membership .....	Male	61	30	91
	Female	27	21	48
	Total	88	51	139
Ave. attendance.....	Male	51	23	74
	Female	23	17	40
	Total	74	40	114
Per cent. Att. out of No. belonging .....	.....	88.1	78.4	82.0
Per cent. Att. out of No. enrolled.....	.....	34.4	48.7	38.4
Ave. No. of teachers.....	Male	1	1	2
	Female	7	3	10
	Total	8	4	12
No. of sessions .....	.....	70	70	.....
Teachers, cost of .....	.....	\$1,286.00	\$694.00	\$1,980.00
Janitors, fuel, supplies, and light, cost of.....	.....	592.40	286.53	878.93
	Total	\$1,878.40	\$980.53	\$2,858.9
Cost per pupil per evening.....	.....	\$0.305	\$0.270	\$0.293
Cost per evening .....	.....	26.83	14.01	40.84
Cost per pupil in ave. membership.....	.....	21.34	19.21	20.57
Cost per pupil in ave. at- tendance.....	.....	25.38	24.51	25.08

Table 15. — (Concluded). — Evening High School — Season of  
1918-1919.

	Male	Female	Total
Enrolled . . . . .	286	343	629
Average membership . . . . .	149	214	363
Average attendance . . . . .	123	147	270
Number of teachers . . . . .	21		
Number of sessions . . . . .	52		
Cost of Instruction . . . . .		\$3,424 00	
Cost of janitor, fuel, supplies, and light . . . . .		1,120 25	
Total cost . . . . .		<u>\$4,544 25</u>	
Cost per pupil per evening . . . . .		\$0 241	
Average attendance: November 454, December 294, January 230, February 184, March 191.			

Table 16. — Promotions from Elementary to Junior High Schools.

	1919
Knapp.	62
Perry.	34
Pope.	139
Eggerly.	136
Glines.	88
Forster.	35
Bingham.	66
Carr.	106
Morse.	46
Proctor.	44
Brown.	43
Highland.	143
Cutler.	126
Total.	1068
Average Membership of Elementary Schools.	83.45
Per cent. of Average Membership Promoted	12.79

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
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
1918	14,256	12,656	11,798	93.2	8,970	0.760
1919	14,039	12,733	11,609	91.2	9,744	0.839

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.
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
1918	12,656	1,520	12.01	332	2.62
1919	12,733	1,854	14.56	310	2.43

For years prior to 1912 see School Report of 1917.

Table 19. — Promotions for School Year Ending June 27, 1919.  
Junior High Schools.

Grade	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded
I	1089	846	163	80
II	810	626	119	65
III	647	560	36	49
Total.....	2546	2032	318	194

Percentage of Promotions for School Year Ending June 27, 1919.  
Junior High Schools.

Grade	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded
I	100	77.7	15.0	7.3
II	100	77.3	14.7	8.0
III	100	86.9	5.5	7.6
Total.....	100	79.9	12.5	7.6

Table 19-A. — Promotions for School Year Ending June 27, 1919.  
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	1,515	1,150	90	262	13	6	1
II	1,405	1,159	120	119	7	8	10
III	1,331	1,101	112	108	10	9	7
IV	1,327	1,072	124	110	21	6	6
V	1,307	1,038	166	101	2	15	1
VI	1,221	947	160	108	6	5	7
Total.....	8,106	6,467	772	808	59	49	32

Percentage of Promotions for School Year Ending June 27, 1919.

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	75.9	6.0	17.3	.8	.4	.....
II	100	82.5	8.5	8.5	.5	.6	.7
III	100	82.7	8.4	8.1	.8	.7	.5
IV	100	80.8	9.3	8.3	1.6	.5	.5
V	100	79.4	12.7	7.7	.2	1.1	.....
VI	100	77.6	13.1	8.8	.5	.4	.6
Average...	100	79.8	9.5	10.0	.7	.6	.4

Table 20. — Resignations of Teachers, 1919.

SCHOOL.	Teacher.	Resignation Took Effect	In Service
High	Hattie May Baker	June 30, 1919.	7 years, 5 mos.
"	Edith H. Bradford	" "	1 "
"	Jean H. Congdon	May, 1919.	3 "
"	Mary L. Johnston	June, 1919.	5 "
"	Lydia A. Jones	June 30, 1919.	3 "
"	Cleo A. O'Donnell	" "	1 year
"	Mary F. Osborne	December, 1919.	11 years,
"	Bessie M. Page	June 30, 1919.	8 "
"	F. Gertrude Perkins	" "	13 "
"	M. Belle Preston	" "	5 "
"	Helen M. Stevens	" "	3 "
"	Ruth Tousey	" "	15 "
"	Florence Towne	" "	3 "
"	Augustus B. Tripp	" "	9 "
"	Frank Winthrop	" "	0 "
"	Ruth S. Woodworth	September, 1919.	1 year
Northern Junior High	Margaret M. Kneil, Librarian	June 30, 1919.	3 years,
"	Lucy E. French	" "	5 "
"	Mary T. Gurvin	" "	2 "
"	George S. Lusk	" "	3 "
"	Irene S. Nightingale	" "	2 "
"	Glady's E. Teele	" "	2 "
Western Junior High	Josephine G. Nicholson	January, 1919.	24 "
"	Edith M. Nickerson	June 30, 1919.	1 year
"	Frances L. McGann	November, 1919.	2 years,
"	Eva R. Barton	June 30, 1919.	1 year
Hanscom	Ruth E. Clarke	" "	4 "
Pope	Mary A. Goddard (retired)	" "	15 "
Glines	Mary E. Northup (retired)	May 1, 1919.	3 "
"	Mary L. Abbott	June 30, 1919.	26 "
"		" "	41 "
Carr		March 1, 1919.	8 "

Table 20. — (Concluded.) — Resignation of Teachers, 1919.

SCHOOL.	Teacher.	Resignation Took Effect	In Service
Carr .....	Cora E. Crawford	November, 1919.	6 years, 6 mos.
" .....	Julia A. Simmons	" "	1 "
Morse .....	Helene H. Parker	December, 1919.	4 "
Burns .....	Cara M. Johnson (died)	" "	9 "
Cutler .....	Bessie A. Mirfield	June 30, 1919.	" "
" .....	May V. Powell	" "	5 "
Girls' Vocational School .....	Marion P. Crawford	" "	22 "



Table 21. — Teachers Elected in 1919.

SCHOOL.	Teacher	Coming From	Salary	Service Began
High	Ella W. Burnham	Gloucester	\$1,100	Sept., 1919.
"	Bessie A. G. Clarke	Somerville	1,100	April, 1917.
"	Doris B. Cresto	Not teaching	700	Sept., 1919.
"	Leander T. DeCelles	Boston	1,100	"
"	Wallace S. Hall	Woodstock, Conn.	1,700	"
"	George S. McLaughlin	War service	1,600	"
"	Ruth H. Merritt	Bath, Maine	950	"
"	Ruth L. Ranger	Wayland	1,000	"
"	Louise M. Saunders	Braintree	1,100	"
"	Elizabeth M. Welch	W. Bridgewater	1,050	"
"	Frank Winthrop			
"	Edythe L. Miller, Librarian			
"	Matilda C. Wright, Matron	Somerville	450	Oct., 1919.
Eastern Junior High	Elma H. Isaac	Boston	1,000	"
"	Francis J. Mahoney	Somerville	800	Sept., 1919.
Southern Junior High	Olive M. Brownell	Danvers	1,700	"
"	F. Antoinette Pratt	Wakefield	1,000	"
"	Raymond E. Shephard	West Newton	900	Sept., 1918.
Northern Junior High	Mary C. Fox	Rutland	1,700	Sept., 1919.
"	Florence R. Gallagher	Somerville	800	Sept., 1918.
"	Catherine E. Giles	Somerville	700	"
"	Ruth S. Hawkins	Somerville	800	"
"	Gladys McDonnell	Fairfield, Iowa	1,000	Sept., 1919.
"	Annie G. Merrill	Not teaching	850	Sept., 1918.
"	Alice M. Patterson	Fairfield, Maine	900	"
"	Jane H. Perkins	Quincy	900	"
"	Maud Rose	Garden City, N. Y.	1,050	"
"	Walter P. Sweet	Scotia, N. Y.	1,050	"
"		War service	1,500	Mar., 1919.

Table 21. — (Concluded). — Teachers Elected in 1919.

SCHOOL.	Teacher	Coming From	Salary	Service Began
Western Junior High	Charles M. Dunbar	War service	1,200	Sept., 1919.
"	Miriam W. Hatch	Brunswick, Me.	950	"
"	Jessie M. Howard	Boston	1,100	Dec., 1919.
"	Helen A. Moran	Somerville	800	Sept., 1918.
"	Hazel M. Yaeger	Detroit, Mich.	1,150	Sept., 1919.
Hanscom	Gertrude E. Prichard	Not teaching	550	"
Bennett	M. Regina Desmond	Somerville	600	Jan., 1919.
"	Eliza Patterson	Vinalhaven, Me.	900	Sept., 1919.
"	Alice A. Tassinari	Revere	800	Dec., 1919.
Knapp	Eleanor M. Lundgren	Somerville	750	Sept., 1915.
"	Mary T. McCarthy	Boston	800	Oct., 1919.
"	Nellie C. Moynihan	Marlboro	900	Jan., 1919.
"	Agnes C. Riley	Somerville	700	Feb., 1916.
Pope	Marie Higgins	Passaic, N. J.	1,050	Sept., 1919.
Glines	Editha F. Sharkey	Not teaching	800	"
Carr	Ada C. Tassinari	Revere	950	Dec., 1919.
Morse	Eva A. Wilson	Somerville	900	Sept., 1905.
Highland	Hazel M. Stone	West Acton	900	Dec., 1919.
Cutler	Elsie M. Guthrie	Not teaching	850	Feb., 1914.
"	Alice A. Libbey	Kingston	800	Sept., 1919.
"	Mabel Worcester	Mansfield	800	"
Boys' Vocational School	Benjamin C. Bowman	Not teaching	1,400	"
Girls' Vocational School	Vernie T. Neily	Boston	1,050	Oct., 1916.

Table 22. — Leave of Absence of Teachers.

Julia T. Connor, from September 1, 1919, to June 30, 1920.  
 Nona E. Blackwell, from September 26, 1919, to June 30, 1920.  
 M. Edith Callahan, from September 26, 1919, to June 30, 1920.  
 Cora E. Crawford, from January 23, 1919, to June 30, 1919.  
 Blanche E. Thompson, from September 1, 1919, to June 30, 1920.  
 Eva G. Hardy, from October 27, 1919, to June 30, 1920.  
 Elizabeth J. Baker, from October 1, 1919, to June 30, 1920.

## Cadets.

Grace M. Driscoll

Elizabeth C. Sullivan

Laura M. Flynn

Table 23. — Transfers of Teachers.

Teachers	From	To
Susie L. Luce . . .	Eastern Junior High .	Carr
Francis A. Ryan . . .	Eastern Junior High .	Knapp, Perry & Baxter
Sophia C. Mague . . .	Southern Junior High	Western Junior H.
John S. Emerson . . .	Northern Junior High	Bennett
Clara D. Eddy . . .	Western Junior High .	Glines
Emma M. Damon . . .	Girls' Vocational . . .	Western Junior High
Mary Donoghue . . .	Girls' Vocational . . .	Northern Junior High
Mary L. Gallagher . . .	Bennett . . . . .	Knapp
Charles E. Brainard . . .	Edgerly, B e n n e t t , Hanscom . . . . .	Edgerly, Glines
Florence A. Chaney . . .	Pope . . . . .	Pope, Hanscom
Elsie M. Guthrie . . .	Glines . . . . .	Cutler
Mina J. Wendell . . .	Morse . . . . .	Morse, Burns
Charles G. Ham . . .	Carr . . . . .	Carr, Cummings, Durell
Harriet M. Bell . . .	Highland . . . . .	High
Marie Clifford . . .	Highland . . . . .	Northern Junior High
Frank W. Seabury . . .	Highland, Burns . . .	Northern Jr., Forster
Harlan P. Knight . . .	Cutler, Lincoln . . .	Cutler, Lincoln, High- land

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.
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
1918	70‡	108	103	104*	28	5	49	369	418
1919	70‡	106	96	111*	26	9	48	370	418

\*Including four kindergartners.

‡Including secretary.

Table 25. — Books Authorized for Use, 1919.

For High School.

*As Text-Books.*

Jose-Armando Palacio Valdes — D. C. Heath & Company.  
 El Capitan Veneno — D. Pedro A. de Alarcon-Henry Holt & Company.  
 Zaragueta - Howland - Silver, Burdett & Company.  
 La Conjuracion De Venecia—Francisco Martinez De La Rosa—  
 Benj. H. Sanborn & Company.  
 Grammaire Francaise—Mary Stone Bruce—D. C. Heath & Company.  
 A First Spanish Course, Hills and Ford,—D. C. Heath & Co.  
 El Pajaro Verde, Juan Valera,—Allyn & Bacon.  
 Principles of Bookkeeping, Miner and Elwell,—Ginn & Co.  
 Elements of Accounts, Rittenhouse,—McGraw-Hill Book Co.  
 Trigonometry, Bocher and Gaylord,—Henry Holt & Co.  
 Four Place Logarithmic Tables, E. V. Huntington,—Harvard Co-  
 operative Society.  
 Constructive Dictation, Edward H. Gardiner,—Gregg Publishing  
 Co.  
 Carnet de Campagne d'un Officer Francais—Benjamin H. San-  
 born & Co.  
 Sous Les Armes,—Henry Holt & Co.  
 Scenes of Familiar Life—D. C. Heath & Co.  
 La France Heroique—D. C. Heath & Co.  
 Blanchaud's Progressive French Idioms,—D. C. Heath & Co.  
 Histoire de France, Lavissee,—D. C. Heath & Co.  
 La Familia de Alvareda, Caballero—Henry Holt & Company.  
 Industry and Trade, Bishop & Keller—Ginn & Company.

**For Junior High and Elementary Schools.***As Text-Books.*

Elementary Spanish Reader—Ginn & Company.  
 The Young American Readers—John C. Winston Company.  
 The Winston Readers—John C. Winston Company.  
 Stories of Americans in the World War—Journal of Education.  
 My Country—Ginn & Company.  
 Lest We Forget—Silver, Burdett & Company.  
 Our Community—John C. Winston Company.  
 Around the World With the Children—American Book Company.  
 Essentials of Arithmetic Series, Wentworth-Smith—Ginn & Company.  
 Hamilton's Standard Arithmetic Series—American Book Company.  
 Everyday Arithmetic Series—Hoyt and Peet—Houghton, Mifflin Company.  
 Aldine Supplementary Readers.

*As Reference Books.*

The Little Book of the War, Tappan—Houghton, Mifflin Company.  
 The Liberty Reader, Sheridan—B. H. Sanborn & Company.  
 A School History of the Great War, McKinley, Coulomb, and Gerson—American Book Company.  
 War Readings—Charles Scribner's Sons.  
 Arlo, Cobb—Riverdale Press.  
 Clematis, Cobb—Riverdale Press.  
 Fifty-five Community Songs,—C. C. Birchard Co.

**For Junior High Schools.***As Reference Books.*

Walsh's Business Arithmetic, John Henry Walsh,—Gregg Publishing Co.  
 Elementary American History, Woodburn and Moran,—Longmans, Green & Co.  
 Spirit of Democracy, Powell,—Rand McNally Co.

TABLE 26. — HIGH SCHOOL GRADUATION.

The graduation exercises of the High School occurred on Thursday, June 26, 1919.

## ORDER OF EXERCISES.

HERBERT CHOLERTON, Chairman of the School  
Committee, Presiding.

1. OVERTURE — "Light Cavalry".....Suppe  
High School Orchestra, Ralph Baxter, Leader.
2. PRAYER — Rev. Robert A. Colpitts.  
Pastor of the First Methodist Episcopal Church.
3. SINGING — "Hail to the Heroes".....Verdi  
Graduating Class.
4. ESSAY — "Ye Are the Hope of the World"  
Lillian M. Trask.
5. SOLO — "Morning" .....Speaks  
Ruth L. Caulfield.
6. ESSAY — "The Stranger Within Our Gates"  
Charles L. S. Easton.
7. SINGING — "Shout Aloud In Triumph".....Manley  
Graduating Class.
8. ADDRESS TO GRADUATES  
Thomas H. Dowd, LL. D., Judge of the Municipal Court of the  
City of Boston.
9. SINGING — "Hallelujah," from "Messiah".....Handel  
Graduating Class.
10. PRESENTATION OF DIPLOMAS TO GIRLS  
Daniel H. Bradley, Vice-Chairman, School Committee.
11. MARCH — "Soldiers of the Air".....Fulton  
Orchestra
12. PRESENTATION OF DIPLOMAS TO BOYS  
Dr. Herbert Cholerton, Chairman, School Committee.
13. SINGING — "The Star Spangled Banner"
14. POSTLUDE — "Lion Tamer".....Sousa  
Orchestra

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

## LIST OF GRADUATES.

June, 1919.

\* Graduated with Honor.

- |                            |                             |
|----------------------------|-----------------------------|
| Aberle, Rosa Jeannette     | Decker, Elizabeth Howard    |
| Adams, Ruth Olive          | Donahue, Anna Gertrude      |
| Ahern, Mary Angela         | Dow, Marian Louise          |
| Ahlner, Clara Sophia       | Drew, Marjorie Virginia     |
| Andersen, Florence C. J.   | Drew, Mary Elizabeth        |
| Arata, Rose Catherine      | Driscoll, Elizabeth Hurley  |
| Atkins, Naomi              | Edwards, Lillian Evadell    |
| Bacon, Ethel Augusta       | Ellis, Luthera Abbie        |
| Baker, Lottie              | *Estee, Helen Catherine     |
| Barker, Gertrude Frances   | Fallgren, Martha Torborg    |
| Barnes, Grace              | Ferguson, Edna Gertrude     |
| Barry, Mary Josephine      | Ferguson, Gladys            |
| Bassnett, Grace Annabelle  | Fielder, Edith Elizabeth    |
| Bell, Emily Amelia         | *Fine, Mollie               |
| Benjamin, Helen Leah       | Fiske, Rachel Minot         |
| Bennett, Jessie Emilie     | Flynn, Alice Frances        |
| Berman, May Charlotte      | Fowler, Marion Laura        |
| Biller, Frances Ethel      | Fowler, Marion Saloma       |
| Blackman, Alberta Mabelle  | *Freeman, Katharine Grace   |
| Bloomer, Velma Marion      | Freeto, Carrie May          |
| Bormann, Helen Gertrude    | Fudge, Marion Elizabeth     |
| *Briggs, Ethel May         | Gaddis, Agnes Blanche       |
| Bryant, Edna May           | Garside, Lillian Mae        |
| Buchanan, Phoebe Marion    | Gavin, Marie Bernadine      |
| Buckley, Alice Agatha      | Gilmore, Virginia           |
| Bump, Thelma Merian        | Givan, Melda Spratt         |
| *Burke, Dorothy May        | Gould, Mildred May          |
| Burke, Grace Thelma        | Gratcyk, Bernadette Octavia |
| Burnett, Juniata           | Gray, Florence Gladys       |
| Campbell, Doris May        | Groombridge, Ruth Alicia    |
| Campbell, Grace Jane       | Gutosky, Adele              |
| Campbell, Helen Margaret   | Hale, Lillian Malcolm       |
| Campbell, Mary Helen       | Hall, Anna Ethelyne         |
| Canavan, Edith Marguerite  | Hanna, Ruth Isabel          |
| Cannon, Thelma Elizabeth   | Harding, Edith Frances      |
| Casey, Irene Virginia      | *Harding, Helen Louise      |
| Caswell, Gladys Elizabeth  | *Harriman, Ruth             |
| Caulfield, Ruth Lee        | Harrington, Frances Ellen   |
| Chequer, Ruth Elizabeth    | Harrington, Mary Blanche    |
| Chick, Frances Mary        | Heap, Vera Constance        |
| Clapp, Dorothy Helene      | Hearn, Gladys Marjorie      |
| Clark, Isabel Bates        | Henehan, Winifred Anna      |
| Clarke, Grace Mary         | Hession, Alice Louise       |
| *Coddington, Mildred Brown | Higgins, Emily Fairwin      |
| Coffey, Ethel Marie        | *Hinkley, Helen Agnes       |
| *Colpitts, Leota Carolene  | *Hodgkins, Marion Emery     |
| Cook, Mildred              | Hofmann, Blanche Louisa     |
| Cook, Miriam Louise        | Hogan, Mary Gertrude Louise |
| Currie, Helen Tremaine     | *Holloway, Rosina Dorothy   |
| Davis, Dorothy             | Horrell, Eleanor May        |

- Hunter, Henrietta Vivian  
 Keddy, Doris Estelle  
 Keenan, Dorothy Elizabeth  
 Kelleher, Margaret Mae  
 Kelley, Madeleine Elsie  
 Kennedy, Edith Lydia  
 Kerner, Sylvia  
 Kilcoyne, Helen Aldegone  
 Leavitt, Hazel Linwood  
 Legg, Mary Elizabeth  
 Leith, Dorothy Eveline  
 Linehan, Margaret Teresa  
 Linnehan, Margaret Elizabeth  
 Loring, Dorothy  
 Lothrop, Hazel Madeline  
 Lynch, Julia Eleanor  
 Lyons, Alice Josephine  
 MacDonald, Margaret Jane  
 MacKay, Dorothy Cameron  
 MacMaster, Charlotte Augusta  
 \*Magwood, Mae Agnes  
 Malaney, Eunice Mary  
 Manthorne, Josephine A. E.  
 Marshall, Marion Eugenia  
 Martin, Adele  
 \*May, Helen Louise  
 McCrillis, Mary  
 McHale, Ellen Beatrice  
 McLaughlin, Eleanor Louise  
 McMahan, Mary Eleanor  
 McNamara, Eleanor Mary  
 Miller, Gertrude Evelyn  
 Mills, Alice Edna  
 Mitchell, Beatrice Cora  
 Mitrano, Anna  
 Mooney, Evelyn Frances  
 Moore, Emma Frances  
 Moore, Jessie Elizabeth  
 Murphy, Josephine Catherine  
 Murray, Frances Eleanore  
 Nemser, Pauline Leah  
 Norton, Sadie Agatha  
 Nowell, Beulah Jane  
 \*Ohse, Hildegard  
 Okey, Dorothy Duff King  
 Parker, Florence Hall  
 Peak, Alice Gorham  
 Pearlman, Rhoda  
 Pedrazzi, Mary Therese  
 Perry, Barbara Louise  
 Phelps, Christine Harriet  
 Quail, Olivia May  
 Quinn, Elizabeth Emma  
 \*Rafuse, Verna Sarty  
 Reynolds, Gladys Alma  
 Ryan, Mary Cecelia  
 Sainato, Marguerite Marion  
 Sargent, Bertha Estelle  
 Sawyer, Dorothy Hortense  
 Scholes, Leah Pearl  
 Scribner, Mildred Elizabeth  
 Seller, Thelma Beatrice  
 Shaw, Constance Evangeline  
 Siegel, Sophie Helen  
 Smith, Ruth Edwina  
 Smith, Violet Marian  
 Spinney, Gladys Elizabeth  
 Springer, Eleanor Gertrude  
 Steeves, Florence Anna  
 Stockbridge, Evelyn Field  
 Sullivan, Alice Marguerite  
 Sullivan, Mary Loretta  
 Sullivan, Mildred Blanche  
 \*Sweet, Helen  
 Swinehamer, Ethel May  
 Tapley, Phyllis Verne  
 \*Taylor, Doris Hale  
 Thorne, Dorothy Lelia  
 \*Trask, Lillian Margaret  
 Traver, Muriel Audrey  
 Trefry, Dorothy Julia  
 Trimble, Alice Gertrude  
 Trueman, Dorothy  
 Tutein, Grace  
 Walsh, Joan Frances  
 \*Warren, Sarah Leone  
 \*Watt, Bernice Leavitt  
 Webber, Irene Gwendoline  
 Wellman, Dorothy Mary  
 Westlin, Valborg Mathilda  
 Weston, Ella  
 Wetzler, Ida Ellen  
 Whalen, Madeline Margaret  
 White, Mabel Florence  
 Wilber, Dorothy  
 Wilder, Doris  
 \*Wilson, Bertha Washington  
 \*Wolf, Hazel Florence  
 Wolfe, Sarah Louise  
 Woods, Ethel Louise  
 Wyse, Alice Ethel  
 \*Yavner, Pearl Pauline  
 Allen, Edward Victor  
 \*Avery, John  
 Ayer, John William  
 Baker, Edward Wesley  
 Baldwin, William Edward  
 Baxter, Ralph Frederick  
 Bent, Samuel Augustus  
 Biagiotti, Ralph Matthew  
 Bickford, Theodore Reginald  
 Blumsack, Maurice William  
 Brown, Ernest Elliot  
 \*Calkin, Frank George  
 Carey, John William  
 Carvill, Arthur Lincoln  
 Celata, Umberto  
 Chaffee, Randolph Warren



- \*Chandler, Myron Kennard  
 \*Chapman, Dwight Ingersoll  
 \*Cirella, Lawrence Ettore  
 Clark, Earl Spickett  
 Coaker, George Watson  
 Cohen, Hona  
 Cohen, Melvin Joseph  
 Cook, Edward Williston  
 Copithorne, William Lumb  
 Cox, George Henry  
 Coyne, Harold Vincent  
 Cudmore, James Aloysious  
 Desmond, Joseph Leo  
 Devine, George Arthur  
 Doctoroff, Louis  
 Downey, William Edward  
 Downing, James Anthony  
 Dyson, Albert  
 Eames, Frederick Weston  
 \*Easton, Charles Lawren Stevens  
 Eddy, Norman Leopold  
 Ells, Wilfred Scott  
 Estey, Roger Bradshaw  
 Fitzpatrick, Joseph Benedict  
 Foley, Edward Joseph  
 Frazee, Kenneth Ainslie  
 Fuller, Everett Malcolm  
 Geran, Edward John  
 Greene, John Francis  
 Harris, George Edwin  
 Hayes, Robert Irving  
 Hayes, William Franklin  
 Hockenson, Oscar Randolph  
 Holmes, Albert Joseph  
 Howland, Francis Nickerson  
 Jaques, George Henry  
 Judge, John Joseph  
 Keegan, George Edward  
 Kendall, Charles Cobb Henry  
 Kingston, Allan Roy  
 Knox, Joseph Carleton  
 Kolb, Charles Roy  
 Lazzaro, John Baptist  
 Lundgren, James Ellsworth  
 Lyle, Edgar Reginald  
 MacKenzie, Channing Hazeltine  
 Markle, Paul Belling  
 Meaney, David Joseph  
 \*Mongan, Charles Edward, Jr.  
 \*Moore, Dudley  
 Moore, Ephraim William  
 Morrison, Edward John Weldon  
 Mulholland, George Henry  
 Murphy, Walter Francis  
 Murrell, Lester Burnham  
 Myers, Earl Seymour  
 Noyes, Harold Merrill  
 O'Donoghue, Edward Henry  
 O'Hare, Thomas Joseph  
 Paasche, Norman Justin  
 Pearlman, Harry  
 Perron, Elmer Lewis  
 Plummer, Thomas Elliott  
 Powell, Edwin Scott  
 \*Price, Harold Fifield  
 Price, Samuel  
 Reed, Lucius Kendall  
 \*Root, Winthrop Hegeman  
 Rourke, Arthur John  
 Russell, Lawrence Francis  
 Ryan, James Daniel  
 Ryan, Lawrence Francis  
 Scigliano, Frank Pietro  
 \*Sharkey, Edward Joseph  
 Silva, Raymond Mason  
 Simpson, Fred Nelson  
 Sisk, George Joseph  
 Sliney, Joseph Leo  
 \*Smith, Lloyd Edwin  
 Spaulding, Edward Brown  
 Stephens, Melvin Adams  
 Stynes, James Francis  
 Taylor, Robert Kenneth  
 Thurston, Harold Alexander  
 Treat, Charles Herbert  
 Turner, Frank William  
 Walker, Francis Clayton  
 Walsh, Elmer Frederick  
 Walton, Alfred Clifton  
 Watkins, George Arthur  
 Whitney, Stearns Hay  
 Wood, Morris Barnes

Total Number of Graduates, 310. Boys, 108; Girls, 202.

Junior High School graduations occurred in the school buildings on June 25, 1919.

#### LIST OF GRADUATES.

##### Eastern.

- |                       |                          |
|-----------------------|--------------------------|
| Allen, Maude Netina   | Blanchard, Gordon Arnold |
| Beeman, Eva Aurelia   | Bliss, Clinton F.        |
| Biagiotti, Mary Julia | Blish, Louise Caroline   |
| Bishop, Arthur Joseph | Bradshaw, Mildred Louise |

Brawn, Grant A.  
 Brennan, Ethel Catherine  
 Brine, Ethel Charlotte  
 Burleigh, Mildred Esther  
 Burns, Margaret  
 Burton, Gladys Marie  
 Cameron, Doris  
 Cardalino, Anthony  
 Catsiff, Oscar  
 Clark, Frank R.  
 Coleman, Margaret  
 Cotter, Mary Elizabeth  
 Crosby, Dorothy  
 Cuneo, Leila Alice  
 Daley, George Henry  
 Davidson, Charles James  
 Dempsey, John  
 Di Cecca, John  
 Dixon, Harold Robert  
 Doheney, Mary  
 Donovan, Charles  
 Downey, Francis  
 Duffey, Rosamond L.  
 Dunlap, Alice Wentworth  
 Durgin, Ellen Inez  
 Durning, Edna Frances  
 Ellison, Sarah  
 Engelhardt, Grace  
 Fidalgo, Edward F.  
 Fisher, Marie Kathleen  
 Flanagan, Maude W.  
 Flynn, Annie  
 Fowler, Ernest S.  
 Galvin, Thomas F.  
 Gostanian, Gostan  
 Giles, Lillian Marie  
 Goldstein, Israel  
 Grattan, Honora Marie  
 Greenberg, Jennie  
 Harding, Elvin Richard  
 Hale, Muriel Gladys  
 Hallett, Ruth Chapman  
 Heffernan, William Phelan  
 Hockheim, Christine Fix  
 Hunter, Inez Blaisdell  
 Johnson, Vano J.  
 Kennard, Wentworth  
 Kerner, Lillian  
 Knox, Elsie Lovering  
 Knox, Maynard Parkman  
 Kurth, Ruth  
 Laighton, Lillian A.  
 Lebovich, Hannah  
 Lewis, Frederick  
 Linehan, Ellen Margaret  
 Lohman, Emily A.  
 Longfellow, Gladys May  
 Lyon, Mary T.  
 MacLellan, Earl Robert  
 Malone, Rosemary  
 Manning, Joseph  
 Martin, Willard Edgar, Jr.  
 Martin, Wiuthrop Reynolds  
 Mayall, Mary Evelyne  
 McAuley, Mary A.  
 McConnell, Dorothy Beryl  
 McGlinchy, Gertrude Louise  
 McLain, Mary Alecta  
 Milano, Mary H. E.  
 Minzner, Myrtle Irene  
 Mitchell, Helen Elizabeth  
 Moore, Hazel Mae  
 Mullin, Margaret  
 Murley, Ralph William  
 Murphy, Rose Anna  
 Nugent, Roy  
 O'Brien, Mary  
 O'Leary, Harold C.  
 Pen Dell, Josephine  
 Perry, Madeline  
 Powers, Margaret  
 Powers, William  
 Publicover, Nellie Elizabeth  
 Quinlan, Weldon Harley  
 Reardon, Annie  
 Reagan, Ethel R.  
 Reid, Robert Lawrence  
 Robbins, Ralph Herbert  
 Robinson, J. Curtis  
 Roche, James Edward  
 Rodgers, Hazel May  
 Ross, Helen P.  
 Ross, Kenneth Webster  
 Ryan, Margaret Honora  
 Schwartz, Louis  
 Schwartz, Samuel  
 Schutte, Agnes Lyell  
 Shea, Kathleen  
 Silva, Mary  
 Smith, Louis Hart  
 Spies, Frederick W.  
 Thomas, John Walter  
 Tick, Samuel  
 Upton, Olive Mitchell  
 Weinberger, Ruth  
 Whitney, Francis Scott  
 Wright, Clayton B.  
 Yavner, Mary  
 Young, Doris Rose

## Northern.

Abells, Harry E.  
 Abells, Lois Augusta  
 Allen, Bernard  
 Anderson, Freida Louise  
 Anderson, Ruth Evelyn  
 Aronson, Leo  
 Babineau, Edith S.  
 Barnes, William Albert  
 Basset, Dorothy  
 Bellizia, Florence J.  
 Blake, Alice L.  
 Bloomstein, Meyrick  
 Breen, Leonard Chandler  
 Brown, Edwin Leslie  
 Buchinsky, Edward  
 Burckes, Chandler Harding  
 Burrows, Katherine E.  
 Buttimer, Gerald F.  
 Cannon, Marion A.  
 Clark, Barbara Lydia  
 Clark, Florence Louise  
 Coffey, James J.  
 Collins, Ellen E.  
 Fitzgerald, Katherine M.  
 Conrad, Dorothy M.  
 Corcoran, Esther M.  
 Cowan, Dorothy Helen  
 Coyle, Theodore Russell  
 Crescio, Jennie Rita  
 Crocker, Ernest M.  
 Cronin, Catherine Ellen  
 Crowley, Mary E.  
 Dexter, Edythe D.  
 Doll, Helen F.  
 Earle, Alvin Lloyd  
 Edgerly, Carl Frank  
 Edgerly, Edna M.  
 Herman, Albert A.  
 Falvey, Edward Albert  
 Fannon, Joseph Lawrence  
 Filadoro, Michael A.  
 Filippone, Frances A.  
 Finlay, Eleanor R.  
 Finnegan, L. E. Alton  
 Fisher, Sanford  
 French, Gladys  
 Fuccione, Silvio John  
 Galvin, Alice Josephine  
 Geary, Daniel Joseph, Jr.  
 Glazier, Dorothy Stockwell  
 Goff, Marion W.  
 Goodfellow, William A.  
 Graef, Donald Androus  
 Greene, Adelaide  
 Grills, Grace Winifred  
 Hardin, Foster G.  
 Holahan, Margaret V.  
 Hubert, Florence Marie  
 Hunnewell, Mildred Viola C.  
 Jacome, Wilhemina M.  
 Jillson, Harold Herman  
 Kane, Isabelle M.  
 Kelter, Ruth A.  
 Kinney, Adelaide W.  
 Kinsman, Roy Frederick  
 Knibbs, Charles Cornelius  
 Lee, Grace D.  
 Libby, Sara M.  
 Lombard, Alice Gertrude  
 Lynn, Anna E.  
 MacLaren, George P.  
 MacKenzie, Laura Ruth  
 MacLellan, Josephine Elizabeth  
 MacNeil, Angus Michael  
 Magoon, Eleanor S.  
 Malvey, Mary L.  
 Manthorne, W. D. Lockhart  
 Marquedant, Francis I.  
 Martin, Helen Winifred  
 Matheson, Norman Albert  
 McCarthy, Edith Marie  
 McKelvey, Robert E.  
 Moccia, Annie Marie  
 Moccia, John Joseph  
 Moore, Eleanor M.  
 Morrill, Adelbert E.  
 Mumford, Francis Estey  
 Murphy, Mary Gertrude  
 Nevins, Ina Genevieve  
 Northrop, Ralph W.  
 Notaro, Elvira F.  
 Novack, George M.  
 O'Connell, James A.  
 O'Keefe, John Francis  
 Parker, Lloyd R.  
 Peakes, Esther Louise  
 Perry, Lila Gladys  
 Powers, Frederick Leo  
 Price, Helen Melba  
 Priebe, Adelaide P.  
 Robie, Olive Jane  
 Rooks, Roger F.  
 Ruffino, Josephine Adelina  
 Sandberg, Elsie L.  
 Scully, Joseph Arthur  
 Shapiro, Alexander Z.  
 Shute, Frances J.  
 Sileno, Louis  
 Small, Edith Hazel  
 Smith, Bella Mary  
 Smith, Catherine M.  
 Spear, Edwin Warren  
 Steeves, Lula T.  
 Tanner, Allyne Frances

Tarpey, Thomas Joseph  
 Tochtermann, J. Herbert  
 Tonneson, Elmer Everett  
 Trowbridge, Aldus Stone  
 Twombly, Gertrude L.  
 Underhill, Jesse Johnson  
 Wattie, Alice

Weagle, Fred L.  
 Whalen, Annie Agnes  
 Wilkins, Austin E.  
 Williams, Gladys Edna  
 Youlden, Eleanor M.  
 Young, Florence Elizabeth  
 Zorolow, Mary

### Southern.

Armstrong, Bessie M.  
 Babcock, Adelbert  
 Backer, Samuel  
 Backus, Aileen Elizabeth  
 Bannister, Leo William  
 Barrett, Joseph Francis  
 Bertelli, Ada Maria  
 Bertucci, Rena E.  
 Bianchino, Alexander A.  
 Blacker, Frederick J.  
 Borges, Irene Evelyn  
 Boyd, Maxwell Delmore  
 Brennan, Joseph Thomas  
 Bresnahan, Elizabeth Cecelia  
 Burke, Clarence A.  
 Burke, Esther  
 Caless, Jesse A.  
 Calzolari, Ada Anna  
 Catanzano, Frances  
 Chase, Kenneth William  
 Chequer, Henry, Jr.  
 Cipriano, George  
 Clark, Marian Jobson  
 Cole, James Joseph  
 Conwell, Charles Brewster  
 Courtney, Katherine Marie  
 Cremen, Edmund M.  
 Crispo, Marie I.  
 Crocket, Elizabeth A.  
 Cronin, Teresa Loretta  
 Crotty, William Joseph  
 Crowell, Ethel B.  
 Dagnino, Julia Rena  
 Dempsey, William P.  
 Deroo, Walter C.  
 DeRosa, Ralph  
 Dick, Gladys Edna  
 Dinelli, Enes R.  
 Dirlam, Arland Augustus  
 Dodge, William Franklin  
 Dolan, Helen Nora  
 Dole, Frank Sidney  
 Donovan, Mary Agnes  
 Doyle, M. Louise  
 Dunleavy, Margaret L.  
 Eddy, Eva Maverette  
 Edgar, Doris Marjory

Erb, Marion Gladys  
 Ernst, Alice E.  
 Fantelli, John Leo  
 Farrell, George A.  
 Farrell, Mary  
 Feeney, Andrew C.  
 Fermoye, Leo Joseph  
 Fish, Beatrice Munroe  
 Flanagan, Loretto Anita  
 Flinn, Lillian F.  
 Franzosa, Antoinette  
 Frazee, Olive Whitney  
 Fuller, Douglas B.  
 Galley, Huldah B.  
 Gannon, Richard  
 Garrity, Ruth Elinor  
 Gaspar, Margaret Jean  
 Gauthier, Celia B.  
 Gosse, Edward L.  
 Gray, Alice Mildred  
 Gray, June A.  
 Haley, Francis J.  
 Hamilton, Helen Elizabeth  
 Harer, Josephine Louise  
 Hunter, Henrietta  
 Hurley, Harry N.  
 Johnson, Sara V.  
 Johnstone, Jessie M.  
 Kaitz, Maurice  
 Kaplan, Sophie E.  
 Kavoghian, Victoria A.  
 Keane, James Henry  
 Keefe, Helen Louise  
 Kennedy, Dorothy Carolyn  
 Lane, Helen A.  
 Lemos, Anthony P.  
 Leyden, John F.  
 Litwin, Sanford  
 Long, Myrtle M.  
 Luurtsema, George W.  
 MacFadyen, Florence Olive  
 MacFadyen, Lois Evedyn  
 MacLachlan, Annie T.  
 Mahoney, Elizabeth Rita  
 Mahony, Julia Veronica  
 Main, Ruth J.  
 Maloney, John Francis

McCann, Mary Agnes	Quinn, Annie Agnes
McCarthy, Anna Elizabeth	Ralston, Hazel Mae
McCarthy, Paul Leonard	Reidy, John G.
McFarland, Henry Joseph	Ring, Mary E.
McGlone, Joseph Thomas	Roberts, Morris
McMahon, Josephine Marie	Rodwell, Helen Frances
Marble, Lawrence Clifton	Rouffa, Jennette
Martin, Edward A.	Rowell, Parker C.
Martin, Howard A.	Sampson, Catherine E.
Martin, James E.	Sandberg, Elsa Mildred
Mazzuckelli, Flora Rita	Seifen, Arthur Francis
Meyer, Alice Sanborn	Serson, James Charles
Milne, Edna Mary	Shea, Robert F.
Moody, S. Esther	Simmons, Frederick Burge
Motherway, Catherine M.	Singleton, Charles Milton
Motherway, Mary T. R.	Sliney, John E.
Murphy, Frances M.	Smith, Richard M.
Murphy, John C.	Smithers, Winifred M.
Murray, Phyllis Agatha	Spencer, Georgiana
Myerson, Samuel	Sullivan, Daniel Francis
Naiman, Anna G.	Tashjian, Martin H.
Needel, Sadie B.	Torri, Mary Frances P.
Nesbitt, Mary Ewing	Trask, Marjorie Mae
O'Connell, Daniel Joseph	Venot, Wilhelmina L.
O'Connor, John J.	Walsh, Mary Charlotte
O'Loughlin, Helen G.	Waters, Catherine Winnifred
O'Neill, James Vincent	Watson, Harold Clayton
Orrell, Grace Lillian	Westlund, Doris H.
Owens, Joseph L.	Whyte, Chester G.
Phillips, Dexter C.	Wilson, Ernest Herbert
Pirani, William	Wilson, Richard Trenholm
Pollock, Herbert Everett	Witham, Lillian E. F.
Pomphret, Margaret Mary	Wombolt, George
Pretty, Marion L.	Works, Melvin Ford
Price, John Harold	Yunker, Madeline M.
Quigley, James William	

**Western.**

Ahern, Isabel J.	Brown, Doris Isabell
Albano, Josephine A.	Bullard, Isaiah
Albertini, Paul Flanders	Campbell, Charles A.
Aldrich, Willard Carl	Carlson, Alice V.
Alexander, Wallace B.	Carlson, Clarence W.
Amyrald, Ross H.	Carlson, C. Henry
Anderson, Thelma Marie	Carlson, Gladys
Baker, Doris	Casassa, Ada J.
Baker, Iva R.	Casassa, S. Mary
Barden, M. Carmelita	Chapin, Marion L.
Beaver, Mary A.	Chapin, Theodore C.
Bennett, Charles M.	Clark, Frances
Benson, Walter H.	Cox, John E.
Bettencourt, Joseph M.	Cross, Irving E.
Blake, Florence Alfreda	Crowe, Florence Edna
Blood, Harry K.	Cunningham, Helen
Boyce, Gladys M.	Currier, Marjorie F.
Brooks, Arthur Forrest	Custer, William Clarke
Brooks, John A.	Daggett, Lawrence L.
Boyd, Alfred Alonzo	Danforth, Horace A.

Delaney, Edwin L.  
 Dempsey, Frances E.  
 Devlin, Josephine M.  
 Dingwell, Irene Elizabeth  
 Donovan, Robert F.  
 Downs, Blanche Eldridge  
 Drew, Dorothy Elizabeth  
 Dunn, Gwendolyn H. M.  
 Dunning, Marion G.  
 Dwyer, Edward J.  
 Earl, Edwin  
 Edwards, Helen  
 Ellis, Walter C.  
 Emery, Edith  
 Englund, Doris Louise  
 Farnum, George Wesley  
 Fermoyle, Laurena M.  
 Field, Janet A.  
 Fisher, Dorothy M.  
 Fleming, Raphael J.  
 Fontana, Frank  
 Fontana, Mary E.  
 Forbes, Albert Gardner  
 Ford, Sumner Maxwell  
 Frazier, Kenneth Chabot  
 Freeze, Rhona M.  
 Garland, Chester P.  
 Geer, Eleanor P.  
 Girard, Arline  
 Goduti, Elda  
 Gordon, Dorothy  
 Gore, Marion E.  
 Gorrill, Frances L.  
 Graham, Hugh Haliday  
 Grinnell, Donald Curtis  
 Grout, Helen Frances  
 Grush, Russell Benjamin  
 Guinasso, George F.  
 Hakesley, Edward R.  
 Haskell, Raymond A.  
 Hassett, John W.  
 Hathaway, William Taber  
 Heald, Paula Dorothy  
 Hesse, Marian Juliet  
 Higgins, Lincoln C.  
 Hodgkins, Alice Mary  
 Hopkins, Stephen Joseph  
 Jackson, John Philip  
 Jillette, Arthur G.  
 Johnson, Genevieve E.  
 Jordon, Earle Channing  
 Jordon, Thelma L.  
 Jordon, Viola Frances  
 Keddy, Roma Blanche  
 Kelson, Florence I.  
 Kennedy, Grace Edith  
 Kilcoyne, Florence Louise  
 LeDuke, Eleanor Huntress  
 Leslie, Eli Hillson  
 Lewis, Helen C.  
 Lindberg, Edward R.  
 Lofgren, Edith R.  
 Lynd, Alice  
 Macphail, Ethel J.  
 MacPhee, Mildred  
 Marshall, Helen Catherine  
 Marshall, Pauline W.  
 Marvin, Lydia C.  
 McCobb, Edna K.  
 McKinnon, Muriel Marie  
 Mekkelsen, Maurice N.  
 Miller, Annie Frances  
 Montuori, Angelo  
 Moore, Edith Constance  
 Moore, Edith Louise  
 Morse, David W.  
 Murrell, Franklin H.  
 Nagle, Margaret A.  
 Nichol, Mary Scott  
 Nilson, Irene Caroline  
 O'Brien, Maurice Joseph  
 O'Hayre, John J.  
 Osborn, Florence G.  
 Owens, George E.  
 Packard, Dorothy G.  
 Pappas, John C.  
 Pappas, Mary C.  
 Parker, Marjorie Weston  
 Paulson, Rudolph B.  
 Peak, Genevieve Howard  
 Pearson, Hilding Richard  
 Peters, Leslie Joseph  
 Peterson, Gladys R.  
 Peterson, Philip L.  
 Phillips, Marion Arline  
 Phillips, Leonard H.  
 Pickard, Dorothy K.  
 Pigott, Florence Jessie  
 Pitts, Clifford Francis  
 Plummer, Inez V.  
 Powell, Agnes Mildred  
 Pride, Alice W.  
 Putnam, Roy F.  
 Quarnstrom, Ralph H.  
 Reavis, Richard P.  
 Record, Phoebe H.  
 Reed, Milton J.  
 Ricker, Ethel Rosamond  
 Riess, Warren A.  
 Riley, Doris J.  
 Robinson, Marjorie L.  
 Ross, Blanche M.  
 Ryan, Margaret  
 Scott, Esther D.  
 Simpson, M. Lincoln  
 Smith, Gladys I.  
 Smith, Herbert Pratt

Stark, Mabel C.	Walker, Edna M.
Stern, Evelyn G.	Walker, Ethel Gladys
Stevens, Robert Nichols	White, Vida C.
Stodder, Williston F.	Whitman, Vera H.
Symonds, Frances Elizabeth	Whitten, George J.
Sylvester, Robert W.	Wickerson, Stuart A.
Tarbell, Charles Stuart	Wilbur, Florence
Thompson, Arline Annie	Wilde, Franklin
Thyne, Mary E.	Wilkins, Florence Evelyn
Ticehurst, Alvin R.	Wilkins, Malcolm C.
Timpe, Rudolph G.	Wilson, Kenneth I.
Tinker, Foster M.	Williams, Daniel Francis
Tobin, Helen Barbara	Young, Christine A.
Todd, Marion Evelyn	Young, Florence Ednah
Tottle, Kenneth Peter	Yacubian, Levon M.
Truesdale, Ruth Greenwell	Zwicker, Kathleen V.
Twitchell, Virginia E.	

**LIST OF HIGH SCHOOL NINTH GRADE PUPILS PROMOTED TO  
THE TENTH GRADE JUNE, 1919.**

Aikins, Hilda M.	Clouther, Veneta M.
Allen, E. Jean	Coakley, Ruth E.
Allen, Hesper J.	Colcord, Charlotte A.
Andelman, Bertha	Collins, Ruth A.
Andersen, Mary C.	Conley, Elizabeth M.
Andrews, Lillian	Connolly, Marguerite
Ashton, Elizabeth C.	Connor, Bertha M.
Barnes, Gertrude Rita	Connors, Lauretta A.
Barrett, Beatrice A.	Cooper, Elizabeth
Barton, Goldie	Cox, Irene M.
Beedle, Eleanor	Coyne, Catherine G.
Berman, Angelina	Crosby, Jeannette C.
Berman, Bessie A.	Crosby, Paula Q.
Berra, Mary A.	Cutler, Mable E.
Bertelsen, Elsie	Cutler, Ruth A.
Bingham, Beatrice H.	Damery, Marie B.
Birchdale, Irene A.	Davis, E. Natalie
Boggs, Adelaide	Day, Emily A.
Brannen, Norma D.	Dearborn, Mildred V.
Bratton, Helen	Dearborn, Olivia M.
Briggs, Gladys M.	Delaney, Doris M.
Brine, Helen G.	DeMita, Mary B.
Bronstein, Ida	Desmond, H. Ruth
Brown, Mary B.	Desmond, Mary A.
Buckley, Olive A.	DeWitt, Marion L.
Burns, Helen C.	Dillman, Ida F.
Burton, Hazel M.	Dodge, Marian L.
Calderoni, Isabelle B.	Doherty, Julia A.
Callahan, Irene M.	Donahue, Margaret A.
Carlson, Ruth L.	Donovan, Helen T.
Carlson, Viola E.	Douglas, Catherine W.
Carpenter, Mildred	Downing, Alice M.
Casey, Eleanor B.	Doyle, Jennie A.
Casey, Evelyn M.	Drew, Ruth M.
Casey, Jennie M.	Drowns, Dorothy O.

Duffy, Marguerite  
 Dunne, Ethel L.  
 Dutton, Gladys E.  
 Dyas, Ruth  
 Edwardes, Aurora S.  
 Estabrook, Elsie L.  
 Farrell, Carita M.  
 Farrington, Irma C.  
 Ferguson, Doris M.  
 Fishlin, Eva  
 Fogarty, Grace F.  
 Foley, F. Ethel  
 Freeman, Laura M.  
 French, Mildred E.  
 Fuller, Grace H.  
 Gallagher, Anna L.  
 Garey, Ruth G.  
 Garland, Helen I.  
 Gassett, Ina M.  
 Getchell, Helen M.  
 Gethin, Martha L.  
 Gibson, Lois P.  
 Gilman, Annie  
 Gilmore, Hazel D.  
 Giragosian, Zabelle K.  
 Goguen, Florence M.  
 Gordon, Dorothy  
 Gould, Lillian E.  
 Grant, Orrie B.  
 Grue, Anna G.  
 Guelfi, Renetta A.  
 Hailwood, Natalie C.  
 Haley, Catherine T.  
 Hall, Bernice A.  
 Hampton, Marie L.  
 Hanna, Florence G.  
 Harmon, Edith M.  
 Haskell, Priscilla G.  
 Hasselgren, Lillian  
 Hatch, Dorothy M.  
 Hatch, Lola  
 Hatchett, Helen G.  
 Havican, Nora L.  
 Hayden, Ida M.  
 Hayden, Sarah A.  
 Henderson, Dorothy M.  
 Herlihy, Mary  
 Hickey, Alice A.  
 Hill, Lillian M.  
 Holbrook, Janette A.  
 Holland, Mary E.  
 Holman, Bernice G.  
 Holmes, Olive E.  
 Holyoke, Florence B.  
 Hoole, Helen G.  
 Horne, Agnes  
 Howard, Helen J.  
 Howard, Marjorie E.  
 Hubbard, Arline G.  
 Huey, Winifred M.  
 Hunter, Doris V.  
 Hurd, Bertha M.  
 Hurwitz, Ruth M.  
 Irving, Edna M.  
 Irwin, Doris M.  
 Ivaska, Mildred J.  
 Jaques, Lillian F.  
 Jillette, Flora B.  
 Johansen, Victoria A.  
 Johnson, Florence H.  
 Johnson, Irene E.  
 Johnson, Marion E.  
 Johnson, Ruth M.  
 Johnson, Viola M.  
 Jones, Dorothy A.  
 Jones, Edith H.  
 Jones, Olive L.  
 Jones, Thelma A.  
 Kamemori, Haru A.  
 Keating, Anna E.  
 Keefe, Helen M.  
 Keith, Mildred W.  
 Kelleher, Catherine C.  
 Kelliher, Mary H.  
 Kelly, Josephine A.  
 Kenney, Marie E.  
 Kenney, Marie P.  
 King, Mary C.  
 Kopf, Dorothea W.  
 Laird, Marion E.  
 Lally, Rita D.  
 Lamborghini, Angelina  
 Larson, Edith E.  
 Leavitt, Ethel J.  
 Leavitt, Ruth E.  
 Lewis, Bertha M.  
 Lewis, Mary L.  
 Linardy, Margaret M.  
 Lincoln, Helena R.  
 Linderholm, Helen L.  
 Linfield, Marion P.  
 Lipkind, Rose D.  
 Long, Katharine F.  
 Luurtsema, Josephine G.  
 Lyons, Bessie C.  
 Lyons, Marion L.  
 Lyons, Mary M.  
 MacDonald, Dorothy A.  
 MacKay, Allaire  
 MacKay, Nellie M.  
 MacKenzie, Katherine  
 MacKillop, Mary E.  
 MacLaughlin, Hazel R.  
 Magnusson, Anna M.  
 Malloy, Cecelia F.  
 Manley, Bernice A.  
 Manning, Helen P.



Mannion, Grace E.  
 Mara, Agatha L.  
 Martin, Elinor P.  
 Mason, Helen V.  
 Mauch, Ida D.  
 McCabe, Kathleen C.  
 McCarthy, Catherine R.  
 McCloud, Myrtle M.  
 McDermott, Helen E.  
 McDonald, Marjorie  
 McDowell, Jessie A.  
 McGoldrick, Florence E.  
 McGoldrick, Margaret R.  
 McGrath, Alice L.  
 McIsaac, Anna C.  
 McKenna, Margaret  
 McLaughlin, Mary R.  
 McLennan, Catherine L.  
 McLeod, Evelyn L.  
 McLoud, Barbara C.  
 McNamara, Mary A.  
 McNamara, Winnifred C.  
 McQueeney, Margaret F.  
 McSweeney, Margaret M.  
 Merritt, Edna G.  
 Meskell, Catherine C.  
 Metcalf, Elizabeth A.  
 Milliken, Mildred L.  
 Mongan, Agnes  
 Moore, Doris V.  
 Moore, Margaret A.  
 Moore, Marguerite E.  
 Moran, Mary F.  
 Morgan, Kathryne H.  
 Morrell, Helen A.  
 Mowers, Charlotte T.  
 Mueller, Gertrude D.  
 Muller, Wilhelmine  
 Murljacich, Helen M.  
 Murphy, Alice M.  
 Murphy, Frances H.  
 Murphy, Lucy E.  
 Murphy, Mary G.  
 Murray, Hazel M.  
 Murray, Margaret F.  
 Nangle, Lillian V.  
 Nesbit, Ruth W.  
 Newton, Elizabeth  
 Nickerson, Mildred E.  
 Norton, Agnes M.  
 O'Brien, Helen T.  
 O'Lalor, Catherine  
 O'Leary, Anna T.  
 O'Neill, Mary A.  
 Parker, Bernice F.  
 Parker, Ruthven C.  
 Pearson, Vera L.  
 Pelrine, Lillian  
 Pendleton, Mary E.  
 Perrins, Helen B.  
 Phalan, Annie  
 Phillips, Gertrude C.  
 Pickernell, Mildred A.  
 Pike, Elizabeth B.  
 Powell, Irene E.  
 Preble, Frances B.  
 Priest, Mary C.  
 Purnell, Dorothy F.  
 Rideout, Eleanor G.  
 Risdon, Martha K.  
 Robbins, Selina A.  
 Roche, Mary V.  
 Ronan, Anna M.  
 Ronan, Julia A.  
 Rood, O. Mary  
 Rush, Margaret E.  
 Russell, Alice C.  
 Ryan, Madeline D.  
 Ryder, Lucia M.  
 Sadlier, Mary L.  
 Sadlier, Nellie C.  
 Savary, Olive D.  
 Scanlon, Eleanor H.  
 Scanlon, Mary A.  
 Seidman, May L.  
 Seya, Senta H.  
 Seymour, Olive L.  
 Sliney, Mary A.  
 Smith, Ruth  
 Snow, Arline S.  
 Snow, Ida T.  
 Spooner, Katherine R.  
 Sprague, Dorothy M.  
 Staples, Lillian M.  
 Stevens, Helen F.  
 Strout, E. Leola  
 Sullivan, Anna V.  
 Sullivan, Louise M.  
 Tarkka, Bertha  
 Taylor, Edith  
 Terozowski, Florence M. A.  
 Tholander, Alta S.  
 Thompson, Grace L.  
 Thornton, Anna S.  
 Tomlinson, Grace M.  
 Toomey, Margaret E.  
 Tracey, Gertrude H.  
 Travaglia, Mary C.  
 Turnbull, Evelyn A.  
 Tyler, Sada M.  
 Van Buskirk, Merna P.  
 Walsh, Katherine Ann  
 Walton, Harriet H.  
 Waters, Mabel C.  
 Weeks, Dorothy M.  
 Wellington, Gladys M.  
 Wessells, Bessie L.  
 Westland, Mildred L.

Whalen, Louise M.  
 White, Helen M.  
 Wiggin, Corinne R.  
 Wiggins, Catherine E.  
 Williams, Dorothy  
 Williams, Leah A.  
 Wright, Emily R.  
 Wright, Evelyn F.  
 Young, Grace H.  
 Young, L. Marion  
 Young, Louise A.

Adams, Henry H.  
 Adams, Mountfort  
 Albrecht, Fritz J.  
 Akerley, Harold W.  
 Anderson, Paul J. A.  
 Apel, George E.  
 Austin, Alexander J.  
 Bacigalupo, Edward J.  
 Bennett, H. Paul  
 Bergen, Peter J.  
 Bird, James P.  
 Bloom, Morris  
 Bloomer, John J.  
 Bowe, John P.  
 Bowman, John H.  
 Breckenridge, Walter N.  
 Brown, Walter  
 Bryans, William R.  
 Buckley, Robert  
 Bush, Norman C.  
 Caldarone, Joseph J.  
 Cameron, Arthur S.  
 Canniff, William J.  
 Caplis, Oliver P.  
 Chipman, Robert G.  
 Clark, Herbert R.  
 Collins, George F.  
 Connell, Chester D.  
 Connolly, Joseph F.  
 Conway, Clarence A.  
 Crandell, Frank J.  
 Crouse, Archie W.  
 Crumby, Fred H.  
 Curley, William M.  
 Currier, Reynold A.  
 Daniels, Charles G.  
 DePadua, Alfred J.  
 Dewar, Russell K.  
 Di Silva, Joseph  
 Dodge, Leonard F.  
 Dolben, Alfred H.  
 Donnelly, Leonard C.  
 Dresser, Herbert A.  
 Duffee, Joseph J.  
 Dunn, Brian

Dunning, Robert H.  
 Durgin, Charles T.  
 Ellis, Chester F.  
 Ellison, John H.  
 Elis, Ralph W.  
 Falvey, Daniel P.  
 Ferris, J. Edward  
 Fleming, Thomas J.  
 Flynn, Joseph J.  
 Forest, George L.  
 Francis, Chester S.  
 Freeman, Harold P.  
 Fuller, Malcolm R.  
 Fullerton, George F.  
 Gee, Frank A.  
 Gilliatt, William H.  
 Gillon, Clifford J.  
 Goggin, Harold J.  
 Golden, Leo  
 Gonia, Walter H.  
 Goodwin, Whitman G.  
 Graham, Robert L.  
 Grant, E. Allison  
 Gregory, Maynard R.  
 Grinnell, Kenneth F.  
 Grue, Joseph L.  
 Hallion, Richard P.  
 Hammond, Lloyd  
 Hamford, F. Paul  
 Hanni, George E.  
 Hanzlik, Otis H.  
 Harkins, Bernard  
 Hart, Murray B.  
 Hedberg, Alf N.  
 Held, Albert  
 Herlihy, Thomas C.  
 Hicks, Carlton S.  
 Hill, Carroll  
 Holden, George W.  
 Hubert, Walter J.  
 Hurwitz, Alfred W.  
 Johnston, Peter  
 Keely, James E.  
 Kernzkoski, Joseph A.  
 King, Melvin C.  
 Lane, Harold J.  
 Lawlor, J. Warren  
 Littlefield, Elmer L.  
 Lounsbury, Frank L.  
 Macdonald, George A.  
 MacGillivray, Thomas R.  
 Marchant, Alvin C.  
 Marmaud, James L.  
 Marston, Roger  
 Martin, Russell S.  
 McCarthy, Lawrence  
 McCarthy, William T.  
 McGilvray, Donald C.  
 McGrath, James Elmer

McKenzie, James S.	Runcy, Francis A.
Meaney, Stephen J.	Runey, Francis E.
Meskill, John M.	Russell, John R.
Miner, Clinton E.	Sahlin, Carl E.
Morrow, John A.	Sampson, Carleton P.
Moulton, Irving M.	Sandstrom, Ernest W.
Mulvey, George E.	Sexton, Bernard J.
Murphy, Harold J.	Sharkey, George A.
Nichols, Charles G.	Sharkey, James A.
Norris, Edmund T.	Shea, Robert A.
Nowell, Carl B.	Sibley, Alfred E.
O'Connell, Henry J.	Siegel, Louis
O'Connell, John M.	Smith, Tracy
O'Hanian, Nishan	Snyder, Raymond S.
O'Hara, John F.	Spering, Edward F.
O'Neill, Jeremiah L.	Sprague, Herbert B.
O'Neill, John J.	Stack, Arthur E.
Owens, Chester F.	Stack, William R.
Parker, Paul E.	Stackpole, Irving L.
Parkhurst, Chandler	Stanley, Wilbur G.
Peacon, Carroll	Stevens, Howard C.
Phillips, H. Woodman	Stevens, William
Pierce, Winslow H.	Stewart, James S.
Pike, Andrew F.	Sullivan, Richard J.
Porter, Franklin W.	Sumner, John K.
Powers, James W.	Swenson, Arthur S.
Prescott, Ronald C.	Tadgell, Henry A.
Price, Herman	Teague, Charles B.
Purtell, Joseph B.	Thiesfeldt, Henry A.
Quail, Harold C.	Thorne, Lester A.
Quinn, Henry V.	Ticehurst, Lawrence E.
Rauh, Robert D.	Towle, F. Martin
Reed, Nathan E.	Tremblay, Joseph
Rice, Earl G.	Tribe, Donald B.
Rice, Harry E.	Tribon, Francis L.
Ring, Gerald D.	Tutein, Warren
Roberts, Lawrence C.	Vinal, Albert F.
Robertson, Raymond A.	Waite, Don
Robinson, Benjamin	Wallace, Raymond H.
Robinson, Charles	Warren, Frederick R.
Robinson, Walter V.	Watkins, Arthur E.
Rogers, Lemuel J.	Wells, Irving D.
Rosenthal, Edward A.	Whitman, Herbert L.
Rowe, Homer A.	Wolf, Kenneth J.
Rowe, John H.	Woodworth, Arthur W.

TABLE 27. — VOCATIONAL SCHOOL GRADUATES.

## Vocational School for Boys.

Begin, Raymond J.	Murphy, John F.
Crosby, John F.	Nelson, Ivan E.
Fraser, Lester F.	Roach, Stephen F.
Lavender, Harold B.	Turgiss, William W.
McKay, James F.	

**Vocational School for Girls.**

Gilman, Carolyn Jeane  
Hartley, Mary Agnes  
McDowell, M. Doris  
McKay, Lillian Eliza  
Mehigan, Elizabeth Rita

Prescott, Evelyn Grace  
Prest, Dorothy F.  
Simmons, Blanche Elliott  
Stevens, Florence Helen

Table 28. — Organization of School Board, 1920.  
School Committee.

HERBERT CHOLERTON . . . . .	Chairman
WILLIAM M. MORRISON . . . . .	Vice-Chairman

## Members.

## EX-OFFICIIS.

CHARLES W. ELDRIDGE, Mayor,	47 Highland road.
RICHARD L. RICE, President Board of Aldermen,	296½ Broadway.

## WARD ONE.

FRANCIS J. FITZPATRICK,	76 Broadway.
WILLIAM T. MCCARTHY,	38 Pearl street.

## WARD TWO.

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

## WARD THREE.

CHARLES W. BOYER,	104 Summer street.
OSCAR W. CODDING,	59 Vinal avenue.

## WARD FOUR.

FRANK M. HAWES,	257 School street.
EDWARD I. TRIPP,	21 Wigglesworth street.

## WARD FIVE.

HARRY M. STOODLEY,	283 Highland avenue.
MISS MINNIE S. TURNER,	64 Hudson street.

## WARD SIX.

WALTER I. CHAPMAN,	18-A Central street.
WILLIAM M. MORRISON,	97 Rogers avenue.

## WARD SEVEN.

HERBERT CHOLERTON,	94 College avenue.
PAUL O. CURTIS,	41 Mason street.

## 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 hour is 4 o'clock on school days, and 8:30 on Saturdays.

## Assistant Superintendent of Schools.

JOSEPH A. EWART.

Residence: 11 Bigelow street.

Office hour: 4 o'clock on school days, and 8:30 on Saturdays.

Superintendent's office force:—

Mary A. Clark, 42 Highland avenue.

Mary A. Clark, 42 Highland avenue.

H. Madeline Kodad, 1067 Broadway.

Arline P. Hall, 189 Pearl street.

## Board Meetings.

January 26.	April 26.	September 27.	December 24.
February 23.	May 31.	October 25.	December 31.
March 29.	June 28.	November 29.	

8:15 o'clock.

**Table 28. — Organization of School Board, 1920. — Concluded.  
Standing Committees.**

Note. — The member first named is chairman.

District I. — McCarthy, Fitzpatrick, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Muldoon, Bradley, Coddling.

KNAPP, PERRY, BAXTER.

District III. — Coddling, Boyer, Fitzpatrick.

POPE, CUMMINGS.

District IV. — Hawes, Tripp, Miss Turner.

EDGERLY, GLINES.

District V. — Stoodley, Miss Turner, Hawes.

FORSTER, BINGHAM.

District VI. — Morrison, Chapman, Stoodley.

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

District VII. — Cholerton, Curtis, Morrison.

HIGHLAND, CUTLER, LINCOLN, LOWE.

High School. — Bradley, Hawes, Fitzpatrick, Coddling, Stoodley, Morrison, Cholerton.

Finance. — Stoodley, Bradley, Fitzpatrick, Coddling, Tripp, Morrison, Cholerton, Eldridge, Rice.

Text-Books and Courses of Study. — Muldoon, Miss Turner, McCarthy, Boyer, Tripp, Chapman, Curtis.

Industrial Education. — Tripp, Boyer, Fitzpatrick, Muldoon, Miss Turner, Chapman, Curtis.

School Accommodations. — Coddling, Chapman, McCarthy, Bradley, Hawes, Stoodley, Cholerton, Eldridge, Rice.

Teachers. — Cholerton, Muldoon, Coddling, Miss Turner, Morrison.

Health, Physical Training and Athletics. — Morrison, Curtis, McCarthy, Muldoon, Boyer, Tripp, Stoodley.

Rules and Regulations. — Hawes, McCarthy, Bradley.

TABLE 29. — TEACHERS IN SERVICE, JANUARY, 1920.

Name and Residence	Salary.	Began Service.
HIGH SCHOOL.		
Central Hill.		
John A. Avery, Head Master, 22 Dartmouth Street	\$4,100	1895
Everett W. Tuttle, Vice-Head Master, 62 Highland Avenue	2,850	1895
Frank H. Wilkins, Master, 93 Raymond Avenue	2,700	1906
John L. Hayward, Master, 242 School Street	2,500	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands	2,600	1901
William W. Obear, Master, 86 Belmont Street	2,600	1906
George M. Hosmer, Sub-Master, 13 Arlington Street	2,300	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton	2,300	1906
John M. Jaynes, Sub-Master, 89 Oxford Street	2,300	1901
Guy C. Blodgett, Sub-Master, 125 Lexington Street, Woburn	2,300	1910
Arthur N. Small, Sub-Master, 11a Harvard Street	2,300	1916
Fred W. Carrier, Sub-Master, 84 Walnut Street, Winchester	2,100	1915
Wallace S. Hall, Norfolk, Mass.,	2,100	1919
Irving P. Colman, Sub-Master, Greenbush	1,900	1915
Stephen H. Mahoney, Sub-Master, 10 Oxford Street	2,300	1914
Albert O. Plantinga, 83 Park Street, Melrose	2,000	1918
Lester W. Dearborn, Sub-Master, 78 Josephine Avenue	1,900	1914
George E. Pearson, Sub-Master, 325 Highland Avenue	1,900	1914
George S. McLaughlin, 14-A Cottage Avenue	2,000	1919
Leander T. DeCelles, 46 Ware Street	1,500	1919
A. Marion Merrill, Sub-Master, 2 Madison Street	1,950	1895
Helen L. Follansbee, Sub-Master, 40 Vinal Avenue	1,950	1900
Frances W. Kaan, Assistant, 133 Central Street	1,750	1882
Mrs. Lena Gilbert, Assistant, 7 Kingston Street	1,650	1892
Harriet E. Tuell, Assistant, 40 Vinal Avenue	1,800	1899
Elizabeth Campbell, Assistant, 112 Summer Street	1,800	1902
A. Laura Batt, Assistant, 2 Madison Street	1,800	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington	1,800	1895
Clara A. Johnson, Assistant, 177 Central Street	1,700	1897
Elizabeth H. Hunt, Assistant, 529 Newbury Street, Boston	1,650	1908
Blanche S. Bradford, Assistant, 163 Summer Street	1,650	1903
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge	1,650	1908
Mrs. Lucy I. Topliff, Assistant, 69 Cypress Street, Brookline	1,700	1914
Eudora Morey, Assistant, 121 St. Stephen Street, Boston	1,600	1874
Ella D. Gray, Assistant, 147 Walnut Street	1,550	1901
Grace Gatchell, Assistant, 48 Vinal Avenue	1,600	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge	1,700	1908
Edith L. Hurd, Assistant, 125 Central Street	1,600	1910
*Julia T. Connor, Assistant, 59 Church Street	1,600	1910
Esther Parmenter, Assistant, Lynnfield Centre	1,550	1911
Annie C. Woodward, Assistant, 2 Madison Street	1,700	1906
Alice A. Todd, Assistant, 82 Munroe Street	1,550	1913
Ella W. Bowker, Assistant, 2 Hillside Avenue	1,600	1911
Florence L. McAllister, Assistant, 23 Wallace Street	1,550	1913
Laura R. Cunningham, Assistant, 62 Highland Avenue	1,550	1914
Ruth A. Davis, Assistant, 44 Benton Road	1,550	1914

\*Leave of absence.

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.	Salary.	Began Service.
Julia A. Haley, Assistant, 88 Prospect Street	\$1,450	1913
Mary C. Smith, Assistant, 117 Prospect Street	1,550	1916
Gladys L. Swallow, Assistant, 15 Pleasant Avenue	1,450	1916
Alfreda Veazie, Assistant, 193 Linden Street, Everett	1,500	1916
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue	1,450	1916
B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury	1,350	1916
Ruth E. Low, Assistant, 58 Central Street	1,550	1913
Ilene C. Ritchie, Assistant, 15 Willoughby Street	1,550	1912
Margaret E. Ford, 83 Brattle Street, Cambridge	1,500	1913
Ella W. Burnham, 40 Vinal Avenue	1,500	1919
Mrs. Cornelia D. Pratt, 112-A Glenwood Road	1,450	1918
Bernice O. Newborg, 12 Hale Avenue, Medford	1,350	1918
Louise M. Saunders, 1 Waterhouse Street, Cambridge	1,500	1919
Mrs. Bessie G. Clarke, Assistant, 28 Highland Avenue	1,500	1919
Gertrude W. Chaffin, 4 Copeland Terrace, Malden	1,450	1916
Ruth L. Ranger, Assistant, 71 Irving Street	1,400	1919
Ruth T. Merritt, Assistant, 102 Gainsboro Street, Boston	1,350	1919
Doris B. Cresto, Assistant, 52 Rush Street	1,100	1919
Elizabeth M. Welch, Asst., 3 Washington Av., Arlington Heights	1,450	1919
Harriet M. Bell, Assistant, 92 Orchard Street, Cambridge	1,600	1904
Matilda C. Wright, Matron, 17 Gibbens Street	1,000	1919
*Edythe L. Miller, Librarian, 10 Sycamore Street	650	1919
Mabell M. Ham, Clerk, 41 Boston Street	1,100	1906

\*Part-time.

## EASTERN JUNIOR HIGH SCHOOL.

## Pearl Street.

Samuel A. Johnson, Master, 91 Central Street	\$2,700	1916
Francis J. Mahoney, Vice-Principal, 16 Parker Street	2,100	1919
Walter W. Newcombe, Sub-Master, 138 Sycamore Street	1,900	1917
Elizabeth M. Warren, 109 Highland Avenue	1,525	1897
Sarah H. Christie, 78 Sycamore Street	1,450	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	1,450	1909
Pertie I. Gray, 228 Broadway	1,450	1917
Ida M. Record, 10 Cambria Street	1,450	1899
Edith L. Laycock, 10 Franklin Street	1,450	1913
Elizabeth J. Mooney, 168 Summer Street	1,450	1904
Catherine Heagney, 32 Sewall Street	1,450	1912
Mary A. Hickey, 41 Sever Street, Charlestown	1,300	1918
Elma Isaac, 32 Richardson Street, Brighton	1,200	1918
Velma B. Strout, 36 Francesca Avenue	1,450	1918
Theresa Morrison, 174 Broadway	1,450	1912
Hazel W. Ruggles, 20 Hawthorne Street, Roxbury	1,400	1918
Helen B. Ryan, 35 Columbus Avenue	1,350	1918
Mrs. Ellen H. Coughlan, 37 Brastow Avenue	1,250	1916
Alice M. McNally, 50 Church Street, Watertown	1,300	1917
Mrs. Constance H. Scherer, 25 Falmouth Street, Belmont	1,450	1917
Kathinka Fessman, 1126 Boylston Street, Boston	1,600	1912
Olive E. Whittier, 78 Sycamore Street	1,450	1918
†Mrs. Grace M. Dorey, 12 North Avenue, Roxbury	1,000	1919

† Temporary teacher.



TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence	Salary.	Began Service.
SOUTHERN JUNIOR HIGH SCHOOL.		
Vinal Avenue.		
George M. Wadsworth, Master, Whitman	\$2,700	1891
Raymond E. Shepherd, Vice-Principal, 16 Grand View Avenue	2,100	1919
Arthur E. Gordon, Sub-Master, 116 School Street	2,000	1918
Melvin T. Carver, Sub-Master, 17 Hubbard Avenue, Cambridge	1,900	1917
Alice L. Davis, 40 Vinal Avenue	1,600	1895
Clara B. Sackett, 91 Summer Street	1,450	1891
Mrs. Blanche G. North, 25 Columbus Avenue	1,450	1893
Mrs. Gertrude W. Leighton, 159 Mill Street, Abington	1,450	1895
Grace T. Merritt, 10 Charnwood Road	1,450	1897
Marie T. Smith-Brandt, 64 Vinal Avenue	1,450	1898
Lilla E. Mann, 76 Highland Avenue	1,450	1902
Mrs. Mary B. Soule, 39 Walnut Street	1,450	1902
Leila L. Rand, 43 Norfolk Road, Arlington	1,450	1906
Rena S. Hezelton, 48 Lawrence Street, Medford	1,450	1909
N. Theresa McCarthy, 9 Centre Street, Woburn	1,450	1909
Edith L. French, 52 Prescott Street	1,450	1912
Emma J. Kennedy, 15 Pleasant Avenue	1,450	1912
Charlotte A. Holmes, 24 Cambria Street	1,450	1899
Ada G. Macdonald, 43 Babcock Street, Brookline	1,450	1914
Esther L. Small, 17 Pleasant Avenue	1,450	1914
Anna J. Coll, 65 Newton Street	1,250	1916
Anna E. McCully, 12 Francis Street	1,250	1916
Ellen M. Burchell, 51 Avon Street	1,400	1918
Annette B. MacKnight, 45 Sawyer Avenue	1,600	1918
F. Antoinette Pratt, 31 Vinal Avenue	1,400	1918
Katherine E. Read, 7 Newman Way, Arlington	1,300	1918
Clarisse L. Tirrell, 51 Avon Street	1,450	1918
Olive M. Brownell, 62 Simpson Avenue	1,400	1919
NORTHERN JUNIOR HIGH SCHOOL.		
Sycamore Street and Evergreen Avenue.		
Frank W. Seabury, Master, 18 Winslow Avenue	\$2,700	1919
Joseph S. Hawthorne, Vice Principal, 233 School Street	2,200	1915
Arthur J. Marchant, Sub-Master, 99 Glenwood Road	2,000	1914
Walter P. Sweet, 215 College Avenue	1,900	1919
Mary I. Bradish, 112 Magoun Avenue, Medford	1,450	1899
Emma G. Blanchard, 146 Massachusetts Avenue, Boston	1,550	1902
Mrs. Mina P. Bickford, 216 Park Street, Medford	1,450	1903
Mary F. Mead, 35 Kidder Avenue	1,450	1905
M. Edna Merrill, 228 Broadway	1,450	1909
Anna R. Walsh, 27 Avon Street	1,400	1914
May A. Daly, 27 Avon Street	1,500	1915
Dorothy A. Chapin, 11 Mystic Street	1,400	1917
Catherine E. Giles, 5 Bradbury Avenue, Wellington	1,200	1918
Ruth C. Harrington, 26 Oak Street	1,400	1918
Mary C. Fox, 28 Linden Street	1,200	1918
Florence R. Gallagher, 16 Otis Street, Medford	1,300	1918
May B. Thompson, 459 Broadway	1,400	1918
Minnie A. Holden, 31 Warren Avenue	1,450	1906
Jane H. Perkins, 9 Winter Hill Circle	1,450	1919
Maud Rose, 53 Albion Street	1,450	1919
Alice M. Patterson, 108 Glenwood Road	1,300	1919
Mrs. Ruth Hawkins, 1673 Cambridge Street, Cambridge	1,400	1919
Gladys F. McDonnell, 25 Bucknam Street, Everett	1,250	1919
Annie G. Merrill, 33 Stuart Street, Everett	1,300	1919
Marie Clifford, 1648 Mass. Avenue, Cambridge	1,450	1907
Mary Donoghue, 80 Porter Road, Cambridge	1,450	1911

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.		Salary.	Began Serv- ice.
WESTERN JUNIOR HIGH SCHOOL.			
Holland Street.			
Arthur L. Doe, Master, 27 Spruce Street, Malden		\$2,700	1896
James S. Thistle, Vice-Principal, 26 Packard Avenue		2,200	1917
John J. McLaughlin, Sub-Master, 84 Inman Street, Cambridge		2,000	1916
Ralph E. Farnsworth, Sub-Master, 26 Glenwood Ave., Camb.		1,850	1918
Charles M. Dunbar, Sub-Master, 8 Dickson Street		1,600	1919
Edith W. Emerson, 135 Central Street		1,600	1896
Sarah E. Pray, 58 Liberty Avenue		1,450	1877
Clara B. Parkhurst, 146 Highland Avenue		1,450	1889
Flora A. Burgess, 3 Crescent Hill Avenue, Arlington		1,450	1894
Alice S. Hall, 135 Central Street		1,450	1896
Edith F. Hersey, 287 Medford Street		1,450	1899
Annie G. Smith, 59 Maple Street, Malden		1,450	1901
Mary L. Bryant, 41 Mason Street		1,450	1903
Mrs. Genieve R. Barnes, Winthrop Chambers, Cambridge		1,450	1905
Florence M. Hopkins, 14 Lowden Avenue		1,450	1907
Elsie M. Ross, 38 Westland Avenue, Boston		1,450	1908
Isabelle M. Brunton, 33 Walnut Street		1,450	1910
Katherine A. Breen, 81 Avon Street		1,450	1912
L. Alice Grady, 19 Billings Avenue, Medford		1,450	1912
Elizabeth R. Henderson, 12 Curtis Avenue		1,450	1912
Marion F. Orne, 43 Fairmount Avenue		1,450	1912
Helen I. Stearns, 106 College Avenue		1,450	1916
Mrs. Mae W. Conant, 68 Wallace Street		1,450	1917
Marcella M. Garrick, 295 Lowell St.		1,200	1917
Blanche Preston, 84 Packard Ave.		1,450	1917
Miriam E. Priest, 6 Hudson Street		1,400	1917
Grace M. Sanders, 131 Main St., Malden		1,300	1917
Geneva C. Tobey, 43 Chelsea St., Everett		1,300	1917
Gertrude E. Tynan, 131 Summer Street, Watertown		1,300	1917
Mabel C. Whitaker, 75 Walnut St.		1,450	1917
Miriam W. Hatch, 65 Walker Street, Cambridge		1,350	1919
Sophia C. Mague, 1766 Washington Street, Auburndale		1,450	1917
Jessie M. Howard, 5 Westwood Road		1,100	1919
Hazel M. Yaegar, 1791 Mass. Avenue, Cambridge		1,550	1919
Helen A. Moran, 483 Medford Street		1,200	1919
Emma M. Damon, 89 Central Street		1,450	1908

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence		Salary	Began Serv- ice.
VOCATIONAL SCHOOL FOR BOYS (Day).			
Davis Building, Tufts Street.			
	Harry L. Jones, Principal, 137 Powder House Blvd.	\$3,300	1914
	Nehemiah E. Gillespie, 28 Worcester Sq., Boston	2,100	1911
	Charles A. Kirkpatrick, 27 Sewall Street	2,000	1913
	H. Ralph Aubin, 6 Oxford Street	1,900	1917
	Roy R. King, 18 Landers Street	1,850	1918
	Phillip J. Heffernan, 13 Pleasant Avenue	1,650	1918
	Benjamin C. Bowman, 102 Walnut Street	1,400	1919
	Leah P. Scholes, Clerk, 6 Sargent Avenue	11.00 per week	1919
VOCATIONAL SCHOOL FOR GIRLS			
High School Building.			
	Mary Henleigh Brown, Prin., 61 Garfield St., Camb.	\$2,200	1911
	†Lucy Dorr, 124 Summer Street	1,450	1911
	Mrs. Vernie T. Neily, 96 Heath Street	1,450	1916
(WILLIAM H.) PRESCOTT SCHOOL			
Grade. Pearl and Myrtle Streets.			
	Samuel A. Johnson, Master, 91 Central St.	.....	1893
4.	Clara Taylor, 36 Flint Street	\$1,450	1871
3.	Elizabeth L. Marvin, 17 Summit Street	1,450	1898
2.	Louise E. Pratt, 40 Greenville Street	1,450	1889
1.	Jeannette M. Hannabell, 166 Highland Avenue	1,450	1917
1.	†Mrs. Grace E. Allen, 271 Summer Street	900	1919
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
	Florence A. Chaney, Master, 7 Westwood Road	.....	1919
5.	Mrs. Agness M. Travis, 100 Park Avenue, Winthrop	\$1,600	1908
4.	Jennie M. Twiss, 67 Berkeley Street	1,450	1903
4.	Maude A. Nichols, 166 Highland Avenue	1,450	1906
3.	Frances E. Robinson, 25 Indiana Avenue	1,450	1908
3.	Mrs. Nellie W. McPheters, 163 Summer Street	1,450	1914
2.	Martha L. Littlefield, 65 Glen Street	1,450	1897
2.	†Ethel H. Werner, 59 Cedar Street	900	1919
2.	Florence M. Shaw, 58 Central Street	1,450	1909
1.	Marion A. Viets, 122 Dale Street, Waltham	1,450	1912
1.	Alice M. Saben, 40 Greenville Street	1,450	1903
1.	†Josephine Lacy, 63 Cherry Street	900	1919
*Kind'n.	Elizabeth J. Baker, 78 Boston Street	1,350	1907
Kind'n.	Gertrude Prichard, 5 Webster Street	1,100	1918
Asst.	A. Frances Harrington, 32 Pearl Street, Medford	550	1919
CLARK BENNETT SCHOOL.			
Poplar and Maple Streets.			
	John S. Emerson, Master, 3 Preston Road	\$2,700	1919
5.	Kate B. Gifford, 66 Highland Avenue	1,600	1902
4.	Eleanor W. Nolan, 81 Benton Road	1,450	1909
4, 3.	Eliza I. Patterson, 14 Lincoln Avenue	1,300	1919
3.	Mrs. Nettie L. Fay, 15 Pleasant Avenue	1,450	1901
2.	Isadore E. Taylor, 36 Flint Street	1,450	1883
2.	Alice A. Tassinari, 94 Beacon Street	1,200	1919
2, 1.	Mrs. Amy F. Woodbury, 183 College Avenue	1,450	1917
1.	Alice M. Hayes, 81 Benton Road	1,450	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	1,450	1906
Kind'n.	Helen E. Harrington, 1675 Massachusetts Ave., Caml	1,350	1912
Asst.	M. Regina Desmond, 3 Oak Street, Charlestown	1,000	1918
Non-Eng.	Mrs. Lillias T. Lawton, 30 King Street, Dorchester	1,450	1913

† Part time.

\* Leave of Absence.

† Temporary teacher.

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.			
Grade	GEORGE L. BAXTER SCHOOL. Bolton Street.	Salary.	Began Service.
	Francis A. Ryan, Master, 25 Stone Avenue	.....	1919
5.	Mary G. Blackwell, Principal, 45 Ibbetson Street	\$1,550	1900
4.	Etta R. Holden, 30 Warren Avenue	1,450	1908
3.	Margaret M. Breen, 461 Somerville Avenue	1,400	1916
2.	Sue A. Fitzpatrick, 451-a Somerville Avenue	1,450	1912
1.	Maria D. McLeod, 78 Larchwood Drive, Cambridge	1,450	1906
Kind'n.	Eleanor A. Connor, 59 Church Street	1,350	1903
Asst.	Martha W. Delay, 48 Beacon Street	1,150	1911
OREN S. KNAPP SCHOOL			
Concord Avenue.			
	Francis A. Ryan, Master, 25 Stone Avenue	\$2,600	1919
	Mrs. Clara B. Donlon, Ayer	1,600	1914
*6.	Nona E. Blackwell, 45 Ibbetson Street	1,450	1906
6.	Winifred I. Macdonald, 43 Babcock Street, Brookline	1,450	1917
6.	Mary G. McCarthy, 246 School Street	1,200	1919
5.	Ellen C. Moynihan, 67 Avon Street	1,450	1919
4.	Eleanor M. Lundgren, 50 Harrison Street	1,300	1919
3.	Agnes C. Riley, 451 Somerville Avenue	1,300	1918
2.	Mrs. Minnie P. Cunningham, 77 Walnut Street	1,450	1891
*1.	M. Edith Callahan, Woburn	1,450	1911
1.	Mary L. Gallagher, 81 Benton Road	1,400	1913
ALBION A. PERRY SCHOOL.			
Washington Street, near Dane Street.			
	Francis A. Ryan, Master, 25 Stone Avenue	.....	1919
6.	Catherine E. Sweeney, Principal, 633 Broadway	\$1,550	1901
5.	Mary A. Mullin, 27 Shawmut Street	1,450	1910
4.	Irene Vincent, 47 Vinal Avenue	1,450	1903
3.	L. Gertrude Allen, 230 Washington Street	1,450	1884
2.	Mrs. Sarah E. Murphy, 120 Rogers Avenue	1,450	1906
1.	Grace R. O'Neil, 347 Washington Street	1,450	1913
CHARLES G. POPE SCHOOL.			
Washington and Boston Streets.			
	Florence A. Chaney, Master, 7 Westwood Road	\$2,300	1919
6.	Alice I. Norcross, 90 Russell Avenue, Watertown	1,600	1885
6.	Harriet M. Clark, 10 Vernon Street, West Medford	1,450	1893
6.	M. Abbie Tarbett, 11 Washington Street, Stoneham	1,450	1906
5.	Marie Higgins, 55 School Street	1,450	1919
5.	C. Edith Taylor, 36 Flint Street	1,200	1917
5, 4.	Lizzie W. Parkhurst, 146 Highland Avenue	1,450	1885
4.	Annie G. Sheridan, 57 Stanley Avenue, Medford	1,450	1886
4, 3.	†Eleanor E. Waldron, 135 Powder House Boulevard	900	1919
3.	M. Katherine Davis, 9 Harvard Place	1,450	1904
3, 2.	Florence E. Locke, 393 Broadway, Cambridge	1,450	1899
2, 1.	Mary J. Dewire, 384 Washington Street	1,400	1913
1.	Alice B. Frye, 12 Champa Avenue, Malden	1,450	1904
(JOHN A.) CUMMINGS SCHOOL.			
School Street, near Highland Avenue.			
	Charles G. Ham, Master, Watertown	.....	1919
4.	Fannie L. Gwynne, Principal, 65 School Street	\$1,550	1886
3.	Katherine M. Fox, 150 Franklin Street, Stoneham	1,450	1896
2.	Elizabeth L. Hersey, 96 Oxford Street	1,450	1896
1.	Mrs. Stella M. Hadley, 11 Greene Street	1,450	1914

\* Leave of absence.

† Temporary teacher.

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.		Salary.	Began Serv- ice.
Grade.	Cross and Bonair Streets.		
(JOHN G.) EDGERLY SCHOOL.			
	Charles E. Brainard, Master, 82 Munroe Street	\$2,700	1889
6.	Edith M. Snell, 4 Vine Street, Melrose	1,600	1900
6.	Annie L. Dimpsey, Hotel Woodbridge	1,450	1891
6.	Mary E. Richardson, 26 Oxford Street	1,450	1893
6.	Isabelle M. Gray, 25 Webster Street	1,450	1897
6, 5.	Mabel C. Mansfield, 26 Oxford Street	1,450	1893
5.	Berta M. Burnett, 1619 Mass. Ave., Cambridge	1,450	1915
5.	G. Hortense Pentecost, 17 Walnut Road	1,450	1905
5.	Myrtle M. Irwin, 41 Putnam Street	1,300	1916
4.	Mrs. Louise S. Weare, Commonwealth Hotel, Boston	1,450	1896
3.	Lillian Nealley, 109 Glen Street	1,450	1882
2.	Alice W. Cunningham, 62 Highland Avenue	1,450	1901
1.	Martha M. Power, 37 Gleason St., West Medford	1,450	1890
JACOB T. GLINES SCHOOL.			
Jaques Street, near Grant Street.			
	Charles E. Brainard, Master, 82 Munroe Street	.....	1919
6.	Margaret A. Orr, 146 Massachusetts Ave., Boston	\$1,600	1890
6.	Harriet F. Ward, 82 Boston Street	1,450	1895
5.	Alice C. Blodgett, 55 Tennyson Street	1,400	1917
5.	Clara D. Eddy, 164 Central Street	1,450	1900
4.	*Florence K. Watkins, 22 Hamilton Road	900	1919
4.	Mrs. Carrie Armitage, 57 Madison Street	1,450	1899
4, 3.	Editha A. Sharkey, 7 Wesley Park	1,200	1919
3.	Florence E. Baxter, 42 Highland Avenue	1,450	1891
3.	Cora J. Demond, 146 Mass. Avenue, Boston	1,450	1900
2.	Edith M. Dow, 58 Central Street	1,450	1914
2.	Florence W. Schroeder, 268 Summer Street	1,275	1915
1.	Leslie Caverly, 9 Wildwood Street, Winchester	1,450	1908
1.	Isabel J. Tift, 109 Highland Avenue	1,450	1892
Asst.	Marguerite Driscoll, 396 Medford Street	900	1919
Kind'n.	Mrs. Etta D. Ellsworth, Trinity Court, Boston	1,350	1897
Asst.	Ida M. Kane, 28 Fellsway West	1,150	1905
(CHARLES) FORSTER SCHOOL.			
Sycamore Street and Evergreen Avenue.			
	Frank W. Seabury, Master, 18 Winslow Avenue	.....	1919
6, 5.	Elizabeth F. Clement, 29 Kidder Avenue	\$1,450	1884
5, 4.	Annie S. Gage, 32 Marshall Street	1,450	1881
3, 2.	Carrie T. Lincoln, 65 Ashland Street, Medford	1,450	1893
2, 1.	Grace Shorey, 23 Forster Street	1,450	1892
(NORMAN W.) BINGHAM SCHOOL.			
Lowell Street, near Vernon Street.			
	Harry F. Hathaway, Master, 29 Albion Street	\$2,700	1890
6.	Elizabeth J. O'Neil, 29 Albion Street	1,600	1894
6.	Maude M. Cunningham, 29 Albion Street	1,450	1913
6, 5.	Jane Batson, 15 Florence Street, Malden	1,450	1900
5.	Helen M. Farr, 4 Oak Street, Belmont	1,275	1915
5.	Elizabeth S. Brown, 58 Thurston Street	1,450	1897
4.	Clara L. Griffiths, 39 Ames Street	1,450	1902
4.	Anna R. Canfield, 205 Cedar Street	1,350	1914
4, 3.	Barbara E. Drummey, 43 Short Street, Marlboro	1,350	1918
3.	Lillian F. Commins, 24 Hanson Street	1,275	1914
3.	Lynda V. Merrill, 26 Brastow Avenue	1,450	1912
2.	G. Marion Lovering, 27 Flint Street	1,400	1913
2.	Priscilla A. Merritt, 96 Oxford Street	1,450	1885
2, 1.	M. Gertrude McCarthy, 36 Brastow Avenue	1,200	1917
1.	Mabel E. Mansir, 77 Albion Street	1,450	1894
1.	Ethel Gross, 8 Fosket Street	1,200	1917

\* Temporary teacher.

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.		Salary.	Began Service.
Grade.	Atherton Street.		
MARTIN W. CARR SCHOOL.			
	Chas. G. Ham, Master, 20 Washburn St., Watertown	\$2,700	1898
6.	Eva S. Bent, 6 Steeves Circle	1,600	1915
6.	Susie L. Luce, 21 Francesca Avenue	1,450	1891
6.	Hazel N. Friend, 6 Steeves Circle	1,450	1915
5.	Lillian T. Haskell, 41 Putnam Street	1,450	1913
5.	Elizabeth S. Foster, 10 Cambria Street	1,450	1895
5.	Dorothy Lundgren, 50 Harrison Street	1,250	1915
4.	Alice M. Cumming, 117 School Street	1,200	1917
4.	Ada C. Tassinari, 94 Beacon Street	1,350	1915
3.	Margaret M. Brennan, 30 School Street	1,200	1917
3.	Bessie I. Berry, 38 Wyllis Avenue, Everett	1,450	1915
2.	Annie B. Russell, 14 Kidder Avenue	1,450	1901
2.	Mary E. Flanley, 9 Avon Street, Wakefield	1,350	1915
1.	Frances E. Welch, 303 Highland Avenue	1,450	1908
1.	Mabel Ingham, 62 Central Street	1,300	1912
(ENOCH R.) MORSE SCHOOL.			
Summer and Craigie Streets.			
	Mina J. Wendell, Master, 211-A Summer Street	\$2,700	1882
6.	Mrs. Harriette C. Hamilton, 68 Wallace Street	1,600	1900
6, 5.	Lennie W. Bartlett, 10 Cambria Street	1,450	1893
5.	Mary A. Whitney, 10 Dow Street	1,450	1916
4, 3.	Eva A. Wilson, 9 Monmouth Street	1,300	1917
3.	Mrs. Agnes C. Rice, 34 Highland Avenue	1,450	1900
2.	Alice C. Ray, 169 Highland Avenue	1,450	1914
2.	Lena Munroe, 211-A Summer Street	1,450	1913
1.	Helen L. Tuck, 43 Paulina Street	1,450	1912
1.	Louise Deady, 84 Bay State Avnue	1,200	1917
GEORGE O. PROCTOR SCHOOL.			
Hudson Street.			
	Harry F. Hathaway, Master, 495 Broadway	.....	1912
6.	Nora F. Byard, Principal, 27 College Avenue	\$1,600	1884
6, 5.	Alice G. Hosmer, 42 Boston Street,	1,450	1906
5, 4.	Abbie A. Gurney, 88 Belmont Street	1,450	1888
4, 3.	Ella P. McLeod, 163 Summer Street	1,450	1888
3.	Edith L. Hunnewell, 41 Mason Street	1,450	1894
2.	Mary S. Richardson, 347 Boston Avenue, Medford	1,450	1906
1.	Lucia Alger, 10 Cambria Street	1,450	1889
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets.			
	Charles G. Ham, Master, Watertown	.....	1919
4.	Abigail P. Hazelton, Principal, 9 Monmouth Street	\$1,550	1902
3.	Grace E. Packard, 12 Carlisle Street, Roxbury	1,450	1912
2.	Mary Winslow, 23 Hall Street	1,450	1887
1.	Alice M. Dicker, 82 Marion Street, East Boston	1,450	1912
MARK F. BURNS SCHOOL.			
Cherry Street, near Highland Avenue.			
	Mina J. Wendell, Master, 211-A Summer Street	.....	1919
4.	Mrs. Margaret D. Hellyar, 427 Medford Street	\$1,600	1909
4.	Lizzie E. Hill, 121 St. Stephen Street, Boston	1,450	1890
3.	Annie L. Brown, 4 Saginaw Avenue, No. Camb.	1,450	1885
3.	Margaret Beattie, 401 Washington Street	1,350	1914
2.	Mary E. Lacy, 63 Cherry Street	1,450	1890
2.	Ardelle Abbott, 71 Craigie Street	1,450	1896
1.	Alice E. Morang, 114 Belmont Street	1,450	1893
1.	Ruth E. Andrews, 48 Hancock Street	1,400	1917

TABLE 29. — Teachers in Service January, 1920. — Continued.

Name and Residence.		Salary.	Began Service.
Grade.	Willow Avenue and Josephine Avenue.		
BENJAMIN G. BROWN SCHOOL.			
	Geo. I. Bowden, Master, 92 Monument St., W. Med.	\$2,700	1908
6.	Maude E. Abbott, 9 Summit Avenue	1,550	1918
	6. Mary T. Ford, 3 Linnean Street, Cambridge	1,450	1911
5.	Annie Sanburn, 11 East Newton St., Boston	1,450	1906
4.	Anna N. Johnson, 33 Everett Avenue	1,450	1913
4.	Martha R. Taylor, 26 Simpson Avenue	1,450	1914
3.	Helen L. Galvin, 1681 Beacon St., Brookline	1,450	1903
3.	Alice M. Dorman, 159 Morrison Avenue	1,450	1903
2.	Mrs. Grace H. Bliss, 33 Whitfield Road	1,450	1900
1.	Mrs. Bessie T. MacCutcheon, 44 Greenville Street	1,275	1915
1.	Olivia H. Norcross, Wilmington	1,450	1914
HIGHLAND SCHOOL.			
Highland Avenue and Grove Street.			
	Harlan P. Knight, Master, 22 Hamilton Road	.....	1919
6.	Grace M. Clark, 10 Vernon Street, West Medford	\$1,600	1893
6.	Mary H. Joyce, 42 Orchard Street, Cambridge	1,450	1891
6.	Ethel M. Park, 48 Electric Avenue	1,450	1916
6.	Lillian F. Richardson, 129 Mt. Auburn St., Camb.	1,450	1904
6.	*Mrs. Lura E. Babcock, 36 Curtis Street	900	1919
5.	*Mrs. Sarah K. Lake, Prospect Street, Cambridge	900	1919
5.	Marion Allen, Danvers	1,450	1911
5.	Catherine A. Burden, 166 Morrison Avenue	1,450	1902
5.	Eva E. Perkins, 48 Astor Street, Boston	1,450	1911
5.	Eva M. Barrows, 71 Hudson Street	1,450	1903
4.	Hazel M. Stone, 10 Liberty Avenue	1,300	1919
S. NEWTON CUTLER SCHOOL.			
Powder House Boulevard, near Raymond Avenue.			
	Harlan P. Knight, Master, 22 Hamilton Road	\$2,700	1897
6.	Bernice J. Andrews, 10 Locke Street	1,600	1914
6.	Mrs. Edith M. Thornquist, 49 Curtis Avenue	1,450	1906
6.	Ella H. Bucknam, 1105 Broadway	1,450	1897
5.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	1,450	1893
5.	Georgie B. Collins, 11 Everett Street, Cambridge	1,450	1916
5.	Bessie J. Baker, 19 Mills Street, Malden	1,450	1905
4.	Mrs. Elva A. Cutler, 36 Powder House Boulevard	1,450	1911
4.	M. Eunice Young, 6 Myrtle Street, Winchester	1,450	1912
4.	Mabel Worcester, 24 Brastow Avenue	1,200	1919
4.	Alice A. Libbey, 20 Chandler Street	1,200	1919
3.	Mrs. Elsie M. Guthrie, 50 Bromfield Road	1,400	1919
3.	Mary L. Ennis, 785 Broadway	1,450	1915
2.	*Mrs. Katie L. Harmon, 18 Walker Street	900	1916
2.	Inez M. Rodgers, 731 Broadway	1,450	1915
2.	Almena J. Mansir, 77 Albion Street	1,450	1899
1.	Annie H. Hall, 97 College Avenue	1,450	1906
1.	Mary L. McKenna, 294 Lowell Street	1,300	1915
1.	*Stella Bucknam, 319 Highland Avenue	900	1917
LINCOLN SCHOOL.			
Broadway, near Teele Square.			
	Harlan P. Knight, Master, 22 Hamilton Road	.....	1914
3.	Eliza H. Lunt, Principal, 50 Curtis Street	\$1,550	1889
3.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	1,450	1911
2.	Olevia M. Woods, 116 Powder House Boulevard	1,450	1908
1.	Hortense F. Small, 91 Electric Avenue	1,450	1912

\* Temporary Teacher.

TABLE 29. — Teachers in Service January, 1920. — Concluded.

Name and Residence.			Began
Grade.	Morrison Avenue, near Grove Street.	Salary.	Serv- ice.
	MARTHA PERRY LOWE SCHOOL.		
	George I. Bowden, Master, 92 Monument St., W. Med.	.....	1908
4.	May E. Small, Principal, 31 Chester Street	\$1,600	1900
4.	Stella M. Holland, 7 Francesca Avenue	1,450	1903
3.	Maude C. Valentine, 1098 Broadway	1,450	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	1,450	1888
2.	Katherine E. Hourahan, 94 College Avenue	1,450	1892
2.	Clara G. Hegan, 100 School Street	1,450	1897
1.	Martha A. Jencks, 205 Morrison Avenue	1,450	1898
1.	Octavia A. Stewart, 15 Kenwood Street	1,450	1917
	EVENING SCHOOL PRINCIPALS.		
	Everett W. Tuttle, High	\$7.00	
	John S. Emerson, Bell	6.00	
	Charles E. Brainard, Highland	6.00	
	CADET TEACHERS.		
	Grace M. Driscoll, 25 Arthur Street	\$600	1919
	Laura M. Flynn, 57 Franklin Street	600	1919
	Elizabeth C. Sullivan, 74 Ossipee Road	600	1919
	SUPERVISORS AND SPECIAL TEACHERS.		
	Music.		
12, 7.	James P. McVey, 29 Hammond Street, Cambridge	*\$2,500	1915
6, 1.	Mrs. Charlotte D. Lawton, 121 St. Stephen St., Boston	1,900	1898
	Drawing.		
9, 1.	Clara M. Gale, 21 Willoughby Street	\$1,900	1911
	Sewing.		
	Mary H. Brown, Supervisor, 5 Linnaean St., Camb.	*\$200	1913
6, 5.	Mary L. Boyd, 74 Heath Street	1,450	1888
6, 5.	Mrs. Emma J. Ellis, 54 Marshall Street	1,450	1900
‡6, 5.	Lucy Dorr, Summer Street, cor. Laurel	.....	1919
	Penmanship.		
9, 1.	Ruth L. Whitehouse, 40 Highland Avenue	\$1,700	1915
	Manual Training.		
	Harry L. Jones, Supervisor, 137 Pow. House Blvd.	‡\$200	1911
	Physical Instruction.		
‡12, 1.	Ernst Hermann, 9 Humboldt Street, Cambridge	\$1,550	1914
12, 1.	Alma Porter, 43 Ossipee Road	1,350	1918
	Atypical.		
	Mary A. Holt, 13 Pleasant Avenue	*\$1,500	1910
	Mrs. Bertha M. Morton, 62 Highland Avenue	1,500	1913
	Julia M. Riordan, 165 Albion Street	1,400	1914
	Supervisor School Gardens.		
	‡William B. Moore, West Peabody	\$1,050	1919

\* 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, 1920.

Name and Address.		Salary.
SUPERINTENDENT AND SECRETARY		
Charles S. Clark, 75 Munroe Street		\$4,200
Joseph A. Ewart, Assistant Superintendent, 11 Bigelow St.		3,000
CLERKS.		
Mary A. Clark, 42 Highland Avenue		\$1,200
Mildred A. Merrill, 26 Cambria Street		1,050
H. Madeline Kodad, 1067 Broadway		18.00 per wk.
Arline P. Hall, 189 Pearl Street		13.00 per wk.
ATTENDANCE OFFICERS.		
Justin W. Lovett, 18 Waldo Street		\$1,500
Benjamin R. Jones, 25 Loring Street		1,500

TABLE 31. — SCHOOL JANITORS, JANUARY, 1920.

School.	Name.	Residence.	Weekly Salary
High School, assistant	Jeremiah M. Brennan	482 Medford St.	\$21.00
High School, assistant	John N. Quirk	202 Somerville Ave.	21.00
High School, assistant	Nicholas J. Lacey	85 Franklin St.	26.00
High School, assistant	Andrew H. Finnegan	94 Concord Ave.	20.00
Eastern Junior High	James J. Quirk	32½ Tufts St.	23.50
Prescott	John T. Morey	18 Howe St.	24.50
Hanscom	Charles F. Rose	15 Brastow Ave.	22.50
Boys' Vocational	Charles B. Kelley	25 Clark St.	22.00
Bennett	Michael Mullaney	467 Somerville Ave.	24.00
Baxter	Jeremiah Sullivan	16 Newton St.	20.00
Knapp	Maurice T. Mullins	13 Fremont St.	20.00
Perry	Dan'l E. Cunningham	23 Fitchburg St.	20.00
Pope	John J. Kilty	662 Somerville Ave.	24.00
Bell	William Meskill	53 Partridge Ave.	26.00
Southern Junior High	Joseph F. McCormack	206 Washington St.	21.00
Cummings	Lewis G. Keene	54 Prescott St.	17.50
Edgerly	Charles P. Horton	22 Everett Ave.	24.00
Glines	Roy C. Burckes	20 Jacques St.	25.00
Forster	George W. Coombs	73 Bonair St.	24.00
Northern Junior High	Thomas G. Pullen	6 Madison St.	23.50
Bingham	John F. O'Brien	347 Lowell St.	27.00
Carr	John H. Lane	5-A Belmont St.	30.00
Morse	John W. Cremen	69 Oxford St.	24.50
Proctor	James F. Flynn	31 Linden St.	21.50
Durell	Ellsworth C. Lundgren	50 Harrison St.	17.50
Burns	Charles J. Elkins	35 Mansfield St.	21.50
Brown	James J. Cooper	105 Willow Ave.	22.50
Highland	E. Parker Cook	103 Willow Ave.	24.00
Hodgkins	George A. Givan	17 Henry Ave.	25.00
Western Junior High	James T. Eddy	38 Wallace St.	27.00
Cutler	Daniel Campbell	85 Lexington Ave.	24.00
Lincoln	Thomas F. O'Day	134 Lowell St.	17.50
Lowe	Frank H. Flagg	22 Clyde St.	21.50

OUTLINE OF THE ORGANIZATION AND ACTIVITIES OF THE  
SCHOOLS UNDER THE SCHOOL COMMITTEE.

School Buildings.

The High School on Central Hill consists of the East and the West buildings.

The Southworth Building and a portion of the Prescott building adjoining are used by the Eastern Junior High School. The Folsom building and a part of the Forster building, at Winter Hill, are used by the Northern Junior High School. The Bell School building on Vinal Avenue is occupied by the Southern Junior High organization; and a new building on the ledge lot on Holland street, in West Somerville, and also the Hodgkins building on the same street are used by the Western Junior High School.

The Davis School building on Tufts Street, with two additional structures connected therewith, is occupied by the Vocational School for Boys.

The elementary schools are conducted in the following buildings: Bennett, Hanscom, Edgerly, Glines, Bingham, Proctor, Brown, Lowe, Lincoln, Cutler, Highland, Burns, Morse, Carr, Durell, Cummings, Perry, Baxter, Knapp and Pope. A few rooms in the Prescott and Forster buildings are used for elementary purposes also.

In the Annual Report of the School Committee of 1907 is found a full statement regarding the school houses in Somerville up to that time. In 1842, when Somerville became an independent town, five small buildings accommodating 247 pupils provided for all school needs. Even the names of these schools sound strange today, for they were known as the "Pound Primary, Winter Hill Primary, Milk Row Primary, Prospect Hill Primary, and Prospect Hill Grammar". School buildings have been constructed, outgrown, and in many cases converted into dwelling houses. A statement follows regarding buildings now in use:

High School.

The Somerville High School was first opened on Central Hill May 3, 1852, in a building which now forms a part of the City Hall. In 1872 the present Latin or East building of the High School was occupied. The English High School building,

now known as the West building, was constructed in 1895. In 1906 an addition to the Latin School gave only temporary relief. In 1913 wings were added to the West building, the two buildings were connected, and an assembly hall provided.

In the spring of 1919, the School Committee unanimously adopted a recommendation submitting to the Mayor and the Board of Aldermen a comprehensive program of school construction. This program includes a gymnasium building for the High School, to be thoroughly equipped with all the appurtenances that belong therewith.

#### Junior High Schools.

The Prescott School, on Pearl Street, East Somerville, which is now occupied in part by the Eastern Junior High School and in part by the Prescott Elementary School, was built in 1867, containing ten rooms and a hall which was soon divided into classrooms. The Southworth building, occupied entirely by the Eastern Junior High School was built in 1916 and contains nine classrooms besides a cooking room and a small assembly room in the basement. A covered passageway connects it with the Prescott building. The second unit, consisting of a duplicate of the present building, constructed in the rear thereof, will form a square, the center of which will be occupied by the third unit, to include gymnasium and assembly hall.

The present Forster School house was built in 1867. As happened in the case of the Prescott School, so in this building the assembly hall was in 1883 divided into classrooms. The Folsom building, which is connected by a covered passageway with the Forster School, was built in 1899. It contains six classrooms besides two rooms in the basement which are used, one for a woodworking shop and the other for a print shop. Unused space on the third floor has been partitioned off by the boys of the school into rooms that are now used for drawing, typewriting, sewing, and cooking. The use of this floor for these purposes should be regarded as only a temporary expedient.

The building program calls for the erection on another site of a building constructed for Junior High School purposes exclusively, and of sufficient size to remove the Northern Junior High School entirely from its present quarters. As in the case of the other Junior High Schools, this building is to contain gymnasium and assembly hall. This will release the Forster and the Folsom buildings for elementary school uses.

The Hodgkins building on Holland street, West Somerville, was built in 1896. It contains twelve large and two small

classrooms. The Junior High School building on the ledge lot on Holland street was completed in 1917. It contains eleven classrooms, besides four large basement rooms devoted to cooking, sewing, metal working, and wood working. Like the Southworth building at East Somerville, this building is the first unit of a three unit building, the plan calling for a duplication of the present building, thus completing a hollow square, the center of which is to be filled in by construction that will provide an assembly hall and a gymnasium. The location of this building upon the ledge lot, so-called, gives an exceptional opportunity for making adequate provision for the development of out-door activities that are properly associated with a complete junior high school organization.

#### Elementary Schools.

The present Bennett School on Poplar Street, East Somerville, containing twelve rooms, was built in 1902.

The Hanscom Schoolhouse on Webster Street was erected in 1897 with six rooms, to which four were added in 1907.

The Edgerly School on Cross Street was built in 1871 containing four rooms. Four rooms were added in 1882 and four more in 1892.

The Glines School on Jacques Street was built in 1891 containing eight rooms, to which five were added in 1896.

The Bingham School on Lowell Street, containing four rooms, built in 1886, was enlarged in 1894 by the addition of four rooms and again in 1904 by adding eight rooms.

The Proctor Schoolhouse on Hudson Street containing nine rooms was built in 1905.

The Brown School on Willow Avenue erected in 1901 and containing six rooms, was enlarged by the addition of four rooms in 1907.

The Lowe School on Morrison Avenue was erected in 1903 with eight rooms.

The Lincoln Schoolhouse on Broadway near Teele Square was built in 1885.

The Cutler School of twelve rooms was built on Powder House Boulevard in 1912. To it six rooms were added in 1915. The original plans provide for a still further enlargement of this building.

The Highland School of eight rooms, built in 1880, was enlarged by the addition of four rooms in 1891.

The Burns School on Cherry Street was built in 1886. Its original provision of four rooms was increased by the addition of another four in 1899.

The Morse School on Summer Street was built in 1869 con-

taining four rooms and a hall. In 1880 the latter was divided into classrooms. In 1889 an addition of six rooms was made.

The Carr School on Beech Street containing seventeen rooms was erected in 1898.

The Durell School on Kent Street containing four rooms was built in 1894.

The Cummings School of four rooms was built on School Street in 1884.

The Perry School on Washington Street was constructed in 1899. It contains six rooms.

The Baxter School on Bolton Street with six rooms was built in 1901.

The Knapp School on Concord Avenue, originally consisting of eight rooms, was built in 1889. To it four rooms were added in 1894.

The Pope School on Washington Street containing twelve rooms was occupied in 1891.

#### School Organization.

The school organization is made up as follows:

The School Committee.

The administration office, consisting of superintendent, assistant superintendent, four clerks, two attendance officers;

The High School, containing 1618 pupils December 1, 1919;

Four junior high schools containing 2937 pupils;

Vocational School for Boys, 74 pupils;

Vocational School for Girls, 21 pupils;

Twenty-two elementary schools including four kindergartens, three atypical classes and one non-English-speaking class, totalling 8517 pupils.

#### Supervision.

Responsibilities of supervision and administration are vested in the following: superintendent, assistant superintendent, principal of the High School, principals of four junior high schools, nine supervising principals of elementary schools, two principals of vocational schools, supervisor of manual arts for boys, supervisor of household arts for girls, music supervisor for high and junior high schools, music supervisor for elementary schools, supervisors of drawing, penmanship, physical training with one assistant, and supervisor of school gardens.

### School Committee.

The School Committee consists of sixteen members, two elected from each of the seven wards, with the Mayor and the President of the Board of Aldermen members ex-officiis. Inasmuch as elections are biennial, beginning with 1919, the entire School Committee is chosen at one time. The Commissioner of Public Buildings has control of school janitors, and the erection, repairs, and maintenance of school buildings. There are seven Standing Committees of the School Board, namely, Finance; Text Books and Courses of Study; Industrial Education; School Accommodations; Teachers'; Health, Physical Training, and Athletics; and Rules and Regulations. The School Board meets regularly on the last Monday evening of the calendar month.

### High School.

Until September 1918 thirteen years comprised the school course. At that time the course was reduced by one year in harmony with the prevailing educational practice. The elementary course of six years is followed by a course of three years in the junior high school, and then by three in the High School. Thus the tenth, eleventh, and twelfth years of the pupils' life are spent in the high school. The courses offered are college, scientific, normal, general, and commercial. Pupils are distributed among the several courses as follows:

College . . . . .	21.1 per cent.
Scientific . . . . .	15.8 " "
Normal . . . . .	3.5 " "
General . . . . .	11.4 " "
Commercial . . . . .	48.2 " "

In September 1919 ninety-five pupils from this school entered higher institutions.

The change from a course of thirteen years to one of twelve years has produced an abnormally large class in the first of the three years of the high school. This class now includes those pupils who entered school at the age of five and have taken ten years to reach this point, and also those who, entering at the age of six, have taken nine years.

The high school publishes a monthly paper entitled the "Radiator," has a large school orchestra, a school drum corps, debating teams, an athletic association represented by teams in the Suburban League, glee clubs, and a system of physical training with principles of military practice organized under pupil leadership. The same system of physical training is maintained in each of the junior high schools, pupils trained as

leaders conducting the exercises in the several schools. The high school, as well as all the junior high schools, maintains a successful lunch system operated in large measure by the pupils.

#### Junior High Schools.

In 1914 junior high school work was begun in an experimental way at the Forster School at Winter Hill. It involved the highest grades only of that grammar school. In 1916 the School Committee adopted the plan of junior high schools for the entire city, to be introduced gradually. In accordance with that action, the June graduates of the Glines, Bingham, and Forster Schools were assembled in the Forster School. These, together with the last two years of the grammar school, now constituted the Northern Junior High School. Space in this building was obtained for this school by transferring elementary pupils to the Bingham, Proctor, and Glines buildings.

At the same time, September 1916, the completion of the Southworth building in East Somerville made possible the establishment of the Eastern Junior High School in that building and a part of the Prescott building. These changes involved the Prescott, Edgerly, and Pope schools.

In September 1917, the completion of the new building on Holland Street, West Somerville, made possible the establishment of the Western Junior High School, occupying the whole of that building and the Hodgkins building located nearby. This change involved pupils in the Brown, Highland, Hodgkins, and Cutler schools.

In September 1918 the addition to the Bell School on Vinal Avenue provided the space necessary for the establishment of the Southern, the fourth and last junior high school. This change affected the Carr, Morse, Bell and Knapp schools.

In order to give the closest possible connection between the Junior High and Senior High Schools, monthly conferences are held in each subject of the third year of the junior high school. These conferences involve the head of that department in the high school, the masters of the junior high schools, and the teachers of that subject in the junior high schools.

Each junior high school maintains its own orchestra of pupils, doing work of high order in many cases. Some of the schools have emphasized public speaking in various ways and debating societies are in successful operation. One school has begun the publication of a bi-weekly school paper. War interests have been emphasized in the junior high schools and the fullest advantage taken of the enthusiasm and activity that is so much in evidence at the junior high school age.

Opportunities are multiplied for the assumption of responsibility by individual pupils or by groups of pupils. Leaders are chosen from the several junior high school rooms and they are given bi-weekly instruction by the physical training teachers at the State Armory. Returning to their schools, these pupils carry their instruction into effect with their own classmates. Periodically the classes which are judged to be the most successful in each junior high school meet at the State Armory to compete before discriminating judges. These contests are stimulating and are entered into in the spirit of true sportsmanship.

In the junior high schools the habit of saving is encouraged by maintenance of a school bank in which the pupils themselves are tellers and accountants. The funds are kept on deposit in the Somerville Institution for Savings.

In each school several hundred books upon pertinent subjects are deposited by the public library. This school library is managed by the pupils of the school.

The programme of studies of the first and second years includes the academic work formerly provided in the last two years of grammar school with somewhat larger attention to manual arts education. In addition opportunity for discovering individual aptitudes and inclinations is provided in the choice of one of several electives. These at present comprise Latin, French, Spanish, beginnings of commercial work with typewriting, additional work in household or manual arts. Classes are provided also for such pupils as wish to intensify the ordinary grammar school subjects in place of these electives.

The third year of the programme of studies is practically identical with the work formerly offered in the freshman class of the high school. In this year of the course, pupils are grouped as follows: College, Scientific, Normal, Manual Arts, Household Arts, and Commercial.

Cooking and sewing constitute a large part of the work in household arts, while for the boys carpentry is taught in all schools, together with metal-working in the Southern and the Western, book-binding in the Eastern and printing in the Northern. The Junior High School curriculum is given in full in the 1918 report of the School Committee.

Promotion from the elementary schools to the junior high school is given to such pupils as have obtained passing marks in their work. In addition any others whose individual interests may be better served by the special work, particularly of a manual character, offered in the junior high school, are transferred thereto. Promotion from the junior high to the senior high



school is given to all such pupils as appear able to take up the work of the high school with profit to themselves.

Careful consideration is now being given to the various courses of study in the junior high schools, committees of teachers being engaged in this work. It is expected that it will be completed soon and in form for use at the opening of schools in September.

The Annual Reports of the School Committee have dealt with the subject of the junior high school each year since 1911. The reports of 1914, 1916, 1918, and 1919 present an especially full discussion of this unit of our school organization.

#### Elementary Schools.

The elementary schools include kindergartens and six elementary grades. In order to serve the interests of the various localities the better the schools show some variation in the number of grades, as will be seen from the summary that appears later. The establishment of junior high schools has created a much more favorable condition for classes in elementary work, by relieving in large measure over-crowdedness in the elementary schools. While promotions are made annually in June, in all schools, individual adjustments take place at any time through the year when the interests of the children will be better served thereby.

#### Vocational Schools.

The Vocational Schools for Boys and for Girls are both state-aided and are patronized by pupils from Somerville and adjoining communities. The former is now favorably situated for carrying on its three departments of woodworking, machine work, and automobile repairing. The Girls' Vocational School has, in common with other schools of like nature, suffered a loss in numbers in the last two or three years.

The Vocational School for Boys occupies the Davis School building which was built in 1884, containing four rooms. To it was added, in 1917, a building containing a machine shop and in 1918 another building for an automobile repair shop. Provision is now being made, in co-operation with the Federal Government, for special training for returned soldiers.

The Vocational School for Girls from 1911 to 1919 occupied a dwelling-house on Atherton Street. In the fall of 1919 this building was closed, and the school transferred to its present quarters in the High School building.

Graduates of these schools find immediate employment in the trades for which they have been prepared.

### Atypical Classes.

Three classes are maintained for pupils who are seriously retarded in their school work and are therefore out of adjustment with their ordinary classes. In such classes instruction is given of a special character in elementary school subjects and also in manual subjects. The membership of each class is limited to fifteen. Such pupils are assigned to these classes as may fairly be expected to profit therefrom, and in many cases they secure adjustment to the ordinary classes. The educational interests of the city will be very materially furthered when the number of atypical classes is increased. By Legislative act of 1919 the establishment of such classes will now be required throughout the state.

### Kindergartens.

There are four kindergartens, maintained respectively in the Bennett, Hanscom, Glines and Baxter Schools. This number is inadequate to provide for all sections of the city. An extension, therefore, of the kindergarten privilege to cover other portions of Somerville not now provided for is under consideration.

### Elementary School Districts.

The supervision of all schools below the junior high schools is vested in nine supervising principals, each in charge of one of the following districts:

Edgerly and Glines; Bennett; Knapp, Baxter, and Perry; Hanscom and Pope; Bingham and Proctor; Brown and Lowe; Morse and Burns; Carr, Cummings and Durell; Cutler, Highland and Lincoln. The principals of the Eastern and the Northern Junior High Schools have supervision of the Prescott and the Forster elementary schools respectively.

### Summary.

The organization of these educational units may be summarized in the following statement:

High School—Grades 10, 11, and 12.

Eastern Section:

Eastern Junior High School—Grades 7 to 9

Edgerly School, grades 1 to 6

Pope School, grades 1 to 6

Prescott School, grades 1 to 4

Hanscom School, grades 1 to 5

Bennett School, grades 1 to 5

## Northern Section :

Northern Junior High School—Grades 7 to 9  
Glines School, grades 1 to 6  
Forster School, grades 1 to 6  
Bingham School, grades 1 to 6  
Proctor School, grades 1 to 6

## Southern Section :

Southern Junior High School—Grades 7 to 9  
Knapp School, grades 1 to 6  
Carr School, grades 1 to 6  
Morse School, grades 1 to 6  
Perry School, grades 1 to 6  
Baxter School, grades 1 to 5  
Cummings School, grades 1 to 4  
Durell School, grades 1 to 4

## Western Section :

Western Junior High School—Grades 7 to 9  
Brown School, grades 1 to 6  
Cutler School, grades 1 to 6  
Highland School, grades 4 to 6  
Burns School, grades 1 to 4  
Lowe School, grades 1 to 4  
Lincoln School, grades 1 to 3

Kindergartens—Hanscom, Bennett, Baxter, and Glines Schools

Atypical Classes—Bennett, Knapp, and Highland Schools

Vocational School for Boys

Vocational School for Girls.

**Health.**

The Health interests of the children are given careful consideration in a variety of ways. In 1910 a school dental dispensary was opened through the co-operation of the local dentists. In 1912 the work of this dispensary was assumed by the School Committee. It is located in the Proctor School on Hudson Street with a dentist and an assistant in charge and is rendering a valuable service to the children of the city.

A matron has recently been appointed in the high school. Her duties are in general the safeguarding of all the interests of the girls in that school. By the co-operation with the Board of Health, the schools have the services of two school nurses and eight medical inspectors.

### Continuation Schools.

By a referendum vote, the citizens last November accepted the legislative act which provides for the institution and maintenance of continuation schools. Such a school will be organized at the opening of the school year in September 1920. It will, by the provisions of the law, be a beneficiary of State-aid. This school provides for four days of school instruction weekly for all children under sixteen years of age employed under working certificates or home permits.

### Manual Training.

In addition to the vocational instruction provided in the two vocational schools, manual training of a more general sort is given in the high school, the four junior high schools, and in all sixth grades. In the high school, the work deals with carpentry, and joinery, cabinet making, wood turning, pattern making, metal spinning, foundry work, forging, sheet metal work, tinsmithing, plumbing, gas fitting, steam fitting, machine work, electrical work, lock smithing, study of gasoline engines, and general repair work. Instruction is provided for boys in the junior high schools in addition to woodworking as follows: In the Eastern, bookbinding; in the Southern and Western, metal working; in the Northern, printing. In all of these shops the work is of a practical sort, but is not intended to fit directly for the trade. Whittling is taught to all boys of the sixth grades. Sewing is given in the sixth grade and is continued as a required subject in the seventh and eighth grades, and as an elective also throughout the junior high school and the high school. Cooking is required of all girls in the seventh and eighth grades, and this also may be taken as an elective throughout the junior high school and the high school. The lunch rooms previously referred to are maintained in connection with this work and are self-supporting.

### Co-operation of Public Library.

In addition to the maintenance of large deposits of books in the junior high schools as elsewhere mentioned, the public library sends to each teacher of the elementary schools fifty books each year, largely of the teacher's choosing as best suited to her interests. The public library also pays one-half of the salary of the librarian of the high school. In all probability, few communities have as effective co-operation between the public schools and the public library as that with which our city is favored.

### School Gardens.

Throughout the year interest is maintained through the schools in school and home gardens. The planning and supervision of this work is vested in a garden supervisor, who, being a practical farmer and one who understands and can enthruse children, has broadened out the work each year and has brought it to a high degree of efficiency. In addition to gardening, a large interest has been aroused in canning and in poultry raising, in which, in state competitions, our pupils have won first and second prizes the past two years.

### Parent-Teacher Associations.

Recognizing the fact that the efficiency of the schools can be materially increased by the maintenance of sympathetic relations between home and the school, there are parent-teacher associations organized in most of the schools. In many cases these associations are a large influence toward a better understanding of school problems. While the principal of the school is in each case the president of such an association, the other officers are chosen from the body of parents as well as of teachers.

### School Savings Bank System.

In 1912 a school bank system of savings was adopted for use in our schools. Through the co-operation of the Somerville Institution for Savings a very carefully devised and efficient system was established. Under the operation of this system many children became regular depositors in the school savings bank, and accumulated substantial accounts in the Institution for Savings. During the period of the war the operation of the savings banks was interrupted temporarily and the children put their savings into Thrift and War Savings stamps. In this undertaking the habits of saving already established led to a liberal purchase of War Savings stamps. In the fall of 1919 the principals of the schools decided to resume the operation of the school savings bank. In their opinion this system was more advantageous for the pupils of the city than would be the continuance of the purchase of War Savings stamps. The system as now operated provides for a school bank in each school building, which receives the deposits of pupils and transfers them to the Somerville Institution for Savings. A pupil may deposit in the school savings bank any sum of money which he is able to save. When he has a credit of three dollars he is entitled to receive a bank book. His money then goes on interest and thereafter his deposits are credited in his bank book.

### Americanization.

The character of the population of Somerville makes the need of Americanization work less than would naturally be expected in so large a city. However, several classes in Americanization are conducted afternoons and evenings under the direction of the School Committee, and the number will be increased as conditions warrant. Classes are provided for both men and women.

### Supervised Play and Organized Playgrounds.

In the elementary schools, organized play has become a prominent feature. The recess has become a most valuable part of the daily program. For several years, field days have been held just before the close of the school year to exemplify this work in the schools. The large attendance of parents and citizens upon these exercises is convincing proof of their endorsement.

Summer playgrounds, which were for several years under the direction of the School Committee, are now controlled by the Recreation and Playground Commission. In the work of this commission, the School authorities bear an important part. In the summer of 1919 8 playgrounds were conducted over the city, involving the employment of 15 supervisors and instructors. As the interests of the school gardens and the summer playgrounds are closely related, the Recreation and Playground Commission bears a portion of the expense of the salary of the garden supervisor.

### Summer School.

No summer school is maintained under the control of the School Committee. In the Y. M. C. A. building, however, one is conducted for six weeks, affording opportunity for help to those pupils who hope to regain a lost promotion or to obtain a special promotion. The teachers in this school are chosen from the public schools and work in harmony with the school administration. Their recommendations regarding the promotion of their pupils are, in the main, carried out at the opening of schools in September. In almost all cases their recommendations prove wise.

### Evening Schools.

Evening schools are maintained as follows for twenty weeks, beginning early in October:

High School on Monday, Tuesday and Thursday evenings,

in the high school building. Classes are conducted in algebra, bookkeeping, chemistry, commercial arithmetic, English literature, Spanish, penmanship, stenography, typewriting, free-hand drawing, mechanical drawing, architectural drawing and civil service.

The Bell Elementary School on Vinal Avenue and the Highland Elementary School on Highland Avenue, on Monday, Tuesday, Thursday and Friday evenings. These schools are intended for those students who have not yet completed work that would admit them to the high school.

Practical Arts classes for men and boys in the Vocational School for Boys on Tufts Street, with classes in machine.shop practice and automobile repairing.

Practical Arts classes for women in the High School building on Central Hill, in the Western Junior High School on Holland Street, and in the Bingham School on Lowell Street, with classes in millinery and dressmaking. The teachers of all these evening classes are carefully chosen because of a particular fitness for the subjects they are to teach.

#### Conclusion.

While the schools of the city have continued adequate instruction along the established lines, yet the best thought has been concentrated upon them in order that they might meet the changing requirements of education. That our schools in their early introduction of measures to meet the individual needs are in harmony with the best educational thinking is amply attested by the fact that these provisions have now been incorporated into most school systems by legislative enactment or by voluntary action of the school authorities.

**PUBLIC LIBRARY.**

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**BOARD OF TRUSTEES.**

THOMAS M. DURELL, President.

J. FRANK WELLINGTON, Vice-President.

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HERBERT E. BUFFUM, M. D.

WILLIAM L. BARBER.

GILES W. BRYANT, M. D.

CHARLES L. NOYES, D. D.

DAVID H. FULTON.

Vacancy.

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**COMMITTEES.****On Administration.**

The President, Messrs. Wellington, Parker, Noyes, and Fulton.

**On Books and Cataloguing.**

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

**On Buildings and Property.**

The President and the Vice-President.

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**Secretary of the Board.**

GEORGE H. EVANS.



**ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.**

December 31, 1919.

GEORGE HILL EVANS, Librarian.

NELLIE M. WHIPPLE, Assistant Librarian.

VIVIAN J. MORSE, Executive Assistant.

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**CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.**

Highland Avenue and Walnut Street.

**GRADED SERVICE.**

**Department Heads and Special Positions.**

EDITH B. HAYES, Chief Cataloguer.

CORA B. EAMES, Reference Librarian.

MARY S. WOODMAN, Reviewer and Classifier.

ANNA L. STONE, Periodicals.

EDYTHE L. MILLER, High School Librarian.

GLADYS B. HASTINGS, Children's Librarian.

ABBIE G. GLOVER, Librarian of Graded and Junior High Schools.

**Senior Assistants.**

MYRTLE NICHOLSON, Desk Chief.

HELEN P. SMITH, Assistant Cataloguer.

NINA L. WINN, Circulation Dep't.

RUTH L. SWETT, Circulation Dep't.

**Junior Assistants.**

JESSIE B. ALCOCK, Circulation Dep't.

**UNGRADED SERVICE.**

MARION L. FALL, Catalogue Dep't.

LILLIAN MCGOWAN, Circulation Dep't.

**Attendants on Part Time.**

LEILA BEARDSLEY

RUTH HAYES

BERNICE WATT

CAROLINE COMEY

CARROLL HILL

PAUL PARKER

MARION DOW

LOUISE JOYCE

**WEST SOMERVILLE BRANCH.**

Established 1909.  
40 College Avenue.

**GRADED SERVICE.**

ESTHER M. MAYHEW, Branch Librarian.  
MABEL E. BUNKER, 1st Assistant.

**Junior Assistants.**

HARRIET FENWICK

DOROTHY L. KINNEY

**UNGRADED SERVICE.**

MAE L. GORMLEY, Page.

**Attendants on Part Time.**

MARJORIE COLE  
WILBUR STANLEY

ELEANOR A. RANDALL  
RICHARD WALSH

LILLIAN TRASK

**EAST SOMERVILLE BRANCH.**

Established 1912.  
Broadway and Illinois Avenue.

**GRADED SERVICE.**

BEATRICE E. KELLIHER, Branch Librarian.

**Senior Assistants.**

RUTH S. FALES, 1st Assistant.

**Junior Assistants.**

RUTH BURCKES, Circulation.

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

DORIS GERRITSON  
GLADYS MURLEY

GERTRUDE MCGLINCHY  
CECILE McDONALD

**UNION SQUARE BRANCH.**

Established 1912.  
Washington Street and Bonner Avenue.

**GRADED SERVICE.**

MILDRED R. HOLT, Branch Librarian.

**Senior Assistants.**

RUTH G. MARKLE, Children's Librarian.  
MARGUERITE C. KELLY, Circulation.

**UNGRADED SERVICE.**

**Attendants on Part Time.**

BESSIE BERMAN.

ELVIA A. SPAULDING

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

### Report of the Trustees.

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

Gentlemen:— The forty-seventh 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

THOMAS M. DURELL,  
President.

## REPORT OF THE LIBRARIAN.

Gentlemen of the Board of Trustees:

The forty-seventh annual report of the Somerville Public Library, for the year 1919, is herewith submitted, a record of the largest year's work in the history of the library.

The outstanding feature of the year has been the effect of business competition that has lured librarians away from the profession into other more lucrative employments. Business has discovered that library training not only makes accurate and efficient workers, but that it is also a selective process that weeds out undesirable personality. Librarians and Trustees have observed with alarm the perfectly logical operation of this competitive demand. Powerless in most cases to combat it, they now find themselves face to face with an alarming deficit in the supply of library workers. This shortage has also induced an unfortunate condition of competition between institutions, which, though an inevitable process of economic law, is none the less disturbing. The plain conclusion is that those municipalities that fail to recognize these signs of the times, and safeguard their library personnel by adequate salary increases, will suffer a decline from their previous standards of service. The process is already under way. The occasional institution that has sufficient freedom to act with promptness will emerge from the crisis with a notable increase of strength. Here and there one, having the vision, gives evidence also of freedom and initiative in self-protection.

Our library has had its share of these perplexities. Yet they have not been without their compensations. Through all these trying times there has been within the ranks of the staff a gratifying spirit of loyalty. Those who have left us have gone with evident regret. The sore need of relief from economic strain, or the invitation to step forward, has dictated the acceptance of opportunities in other fields. Happily we have not had to endure the depressing atmosphere of complaint. For this patient loyalty, this spirit of courageous cheerfulness, that has made and kept the associations of the daily routine full of pleasure, the librarian expresses his gratitude and profound admiration.

To the growing conception of librarianship as a profession this fine spirit is in large measure due. It may be profitable to point out to our citizens what this means to librarians and to the library service. First of all it is necessary to disabuse the mind of any confusion between professionalism and commercialism. The unfortunate use of the words professional and professionalism, as applied to the commercialization of ath-

letic sports, has established a popular conception entirely foreign to the terms as understood by librarians. Professional librarianship means first of all fitness of the individual through a liberal education to which has been added specialized training and mental discipline. Its practise is marked by the mental attitude of the worker toward his calling as first of all a career, and only secondarily a means of livelihood. The professional librarian seeks certain rewards entirely outside the domain of commercial values. He deems essential to his happiness a large measure of freedom for self expression, an atmosphere of congenial associations, personal and cultural. He values highly the opportunity to make his contribution to the progress of society, and perhaps to win a share of public esteem. The day's work, therefore, he does not do primarily for the day's wage to end with the day, but with a pride of workmanship in a continuous creative process, the building of the larger structure of a life. Organized librarianship seeks to promote and maintain uniformity and excellence of standards through discussions, the press, legislation, and specialized training courses. It urges the universality of the library's cultural mission as opposed to the provincialism and stagnation of the library position as a local "job." Recognition of the professional idea by the institution leads to the adoption of cultural standards, and to appointment and promotion for fitness, rather than for political, geographical, or similar non-intellectual reasons of temporary expediency. Such ideals and rewards, and the long look ahead, undoubtedly do contribute toward a tranquil spirit in trying times.

Your librarian believes, and this library consistently practices, the doctrine that it is the birthright and duty of librarians everywhere, when opportunity offers, to make such changes of employment as promise professional growth. Only by development of the individual can the vitality of our profession be maintained. New blood and new contacts are the anti-toxin to stagnation and provincialism. Even though one library for the moment suffers a loss, all libraries and the cause of education and good citizenship in the end benefit. We therefore believe that our losses that have meant progress for the individual are in the larger view a gain.

For the first time in the history of the library the total recorded home circulation has passed the 500,000 mark. We have no reliable means of estimating the amount of use within the walls of the 10,000 books in the 161 rooms of our schools. The testimony of the teachers shows it to be extensive. The recorded loans from school rooms for home use are 63,865. These are truly "books at work." There is an insistent cry from the teachers for more books. Double the number could be

put into immediate circulation. No department of the library brings in better returns, nor shows so great economy of operation. The school is the only agency through which the entire child population can be reached. Through this means we achieve 100 per cent. publicity for the library as a public educational institution to be supported as a matter of course by the coming generation.

Our Reference department has been busier than ever. In round numbers 64,000 questions, asked by all sorts of people who had problems to solve, were answered by the library, — an average of over two hundred and ten a day. These questions reflect the life of the people from every angle. They vary all the way from such a simple question as "When was President Wilson born?" to a demand for detailed information about the Parana river of South America. The following questions answered in our Reference department, taken at random from the daily records, will serve to illustrate this phase of reference work. Questions about: Beet sugar industry, Corporation finance, Mercury arcs, Wood turning, Afghan stitch, Jiu jitsu, Symbolism in art, Collective bargaining, Japanese prints, Machine shop practice, Hebrew music, Philippine independence, Concrete construction, Spraying trees, Power transmission, Federal reserve act, Marble polishing, Die making, Lumber in Europe, Cabinet work, How to write effective business letters.

In June the library published a list of 384 books dealing with over sixty trades and professions for men, entitled "The Day's Work, What to do, and How to do It." This little booklet, although setting forth only the resources of this library and purely local in its purpose, has attracted considerable attention, and the library has received requests for copies from many sources from England to the Pacific coast.

A new card catalogue of our music collection has been completed. It contains not only the usual titles of works and names of composers, but many analytical entries intended to facilitate the use of large collections of songs and instrumental selections.

During 1919 the following changes have occurred in the graded staff. Carrie L. Williams resigned to continue in the army hospital service for which she had previously been granted a leave of absence. Margaret M. Kneil, High School Librarian, resigned to accept a similar position in the girl's high school, Brooklyn, N. Y. She was succeeded by Edythe L. Miller, a graduate of Mt. Holyoke, promoted from the staff of the West Somerville Branch. Edna Woodbury, Children's Librarian at Central, resigned to accept a commercial position. Gladys B. Hastings, a graduate of Wellesley and Chil-

dren's Librarian at the West Somerville Branch, was promoted to fill the vacancy. Susan W. Curtis, in charge of graded and Junior High School deposits, accepted a similar but better paid position in Framingham. She was succeeded by Abbie G. Glover, a graduate of Simmons, promoted from the position of First Assistant at Union Square Branch. From the Second and Third Grades the following assistants resigned: Ethel M. Nute, Agnes F. Judkins, Helen E. Pulsifer, Eugenie Carter, Ruth H. Stretton, Florence M. Kennedy, and Bernhardena H. Morrison.

The following appointments have been made to the graded staff: In the Second Grade, Ruth L. Swett. In the Third Grade, Jessie B. Alcock, Ruth Burckes, Harriet Fenwick, Florence M. Kennedy, Dorothy L. Kinney, and Bernhardena H. Morrison.

Three pupils were graduated from the Training Class in the spring, and were immediately appointed. Two of these have already gone to better positions in other libraries. No candidates were found for a class this year owing to the meager compensation offered by the library service.

The attention of citizens who are interested in their library is directed to a brief summary of the war work of the American Library Association, to which they made contributions of money, magazines, books and workers. The following figures to the end of 1919 are supplied by the A. L. A. War Service Headquarters.

Amount of money raised for library war service . . .	\$5,317,000
Number of books placed in service . . .	7,000,000
Number of books overseas and on transports . . .	2,563,500
Number of different individuals in Library War Service	900
Number of individuals overseas and on transports . . .	90
Number of magazines used, uncounted millions.	

Out of this service now being brought to a close has come the decision of the United States Government to carry on library departments in the army and navy, under the direction of a trained personnel. The A. L. A. has also adopted a comprehensive plan of service for the merchant marine, light houses, coast guards, federal industrial plants, and other hitherto neglected social groups.

The usual statistical tables herewith appended are submitted as a part of this report.

Respectfully submitted,

GEORGE H. EVANS,  
Librarian.



# The Public Library of the City of Somerville.

## APPENDIX A.

### Statistics of Use and Growth. Circulation.

	Central	West	East	Union	Schools	Other	Total
Volumes circulated, adult	119,603	94,057	51,184	36,776	8,281	560	310,461
Volumes circulated, juvenile	37,793	36,532	25,802	40,997	55,584	129	196,837
Total circulation (A. L. A. rules)	157,396	130,589	76,986	77,773	63,865	689	507,298

### Accessions.

	Central	West	East	Union	Total
Volumes in library (January 1, 1919)	92,787	11,855	833	1,330	115,340
Volumes added	4,010	1,739	128	244	7,912
Volumes transferred to	8	105	1	3	484
Volumes restored	9	5	1	3	18
Total additions	4,027	1,849	962	1,577	8,414
Volumes withdrawn	2,401	631	339	585	3,956
Volumes transferred from	467	10	2	6	484
Volumes lost	203	20	63	59	345
Total losses	3,071	661	404	650	4,785
Net gain	956	1,188	558	927	3,629
Volumes in library (December 31, 1919)	93,743	13,043	6,150	6,033	118,969

### Registration.

	Central	West	East	Union	Total
Borrowers registered since April 14, 1919	3,474	3,444	1,543	1,617	10,078

NOTE: New system of registration adopted April 14, and all records prior to that date disregarded.

### Expenditures in Library Department.

Per capita	\$ .397
Per book lent	.095

## APPENDIX B.

## American Library Association Form for Uniform Statistics.

The Public Library of the City of Somerville, Mass.

Population served . . . . .	95,000
Free for lending, and free for reference.	.
Total number of agencies . . . . .	182

Consisting of Central Library

3 Branches

High School Department

165 School Rooms

12 Institutions

Number days open during year; for lending, and for reading . . . . .			302
Hours open each week for lending (Central Library) .			72
Hours open each week for reading (Central Library) .			72
Number on staff (library service, adding part time employees to make whole units) . . . . .			32
Number of volumes at beginning of year . . . . .			115,340
Number of volumes added during the year by purchase . . . . .			7,753
Number of volumes added by gift or exchange . . . . .			63
Number of volumes added by binding material not otherwise counted . . . . .			114
Number of volumes withdrawn during the year . . . . .			4,301
Total number at end of year . . . . .			118,969
	Adult.	Juvenile	Total
Number of volumes of fiction lent for home use . . . . .	252,245	110,783	363,028
Total number of volumes lent for home use . . . . .	310,461	196,837	507,298
Number of borrowers registered during year . . . . .			10,078
(All records disregarded prior to April 14, when new registration system was adopted).			
Number of valid borrower's cards December 31 . . . . .			10,078
Number of newspapers and periodicals currently received,			
Titles . . . . .			224
Copies . . . . .			508
Receipts from:			
Local taxation			
Library Department . . . . .	\$32,541	32	
Public Buildings Department. . . . .	9,744	00	
Endowment Funds:			
Total credit . . . . .	1,802	83	
Fines . . . . .	1,969	76	
Other sources, Dog licenses . . . . .	2,197	92	

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 \$48,255 83

## Payments for:

Books . . . . .	\$7,288 34
Pictures . . . . .	22 75
Periodicals . . . . .	1,117 17
Music . . . . .	1 21
Binding . . . . .	2,045 36
Salaries, library service . . . . .	24,601 57
Other maintenance . . . . .	2,679 52

## Public Buildings Department

Janitor service, heat, light, etc., . . . . .	9,530 57
Balance . . . . .	213 43
Balance from Appropriation . . . . .	10 28
Balance from Endowment Funds . . . . .	745 63

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\$48,255 83

**BOARD OF HEALTH****ORGANIZATION — 1919.**

**ROBERT M. LAVENDER, Chairman**  
**WARREN C. BLAIR.**  
**JOHN E. GILLIS, M. D.**

**Clerk and Agent to Issue Burial Permits.**  
**LAURENCE S. HOWARD.**

**Assistant Clerk.**  
**OLIVE M. STANLEY.**

**Agent.**  
**GEORGE I. CANFIELD.**

**Medical Inspector and Bacteriologist.**  
**FRANK L. MORSE, M. D.**  
 (Returned from service in U. S. Army August 15.)

**Acting Medical Inspector.**  
**RALPH F. HODGDON, M. D. (to August 4).**

**Acting Medical Inspector.**  
**LOBING H. RAYMOND, M. D. (August 5 to August 15).**

**Acting Bacteriologist.**  
**HERBERT E. BOWMAN, Ph. G. (to August 15).**

**Inspector of Animals and Provisions.**  
**CHARLES M. BERRY, V. S.**

**Inspector of Milk and Vinegar.**  
**HERBERT E. BOWMAN, Ph. G.**

**Milk Collector.**  
**WILLIAM H. WALLIS.**

**Plumbing Inspector.**  
**DUNCAN C. GREENE.**

**School Nurse.**  
**ELLA B. HORN BROOKE, R. N.**

**Assistant School Nurse.**  
**GRACE M. ANDREWS, R. N.**

**Health Nurses.**  
**HELEN B. BERRY, R. N.                      MARY L. SCOTT, R. N.**

**Matron at Contagious Hospital.**  
**LILLIAN E. GOULD, R. N.**

**Assistant Matron at Contagious Hospital.**  
**GLADYS HORNE, R. N. (from Dec. 1).**

Office of the Board of Health,  
City Hall Annex, January 1, 1920.

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

Gentlemen:— We respectfully submit the following as the forty-second 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, 1919.

#### Nuisances.

A record of the 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:

Complaints referred from 1918 . . . .	48
Complaints received during 1919 . . . .	602
	<hr/>
	650
Complaints referred to 1920 . . . .	27
	<hr/>
Nuisances abated 1919 . . . .	623
	<hr/>
Second and third notices sent on nuisances . . . .	38
Received during 1919 . . . .	602
	<hr/>
Total notices sent . . . .	640

In addition to the above, 252 dead animals have been removed from the public streets. 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.*— Five cases of glanders have been reported during the year. Prompt action was taken in every case, and three of the horses were killed, two being released from quarantine by order of the cattle commissioners.

#### Record of Permits and Licenses Issued.

*Cows.*— Eight applications were received for permits to keep eleven cows, seven of which were granted to keep ten cows.

*Swine.*— Thirty-nine applications were received for permits to keep eighty-two swine, thirty-two of which were grant-

ed to keep sixty-three swine. The fee is one dollar for each swine. On June 3, 1919, the Board of Health voted that no further licenses to keep swine in this city be granted.

*Goats.* — Ten applications were received for permits to keep twelve goats, all of which were granted. The fee is one dollar for each goat.

*Hens.* — Two hundred and sixty-one applications for permits to keep 4,031 hens were received. Two hundred and forty-four permits to keep 3,809 hens were granted, and seventeen permits were refused.

*Grease.* — Thirteen applications were received for permits for fifteen 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.* — Four persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

*Sales of Alcohol.* — Chapter 360, Acts of the Legislature of Massachusetts for the year 1919 provided that no person, firm or corporation other than a registered druggist shall engage in the business of manufacturing, buying, selling or dealing in methyl alcohol, or wood alcohol, so called or denatured alcohol, or any preparation containing more than three per cent of any of the said alcohols, without being licensed so to do by the board of health.

Under the provisions of this act sixteen licenses have been issued. 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 1918 . . . . .	6
Applications received during 1919 . . . . .	28
	<hr/>
	34
Licenses granted . . . . .	12
Licenses refused . . . . .	15
	<hr/>
	27
	<hr/>
Licenses pending . . . . .	7

**Board of Infants.**

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

**Deaths.**

There were 1,074 deaths and fifty-four stillbirths in the city during the year, as specified in the following table, which shows a decrease of deaths under the previous year of 459 due largely to a return to normal conditions without any epidemic.

Deaths at Somerville hospital during the year . . . . .	68
Deaths at hospital for contagious diseases and tuberculosis . . . . .	26
Deaths at home for aged poor (Highland Avenue) . . . . .	42
Deaths at city home . . . . .	8
Deaths at other institutions . . . . .	30

## Mortality in Somerville in 1919.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. GENERAL DISEASES.													
(A. Epidemic Diseases.)													
Cerebro-spinal meningitis.....		2		1									3
Diphtheria .....		3	1		1						2	2	9
Influenza .....	27	4	3		1				2	1			38
Pertusses .....		1					1	1					3
Scarlet fever .....											1		1
Typhoid fever.....						1							1
(B. Other General Diseases.)													
Abscess .....		1											1
Acidosis .....							1	1				1	3
Cancer of breast .....	1						1	2		1		1	6
Cancer of intestines .....					2	2	2		1	1	1	2	11
Cancer of rectum .....	1	1		3		1	2			1	1	1	11
Cancer of stomach .....	2	2	1	2	3		1	1	4	3	1	2	22
Cancer uterus .....		1	1	3	2					1	3	1	12
Cancer other forms.....	2	1	5	2	8	2	8	1	1	3	1	4	38
Convulsions .....												1	1
Diabetes.....	2	1	1	3	1	1	3		1		2	1	16
Erysipelas.....	1							1					2
Pernicious anæmia.....			1		1	2			1	1	1		7
Pleurisy .....		1											1
Septicæmia.....	1			1		1		1	1			1	6
Status Lymphaticus.....												1	1
Tetanus.....						1							1
Tuberculosis pulmonary .....	11	5	7	6	9	7	7	8	4	2	9	1	76
Tuberculosis other forms.....	1	2			1	4		2	2		1	1	14
Tumor .....									1				1
II. DISEASES OF THE NERVOUS SYSTEM.													
Apoplexy.....	5	9	10	8	6	6	5	7	11	4	5	10	86
Locomotor Ataxia .....						1	1					1	3
Meningitis.....		2	1				1				1		5
Myelitis .....			1										1
Neuritis .....												1	1
Paralysis .....			1					1			1		3
Spasmophilia .....												1	1
III. DISEASES OF THE CIRCULATORY SYSTEM.													
Aneurism of aorta.....	2	1				1							4
Angina pectoris.....	1	1	3	2		1					2	1	11
Endocarditis .....	4	1	2		3		1	2		2	1	1	17
Heart disease .....	19	13	9	4	11	9	5	3	8	10	12	9	112
Myocarditis .....	3	5	3	2	3	1	3	1		1	5	9	36
Pericarditis.....					1					1			2
Regurgitation .....	2	1	1		2	1	1	1	1	1	1	1	13
IV. DISEASES OF THE RESPIRATORY SYSTEM.													
Bronchitis .....		2	2		2	2				1	1	1	11
Empyema .....					1						1		2
Laryngitis.....	1												1
Pneumonia .....	39	22	14	21	6	3	2	5	3	12	3	11	141
Pulmonary œdema.....	1	1		1			1						4



## Mortality in Somerville in 1919. — Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<b>V. DISEASES OF THE DIGESTIVE SYSTEM.</b>													
Acute indigestion .....		3	2										5
Appendicitis .....			1		1							1	3
Cholecystitis.....												1	1
Cirrhosis liver.....		1	1	1					1	1			5
Colitis.....							1				1		2
Diarrhœa.....	1		1					1		1		1	5
Enteritis.....		2	1		1	2	2	3	1	2	2		16
Gastritis.....		2	1							1			4
Intestinal toxæmia.....		1			1					1	1		4
Intestinal obstruction.....		1			2	1				1			5
Peritonitis.....		1	1	1	1			1	1			1	7
<b>VI. DISEASES OF THE GENITO-URINARY SYSTEM.</b>													
Cystitis.....		1	1										2
Nephritis.....	6	1	9	5	3	9	5	2	2	4	2	3	51
Uræmia.....	3		1		1			1					6
<b>VII. CHILDBIRTH.</b>													
Placenta previa.....			1										1
<b>VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.</b>													
Gangrene.....			1			2						1	4
<b>IX. MALFORMATIONS.</b>													
<b>X. EARLY INFANCY.</b>													
Atalectasis.....				1									1
Malnutrition.....		2	1	1	1			1					6
Premature birth and congenital debility.....	13	9	2	2	5	2	2	2	3	4	3	6	53
<b>XI. OLD AGE.</b>													
Arterio sclerosis.....	13	14	13	10	7	7	3	8	4	9	10	10	108
Senile dementia.....		1			1	2		1		1	3	1	10
<b>XII. VIOLENCE.</b>													
Accidental burns from fire.....	1		1								2	1	5
Accidental fall.....						1	1	1			2		5
Accidental gas poisoning.....			1										1
Accidental poisoning.....				1									1
Drowning.....	2			1									3
Fracture of skull.....					2								2
Homicide.....									1				1
Railroad.....		1	1	2				1			1		6
Rupture of the intestines.....		1											1
Struck by automobile.....		1					2				2		5
Suicide.....	1		1				1	1	1				5
Surgical shock.....												1	1
<b>Total.....</b>	<b>166</b>	<b>125</b>	<b>108</b>	<b>84</b>	<b>90</b>	<b>73</b>	<b>63</b>	<b>61</b>	<b>55</b>	<b>71</b>	<b>85</b>	<b>93</b>	<b>1074</b>
Population (estimated).....													95,000
Death rate per thousand.....													11.30

## DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one . . . . .	118	59	59
One to two . . . . .	24	15	9
Two to three . . . . .	11	5	6
Three to four . . . . .	9	6	3
Four to five . . . . .	8	5	3
Five to ten . . . . .	18	11	7
Ten to fifteen . . . . .	10	5	5
Fifteen to twenty . . . . .	25	9	16
Twenty to thirty . . . . .	69	32	37
Thirty to forty . . . . .	69	31	38
Forty to fifty . . . . .	84	43	41
Fifty to sixty . . . . .	123	64	59
Sixty to seventy . . . . .	188	84	104
Seventy to eighty . . . . .	206	96	110
Eighty to ninety . . . . .	99	31	68
Ninety and over . . . . .	13	6	7
<b>Total . . . . .</b>	<b>1074</b>	<b>502</b>	<b>572</b>

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000
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
1918 . . . . .	1,533	16.84
1919 . . . . .	1,074	11.30
Average death rate per 1,000 for ten years . . . . .		12.58

Table Showing the Five Principal Causes of Death in Somerville in 1919.

HEART DISEASE.		PNEUMONIA.		CANCER ALL FORMS.		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.
195	21.4	141	15.0	100	10.9	90	9.9	86	9.4

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

MONTHS.	SCARLET FEVER.										DIPHTHERIA.										TYPHOID FEVER.										TUBERCULOSIS ALL FORMS.									
	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
January.....	1	1	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	5	12	9	8	8	5	4	9	12	
February.....	1	1	1	1	1	1	1	1	1	3	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	13	11	10	14	10	16	7	6	7	
March.....	1	1	1	1	1	1	1	1	1	2	1	3	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	8	5	10	6	9	10	10	14	9	7	
April.....	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	9	4	8	5	3	11	7	7	6	
May.....	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	6	13	8	8	9	5	10	8	10	
June.....	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12	10	4	7	8	5	9	8	6	11	
July.....	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	11	5	5	7	3	4	4	4	7	
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	2	10	9	7	6	9	8	3	9	10	
September.....	1	1	1	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	7	6	4	3	4	11	6	8	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	10	6	2	10	6	1	8	7	8	2	
November.....	1	1	1	1	1	1	1	1	1	1	4	3	5	3	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	6	6	5	9	7	6	10	4	6	10	
December.....	2	1	1	1	1	1	1	1	1	3	1	4	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	11	11	10	4	14	6	6	11	4	2	
Total.....	5	3	2	4	11	4	2	3	1	20	15	14	13	25	18	21	24	19	9	6	6	4	6	6	11	1	6	2	1	92	99	91	87	95	74	108	85	84	90	



**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, influenza, 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.

#### 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.* — Eastern Junior High, Prescott, Hanscom, Edgerly and Boys' Vocational schools. Inspector, Dr. Francis Shaw, 57 Cross street.

*District No. 2.* — Baxter, Knapp, Perry and Southern Junior High 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, Forster and Northern Junior High schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

*District No. 6.* — Western Junior High, Lincoln, 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, 11,512 children have been referred to the inspectors during their daily visits, and 718 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:—			
Measles . . . . .		2	
Whooping cough . . . . .		3	
Chicken pox . . . . .		88	
Mumps . . . . .		32	
Scarlet fever . . . . .		8	
Diphtheria . . . . .		2	
Influenza . . . . .		29	
Infantile paralysis . . . . .		1	
Total . . . . .		<hr/>	165
2. Diseases of the nose and throat:—			
Enlarged tonsils and adenoids . . . . .		657	
Inflammatory diseases . . . . .		175	
Other abnormal conditions . . . . .		16	
Total . . . . .		<hr/>	848
3. Diseases of the eyes:—			
Inflammatory conditions of the eyes and lids		46	
Foreign bodies and injuries . . . . .		1	
Other abnormal conditions . . . . .		42	
Total . . . . .		<hr/>	89
4. Diseases of the ears:—			
Inflammatory conditions . . . . .		34	
Other abnormal conditions . . . . .		10	
Total . . . . .		<hr/>	44
5. Diseases of the skin:—			
Pediculosis . . . . .		666	
Impetigo . . . . .		113	
Scabies . . . . .		61	
Eczema . . . . .		59	
Tinea . . . . .		17	
Herpes . . . . .		13	
Miscellaneous conditions . . . . .		169	
Total . . . . .		<hr/>	1,098

## 6. Miscellaneous diseases:—

Diseases of the digestive system . . . . .	23
Diseases of the respiratory system . . . . .	145
Diseases of the circulatory system . . . . .	19
Diseases of the lymphatic system . . . . .	110
Diseases of the nervous system . . . . .	15
Wounds and injuries . . . . .	25
Diseases of the teeth . . . . .	369
Other conditions . . . . .	124
Total . . . . .	<u>830</u>
Total number of diseases reported . . . . .	3,074
Vaccinations performed . . . . .	263
Examinations for vaccinations . . . . .	1,013
Certificate to work . . . . .	184

**Bacteriological Department.**

The work of this department was performed by Herbert E. Bowman, Ph. G., Inspector of Milk and Vinegar until August 15, 1919.

Upon the above date Dr. Frank L. Morse having been discharged as Lieutenant Colonel from the U. S. Army returned to duty. On December 11, 1919 he was incapacitated by illness and his work was again assumed by Mr. Bowman to the end of the year.

**Undertakers.**

Under the provisions of Section 44 of Chapter 78 of the Revised Laws of 1902, twenty-two 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 four nurses employed by this Board.

Two of these are employed as school nurses and as a result of the recommendations of this Board two additional nurses were provided for and assumed their duties on January 14, 1919.



The work of these nurses consists of follow-up work regarding tuberculosis cases and post-natal baby hygiene work.

The reports of the school nurses are made a part of the report of the School Committee and those of the other nurses are made a part of this report being submitted in detail in subsequent pages.

R. M. LAVENDER, Chairman,  
WARREN C. BLAIR,  
JOHN E. GILLIS, M. D.,

Board of Health.

*Attest:*

LAURENCE S. HOWARD,  
Clerk.

## REPORT OF HEALTH NURSES.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

We submit the following report of work performed by us in post natal, infant hygiene and tuberculosis cases from the date of our appointment January 14, 1919, to December 31, 1919.

## Infant Hygiene.

Number of visits made to infants in good condition . . . . .	3433	
Number of visits made to infants in fair condition . . . . .	622	
Number of visits made to infants in poor condition . . . . .	226	
Number of visits made where infants have died . . . . .	46	
Number of visits made where infants have moved out of Somerville . . . . .	129	
Number of visits made where wrong address was given . . . . .	164	
Number of visits made where infants were not at home . . . . .	401	
Number of visits made to infants with Ophthalmia . . . . .	37	
Number of visits made to boarding places for infants . . . . .	25	
Total number of visits to infants . . . . .		5033
Number of infants born in Somerville during 1919 . . . . .	1810	
Number of pairs of twins born in Somerville, 1919 . . . . .	27	
Number of infants who have died in Somerville, 1919 . . . . .	65	
Number of still born infants during 1919 . . . . .	56	
Total number of dead infants for 1919 . . . . .	121	
Number of infants who have moved out of Somerville, 1919 . . . . .	119	
Number of Mothers who had insufficient breast milk . . . . .	400	

## Tuberculosis.

Number of cases of tuberculosis in Somerville, 1919 . . . . .	289
Number of visits made to patients in good condition . . . . .	560
Number of visits made to patients in fair condition . . . . .	292
Number of visits made to patients in poor condition . . . . .	301
Number of visits made where patients have died . . . . .	267
Number of visits made where patients have gone to Sanatoriums . . . . .	151
Number of visits made where patients were not at home . . . . .	231

Number of visits made where wrong address was given . . . . .	324	
Number of visits made where patients had moved out of Somerville . . . . .	<u>173</u>	
Total number of visits made to patients with tuberculosis . . . . .		2299
Number of cases of pulmonary tuberculosis reported during 1919 . . . . .	178	
Number of cases of other forms of tuberculosis during 1919 . . . . .	30	
Total number of cases of tuberculosis reported during 1919 . . . . .		208
Number of cases of Tuberculosis moved out of Somerville during 1919 . . . . .	26	
Number of cases of Tuberculosis who died in Somerville during 1919 . . . . .	90	
Number of cases of Tuberculosis who died out of Somerville during 1919 . . . . .	<u>24</u>	
Total number of deaths from tuberculosis during 1919 . . . . .		114
Number of cases of tuberculosis admitted to Sanatoriums, 1919 . . . . .	33	
Number of cases of tuberculosis previously admitted to Sanatoriums, . . . . .	<u>63</u>	
Total number of Somerville cases of tuberculosis now in Sanatoriums . . . . .		96
Total number of cases of tuberculosis living in Somerville, 1919 . . . . .	289	
Number of homes where there are school children where there is or has been a case of tuberculosis . . . . .	199	
Number of children who attend school from homes where there is or has been a case of tuberculosis, the children having been reported to the schools . . . . .	360	
Number of houses from which the second case of tuberculosis has been reported . . . . .	22	

## Miscellaneous.

Number of cases of typhoid fever reported during 1919 . . . . .		17
Number of visits made to patients with typhoid fever . . . . .	30	
Number of visits made to patients with venereal diseases . . . . .	87	
Number of visits made to patients with trachoma . . . . .	<u>2</u>	

Total number of visits made to infants . . . . .	5083	
Total number of visits made to patients with tuber- culosis . . . . .	2299	
Total number of visits made to miscellaneous cases	<u>119</u>	
Total of visits made during year of 1919 . . . . .		7501

Respectfully submitted,  
H. B. BERRY,  
M. L. SCOTT,  
Health Nurses.

## REPORT OF DEPARTMENT OF MEDICAL INSPECTION.

Somerville, Mass.,  
January 1, 1920.

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

I herewith present the report of the Department of Medical Inspection for the year 1919 including statistics of the Contagious Disease Hospital.

From January 1 to August 4, 1919, Ralph F. Hodgdon, M. D., served as Acting Medical Inspector and from August 5 to August 15, 1919, Loring H. Raymond, M. D., filled this position. Frank L. Morse, M. D., returned from the service of the United States having been commissioned as a Lieutenant Colonel and resumed his duties August 15th. On Dec. 10th Dr. Morse became incapacitated through illness and Dr. Hodgdon assumed the duties of the position for the balance of the year.

## Visits.

Scarlet Fever—Each case must be inspected before release from quarantine to see that the condition of the patient is suitable for release . . . . .	158
Diphtheria—Before patients are released from quarantine two successive negative cultures must be obtained . . . . .	175
Contagious Hospital . . . . .	399
For investigation and diagnosis . . . . .	43
	<hr/>
Total number of visits . . . . .	775

## Contagious Disease Hospital.

Diseases	Dis-				In Hospital Jan. 1, 1920.
	In Hospital Jan. 1, 1919.	Ad- mitted	charged, Well or improved	Dead	
Diphtheria . . . . .	5	102	101	4	2
Erysipelas . . . . .	1	10	8	3	0
Scarlet Fever . . . . .	3	53	52	0	4
Tuberculosis . . . . .	11	42	23	15	15
Whooping Cough . . . . .	0	1	1	0	0
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	20.	208	185	22	21

The daily average of patients was 9.93 in the contagious department, 12.52 in the tuberculosis department, a total of 22.45.

Respectfully submitted,

RALPH F. HODGDON, M. D.,  
Acting Medical Inspector.

## REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass.,

January 1, 1920.

To the Board of Health,  
Somerville, Mass.,

Gentlemen:—

I submit the following as my report for the year ending December 31, 1919;

## Inspections.

The following table shows the number of inspections made during the past year. In order to safeguard the consumer, all establishments handling foodstuffs are under constant supervision. Bakeries, lunch carts and restaurants have been inspected weekly.

Conditions in the Ice Cream and Candy factories have been greatly improved during the last year. All the factories in the city have been inspected monthly.

The Barber Shops are under very careful inspection and must be kept in a sanitary condition and the barbers are required to keep themselves neat and clean and to properly sterilize their instruments.

## Number of Inspections.

Bakeries . . . . .	250	Milk and Cream Plants . . . . .	149
Barber Shops . . . . .	325	Pedlers' Wagons and Stocks	1808
Billiard Halls and Bowling Alleys . . . . .	98	Public Halls . . . . .	30
Candy and Ice Cream Plants	184	Rendering Plants . . . . .	118
Factories . . . . .	266	Slaughter Houses . . . . .	241
Fish Markets . . . . .	617	Stores and Markets . . . . .	4588
Grease Wagons . . . . .	82	Stables . . . . .	362
Hen Houses and Yards . . . . .	581	Swine Pens . . . . .	88
Hide Houses . . . . .	35	Theatres . . . . .	84
Lunch Rooms and Cars . . . . .	548	Vacant Lots . . . . .	78
		Yards and Cellars . . . . .	469

## Articles Condemned.

Owing to market conditions dealers have been obliged to purchase very conservatively and, therefore, no large surplus has been carried by any dealer. There have been less articles condemned than during previous years as the following table will show:

## Fish.

Butter Fish . . . . .	16 Lbs.
Clams . . . . .	½ Bush.
Flounders . . . . .	65 Lbs.
Haddock . . . . .	264 Lbs.
Halibut . . . . .	100 Lbs.
Lobsters (each) . . . . .	12
Mackerel . . . . .	144 Lbs.
Salmon . . . . .	188 Lbs.
Sword Fish . . . . .	16 Lbs.

## Fruit.

Apples . . . . .	1 Bbl.
Apples . . . . .	2 Bush.
Bananas . . . . .	5 Doz.
Blackberries . . . . .	29 Qts.
Blueberries . . . . .	22 Qts.
Canteloupes . . . . .	3 Crates
Grape Fruit . . . . .	3 Boxes
Grapes . . . . .	8 Baskets
Lemons . . . . .	14 Doz.
Lemons . . . . .	1½ Boxes
Oranges . . . . .	4 Boxes
Strawberries . . . . .	18 Boxes
Strawberries . . . . .	3 Crates

## Meats.

Beef (corned) . . . . .	239 Lbs.
Beef (fresh) . . . . .	324 Lbs.
Fowl . . . . .	371 Lbs.
Hamburg Steak . . . . .	84 Lbs.
Liver . . . . .	29 Lbs.
Mutton . . . . .	361 Lbs.
Pork (fresh) . . . . .	203 Lbs.
Swine (whole) . . . . .	2
Sausages (fresh) . . . . .	10 Lbs.
Tripe . . . . .	8 Lbs.
Veal . . . . .	306 Lbs.

## Vegetables.

Asparagus . . . . .	71 Bunches
Beans (shell) . . . . .	3 Bush.
Beans (string) . . . . .	6 Bush.
Beans (string) . . . . .	5 Baskets
Beets . . . . .	6 Bush.
Cauliflower . . . . .	1 Bush.
Celery . . . . .	1 Bush.
Corn . . . . .	12 Bush.
Greens . . . . .	10 Bush.
Lettuce . . . . .	10 Bush.
Lettuce . . . . .	7 Boxes
Parsnips . . . . .	2 Bush.
Potatoes (white) . . . . .	39 Bush.
Potatoes (white) . . . . .	1 Bbl.
Potatoes (sweet) . . . . .	2 Bbl.
Radishes . . . . .	1 Bush.
Rhubarb . . . . .	50 Lbs.

Squash . . . . .	4 Bbl.
Tomatoes . . . . .	9 Bush.
Turnips . . . . .	1 Box
Turnips . . . . .	2 Bush.
Macaroni . . . . .	5 Team loads damaged at fire.

#### Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments and these plants were never in a more sanitary condition than at present.

Owing to labor difficulties the number of animals slaughtered during 1919 in this city was somewhat less than during previous years.

#### Number of Animals Slaughtered in 1919.

Swine . . . . .	1,150,585
Sheep . . . . .	215,739
Calves . . . . .	111,769
Cattle . . . . .	28,181
	<hr/>
	1,506,274

#### Examination of Animals for Contagious Diseases. Glanders.

There has been a steady decrease of glanders in this city for several years which I believe is largely due to a thorough inspection and disinfection of stables and blacksmith shops, and to the discontinuance of public drinking fountains for horses. Every stable and blacksmith shop in the city is in first class condition.

In 1913 there were 55 horses killed for glanders; in 1914 thirty; in 1915, 10; in 1916, 13, but eight of these were in one stable; in 1917, 9; in 1918, 7, and in 1919 only 3 were killed, thus showing a very marked decrease in the disease.

#### Animals Examined.

	Inspected	Quaran- tined	Killed	Released
Horses . . . . .	2,368	5	3	2
Swine . . . . .	504	50	0	50
Cows . . . . .	28	1	0	1
Goats . . . . .	6	0	0	0
Dogs . . . . .	3	3	1	2
	<hr/>	<hr/>	<hr/>	<hr/>
	2,909	59	4	55

During the absence of the agent of this board while serving as Major, 12th Regt. of the State Guard in Boston from Sept. 10 to Oct. 25, 1919, I performed his duties in connection with my own as far as possible.

Respectfully submitted,

CHARLES M. BERRY,  
Inspector of Animals and Provisions.



REPORT OF THE INSPECTOR OF MILK AND VINEGAR AND  
ACTING BACTERIOLOGIST.

Chemical and Bacteriological Laboratory,  
City Hall Annex,  
Somerville, Mass.,  
January 1, 1920.

To the Board of Health,  
Somerville, Mass.

Gentlemen:—

I herewith present my annual report for the year ending Dec. 31, 1919.

On the above date there were in this city licensed to sell milk, 432 stores and 47 dealers, and 152 stores to sell oleomargarine.

Of the 47 dealers, 19 are located in this city and 28 in the neighboring cities and towns, and 4 dealers have discontinued business.

There are approximately 25,000 quarts of milk and 1,900 quarts of cream distributed in Somerville daily, and 16 dealers are pasteurizing their milk according to Revised Laws Chapter 259, Acts 1917.

Table 1.

Months.	Licenses Issued.	License Fees.	Analytical Fees.	Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.
January .....	10	5.00	.....	5.00	10.00	15.00
February .....	19	9.50	.....	9.50	15.25	24.75
March .....	19	9.50	1.00	10.50	41.50	52.00
April .....	19	9.50	5.50	15.00	37.00	52.00
May .....	418	209.00	1.00	210.00	39.00	249.00
June .....	92	46.00	.....	46.00	17.50	63.50
July .....	17	8.50	11.00	19.50	16.00	35.50
August .....	21	10.50	16.50	27.00	84.00	111.00
September.....	11	5.50	8.00	13.50	36.00	49.50
October.....	24	12.00	6.50	18.50	2.00	20.50
November.....	11	5.50	.....	5.50	4.00	9.50
December.....	24	12.00	.....	12.00	5.50	17.50
Total.....	685	342.50	49.50	392.00	307.75	699.75

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 .....	60	40	40	140	20	160
February .....	63	42	62	167	33	200
March .....	156	80	32	268	81	349
April.....	201	80	82	363	64	427
May .....	184	80	86	350	78	428
June .....	80	175	63	318	32	350
July....	114	82	74	270	32	302
August .....	177	66	27	270	135	405
September.....	83	46	83	212	77	289
October .....	104	60	104	268	4	272
November .....	112	74	42	228	5	233
December .....	241	60	28	329	11	340
Total.....	1575	885	723	3183	572	3755

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Temperature Notices.	Total Notices.	Inspections.
January .....	3	1	1	.....	5	10
February .....	3	2	4	.....	9	5
March .....	6	2	5	.....	13	6
April.....	16	13	5	.....	34	12
May .....	18	11	9	.....	38	17
June .....	14	17	12	.....	43	15
July .....	30	24	24	.....	78	29
August .....	30	4	12	.....	46	24
September.....	7	2	4	.....	13	8
October .....	15	7	5	.....	27	17
November .....	10	4	18	.....	32	10
December .....	5	6	3	.....	14	27
Total.....	157	93	102	.....	352	180

There were 4 court cases during 1919, all found guilty and paid a fine of \$10.00 each.

Each month during the year pint samples have been taken from every milk dealer and analysed for food value (fats and solids) and cleanliness (bacterial count and sediment) and the yearly average is shown in the alphabetical list of dealers which follows:

Name of Dealer	Bacteria Per C. C.			
	Butter Fat	Total Solids	Maximum	Past. or Raw
	Legal Standard 3.35%	Legal Standard 12.00%	Allowed Raw 500,000 Past. 100,000	
Acton Farm Milk Co. ....	3.75	12.14	684,000	Past.
A. H. Andrews .....	3.65	12.11	77,000	Raw
*J. Basher & Sons .....	3.25	11.44	290,000	Raw
H. E. Bemis .....	3.79	12.42	214,000	Raw
*H. C. Bennison .....	3.53	12.07	182,000	Past.
E. E. Breen .....	3.70	12.32	294,000	Past.
F. S. Cummings .....	3.70	12.29	61,000	Past.
John Dillon .....	3.57	12.02	264,000	Raw
F. E. Edgerly .....	3.65	12.34	538,000	Raw
A. F. P. Gassett .....	3.83	12.33	564,000	Raw
F. E. Giles .....	3.65	12.13	200,000	Past.
J. E. & H. J. Giroux .....	3.74	12.28	297,000	Raw
B. J. Griffin .....	3.68	12.18	1,536,000	Raw
J. P. Griffin .....	3.66	12.22	730,000	Raw
J. M. Hager & Son .....	3.74	12.25	827,000	Past.
H. P. Hood & Sons .....	3.84	12.29	80,000	Past.
Kendall Brothers .....	3.67	12.24	337,000	Raw
Maple Farm Milk Co. ....	3.81	12.34	108,000	Past.
A. T. Martin .....	3.83	12.35	134,000	Past.
E. M. Monahan .....	3.84	12.38	628,000	Raw
W. F. Noble .....	4.24	12.97	584,000	Past.
P. O'Shaughnessy .....	3.80	12.37	2,558,000	Raw
S. E. Paige .....	3.67	12.16	423,000	Raw
H. A. Prescott .....	3.70	12.20	131,000	Past.
Seven Oaks Dairy Co. ....	3.98	12.64	63,000	Raw
M. P. Shattuck .....	3.51	11.94	848,000	Raw
H. L. Stone .....	3.67	12.11	244,000	Past.
*Swenson Brothers .....	3.54	12.00	345,000	Raw
*F. P. Thompson & Son .....	3.59	12.07	954,000	Raw
Toothacker Brothers .....	3.80	12.32	94,000	Past.
Turner Centre Creamery Co. ....	4.10	12.72	32,000	Past.
A. S. Tyler .....	3.76	12.24	1,074,000	Raw
E. L. Tyler .....	3.68	12.14	446,000	Raw
D. Whiting .....	3.69	12.20	287,000	Past.
J. K. Whiting Co. ....	3.80	12.38	41,000	Past.
C. A. Woodbury .....	3.65	12.14	404,000	Raw

\* Fined for having milk below standard.

The higher the fat and solids the greater the food value. The lower the bacterial count, the greater care in production, better handling or more efficient pasteurization is shown. The analysis of special grades of milk supplied on request.

On February 10, 1919, Mr. William H. Wallis was appointed by the Board of Health as Collector of Milk Samples for this department.

Table 4. — Infant 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.
1915.....	1898	142	25	2.90	86,000
1916.....	1952	132	23	2.58	89,000
1917.....	2035	136	18	2.00	90,000
1918.....	1981	188	18	1.97+	91,000
1919.....	Returns Incomplete.	118	19	2.00	95,000

Notwithstanding the increased cost of all *foods* during 1919 there was only *one* more death reported of children under one year of age from intestinal diseases than in 1918.

For several years this department has recommended that all milk be pasteurized and it is with pleasure that we are able to announce that over 90 per cent. of the milk distributed in Somerville is pasteurized.

Pasteurization is defined by a law which became operative in 1917 and refers to milk which has been heated to 145° F. and held at that temperature for 30 minutes, then *immediately* cooled to below 50° F. There are many details relating to the process of pasteurization which should be given *every dealer's particular attention* and they are best brought out by a pamphlet issued by the Dairy Division of the United States Dept. of Agriculture, extracts from which follow: —

#### Essential Factors In Pasteurization.

“Milk dealers should concern themselves with the efficiency of the pasteurizing process carried on by them and with the relative safeness of the pasteurized product.

The equipment necessary for proper pasteurization of milk should provide for:

1. Heating and holding the entire quantity of milk at the proper temperature (145 degrees F.) for the specified time (30 minutes).
2. Cooling the pasteurized milk to below 50 degrees F. immediately after the heating and holding process.

In order to facilitate proper pasteurization some form of recording thermometer to record the temperature of the milk during the process is usually installed. To check the accuracy of this thermometer frequent comparison should be made with an accurate standard thermometer. The point of attachment of the bulb of the thermometer varies with different apparatus and records secured should not be accepted as conclusive evidence that the entire quantity of milk has received the maximum degree of heat recorded. When the temperature record extends over a period of time, as in the case of vat holders, the charts usually record from the time the milk enters the vat until the milk leaves it. In interpreting the record the time when the vat became filled should be known, and the time of holding the milk at the proper temperature gauged from that point to the time the vat begins to empty. Since all the milk should be held 30 minutes, this will result in some milk being held longer than the required time, as the temperature remains high while the vat is being emptied; but it is the only positive method of assuring that all the milk receives the minimum required treatment.

For ascertaining the actual holding time of the entire quantity of milk in any heating and holding apparatus, there seems to be no better way than by personal observation with an accurate timepiece.

When the temperature of heating is controlled by hand steam valves, the constant presence of the operator is necessary in order to avoid fluctuations in heating. However, with this kind of control slight variations of the temperature record chart may be expected. When automatic temperature controls are used the record on the chart will be more uniform."

## Diagnostic Examinations.

Frank L. Morse, M. D., Bacteriologist of this Board, returned from the service of the United States having been commissioned as a Lieutenant Colonel and reassumed his duties August 15th. On December 10th he was taken ill and I again took up the Bacteriological work and submit the following report for the year:

## Diphtheria.

	Negative	Positive	Total
January . . . . .	147	31	178
February . . . . .	139	46	185
March . . . . .	151	48	199
April . . . . .	109	31	140
May . . . . .	80	44	124
June . . . . .	56	22	78
July . . . . .	47	15	62
August . . . . .	35	18	53
September . . . . .	42	21	63
October . . . . .	46	24	70
November . . . . .	92	20	112
December . . . . .	70	5	75
Totals . . . . .	<u>1,014</u>	<u>325</u>	<u>1,339</u>

## Tuberculosis.

	Negative	Positive	Total
January . . . . .	24	5	29
February . . . . .	15	5	20
March . . . . .	14	5	19
April . . . . .	15	15	30
May . . . . .	23	10	33
June . . . . .	14	18	32
July . . . . .	11	6	17
August . . . . .	8	7	15
September . . . . .	10	4	14
October . . . . .	21	7	28
November . . . . .	8	5	13
December . . . . .	24	3	27
Totals . . . . .	<u>187</u>	<u>90</u>	<u>277</u>

## Typhoid.

	Negative	Positive	Total
January . . . . .	4	0	4
February . . . . .	0	0	0
March . . . . .	0	0	0
April . . . . .	6	1	7
May . . . . .	5	0	5
June . . . . .	7	0	7
July . . . . .	4	1	5
August . . . . .	7	1	8
September . . . . .	8	0	8
October . . . . .	11	0	11
November . . . . .	1	4	5
December . . . . .	4	0	4
Totals . . . . .	<u>57</u>	<u>7</u>	<u>64</u>

Examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhoea and Pneumonia . . . . .	18
Total examinations . . . . .	<u>1698</u>

Respectfully submitted,

HERBERT E. BOWMAN,

Inspector of Milk and Vinegar  
and Acting Bacteriologist.

**SUPPORT OF POOR DEPARTMENT.**

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**Board of Overseers of the Poor.**

FRED E. DURGIN, President.

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

MICHAEL COLL.

**Committees.**

On Finance, Investigation and Relief, and City Home.

MR. DURGIN, DR. CURTIS, AND MR. COLL.

**Clerks.**

JEAN M. HUTCHINS. (Resigned July 26, 1919).

JOSEPHINE M. SANDER. (Appointed Nov. 3, 1919).

CORA F. LEWIS.

**General Agent.**

WILLIAM E. COPITHORNE. (Appointed Mar. 1, 1919).

**Acting General Agent.**

JEAN M. HUTCHINS. (Jan. 1 to Mar. 1).

**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, 1919.

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

Gentlemen, — The reports of the general agent, the warden of the City Home and the city physician, with tables showing the work, are herewith submitted.

Respectfully submitted,

FRED E. DURGIN,  
HENRY F. CURTIS,  
MICHAEL COLL,

*Overseers  
of the  
Poor.*

**REPORT OF GENERAL AGENT.**

---

CITY HALL ANNEX, January 1, 1920.

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

Gentlemen,— I submit the following as the report of the general agent for the year ending December 31, 1919:—

Table No. 1.

**FULL SUPPORT (During the year).**

In City Home (men 33, women 37) . . . . .	70
In City Home, December 31, 1919 . . . . .	51
In private families . . . . .	17
In hospitals for the sick in other towns, cities and state . . . . .	42
In care of state division minor wards (children) . . . . .	11

Table No. 2.

**PARTIAL SUPPORT (Outside Relief).**

Families . . . . .	272
Persons aided (including hospital cases) . . . . .	1,057
Burials . . . . .	6
Permits to State Infirmary . . . . .	10
Average expenses to the city for each (carriage for three) . . . . .	\$4.40

Table No. 3.

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

Number of applications from widows or deserted women . . . . .	98
Number of families aided at close of year . . . . .	74
Number of children . . . . .	297
Amount allowed each family, from \$2.00 to \$14.00 per week . . . . .	
Number of out-of-town families . . . . .	22
Number having no settlement . . . . .	24

**COST TO CITY.**

Somerville settlement . . . . .	\$16,935 28
Settled in other cities and towns (reside here) . . . . .	5,028 18
State . . . . .	5,155 51
Somerville families living in other cities and towns . . . . .	1,701 26
	\$28,820 23

Table No. 4.

## REIMBURSEMENTS.

Commonwealth of Massachusetts . . . . .	\$15,613 38
City of Boston . . . . .	941 91
“ “ Brockton . . . . .	443 10
“ “ Cambridge . . . . .	1,602 97
“ “ Everett . . . . .	472 60
“ “ Haverhill . . . . .	5 71
“ “ Lowell . . . . .	44 28
“ “ Lynn . . . . .	50 00
“ “ Malden . . . . .	3 00
“ “ Medford . . . . .	1 50
“ “ Melrose . . . . .	18 00
“ “ Newton . . . . .	7 25
“ “ North Adams . . . . .	21 65
“ “ Woburn . . . . .	79 25
Town of Arlington . . . . .	156 38
“ “ Duxbury . . . . .	40 00
“ “ Hudson . . . . .	24 00
Individual . . . . .	19 29
	<hr/>
	\$19,544 27

Table No. 5.

## SOMERVILLE HOSPITAL (Patients On City Beds).

Patients having settlement in Somerville . . . . .	53
Patients having settlement in other cities and towns . . . . .	17
Patients having no settlement (chargeable to State) . . . . .	26
Total number of patients sent to hospital . . . . .	96
Amount paid to hospital . . . . .	\$5,218 44

Table No. 6.  
POPULATION AND GROSS EXPENDITURES, 1883 TO 1919.

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 83
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 . . . . .	*86,854	{ 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 }	
1918 . . . . .	90,500	{ Miscellaneous, \$63,420 48 }	78,831 68
		{ City Home, 15,411 20 }	
1919 . . . . .	91,000	{ Miscellaneous, \$67,682 53 }	83,471 87
		{ City Home, 15,789 34 }	

\* Census.

Table No. 7.

## EXPENDITURES IN DETAIL FOR THE YEAR 1919.

1919	Cash Allowance	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 Law.	Total
January .....	\$30.43	\$51.08	\$115.29	\$373.60	\$296.00	.....	\$114.00	\$269.72	\$309.73	\$16.50	\$4,482.37	\$9.11	\$7.58	\$21.43	\$33.00	\$268.00	\$10.00	.....	\$6,407.84
February .....	30.00	.....	86.43	296.50	628.67	.....	.....	280.60	230.14	8.48	2281.45	15.26	6.93	702.86	.....	88.50	10.50	.....	4,666.32
March.....	76.43	23.34	93.01	297.50	615.93	.....	.....	521.85	227.45	7.30	4155.40	7.60	4.75	445.72	.....	201.15	10.00	.....	6,687.43
April.....	74.44	27.64	379.68	344.00	497.69	.....	.....	395.64	12.09	40.83	2934.68	7.53	12.25	441.43	54.72	42.50	6.50	.....	5,271.62
May .....	71.01	15.93	95.29	375.00	.....	.....	.....	514.76	.....	14.33	3669.76	4.84	5.53	445.71	.....	.....	14.00	80.00	5,306.16
June .....	76.51	.....	431.12	326.50	.....	.....	142.00	409.04	.....	13.33	2916.78	6.75	6.86	754.29	.....	222.28	24.00	514.69	5,844.15
July.....	96.93	.....	126.15	335.50	551.37	.....	.....	479.04	.....	8.83	2877.26	12.77	1.53	368.57	10.00	.....	12.50	.....	4,880.45
August.....	108.35	.....	95.29	240.90	989.40	.....	5.00	373.80	.....	16.66	3878.30	8.24	8.79	438.86	.....	.....	8.50	763.00	6,935.09
September...	108.57	.....	433.27	337.00	.....	.....	.....	329.04	.....	8.33	3182.40	7.87	8.50	524.43	.....	296.56	10.50	.....	5,246.47
October.....	110.35	18.42	121.00	282.00	37.76	.....	.....	329.04	.....	8.33	3048.30	7.81	15.00	435.00	202.00	37.50	13.00	.....	4,665.51
November...	147.43	52.51	97.85	328.23	147.85	6.50	.....	445.80	227.99	29.38	3759.90	11.97	3.54	321.57	.....	6.00	16.50	104.00	5,707.02
December....	145.78	.....	667.86	134.00	522.20	.....	.....	434.60	138.90	28.36	3176.00	7.64	8.76	318.57	.....	6.00	8.00	239.57	5,836.24
Totals.....	\$1076.23	\$188.92	\$2,742.24	\$3,670.73	\$4,286.87	\$6.50	\$261.00	\$4,782.93	\$1,146.30	\$200.66	\$40,362.60	\$107.39	\$90.02	\$5,218.44	\$299.72	\$1168.49	\$144.00	\$1,701.26	\$67,454.20



## 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, Esq., 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	Oct. 1918	(Died)
†Herbert E. Merrill . . . . .	May, 1894	1909	inclusive
†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*	inclusive
Philip Koen . . . . .	1912	Nov. 9, 1916	"
Michael Coll . . . . .	November, 1916	to date*	"
Fred E. Durgin . . . . .	October, 1918	to date*	"

Table No. 8.

## RECAPITULATION (Miscellaneous).

Expenditures and transfers . . . . .	\$67,539 53 net
Reimbursements . . . . .	19,544 27
	<hr/>
Net cost to city . . . . .	\$47,995 26

\* Present member.

† Deceased.

Respectfully submitted,

WM. E. COPITHORNE,

General Agent.

## REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1920.

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, 1919:—

Table No. 1.

Number of weeks' board of inmates . . . . .	2,243-5
Number of males admitted during 1919 . . . . .	11
Number of females admitted during 1919 . . . . .	15
Number of males discharged during 1919 . . . . .	6
Number of females discharged during 1919 . . . . .	4
Number of males supported during 1919 . . . . .	33
Number of females supported during 1919 . . . . .	37
Number of males died during 1919 . . . . .	4
Number of females died during 1919 . . . . .	3
Number of inmates in home December 31, 1919 . . . . .	51

City Home Hospital.

Number of weeks' board . . . . .	620-4
Number of patients admitted . . . . .	18
Number of patients in hospital, December 31, 1919 . . . . .	12

Table No. 2.

Reimbursements . . . . .	\$10,690 87	
Net expenditures . . . . .	5,098 47	
	<hr/>	15,789 34
Appropriation . . . . .	15,635 00	
Service transfer . . . . .	154 34	
	<hr/>	15,789 34

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.



## REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN,

Somerville, Mass., January 1, 1920.

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

Gentlemen, — The work of your City Physician during the year 1919 is presented in the following abstract:—

Office consultations and treatments . . . . .	118
Total outside visits . . . . .	529
Confinements . . . . .	13
Vaccinations . . . . .	47
Visits at City Home . . . . .	59
Attended at police station . . . . .	29

## Examinations:—

For legal department . . . . .	33
For highway department . . . . .	19
For police department . . . . .	34
For fire department . . . . .	19

Respectfully submitted,

L. H. RAYMOND,

Acting City Physician.

## REPORT OF RECREATION AND PLAYGROUND COMMISSION.

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City Hall, Somerville,  
January 1, 1920.

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

Gentlemen—The Recreation and Playground Commission for 1919 consisted of the same membership as that for 1918, namely, Mrs. A. H. Weeks, Mrs. Charles E. Mongan and Messrs. Ernest W. Bailey, J. Foster Colquhoun, Charles S. Clark and George L. Dudley.

At the beginning of the year it was decided that it would be expedient to develop as thoroughly as ways and means would permit the several activities which the Commission had carried on during the previous year. These consisted of civic social work, under the leadership of a civic social worker employed by the Commission, summer garden work to be carried on in connection with the public schools, and supervised playground work to be conducted during the summer vacation. An appropriation of \$4100 was requested, of which \$4050 was received, to enable the Commission to prosecute its work.

The work of social service was conducted in the main in the Neighborhood House on Maple Street. Here was the headquarters of the civic social worker and here were organized various activities for the benefit chiefly of the women and girls of that neighborhood. This work was ably supported by the women's clubs of the city who contributed both money and workers. Assistance was given also to a social service center movement at the Bingham School which was organized and conducted by Miss Elizabeth J. O'Neill, master's assistant in that school. In addition to providing the social worker for this undertaking, the Commission rendered some assistance in the maintenance of expenses of the Neighborhood House.

When in the latter part of May, Miss Elizabeth H. Goldthwaite resigned her position as social worker, it was decided not to fill that position until after the summer vacation. In the Fall, decision was made in favor of another line of social service work and not to continue the employment of a civic social worker.

The Commission recommends that social centers be conducted in the Clark Bennett Schoolhouse with the Neighbor-

hood House used as an auxiliary thereto, and in the Bingham School house. For this purpose a worker should be obtained who can organize these social centers and direct their operation.

The school garden work was conducted more successfully this year than ever before. By reason of co-operation with the School Committee, the garden supervisor was able to organize groups of garden workers in the several schools of the city and to have them ready to begin outdoor work as soon as the season was sufficiently advanced. Details of this enterprise are given in the report of the garden supervisor, William B. Moore, which is printed herewith.

The summer playground work was conducted as efficiently as could be expected in view of the small amount of money expended upon it. Owing to the fact that for several years very little additional equipment and very little additional playing material have been bought, it was necessary to conduct the play work within narrow limitations. As will be seen by reading the report of the director, Stephen H. Mahoney, printed herewith, more apparatus and playing material as well as better pay for the play supervisors should be provided during the coming season.

The Commission believes both of these undertakings should be carried on another year for the benefit of the children of this city. It recommends, therefore, that better areas be allotted another year for the use of the children as school gardens and that supervised playgrounds be conducted under the control of the Commission with increased facilities.

The Commission believes, furthermore, that it is desirable to add slowly to the work which it is conducting in order that whatever is undertaken shall be conducted efficiently and with economy before additions are made thereto. For the next year, therefore, it recommends only the continuance of the policies herein discussed with such additions as may develop during the year to indicate beginnings of new enterprises.

Following are the detailed reports of the supervisors of garden work and of the director of playground work.

Respectfully submitted,

CHARLES S. CLARK, Chairman,  
MRS. A. H. WEEKS,  
MRS. CHARLES E. MONGAN,  
ERNEST W. BAILEY,  
J. FOSTER COLQUHOUN,  
FRANCIS P. GARLAND,  
GEORGE L. DUDLEY, Secretary.

## REPORT OF DIRECTOR OF PLAYGROUNDS.

To the Recreation and Playground Commission,  
City of Somerville.

Gentlemen:

It is with pleasure that I submit to your body this second annual report of the activities of the Summer Playgrounds. In offering this report, I intend to bring to your attention the accomplishments of the past season, and suggestions for the conduct of the work in the future.

**Conditions Resulting From the War.**

The season of 1919, unlike the two previous ones, was not influenced by the atmosphere of war, and consequently the character of some of the activities was different from the preceding seasons. This is particularly true of the handwork, which in 1917 and 1918, was devoted mainly to war activities. However, despite the fact that the war operations had ceased, the attendance on the various grounds was affected by the conditions which the war brought about. There was a noticeable decrease in the number of larger children attending the playgrounds, and upon investigation, it was learned that the same conditions prevailed in the neighboring communities where playgrounds are conducted. The general opinion is that the larger boys and girls had found employment and thus were not in attendance.

**Grounds.**

Playgrounds were conducted this year on eight different plots in the city, as opposed to seven grounds in 1918. The new ground was located on Somerville Field, at the western extremity of the city. This ground had been in operation several years ago, but was discontinued at that time because of lack of patronage. The experiment this season proved that the same situation still exists in regard to this playground, for after a trial of three weeks, the numbers did not justify its continuance. One reason for this lack of patronage is, in my opinion, the need of adequate equipment on the ground. The addition of some permanent apparatus on this ground, which in many ways is well adapted for playground purposes, would attract a number of children from a district where the school population is very large. The other seven playgrounds were conducted as in the previous year, on Lincoln Park, Richard Trum Playground, Broadway Park, Kent Street Playground, and the Bennett, Perry, and Hodgkins school yards. Lincoln Park and the Richard Trum Playground were conducted exclusively for

boys, the three school yards were conducted for girls, and the Broadway and Kent Street playgrounds were accessible to both boys and girls.

#### Supervision.

The same number of supervisors and assistants was employed this season as in previous years, with approximately the same amount of expenditure for salaries. Somerville spends less money for playground supervision than other communities of the same size, and has the reputation among playground officials of conducting its grounds on an economical basis. This policy can still be adhered to with no decrease in efficiency, but, in the opinion of the Director, better results would be obtained by a rearrangement of the method of supervision, whereby workers trained in special lines might itinerate. Such a policy has heretofore been adhered to in regard to sewing. The same arrangement might be made for a supervisor of folk dancing.

One difficulty with which the Somerville Playgrounds have had to contend in the last few years has been the large number of inexperienced playground supervisors and instructors on the staff of workers. In the early years of playgrounds in this city, it was customary for members of the playground corps to return each season. The failure of experienced instructors to return has been very noticeable in the past few seasons. This failure to return is undoubtedly due to the low salaries which Somerville has offered in comparison with what they can earn in neighboring cities. During the past season several former Somerville playground instructors were registered among the lists of instructors of other cities. It is therefore necessary for this city to expend more money on playground supervision in the years to come if the playgrounds are to continue in an efficient manner.

#### Meetings.

At regular intervals during the summer season the entire staff of playground supervisors met with the Director at the High School to plan various features which were conducted on the grounds. These meetings have undoubtedly resulted in a uniform arrangement on all of the grounds, and have been the means of exchanging ideas for the betterment of the playground system.

#### Exhibitions.

On Wednesday, the 20th of August, a Demonstration Day was held at the Lincoln Park playground at which the children from all of the playgrounds of the city were present, and par-

ticipated in the program of games, dances, and competitive races which was presented to the public. This demonstration was somewhat different from any previous event conducted by the city's playgrounds in that it lacked the formality of prepared events and was unaccompanied by band music. There was, at this demonstration, also, an exhibit of the handwork made by the children during the season. Such Feature Days should be conducted each season when the circumstances so allow, as they serve both to stimulate the interest of the public in playground activities and afford the children something to which they can look forward during the summer season.

In addition to the demonstration on Lincoln Park, the children of the Bennett School gave a neighborhood festival on their ground on the evening of August 19, the principal feature being the presentation of the playlet entitled "Milk Fairies". This feature, which is intended to teach the advantage of milk as an article of diet, introduced many novel dances, and the costumes for the affair were made by the children on the grounds. A like performance was given on the same day at the Kent Street Playground.

#### Handwork.

The handwork this year consisted almost entirely of work on materials supplied by the Junior Red Cross Organization. Infants' and children's clothing formed the bulk of this allotment, and the children from the five girls' grounds all participated in the making of the articles. This work was supervised, as in the past few seasons, by Mrs. Lillias T. Lawton, and at the close of the season the finished articles were returned to the Junior Red Cross. This is the first season that the handwork has been devoted almost entirely to one type of work. It is felt that such undertakings provide for the children a lesson in public service in addition to the mere practice they receive from the making of the articles. A few of the girls' grounds made additional articles, the girls from Broadway Park making a few quilts for the neighboring children's hospitals.

#### Games.

The portion of the day allotted for more active recreation was occupied, during the summer, in the playing of the customary playground games as in the past seasons. Special effort was made this season to provide games suitable to the younger children who came in larger numbers than heretofore. On the girls' grounds an unusually large number of new games were employed, while the boys, for the most part, adhered to the customary boys' games which are universal on public playgrounds.

### Baseball.

As has been the custom heretofore, both in Somerville and every other American city, baseball was the chief attraction on the boys' playgrounds. Baseball leagues were organized at the outset of the season, and the boys were divided into three groups, as follows:

Class A—the boys above fourteen years..

Class B—the boys between twelve and fifteen years.

Class C—the boys under twelve years.

There was keen competition in each of these three leagues, and a number of boys showed their proficiency in the national game. It is the proud boast of the Somerville playgrounds, since their inception, that more than seventy-five per cent of the players on the High School baseball teams received their first training on the local grounds. The past season has been no exception in bringing to the front several boys showing marked baseball ability. In the opinion of the Director, some method of coupling the baseball interest of the summer playgrounds with the same activity in the schools of the city, would be to the decided advantage of both organizations.

### Dancing.

Folk dancing received its customary attention in the program carried out on the girls' playgrounds, the usual well-known dances being most prevalent. This feature of the playground work is greatly handicapped in our city by the lack of a dancing instructor who should visit each playground regularly. There is great need, also, of providing musical accompaniments for the folk dancing. Many other communities provide phonographs for this purpose, and Somerville would do well to furnish the same.

Despite the above handicap, the children of the playgrounds exhibit much talent in dancing as was evidenced at the demonstration on Lincoln Park and the neighborhood festivals at the Bennett and Kent Street playgrounds.

### Outings.

A custom has grown among the playgrounds to conduct on some one day during the season a picnic or outing for the children of the respective grounds. The arrangement of this outing is left entirely in the hands of the individual supervisors who report their plans to the Director. This past summer nearly all of the playgrounds conducted such picnics, the children journeying to Norumbega Park, Middlesex Fells Reserva-

tion at Stoneham, and such places. In two or three instances this year the business men of the community in which the playground is located offered the use of large automobile trucks for the purpose of transporting the children to and from their picnic ground. Other merchants of the vicinity donated prizes for the sports which were conducted at the picnics. The Director feels that no better testimony of the value of playgrounds could be presented than such action on the part of the people of the community. At the same time the thanks of the Playground Organization is tendered to those individuals who have thus helped to make successful a public undertaking.

#### Evening Supervision.

The repeal of the Daylight Saving Act by the national congress has for the present, at least, interfered with a program which the Director had outlined for evening supervision. The large patronage which some of our city play spaces received during the last two summers had suggested the extension of the playground supervision to go over at least the twilight hours. But unless daylight saving is again resumed, perhaps such supervision will not be advisable.

#### Recommendations.

The playgrounds of Somerville have been under supervision for more than ten years, and have now arrived at a position where the work is no longer in the experimental stage. After such a period of trial, the experiment should be either considered a success or otherwise. Judging by the public sentiment both in Somerville and other communities, it seems plausible to pronounce the movement a success. But if we are to endeavor to progress in this movement, there is much yet to be done in the way of improving our play facilities. I firmly believe that the present is a fitting time to add considerable equipment to the playground system. The following recommendations are made because they seem to the Director very necessary for the future.

1. Permanent store houses for materials on every playground.
2. Additional wading pools, such as the one now in use on Lincoln Park. The repairing of the pool at Trum playground.
3. The re-surfacing of the school yards now used as playgrounds.
4. Seating facilities on all the schoolyard playgrounds.



5. Additional swings on nearly every ground.
6. Additional play space by the enlarging of the Kent Street and Bennett school grounds.
7. The purchase of some permanent equipment, such as, slides, and frame apparatus, on the grounds which do not now possess them.
8. The purchase of a large supply of smaller material, such as, play balls, quoits, etc.
9. The employment of a supervisor to take charge of dancing throughout the city.
10. The extension of supervised play to cover the school year as well as the vacation period.

#### Conclusion.

In concluding my report for the season of 1919, I desire to express my appreciation of the service and co-operation rendered by the heads of departments and other officials of the city. Thanks are due also to the members of the Somerville Playgrounds Association and the ladies of the city for their assistance in procuring and donating handwork material.

Whatever success was accomplished in the past season was due to a large extent to the efforts of the several supervisors and assistants in co-operating with the Director. Finally, too much credit cannot be given to the children of the city for their assistance in aiding the playground management to give to them the best facilities for play that the city could offer. It is to be hoped that the spirit of team work, fair play, and loyalty, developed upon the city's playgrounds, will be manifested in the larger civic undertakings of the future.

Respectfully submitted,

STEPHEN H. MAHONEY,

Director.

October 24, 1919.

**REPORT OF GARDEN SUPERVISOR.**

---

To the Members of the Recreation and Playground Commission:—

Permit me to submit a report of my work as Garden Supervisor in the City of Somerville for the season of 1919.

After one year as your Garden Supervisor, I felt somewhat acquainted with the work to be done, and the desired results to be obtained from this branch of your activities.

The same general plans that were in vogue last year, were put into operation again at the beginning of this season. It was desired by Superintendent of Schools, Mr. Clark, that the garden work be more closely correlated with the general work of the school room. With this idea in mind I made up a school garden record book, one of which is appended to this report and each child having a school garden was given one of these record books, and expected to keep the same. In so doing, arithmetic and spelling, as well as penmanship are linked up with their garden activities.

This year seventeen different schools, with a total number of 374 children participated in garden work. Two large areas were acquired for this work in addition to land used in previous seasons, giving a total area devoted to this work of about  $9\frac{1}{2}$  acres.

The land was prepared and ready for planting about the 15th of April, and all pieces of ground were actually planted and the seeds germinated by the first of June. Everyone of the 13 different pieces of land produced good crops, and all of them are this fall left in good condition for use another year.

The idea of community plots in connection with each school unit was enlarged upon this season, and the sweet corn and squash raised on these pieces produced fine results.

Before the garden work was started each child in each school having a school garden was organized into a Garden Club, with a President, Secretary and Treasurer. Meetings were held at which the Supervisor was present, and gave instructions to the members in the school-room before the planting season opened. In this way the child had a very good idea of how to proceed when the actual work out-doors began. Along this same line all children in public schools cultivating a garden at home or on vacant land were enrolled in the United States School Garden Army. I obtained 2250 signed enroll-

ment cards from children who carried on this form of gardening during the past season, and gave help and advice to all such children who requested it.

During the summer the general appearance of our gardens called forth many words of commendation, both from Somerville citizens and others. The officers of the Middlesex County Farm Bureau paid us several visits, bringing with them farm experts from all over the state to see the methods used and the results obtained.

The children showed a keen interest in their work throughout the entire season and none of the products of their gardens were permitted to be wasted at any time. Parents of children having school gardens were interested enough to see that the vegetables were picked and brought home for their own use or sold by the child.

Another work carried on in connection with the garden activities is that of canning for food conservation. Two young ladies were employed for two days a week during the summer months who carried successfully five canning clubs, with an enrollment of sixty-five members. Most of the children in the canning clubs were also members of the garden clubs, and at least 50 per cent of the material canned came from the school gardens. This material being perfectly fresh and of the very best quality, very little trouble was experienced in getting satisfactory results.

I have just been informed by State Department of Agriculture, that three of the five clubs are to be awarded a banner which certifies that all the members have done work of the highest class and completed all the State requirements in this branch of the work.

On the 14th of August a Field Day and picnic, with several neighboring cities was held at Spot Pond, Stoneham. About 100 members of our garden and canning clubs attended this outing, going in special cars, and a most enjoyable and instructive day was spent.

At the close of the garden season we held very successful exhibitions, one at the Cutler School, and the other at the Southern Junior High School. The interests shown by the children in these exhibits was most noticeable, and the large attendance of adults was very encouraging. At both exhibits were shown lantern slides made from pictures taken of the children at work in their gardens, during the various stages of the garden season.

The work of harvesting all crops and cleaning all pieces of ground was completed in every instance on the 15th of November, and the record books kept by the members of the garden clubs were turned in at this time.

From a careful survey of these books a statement of the amount and value of the garden products for the season has been made, and copy of the same is appended to this report, also a list of tools and equipments owned by the commission and their location this year. Also find appended a report of all expenses connected with the garden activities for the entire season.

I might state that some little notoriety was brought to this city from the fact that first prize of \$15 in cash was awarded the City of Somerville for their school garden exhibit at New England State's Fair, held at Worcester, September 1st. This was won in competition with 22 other cities from all of New England, and helps to prove that the quality of the products raised in the school gardens is of the best.

Permit me to express my appreciation to each individual member of the commission for the interest shown in this work as well as the valuable assistance given at all times, which is in a large degree, responsible for the results obtained.

Respectfully submitted,

(Signed) WILLIAM B. MOORE,

Garden Supervisor.

## Somerville, Mass.

## SCHOOL GARDEN.

## Data Season 1919.

Name of School	Location of Garden	Area in Acres	No. of Children
Knapp . . .	Adrian St. . . .	1	26
Edgerly . . .	Broadway Park . . .	1	25
Morse . . .	Craigie St. . . .	$\frac{1}{2}$	22
Pope . . .	Prospect Hill . . .	$\frac{1}{4}$	15
High School . . .	Central Hill . . .	1	5
Perry . . .	Central Hill . . .	$\frac{1}{4}$	10
Bingham . . .	Lowell St. . . .	1	44
Cutler . . .	City Farm . . . .	1	50
Brown . . .	Powder House Park . . .	$\frac{1}{4}$	18
Highland . . .	Powder House Park . . .	$\frac{1}{4}$	20
Baxter . . .	School Yard . . . .	$\frac{1}{4}$	12
Eastern Junior High	Glen St. . . . .	$\frac{1}{4}$	10
Southern Junior High	Central Hill . . . .	$\frac{1}{4}$	16
Northern Junior High	Central Hill . . . .	$\frac{1}{2}$	22
Carr . . .	Central Hill . . . .	$\frac{1}{4}$	15
Proctor . . .	Central Hill . . . .	$\frac{1}{2}$	24
Western Junior High	Tufts Oval . . . .	1	40
		<hr/>	<hr/>
		9 $\frac{1}{2}$	374

## Season 1919.

## ESTIMATE OF AMOUNT OF CROPS GATHERED AND THEIR VALUE.

## Individual Plots.

Kind	Amt. from each plot	Total amount	Retail mkt. value per unit	Total amount
Radishes . . .	100	37,000	.01	\$370 00
String Beans . . .	6 qt.	2,220	.10	222 00
Shell Beans . . .	8 qt.	2,960	.10	296 00
Yellow eye . . .	2 qt.	740	.25	185 00
Table Beets . . .	200	74,000	.02	1,480 00
Table Carrots . . .	100	37,000	.02	740 00
Swiss Chard . . .	4 pks.	1,480	.25	370 00
Summer Squash . . .	25	9,250	.10	925 00
Tomatoes, ripe . . .	3 pks.	1,010	.65	656 50
Tomatoes, green . . .	1 pk.	370	.30	111 00
Cabbage . . .	6 hds.	2,220	.15	333 00
Beet Greens . . .	1 pk.	370	.25	92 50
Parsnips . . .	50	18,500	.02	370 00
				<hr/>
				\$6,151 00

## Community Plots.

Sweet Corn . . .	825 doz.	.35	288 75
Winter Squash . . .	8,500 lbs.	.04	340 00
			<hr/>
			6,779 75

## Canning Club Values.

No. Participating	Average Value of Products	Total Value
42	16.50	693 00
		<hr/>
	Total Value	7,472 75

November 15, 1919.

## REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,  
CITY HALL, Somerville, January 10, 1920.

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, 1919, by the Engineering Department and of 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.

In previous reports the general work, charter requirements and city ordinances relating to the duties of the city engineer have been fully described.

On account of the excessive cost very little new construction work has been attempted, the greater part of the work done, being for repairs and maintenance in the various divisions.

Divisions	Appropriations and Credits		Expenditures	Balances
City Engineer . . . . .	\$12,540 00	934 00	\$13,473 42	\$ 58
Parks Maintenance . . . . .	9,990 00		9,989 46	54
Playgrounds Maint. . . . .	4,050 00	265 87	4,312 97	2 90
Sewers Maintenance . . . . .	20,660 00	107 81	20,766 62	1 19
Sewers Construction . . . . .	5,295 77	142 50	4,753 52	684 75

(Expenditures are shown in detail in the City Auditor's annual report).

### CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENSES, 1919.

Sewers, — comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments and all engineering work relating to sewers and supervision . . . . .	\$1,475 25
Highways, — comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department . . . . .	2,927 11
Sidewalks, — comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments . . . . .	1,118 96
Water Works, — comprising lines, grades, locations of mains, gates, hydrants and services and other matters relating to the department . . . . .	690 95
Parks and Public Grounds, — comprising surveys, plans, estimates, profiles and grades, including laying out of	

parks, playgrounds, boulevard and supervision . . . . .	1,256 89
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds . . . . .	362 47
Street Numbering,—comprising locations of buildings, plans, assigning street numbers . . . . .	253 75
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading . . . . .	195 52
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc. . . . .	25 00
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc. . . . .	484 56
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 . . . . .	94 92
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles and conduits . . . . .	490 61
Setting Stone Bounds and Brass Rods,—defining street lines . . . . .	123 53
Office Work,—comprising record of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting . . . . .	2,428 11
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees . . . . .	208 45
Holidays, Vacations and Sickness . . . . .	945 09
Guard duty (Boston Police strike) . . . . .	392 25
Total . . . . .	<hr/> \$13,473 42

Value of field instruments, tools and office instruments, \$2,000.00.

The total cost of maintaining the Engineer's Division since it was established, 1872-1919, both years inclusive, has amounted to \$393,305.

Six assistants have been employed during the year on engineering work. Assistants and employees in other divisions of the department have returned from War duty and have been reinstated by the Civil Service Commission. Two assistants from the engineer's division were on duty for seven weeks during the Boston police strike in September and October.

A number of plans were made during the year for street acceptance and six streets have been accepted as public highways, under the betterment act; the greatest number of streets accepted as public ways in any one year being twenty-three.

There are plans for acceptance of eleven private streets on file in this office, that for various reasons have not been made public ways.



## STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1919, UNDER THE BETTERMENT ACT.

Name of Street	Ward	From	To	Width in ft.	Length. in ft.	Date of Acceptance
Allen Street . . .	2	Somerville Avenue	Charlestown Street	25	644	January 5, 1920.
Cooney Street . . .	2	Beacon Street	Line Street . . .	30	245	December 31, 1919.
Hillsdale Road . . .	7	Conwell Avenue	Sunset Road . . .	40	632	December 31, 1919.
Hunting Street . . .	2	South Street . . .	Cambridge Line . . .	30	117	December 31, 1919.
Maine Terrace . . .	1	Maine Avenue	Southeasterly . . .	32	205	September 17, 1919.
Windsor Street . . .	2	Cambridge Line	Northerly . . .	40	40	August 1, 1919.
Windsor Street . . .	2	End of above . . .	Fitchburg R. R. . .	27	490	August 1, 1919.
Total . . .			(0.450 miles)		2373	

The total length of public streets in the city is 84.296 miles, and private streets 16.502 miles. (See table at end of report for location, width, length, etc.)

**Length of Public Streets in Each Ward.**

	Miles.
Ward one . . . . .	10.659
Ward two . . . . .	9.572
Ward three . . . . .	7.630
Ward four . . . . .	9.965
Ward five . . . . .	12.388
Ward six . . . . .	13.506
Ward seven . . . . .	20.576
Total length of public streets in the city . . . . .	84.296

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.

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds, the year when set, and whether existing or removed from 1860 to 1907 inclusive; and in the reports of 1908, 1910, 1911, 1913 and 1919, together with the following table will show location of all bounds set to 1920.

**STREET BOUNDS SET IN 1919. .(Brass rods set in cement).**

- Connecticut Avenue, — East side at Mystic Avenue X 2 foot offset lines.
- Connecticut Avenue, — West side at Mystic Avenue X 2 foot offset lines.
- Maine Avenue, — West side at Mystic Avenue X 2 foot offset lines.
- Maine Avenue, — West side at north line Maine Terrace produced X 2 foot offset lines.
- Minnesota Avenue, — East side at Pennsylvania Avenue X 2 foot offset lines.
- Minnesota Avenue, — East side at Broadway X 2 foot offset lines.
- Rhode Island Avenue, — West side at Mystic Avenue X 2 foot offset lines.
- Rhode Island Avenue, — West side at Pennsylvania Avenue X 2 foot offset lines.
- Whitman Street, — North side at Packard Avenue X 2 foot offset lines.
- Whitman Street, — North side at intersection tangents to true lines.

There are at the present time 630 bounds or brass rods set for defining street lines.

Eleven new streets have been constructed, under the betterment act, with bituminous macadam wearing surface, con-

crete gutters and granite edgestones, a total of 4,161 feet (.79 mile); all being done by contract. 7,755 feet (1.47 miles) of new edgestone were set in this construction work.

The average cost of this type of construction complete, for a forty-foot width street, was \$8.20 per linear foot, a high rate, on account of the unusual cost of materials and labor.

Assessments have been levied on abutting property owners for a portion of the cost of constructing these streets.

Old granite block pavement has been removed, the blocks recut and laid on a concrete base with a cement grout; sections of Washington Street — Webster Avenue — Beacon Street — Tufts Street have been constructed with this type of pavement. 6,208 square yards (2,264 feet in length) were constructed by contract at \$3.40 per yard complete.

The total length of permanent paved streets in the city amounts to 17.2 miles.

Grades were given and measurements taken for the re-construction of twenty-six streets with a bituminous wearing surface, a length of 21,200 feet (4 miles).

Table of Street Construction.

	Square Yards	Miles
*Streets paved with granite blocks . . . . .	121,991	5.15
**Streets paved with concrete . . . . .	23,990	1.42
†Streets paved with asphalt 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 bithulithic (patent) . . . . .	3,059	0.06
Combination pavement (concrete base with bituminous top) . . . . .	89,205	5.92
‡Streets macadamized (bituminous binder) . . . . .		38.52
Streets macadamized (water bound) . . . . .		28.17
Streets graveled or unimproved . . . . .		16.91
Total . . . . .		100.80

\* Also 31.9 miles (single track) electric railway paved with granite, asphalt, bithulithic, 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).

Lines and grades were given for constructing seventeen new granolithic sidewalks, 6,393 square yards (1.3 miles), and assessments computed, the abutting property owners paying one-half the cost.

In laying out new work, under orders passed for construction of sidewalks, etc., occasionally portions of buildings and fences are found to be encroaching on the sidewalk and on

some of the old rangeways these encroachments have existed for many years; as improvements are made, the full width of sidewalk should be maintained.

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 for brick.

Miles of Edgestone, Granolithic, Gravel and Brick Sidewalks in Each

	Ward.			
	Edgestone	Gravel Sidewalk	Brick Sidewalk	Granolithic Sidewalk
Ward one . . .	19.827	3.756	12.093	4.617
Ward two . . .	16.286	6.247	6.606	3.425
Ward three . . .	14.325	0.967	11.572	1.784
Ward four . . .	15.309	1.342	9.993	3.906
Ward five . . .	22.679	4.540	12.194	5.875
Ward six . . .	24.826	4.696	10.678	10.402
Ward seven . . .	32.499	2.484	8.462	21.920
	145.751	24.032	71.598	51.929

(Details, etc., streets and sidewalks in report of Street Commissioner.)

The Boston Elevated Railway Company has made extensive repairs in its roadbed in this city during the past year, replacing long sections of old tracks with new and heavier rails. There are a number of miles of trackage, orders having been granted for widening, however, in the city's main thoroughfares where the old granite block pavement, within the railroad location, should be relaid and grouted with 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 length) at the present time in the city's streets. A considerable length of high power cables have been placed in underground conduits.

Plans have been made by the various companies 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. 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 17.43 miles of telephone conduits, 12.42 miles of electric light conduits, 1.65 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 respectively 63.24 and 28.0 miles of gas mains in the city's streets.

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. (Length of water mains details, etc., in report of Water Commissioner.)

Lines and grades have been given for the erection of city buildings, and plans and sketches made for the laying out of surrounding grounds.

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. Federal, State and Municipal hearings have been attended where information was required.

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 schedules of assessments made out showing the property owners.

Total number of plans on file in the office is approximately eight thousand one hundred.

The city map was revised and printed in January, 1919; this new map has been of considerable value for various departmental purposes and useful for real estate agencies, auto touring, etc.

I respectfully repeat some of the more important recommendations and suggestions made in reports of the city engineer for a number of years past which are for the improvement of conditions in this city — abolishment of the dangerous grade crossing at Park Street, as decreed by the court a number of years ago—reconstruct railroad bridge, Broadway (North Somerville) full width of street—construction of new bridge over railroad at Prospect Street, full width, the existing old, narrow wooden structure being wholly inadequate for the increasing auto travel—replacement of railroad bridge over Washington Street (East Somerville) designed to increase head-room in street and improve drainage, where at present, traffic is seriously impeded—extension of permanent street pavement, using old granite block, re-cut, laid on a concrete base—change city boundary line, North Somerville-Medford, thereby accomplishing a number of needed improvements es-

pecially in the drainage system in this vicinity—construction of proposed sewer mains and storm drains in railroad valley, extending from near Gilman Square to Lowell Street—construction of proposed storm overflow drain from Somerville Avenue into Miller's River, at the East Cambridge line, for the relief of flooded streets and cellars in times of heavy storms—re-numbering old main thoroughfares and re-naming certain streets to avoid duplication and prevent confusion—adoption of special ordinances concerning city inspection on all underground work done by private companies or corporations and regulations as to method of street openings—making of block plans covering the entire city area, useful to city departments—stone and sand obtainable on certain lots owned by the city to be utilized in construction work.

#### SEWER DIVISION.

The high cost of materials and labor has prevented the extension of the "separate system" sewers and likewise storm drain construction work, except that absolutely necessary.

No sewers have been petitioned for during the year and only a small amount of new construction work has been done.

#### Construction Account, Statement of Expenses, 1919.

Constructing storm drains . . . . .	\$1,494 19	
Constructing catch basins . . . . .	2,481 14	
Constructing manholes on sewers . . . . .	431 58	
		<hr/>
Cost of new work . . . . .		\$4,406 91
Charged to other departments, materials, etc.	142 50	
Materials on hand December 31 . . . . .	1,381 00	1,523 50
		<hr/>
Total . . . . .		\$5,930 41
		<b>Credit.</b>
Appropriation . . . . .	\$4,250 00	
Balance unexpended, 1918 . . . . .	1,045 77	
		<hr/>
		5,295 77
Received for materials, etc. . . . .	142 50	
Materials on hand January 1, 1919 . . . . .	1,176 89	
		<hr/>
Total . . . . .		6,615 16
		<hr/>
Balance unexpended (over to 1920) . . . . .		\$684 75

The Fremont Street storm drain has been completed, discharging into Mystic River, and future extensions will provide for the disposal of storm water for the northerly slope of the Winter Hill district.

Storm drains have been commenced in Elmwood Street and Conwell Avenue and will be completed during 1920.

This work has been done by the city employing day labor. 550 feet of 12" pipe were laid during the year.

The total length of the city's drainage system is 113.11 miles, and the entire cost of construction has amounted to about \$1,348,246.00; exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

The city's assessment for the Metropolitan sewerage system for the past year was \$51,158.14 on construction account and \$37,086.72 for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,411,266.79 (1892-1919, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

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, and details of construction in previous reports.

STATEMENT OF SEWERS AND STORM DRAINS CONSTRUCTED TO 1920.

Total length of public sewers in the city, January 1, 1920	.	.	.	.	.	501,459.6 ft.
Total length of private sewers in the city, January 1, 1920	.	.	.	.	.	<u>34,748.0</u>
Total length of sewers in the city, January 1, 1920	.	.	.	.	.	536,207.6 = 101.555 miles*
Total length of storm drains in the city, January 1, 1920	.	.	.	.	.	<u>61,012.3 = 11.555 miles</u>
Total length of city drainage system, January 1, 1920	.	.	.	.	.	113.11 miles
Total length of Metropolitan sewerage system mains running through the city	.	.	.	.	.	3.475 miles

\* (32.344 miles separate system sewers).



The 1918 report contains a compiled table of Storm Drains constructed to 1919 showing length, cost, date of construction, district benefited, etc.

Twenty-nine catch basins have been constructed in the highways during the year, making a total of 1,964 basins in the city for drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways . . . . .	1,802 basins
Located in city boulevard . . . . .	33 "
Located in parks (17) and other city lots (12) . . . . .	29 "
	<hr/>
Total catch basins constructed and maintained by the city . . . . .	1,864
By Boston & Maine Railroad Company on railroad locations . . . . .	36 basins
By State, located in boulevards, and highways . . . . .	129 "
	<hr/>
	165
Total catch basins in the city for storm drainage purposes . . . . .	<hr/> 2,029

The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow, and storm drains completed in certain localities as previously recommended.

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, 1919.

Maintenance of sewers, including cleaning and flushing (113.11 miles) . . . . .	\$4,732 40
Maintenance of catch basins, cleaning and flushing (1,864) . . . . .	11,437 41
Maintenance of storm water pump, Medford Street . . . . .	82 66
Changing line and grade and repairing catch basins . . . . .	880 41
Changing line and grade and repairing manholes . . . . .	638 79
Repairing old sewers . . . . .	1,055 68
Inspection and location of house drains . . . . .	644 26
New tools and supplies . . . . .	431 10
Repairs of tools and property . . . . .	57 11
Maintenance of sewer division yards . . . . .	669 50
Telephone . . . . .	53 50
Expressing, etc. . . . .	1 32
	<hr/>
	\$20,684 14

Labor, teaming and materials for other depts. . . . .		82 48
		<hr/>
Total expenditure . . . . .		\$20,766 62
	<b>Credit.</b>	
Appropriation . . . . .	\$20,660 00	
Received from other departments:—		
Labor and teaming . . . . .	74 12	
Materials . . . . .	33 69	
	<hr/>	
		107 81
		<hr/>
Total credit . . . . .		20,767 81
		<hr/>
Balance unexpended . . . . .		\$1 19

Value of tools and property on hand in maintenance of sewers, \$2,500.00.

A permanent force of men, varying in number from twelve to seventeen, 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.

Approximately 5,300 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of about \$2.15 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$143.00. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning per basin has been about \$6.14 the past 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 manholes have been repaired and grade or line changed.

One hundred three permits have been issued to licensed drain layers for connecting buildings with the main sewers and storm drains, fifty-five being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

Certain persons are licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 16,523 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 com-

panies, 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.

Under this division about seventy-five acres are maintained as parks and playgrounds, and approximately a mile of city boulevard; 65.5 acres are owned by the city and certain areas owned by private parties are turned over to the city for recreation purposes, also satisfactory arrangements have been made for a number of years whereby the city has the use of Tufts College playfield during the summer vacation months, and skating areas in the winter. Over 2,000 trees of various varieties are located on these grounds. These areas when completely developed will compare favorably with other cities in the vicinity.

Athletics in general have revived since the war and the baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have been in constant use as in former years. The money generally spent for flower beds, shrubs, etc. for ornamentation of the various city grounds has been used in cultivating areas of park and playground land. Many school children have devoted their time and energies to the raising of vegetables on these playfields; the total cost for plowing, harrowing, fertilizing, etc., amounting to \$285.32.

The past year, this division of the engineering department has had the supervision of plowing and harrowing of private land throughout the city, the owners paying the cost, as provided by law, whenever the city does the work at their request.

#### MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1919.

Playgrounds		Parks
\$328 73	Broadway Park (15.9 acres) . . . . .	\$1,694 55
	Broadway Parkway (2.0 acres) . . . . .	207 25
188 88	Central Hill Park (13.1 acres) . . . . .	1,793 94
1,109 82	Lincoln Park (8.3 acres) . . . . .	886 25
11 01	Prospect Hill Park (2.6 acres) . . . . .	1,306 6
24 00	Tufts Park (4.5 acres) . . . . .	829 08
	Paul Revere Park (.02 acre) . . . . .	13 25
	Belmont Street Park (0.4 acre) . . . . .	422 88
	Powder House Boulevard (0.9 mile long) . . . . .	476 07
	Powder House Square Parkway (0.2) acre) . . . . .	49 12

	Cemetery, Somerville Avenue (0.7 acre) .	125 12
1,060 58	Somerville Field at Alewife Brook (11.5 acres) . . . . .	771 51
679 29	Richard Trum Playground, Cedar Street and Broadway . . . . .	193 70
230 74	Playground, Glen street and Oliver street (0.9 acre + 1.5 acres private land) . . . . .	36 79
104 80	Playground, Kent street and Somerville avenue (0.8 acre) . . . . .	108 84
8 25	Playground, Poplar and Joy street (0.5 acre)	25 00
3 00	Playground, Beacon street, near Washington street (0.2 acre) . . . . .	10 00
32 95	Playground, Webster avenue, near Cambridge line (0.2 acre) . . . . .	20 00
152 43	Playground, Mason street and Broadway Tennis court (0.3 acre) . . . . .	
67 72	Playground, Fellsway East (2.5 acres private land) . . . . .	
57 40	Tufts College Land (Summer and Winter Playground, 4.8 acres) . . . . .	
87 50	Plowing, harrowing and fertilizing Park and Playground areas for planting . . . . .	119 45
165 87	Plowing, harrowing, etc., for Recreation Commission, Private land . . . . .	
	Total expenditure, maintenance (75 acres) 65.5 acres city property + 8.8 acres private land, .7 acre cemetery and 0.9 mile boulevard, and 0.54 mile parkway roads . . . . .	
<hr/>		<hr/>
\$4,312 97		\$9,089 46

Credit.

Playgrounds and Recreation		Parks
	Appropriation for Parks . . . . .	\$9,990 00
	Transfer to City Engineer Account . . . . .	900 00
\$4,050 00	Appropriation for Playgrounds . . . . .	
265 87	Received from Recreation and Playground Commission 165.87 By transfer 100.00 . . . . .	
<hr/>		<hr/>
\$4,315 87	Total credit . . . . .	\$9,090 00
<hr/>		<hr/>
\$2 90	Balance unexpended . . . . .	\$0 54

The number of men employed has varied from seven to sixteen.

The city's assessment for Metropolitan parks and boulevards for the year 1919 amounted to \$16,468.70 on construction account, \$34,048.82 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 \$7,917.24; for the improvement of Alewife brook and maintenance of same \$1,169.30 and for the maintenance of Wellington bridge across Mystic River, \$3,394.58. The

total of these assessments amounts to \$62,998.64, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1919.

The total assessment paid to the State for parks and boulevards amount to \$765,970.79, January 1, 1920, 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.

Extra land has been taken at the junction of Broadway and Alewife Brook Parkway for future improvement of this roadway.

The Metropolitan Park Commission have furnished six band concerts, certain evenings during the summer months, at Broadway Park and Somerville Field.

The playground area located on Broadway at Cedar Street has been named "Richard Trum Playground"; this young war hero was killed on foreign soil.

A new flag pole has been erected at Broadway Park, replacing one destroyed by lightning.

All tar walk on Central Hill Park should be reconstructed and the wooden seats in the grand-stand at Somerville Field rebuilt immediately.

A permanent concrete field house should be constructed at the Somerville athletic field with all modern equipment and the remaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed complete laying out).

The city has become so densely populated (about 22,000 persons to a square mile) 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 regular park employees 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 should be maintained during the summer evenings for young men and women working in the factories daily.

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, thereby preserving an historical spot on the top of Winter Hill for the future, and also making a convenient connection for travel.

In connection with the departmental work the Recreation and Playground Commission and Playgrounds Association have been of great assistance in advising, directing and promoting the city's welfare. (Details, etc., in Commission and Association reports).

The total yearly expenditure by the city departments and Somerville Association for recreation and play is over \$13,000.00.

#### 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. (Name of Oak Square changed to Wilson Square).

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 Feet.		Length.	
				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 st.	Vinal ave.	Public.	40	508	.....	.....
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	.....	.....
Allewife Brk pky	Mystic Val. pky.	Cambridge line	Public.	.....	4,775	.....	.....
Alfred	Broadway	Medford line	Private.	50	.....	50	.....
Allen	Somerville ave	Charlestown st.	Public.	25	644	.....	.....
Allen ct	Park st.	Northwesterly	Private.	20	.....	150	.....
Alpine	Cedar st.	Southeasterly	Public.	30	667	.....	.....
Alpine	Alpine st.	Lowell 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	Foskett 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	.....	.....

‡‡Metropolitan Park Commission Boulevard.

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	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.	Angle in st. s'ly	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 B.	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 in Feet	Length	
			or Private		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.	Public.	30	245	....
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 st.	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	Fellsway	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. — Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	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.	Northerly	Private.	30	....	322
Earle	End of above	Fitchburg R. R.	Private.	15	....	115
East Albion	Mt. Vernon	E. of Moreland	Private.	25	....	183
	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	North st.	Powder House	Private.	40	....	915
		Blvd.				
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.)						
Fennell	Hinckley st.	Northwesterly	Private.	20	....	175
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 or Private	Width		Length	
				in Feet	Public	Private	Public
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	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	....
Hennessy 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	....

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.	Public.	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	Public.	30	117	....	
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.	16	....		168
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	Width	Length	
			or Private	in Feet	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.	Washcock 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	537	....
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
Lovell	Broadway	Electric ave.	Public.	40	385	....
Lowden ave.	Broadway	Foskett 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	Public.	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.

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
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.	or 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.

†State Highway.

‡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
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	2,147	....
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 ave.	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 in Feet	Length	
			or Private		Public	Private
Prosp't 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 Ham- ilton 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.	Highland 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 or Private	Width in Feet		Length Public Private	
				Public	Private	Public	Private
Stone ave.	Union sq.	Columbus ave.	Public.	40		676	....
Stone ave.	Columbus ave.	Prosp't 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	....
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	....
Thorp	R. R.	Kingston st	Public.	40		115	....
Thurston	Highland ave.	Southwesterly	Public.	30		468	....
Timmins pl.	Broadway	Richdale ave.	Public.	40		1,660	....
Tower ct.	Dane st.	Westerly	Private.	3.5		....	97
Tower	Tyler st.	Northeasterly	Private.	25		....	150
Tremont pl.	Crown st.	Highland ave.	Public.	40		559	....
Tremont	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	Length	
			or Private	in Feet	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.	40	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	....	454
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	Cambridge Line	Northerly	Public.	40	40	....
Windsor	End of above	Fitchburg R. R.	Public.	27	490	....
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.	Mystic ave.	Middlesex ave.	Private.	40	....	583
Wisconsin ave.	Broadway	Penn. ave.	Public.	50	499	....
Woodbine	Centre st.	Westerly	Private.	30	.....	461
Woodbine Ex.	End of above	Lowell st.	Private.	35	.....	212
*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	to Wyatt st.	Private.	20	....	315
Wyatt	Concord ave.	Lincoln pkway	Public	40	496	....
Yorktown	Cambridge line	N. E. line				
Yorktown	N. E. line	Malvern ave.	Public.	40	294	....
Yorktown	Malvern ave.	Northerly	Private.	40	....	100

\*Proposed.

†Sidewalk in Somerville.

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
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'ly and W'ly	Private.	20	....	370	
Total						445,083	87,128

Public, 84.296 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 16.502 miles.

Total length of streets in the city, 100.798 miles.

## REPORT OF THE STREET COMMISSIONER.

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OFFICE OF THE STREET COMMISSIONER,  
CITY HALL, Somerville, January 1, 1920.

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

Gentlemen:— I most respectfully submit the forty-fourth annual report, containing a brief summary of the principal work performed by the highway department, by day labor and contract, during the year 1919, 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.

The advantages of good streets are not confined to the tax payers, or to those living in the immediate vicinity of any street, but are shared by all who avail themselves of the increased facilities.

The prosperity of any city depends upon the condition of its streets. The influence of good roads toward the development and increase in value of any city will hardly be questioned.

### Highway Maintenance.

Now that the war is over, it is the intention of the United States Government, states, counties, cities and towns to spend a large amount for road construction and repairs the coming years. I hope our city, and I know it will, keeps pace with the others in the improvement of its streets and on the same basis as last year "Pay as you go."

The department has done some good work with the cold patch preparation in filling holes in all kinds of streets and sidewalks, using 8,291 gallons of Barrett's and 4,272 gallons of Headley's mixed with stone or gravel. A supply of this preparation is kept mixed at the city yard. It is also handy in caring for police reports and emergency calls for streets and sidewalks.

\$76,662.52 was expended for Highway Maintenance.

### Underground Wires.

The New England Tel. & Tel. Company constructed conduits on Curtis street from Teele square to Conwell avenue and enlarged the conduits on Springfield street from Concord square to the Cambridge line.

### Snow and Ice.

This department removes the snow and ice from sidewalks, and sands same when necessary, in front of all public grounds and buildings and the bridges made necessary by the abolition of the grade crossings.

\$1,579.05 was expended for the care of snow and ice. 47 cubic yards of snow and ice were removed. 12 cubic yards of sand and 302 cubic yards of ashes were used in caring for icy sidewalks and crossings.

### Crushed Stone.

The William J. McCarthy Co. furnished 781 tons of local crushed rocks at \$1.50 per ton, 60 tons at \$1.70 per ton and 185 tons of \$1.90 per ton at their crusher, and 6.615 tons at \$2.10 per ton on line of work; Coleman Brothers, 3,800 tons of trap rock at \$2.20 per ton on line of work.

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. The Boston and Maine R. R. repaired and replanked the Cross street and Walnut street bridges. The iron fences and railings to our bridges have been cleaned and painted.

### Steam Rollers.

No. 1 roller worked 152½ days.

No. 2 roller worked 135½ days.

No. 4 roller worked 122½ days.

The old No. 2 roller should be exchanged for a new fifteen ton maintenance roller and a scarifier attachment purchased for the No. 4 roller.

### Sidewalks Maintenance.

There are many miles of old brick sidewalks that are in poor condition and are continually being patched. There should be enough money appropriated in this account to allow the department to remove the old bricks and substitute granolithic.

If the city follows out the policy began a few years ago the old brick sidewalks in Union square will be replaced with granolithic. When this square is finished Davis square should be considered.

7,130 linear feet of edgestones were reset. 2,398 square yards of brick sidewalks were relaid. 700 square yards of paved gutters were relaid.

Repairs necessitated by police reports pertaining to defects in the sidewalks are charged to this account.

\$7,098.87 was expended for Sidewalks Maintenance.

#### Street Sprinkling.

The American Car Sprinkler Co., of Worcester, flushed and sprinkled all the main streets and squares, under a contract of eight hours a day, seven days a week, for \$825.00 a month and gave good satisfaction. I recommend a contract be made the coming year with this concern for a twelve-hour day so as to have the squares flushed early in the morning before the business houses open.

I also recommend that all the water bound, as well as the Tarvia Macadam, be covered with the cold tar preparation.

Calcium chloride was used in the winter on the squares to keep down the dust to the satisfaction of the store-keepers.

Dust layers used during the year:—

- 146,515 gallons of Tarvia "B" (Barrett's)
- 14,283 gallons of Besco Oil.
- 8,043 gallons of Emerald Oil.
- 7,753 gallons of McKenna's Oil.
- 8,117 gallons of Oilite Oil.
- 7,000 pounds of Calcium Chloride.

This department should have a new auto oiling truck.

\$37,684.64 was expended for Street Sprinkling.

#### Street Cleaning.

This department must have the assistance of the people in order to have clean streets. Papers and rubbish continually thrown into the streets greatly hinder the realization of our desire for clean streets and detract from the good appearance of our city. No person who has regard for the beauty and good repute of his city will throw rubbish of any kind into the streets. There is no better test of the civilization of a community than the treatment which the streets receive at the hands of the people.

The squares are sprinkled or flushed every morning and cleaned every night.

7,140 cubic yards of street sweepings were removed.

\$25,890.70 was expended for Street Cleaning.

**Suppression of Moths.**

The moth situation in this city is well in hand. Most of this work is done in the winter, this giving employment to men who would be otherwise unemployed.

All public and private trees are cared for in regard to moths. Bushes, vines, fences and foundations, public and private are also inspected.

Very few brown-tail moth nests were found this year, but the gypsy moths are increasing in number. If any nests are overlooked and the moths develop in the spring, they are exterminated by spraying the trees with the spraying machine.

7,590 street trees were inspected and cared for.

4,437 private trees were inspected and cared for.

315 bushes were found moth infested.

18 vines were moth infested.

1,158 fences and buildings on which moths nested.

31,032 gypsy-moth nests were painted with creosote.

15 brown-tail moth nests were gathered and destroyed.

7,242 trees were sprayed by the gasoline spraying machine to exterminate the different kinds of caterpillars and beetles.

\$4,700.00 was expended for the Suppression of Moths.

**Shade Trees.**

There should be shade trees set out by this department to replace the dead and dangerous ones that were removed. Shade trees are a great improvement to a city.

The leopard moth has destroyed many of our trees. This department has done what it could in destroying the pest, from the Shade Tree Appropriation which is not large enough to make any extended fight against this moth.

87 trees were set out.

210 trees were removed.

352 trees were trimmed.

115 tree guards and supports installed.

\$4,896.59 was expended for the Care of Trees.

**Highways Construction — New Streets.**

Eleven new streets were constructed during the year under the Betterment Act, by contract with William J. Sullivan, viz:—

Setting edgestones .55c per linear foot.

Gutter construction \$3.00 per square yard.

Construction of Macadam roadway \$1.00 per square yard.

The city furnished the edgestone and tarvia binder. Straight edgestone \$1.17 per linear foot. Circles \$1.35 per linear foot from S. & R. J. Lombard.

Tarvia binder .11c per gallon from the Barrett Co.

Six new streets were accepted this year.

\$33,175.12 was expended for New Streets.



## Streets Constructed in 1919.

Street	From	To	Material	Length	Cost
Belmont square .....	Belmont street .....	E'y thence N'y & S'y .....	Macadam....	220	\$745 65
Carter terrace .....	Summer street .....	Southwesterly .....	"	171	1,399 55
Central road .....	Central street .....	E'y & N'y to Sycamore St.	"	598	4,688 83
Connecticut avenue .....	Pennsylvania avenue...	Mystic avenue .....	"	487	4,067 39
Horace street .....	Ward street .....	Fitch. R. R., B. & M. ....	"	2315	1,747 59
Jaques street .....	Bond street .....	Edgar avenue .....	"	395	3,140 86
Maine avenue .....	Pennsylvania avenue...	Mystic avenue .....	"	379	3,067 60
Maine terrace .....	Maine avenue .....	Southwesterly .....	"	190	1,360 52
Minnesota avenue .....	Pennsylvania avenue...	Broadway .....	"	525	4,327 41
Linden avenue .....	Summer street .....	Cedar avenue .....	"	296	3,425 49
Whitman street .....	Mason street .....	Packard avenue .....	"	632	5,158 48

## Sidewalks Construction.

The contracts for granolithic sidewalks were let to Denis I. Crimmings, William T. Kilmartin and Peter Salvi, of Somerville, who furnished all material and did the excavation at \$2.20 per square yard.

Miles of edgestones, granolithic, brick and gravel sidewalks in the city:—

Length of edgestones	.	.	.	.	145,751 miles.
Granolithic sidewalks	.	.	.	.	51,929 miles.
Brick sidewalks	.	.	.	.	71,598 miles.
Gravel sidewalks	.	.	.	.	24,032 miles.

\$15,263.86 was expended for Sidewalks Construction.

STREET COMMISSIONER.

SIDEWALK CONSTRUCTION.  
One-half the Cost Being Assessed Upon the Abutting Estates.

Street	From	To	Sq. Yds.	Grano.	
Auburn avenue	In front estate No. 7	.....	.....	24.4	\$53 68
Beacon street	Kent street	Sacramento street, N. E'y side	.....	805.6	1,893 62
*Boston avenue	Near Ball square	.....	.....		75 57
Broadway	B. E. Ry. entrance to car yard, w'y	.....	.....	142.8	314 66
Broadway	Curtis street	North street	.....	1,202.9	2,993 97
Broadway	Fellsway West	S. E'y to already laid	.....	706.5	1,554 30
Broadway	Contagious Hospital	Alewife Brook Parkway N'y	.....	540.8	1,286 45
Craigie street	Somerville avenue	Summer street, E'y side	.....	913.2	2,418 34
Crescent street	E'y side where not laid	Hadley street	.....	81.8	179 86
Heath street	Bond street	Edgar avenue where not laid	.....	148.9	327 58
Holland street	Paulina street	E'y side to already laid	.....	560.9	1,344 44
Morrison avenue	Willow avenue	Clifton street, S. W. side	.....	325.8	748 34
Russell road	Broadway	Hamilton road, N. W'y	.....	351.2	772 64
Russell road	In front estates 41-43	.....	.....	29.8	65 56
Willow avenue	Foskett street	Appleton street, N. W. side	.....	168.6	386 61
Windom street	Elm street	Summer street, S. E. side	.....	205.7	483 62
Union Square	S. E'y side	Webster avenue—Somerville ave	.....	164.1	361 02
*Wm. H. Wallis	Filling in sidewalk	.....	.....		3 50

\* Constructed by City labor.

**Highways Construction — Permanent Pavement.**

A contract was let to William J. Sullivan at \$3.40 a square yard for removing the old granite paving blocks on a gravel base, recutting blocks and relaying on a concrete base, joints grouted with Portland cement.

Following is a list showing partial payments on contract. Finals are to be paid from the balance of \$19,646.00.

Washington street . . .	Medford St. to Tufts St. . .	\$7,722 06
Tufts street . . .	from Washington St. N. E'ly . .	3,114 06
Webster avenue . . .	Cambridge line to Columbia St. .	5,509 00
Beacon street . . .	Dickinson St. to Buckingham St. .	4,010 50

On all these streets the Boston Elevated Ry. repaired their tracks on a concrete base, grouting the paving blocks. All service pipes were renewed or repaired before the new paving was constructed.

\$20,355.62 was expended for Permanent Pavement.

**Reconstruction and Resurfacing.**

This appropriation was taken from the tax levy this year, wherein years ago it was borrowed on a five year loan, (thus the city saved paying the interest). Also under the five year loan the streets had to be constructed under specifications approved by the Massachusetts Highway Commission. Although we are not now constructing streets under Highway Commission specifications we are continuing to construct them in a first class manner, using from six to eight inches of stone after being rolled, two applications of tar binder covered with pea stone thoroughly rolled. After the streets have been used for travel for two weeks they are covered with a cold tar application and with fine gravel.

Twenty-six streets were reconstructed or resurfaced by day labor at an average cost of \$2.00 per linear foot.

\$48,645.70 was expended for Reconstruction and Resurfacing.

## RECONSTRUCTING AND RESURFACING APPROPRIATION.

## Streets Reconstructed and Resurfaced, 1919.

Street	From	To	Width	Length	Cost
Arlington street	Franklin street	Lincoln street	40	452	\$1,128 64
Avon street	School street	Central street	40	1,360	2,289 08
Belmont street	Somerville avenue	Highland avenue	40	2,162	4,949 10
College ave., E'ly side	Powder House sq.	Dearborn road	30	1,250	1,754 01
Dana street	Bonair street	Pearl street	40	696	1,502 66
Franklin street	Washington street	Oliver street	40	690	1,366 78
Gilman street	Cross street	Aldrich street	40	745	1,143 81
Harrison street	Kent street	Ivaloo street	40	644	1,390 70
Hinckley street	Broadway	B. & M. R. R.	35	540	501 38
Hudson street	Cedar street	Lowell street	40	1,460	4,518 21
Ivaloo street	Park street	Harrison street	40	300	794 75
Joseph street	Newton street	Lincoln Parkway	40	458	1,433 99
Marion street	Wyatt street	Harold street	40	293	550 40
Morrison avenue	Willow avenue	College avenue	40	1,690	4,018 92
Oliver street	Glen street	Cross street	40	600	1,763 56
Oxford street	School street	Central street	40	1,361	2,228 87
Ossipee road	Packard avenue	Curtis street	40	680	1,764 41
Oxford street	Beacon street	Cambridge line	50	100	338 03
Pinkney street	Washington street	Pearl street	40	736	2,678 10
Raymond avenue	Curtis street	North street	40	1,345	3,714 48
Sanborn avenue	Walnut street	Warren avenue	40	280	629 61
School street	Highland avenue	Berkeley street	40	500	963 97
School street	Broadway	Medford street	40	1,600	4,081 54
Wyatt street	Concord avenue	Lincoln Parkway	40	496	1,190 23
Williams street	Chandler street	College avenue	40	381	789 39
Melvin street	Broadway	Bonair street	40	487	1,141 93

**Miscellaneous.**

- 54 Granolithic driveways constructed.
- 50 Brick driveways constructed.
- 19 Edgestones dropped.
- 6 Driveways extended.
- 3 Driveways discontinued.
- 1 Driveway relocated.
- 1 Granite block driveway constructed.

Driveways are constructed, discontinued, relocated or extended at the expense of the petitioners.

Length of public streets 84.296 miles.

Three horses were killed on account of disability and five horses were purchased during the year.

The department maintains its own municipal repair shop for different lines of work.

I have attended meetings of the Committee on Public Works and of various other committees of the Board of Aldermen, for consultation regarding work and petitions.

**Labor.**

The regular employees were given two weeks vacation and all employees, twelve months Saturday half holiday without loss of pay. Mayor Eldridge increased the pay of all employees Sept. 28, 1919, to a minimum daily wage of \$3.50 and on Nov. 16, 1919, to a minimum daily wage of \$3.75, making the wages of laborers \$3.75, drivers and chauffeurs \$3.85, mechanics \$4.25 and engineers \$4.50.

Eight hours constitute a day's work.

The city does its own insuring for injured laborers. There are ten former employees receiving pensions under the act providing for the pensioning of laborers.

There were during 1919:—

- 150 permits issued to the Cambridge and Charlestown Gas Companies.
- 218 permits were issued to occupy streets and sidewalks.
- 65 permits issued to cross sidewalks.
- 19 permits issued to feed horses.
- 22 street watering complaints and requests.
- 171 notifications to other departments and corporations.
- 32 accident reports.
- 825 police reports.
- 476 brick and granolithic sidewalks repaired.
- 885 miscellaneous reports and requests.
- 42 drain layers permits.
- 693 water department openings.
- 88 permits to open streets and sidewalks.
- 16 danger signs erected.
- 44 new signs erected.
- 67 signs repainted.

3,438 cubic yards sand and gravel used.  
2,857 cubic yards dirt removed.  
3,021 cubic yards old macadam used.  
1,852 cubic yards of ashes used.  
504 bags Portland cement used.

#### Recommendations.

I most respectfully recommend that the recutting of the old granite blocks and replacing them with grouted joints on a concrete base, on such streets as Washington street and Somerville avenue be continued; that the granite paving started on Beacon street be completed; and that granite paving on Somerville avenue from Beacon street to Porter station, Cambridge, be constructed.

A garage should be erected at the city yard and a suitable heating plant for the same. This heating plant could heat the several work shops as well, doing away with individual stoves and saving coal and labor and reducing fire risks.

In closing this report, I wish to express to His Honor, the Mayor, my sincere appreciation of the valuable assistance rendered me and to extend to him my thanks for his counsel and support.

My acknowledgments are due to the Board of Aldermen and heads of departments for their courtesy and consideration in matters pertaining to the business of the city, also for the co-operation of all the employees of the department and citizens of our city.

Respectfully submitted,

ASA B. PRICHARD,

Street Commissioner.

## REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

City Hall, Somerville, January 1, 1920.

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, 1919.

The total valuation of the public property which is in the custody of the public buildings department is \$3,282,700.

The total expenditure for the year 1919 for the care and maintenance of this property was \$173,125.58.

This amount was expended as follows:

	Janitors	Fuel	Light	Care and Repairs	Totals
School Buildings . . . . .	\$48,560 07	\$27,541 75	\$9,156 29	\$38,843 44	\$124,101 55
Electrical Dept. . . . .	144 00	266 20	110 20	46 69	567 09
Fire Bldgs. . . . .	.....	3,098 53	2,569 67	4,382 52	10,050 72
City Home Buildings . . . . .	.....	834 21	473 62	1,686 50	2,994 33
Contagious Hospital . . . . .	426 14	1,677 88	840 84	1,622 52	4,567 38
Highway Buildings . . . . .	.....	338 34	232 43	346 58	917 35
Central Library . . . . .	2,222 71	157 00	992 36	846 43	4,218 50
West Branch Li- brary . . . . .	1,156 26	404 52	447 05	190 44	2,198 28
East Branch Li- brary . . . . .	876 00	190 70	244 17	254 53	1,565 40
Union Sq. Br. Li- brary . . . . .	876 00	273 53	295 71	103 15	1,548 39
Municipal Buildings . . . . .	4,166 49	1,077 19	1,641 15	3,639 97	10,524 80
Park Buildings . . . . .	357 00	145 20	336 37	364 19	1,202 76
Police Buildings . . . . .	1,905 43	884 09	518 44	487 46	3,795 42
Polling places . . . . .	.....	7 10	32 56	434 63	474 29
Sanitary Buildings . . . . .	.....	113 00	236 80	612 96	962 76
Sewer Buildings . . . . .	.....	34 48	39 43	45 96	119 87
Water Buildings . . . . .	.....	470 18	291 04	307 63	1,068 85
Bathhouse . . . . .	1,202 70	.....	.....	1,045 14	2,247 84
<b>Totals . . . . .</b>	<b>\$61,892 80</b>	<b>\$37,513 91</b>	<b>\$18,458 13</b>	<b>\$55,260 74</b>	<b>\$173,125 58</b>

### 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 1350 formal inspections of buildings in the process of construction.



The following table shows the number of permits issued for building operations during the year 1919:—

Buildings	WARDS.							Totals
	1	2	3	4	5	6	7	
Dwellings . . . . .	12	18	12	10	23	23	33	131
Stores . . . . .	7	2	3	3	3	2	5	25
Dwellings and stores . . . . .		2	2	1	1			6
Garages . . . . .	12	14	15	13	24	37	77	192
Storage . . . . .	5	3		1	1	4	1	15
Manufactories . . . . .	1	4		2		3	1	11
Sheds . . . . .	5	2		4	1	3	1	16
Offices . . . . .			2	2		3		7
Stables . . . . .	2	1		1		1	1	6
Shops . . . . .	1	1		3	3		1	9
Banks . . . . .			1				1	2
Theatres . . . . .						1		1
Churches . . . . .		1			3		1	5
Laundrys . . . . .		1						1
Miscellaneous . . . . .	1	2	2	3	2	1	3	14
<b>Totals</b> . . . . .	<b>46</b>	<b>51</b>	<b>37</b>	<b>43</b>	<b>61</b>	<b>78</b>	<b>125</b>	<b>441</b>

	Wood	Fire resisting	Totals
New Buildings . . . . .	34	188	222
Alterations . . . . .	191	28	219
<b>Totals</b> . . . . .	<b>225</b>	<b>216</b>	<b>441</b>

Buildings	WARDS.							Totals
	1	2	3	4	5	6	7	
Wood . . . . .	28	27	16	26	30	28	41	196
Wood and Cement . . . . .	1	2	6		6	4	23	42
Wood and Concrete . . . . .	1	2		2	1	4	13	23
Wood and Metal . . . . .		1				1	2	4
Fireproofed wood . . . . .	2	1	5	2	3	1	4	18
Brick . . . . .	6	4	3	1	5	4	3	26
Brick and Concrete . . . . .		5	2	1				8
Brick and wood . . . . .		3	3	1		1	2	10
Cement Block . . . . .	7	3	2	3	10	27	27	79
Concrete Block . . . . .	1		3	4	4	8	7	27
Steel . . . . .		1			1	1	3	6
Miscellaneous . . . . .		2						2
<b>Totals</b> . . . . .	<b>46</b>	<b>51</b>	<b>40</b>	<b>40</b>	<b>60</b>	<b>79</b>	<b>125</b>	<b>441</b>

The number of plumbing permits issued during 1919 was . . . . . 212  
 Number of permits for plumbing in new buildings . . . . . 32  
 Number of permits for plumbing in old buildings . . . . . 180  
 Number of buildings in which soil pipes were tested . . . . . 140

The total estimated cost of the new buildings and alterations during the year 1919 was \$773,099, while the estimated cost in 1918 was \$676,470, showing an increase of \$96,629.

The total number of permits issued during the year 1919, viz. 441, was 249 more than during the year 1918, when 192 permits for new buildings and alterations were issued.

There has been very little of speculative building of dwellings going on this year owing to the high cost of both labor and materials.

There has been, however, a considerable number of alterations of dwellings owing to the scarcity of rentals.

Single family houses have been altered into two family houses and some of the larger houses have been altered into small kitchenette suites. These types of alterations demand very careful inspection and supervision by this department and entail considerable more time than new construction.

On September 1, 1918, the Board of Aldermen of the City of Somerville passed an ordinance requiring a fee to be collected for every building permit issued by this department. In accordance with this, fees collected for building permits during the year 1919 amounted to \$1219.00.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all of the eighty-two public buildings of the city and the grounds in connection therewith, all janitors in the city's employ, a force of nine mechanics who perform most of the work of keeping the buildings in repair, the inspection of installation and care of all elevators, the supervision of 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.

#### Coal.

As in the past years an invitation for bids was advertised for supplying the necessary tonnage of both anthracite and bituminous coal for the city buildings for the winter of 1919 and spring of 1920.

Several bids were received, some being from local concerns. After taking same under consideration His Honor, the Mayor, accepted the bid of the Metropolitan Coal Co. for anthracite coal, same to be delivered and housed.

R. K. Pratt Co., mine representative, was the successful bidder on bituminous coal. This bid was received by the Commissioner after considerable effort on his part and was at an extremely low figure. This coal is delivered direct from the mines to the several freight destinations furnished by the Commissioner.

The Commissioner made a contract at very little in excess of that of 1918 with a teaming contractor for teaming and housing this coal, and is pleased to say that the coal thus purchased and handled was at a considerable saving to the city.

### Elevators.

According to an act of the Legislature the Building Commissioner is required to have every elevator in the city inspected yearly and a report of the conditions and necessary repairs made to the State District Police.

Plans and specifications of all new installations of elevators must be filed in this office and certificates of approval granted by the Commissioner.

During the year 1919, there were 125 elevators inspected and 87 orders for repairs to be made, sent to the owners.

Plans and specifications were filed and applications granted for the installation of seven new elevators.

### School Buildings.

The maintenance and care of 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.

Every year just before the summer vacation arrives this department sends out a blank to be filled in by both principals and janitors of schools of all requisitions and repairs needed. These repairs and requests are taken up with the Superintendent of Schools and taken care of in the order which he suggests as far as the appropriation will allow.

First are taken into consideration the requests and repairs absolutely needed for the opening of schools. Then the others are taken up in the order of their importance. This in itself is a huge task as the wants of every section must be taken into consideration.

Among the necessary repairs that were taken care of this year are the following :

Seven boilers were retubed. A number of new grates were installed and repairs made on 11 other boilers.

Steam repairs were made in 26 buildings.

Plaster repairs were made in 13 buildings.

Plumbing repairs and new installations were made in 18 buildings.

Mason repairs were made in 10 buildings beside repairs of fire boxes of boilers in nearly every building.

Sixty teachers' guest chairs were recaned.

Two teachers' couches were recovered.

Roof leaks and other roof repairs were taken care of on 13 buildings.

Carpenter repairs, such as :

Window cords

Repairing and tightening furniture

Fitting up one room in Bell, Edgerly, and Glines Schools with larger size furniture.

Ward room of Bell School fitted up for 2 class rooms.

### Painting:

Glines School has been thoroughly renovated.

At High School several rooms and office walls and ceilings tinted and woodwork varnished.

At Morse School the walls and ceilings of entire building tinted.

At Southern Junior High School walls and ceilings of two rooms painted.

2500 desk tops in various schools refinished and varnished.

All toilet seats finished in white enamel and several school toilets painted out.

Students' chairs in several buildings refinished and varnished.

At the Boys' Trade School a new addition to the heating plant has been installed, thereby doing away with three furnaces and equipping the entire plant with a modern heating apparatus.

The closing of the Girls' Trade School and the removal of that school to the High School necessitated considerable changes in the latter building, together with the fitting of the Matron's room. Also the change of Room 204, a former class room, to a book supply room and the fitting up of the same with shelves.

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: There has been in the past year many requests for additional lighting in the school rooms. This matter met the serious consideration of the Commissioner and he is making every effort to secure available funds to complete at least a portion of the older buildings this year and to continue same until every school is satisfactorily equipped.

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.

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. A start must be made this year on at least one of the buildings.

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. Also same to be done at Knapp School with movable partitions.

Installing motor and doing away with the present engine used to run the ventilating fan at the Ball 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 Schools and replacing same with eight-inch brick walls.

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 further renovated on the first floor by painting the apparatus rooms.

At the Union Square Fire Station extensive repairs have been made on the tower and roof and the exterior of the building was painted.

A new toilet having modern sanitary accommodations was completed at Engine 2 house, and other general repairs were made.

The increased cost of fuel, light and labor curtailed a great number of the needed repairs during the past year but much necessary work was accomplished.

The most pressing needs for this year will be the following:

New heating plants in Engine 6 and Hose 8, thus doing away with old and wholly inadequate furnaces.

Repairs to Engine 6 house.

New floor in shop at Central Fire Station.

Interior and exterior painting and new concrete floor in front portion of Ladder 2 house.

Several other minor repairs are being considered and will be carried out as far as necessary.

I urgently recommend something being done to Engine 4 house. This building is in such bad shape that it does not seem wise to spend any money on repairs and as it is a well located building on a good lot of land, I heartily recommend it being torn down and a modern building erected on this site. There is much material in the present building which could be used in the new.

### Municipal Buildings.

The municipal buildings consisting of City Hall and City Hall Annex, are in fair condition generally.

Considerable new fittings and furniture have been requested by the various departments.

During the past year new sanitary accommodations have been installed in City Hall Annex. The exterior of City Hall has been repainted.

### Libraries.

Very few repairs were necessary at any of the Libraries the past year as the buildings are in very fair condition.

At the Central Library the office and librarian's room were repainted and much of the furniture refinished.

At the West Somerville Branch Library the roof has been repaired and some of the interior finish needs attention.

There is also quite a little new furniture required this year which must be furnished.

#### **Water, Highway, and Sanitary Buildings.**

Water Department buildings are in need of a new heating plant, as the old plant which was installed as a power plant for the high pressure pumps is not economical and wholly inadequate as a low pressure heating plant.

The highway and sanitary buildings call for considerable repairs. Stall bottoms must be replaced and other repairs made. One thing which calls for serious consideration is the replacement of glass of which there have been more than 110 lights replaced this year.

The recent fire in the incinerator plant has shown us that if this plant is to remain it will be necessary to fireproof this building in a proper manner; also to equip same with a dry sprinkler outfit. This will mean quite an added expense but the experience of the past year has shown the necessity of it.

#### **Hospital Buildings.**

Extensive painting and other general repairs were made this last year in these buildings, as follows:

A new discharging room has been built and equipped this year, thus completing a long needed addition.

Ceilings of kitchen and help's dining room have been whitened.

A new gas range has been installed in the kitchen.

The entire furnishings of the T. B. Camp which are of white enameled iron, have been refinished.

New Rocking chairs supplied for T. B. Piazza.

A new cement concrete driveway put in at the hospital that permits coal to be put directly into the building, doing away with carrying same, which means a considerable saving.

There is still much to be done, however, in order to keep these buildings in proper sanitary condition.

#### **City Home Buildings.**

In addition to the general repairs to the buildings extensive repairs and painting have been made during the past year, some of which are the following:

Five rooms in the dwelling of the superintendent have been painted and papered.

Hospital interior painted and outside stucco work repaired.

New gas ranges installed.

New furnishings for nurses' and maids' room.

Instantaneous hot water heater connected up with sinks in the kitchen.

A new piazza 79ft. long and 10 ft. wide, has been constructed the entire length of the hospital to enable invalids to get the benefit of fresh air in their wheel chairs. This has proved to be a much needed improvement.

Request has been made by the Overseers of the Poor for considerable work to be done this coming year.

#### **Police Buildings.**

During the past year a large portion of the interior of the Station House was repaired and painted. The entire cell room was thoroughly renovated, i.e., cells, walls, and ceilings painted, and the entrance to cell room and matron's quarters thoroughly painted and whitened.

I urgently recommend a new heating plant be installed in the stable and garage in the rear. This is needed to properly heat these buildings as the heater in the stable is beyond repair and there is no heat in the garage.

#### **Bathhouse.**

The public bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual last year with a very much increased attendance, especially of women and children. This materially increased the labors of the life-guarders who, we are pleased to say, met the conditions and no serious accidents were reported for the year.

We were able to secure 400 tons of sand for the resanding of the beach which was greatly appreciated by the patrons.

We hope this year, with the increased outfit, to give better service and expect that the bathing beach will another year be taxed to its utmost.

#### **Park Buildings.**

This coming year the building located in Broadway Park will need considerable attention in the way of repairs as the building leaks badly and new sills must be installed.

I heartily recommend the erection of a permanent bandstand in Broadway Park as it is fair to assume that we will continue to have more band concerts here in the future than in the past, and there is no permanent place to have such affairs in the city.

There is considerable agitation being made for a new recreation building to be located in Recreation Field, West Somerville; this building to have toilet facilities for the public and locker and shower-bath rooms for the various athletic teams.

Drawings have been made by the Building Commissioner for such a building and an appropriation of about \$3500 stands available to be used, but this amount is entirely inadequate and should be greatly increased.

**In General.**

The Commissioner of Public Buildings has had the co-operation 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.

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Somerville, Mass., January 1, 1920.

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

Gentlemen:—

I most respectfully submit my eleventh annual report as  
Commissioner of Electric Lines and Lights for the year ending  
December 31, 1919.

### Inspection of Wiring in Buildings.

While electrical installations have somewhat increased over last year they do not approach the normal of former years. This can be accounted for by increased cost of labor and materials and inability to secure much of the material used in house wiring. However, this condition does not lessen the work of the inspection department as the connecting of unapproved wiring to existing installations by inexperienced persons still continues and defects are found in almost all such cases when trouble occurs bringing such unauthorized attachments to the notice of the Inspector. Carelessness and ignorance on the part of those charged with the responsibility of installing, operating and maintaining electrical wiring and apparatus must be held accountable for much of the danger to persons and property caused by electricity.

The practice of attaching flat-irons, cooking utensils and other such appliances to lamp sockets and the careless use of the same are the cause of many fires. Electrical appliances in the United States at present produce an average of 100 fires a day. Separate circuits should be run to supply any of the above named appliances and should be properly fused.

No person or persons can engage in the business of installing electrical wires or appliances except those having a State License and when such licensed persons do work which does not conform to standard requirements complaint is made to the Licensing Board and offender's license is suspended or revoked.

The ordinance passed July 1, 1918, requiring permits to be obtained to do work in the City has been a great help in keeping the inspections down to a minimum.

Number of notification of new work . . . . .	1109
Number of inspections of new work . . . . .	1109
Number of re-inspections of new work . . . . .	459
Number of inspections of old work . . . . .	250
Number of defective installations of old work . . . . .	6
Number of defective installations remedied . . . . .	6
Number of re-inspections of old work . . . . .	6
	<hr/>
Total number of inspections . . . . .	1836
Number of permits issued to the Edison Electric Illuminating Company for installing meters, lamps, etc. . . . .	1640
Number of permits issued to the Malden Electric Company . . . . .	1

#### Fire Alarm System.

The Fire Alarm System is in first class condition and is giving excellent service, being rated as one of the best systems in the State.

252 bell alarms have been received and transmitted during the year.

Over the central telephone desk with connections to each Fire Station 407 calls for fire have been received and telephone alarms sent to the different stations.

3 A. D. T. alarms have been received at headquarters and transmitted over our own system to the fire stations.

Some changes in the method of sending out alarms will necessarily be made on account of the adoption of the two platoon system in the fire department. The preliminary blow now sounded before alarm will be discontinued.

One blow will be struck on inside bells in all fire stations at 8 A. M. and 6 P. M. to announce the change of day and night forces.

The central office equipment 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 punching registers.
- 13 punching registers and take up reels.
- 2 automatic time and date stamps.
- 1 master clock.
- 940 cells storage battery.
- 5 — 10 foot, 4 shelf battery racks.
- 4 metropolitan tappers and 2 gongs.

The apparatus outside of the central office consists of the following:

- 131 signal boxes.
- 8 tower strikers.
- 45 gongs.
- 10 punching registers.
- 20 tappers.
- 1 automatic steam whistle.
- 9 private telephones.
- About 60 miles of overhead wires.
- About 78 miles of underground wires.

There have been run 8600 feet of new overhead wire.

No new underground wires were installed last year but provisions are made to continue the work during the present year.

**Police Signal System.**

The police signal system is giving the same service as in the past.

Boxes have been thoroughly tested and found to be in good working order. Some replacements may have to be made this year on account of wear.

The system consists of the following:

- 1—4 circuit police desk.
- 59 street signal boxes.
- 4 special boxes.
- About 19½ 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 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 lighting and telephone service and abandoned poles have been removed.

	New poles.	Re-placed.	Re-moved.	Re-set.
New England Telephone & Telegraph Co.	4	23	5	11
Edison Electric Illuminating Co.	26	220	2	4
Boston Elevated	1	....	1	....
Permits given to the New England Tel. & Tel. Co. for attachments to the Edison Company's poles	294			
Permits given to the Edison Electric Ill. Co. for attachments to the New England Tel. & Tel. Company's poles	93			

**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.

More lights are required in the western part of the city as some new streets are inadequately lighted.

Our contract with the Edison Company for street lighting having expired, the cost of street lighting will be materially increased, necessitating economy in the placing of new lights.

Spot lights have been installed at several places where traffic officers are posted and are of great assistance to the officers.

**Recommendation.**

I respectfully recommend that an assistant inspector be employed to enable the department to more thoroughly cover all old installations of electrical wiring 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 many courtesies received.

Respectfully yours,

WALTER I. FULLER,

Commissioner of Electric Lines and Lights.

## REPORT OF SANITARY DEPARTMENT.

CITY HALL, SOMERVILLE.

January 31, 1920.

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 1919.

### Collection of Ashes and Paper.

	Ashes (Cubic Yards)	Paper (Cubic Yards)
January . . . . .	10,970	2,860
February . . . . .	11,900	2,760
March . . . . .	14,280	2,980
April . . . . .	12,900	2,980
May . . . . .	11,487	3,120
June . . . . .	9,010	2,980
July . . . . .	7,860	3,100
August . . . . .	7,140	2,760
September . . . . .	6,200	2,900
October . . . . .	6,340	2,540
November . . . . .	7,560	2,500
December . . . . .	10,220	2,840
Totals . . . . .	115,867	34,320

During the year the Sanitary Department paid to the Highway Department \$4,202.02 for the use of teams. Collections of garbage amounted to 2,247 cords, all of which was disposed of at the department yard. During the year the incinerator was destroyed by fire and the paper and other combustible material is now being carried to the dump.

### Departmental Revenue.

Sale of garbage . . . . .	\$15,884 40
Use of incinerator . . . . .	1,380 00
Total . . . . .	\$17,264 40

The equipment and its valuation follows:

Horses . . . . .	\$10,400 00
Vehicles . . . . .	13,675 00
Harnesses, blankets, etc. . . . .	2,665 00
Stable equipment, etc. . . . .	300 00
Fittings in blacksmith shop . . . . .	75 00
	<hr/>
	\$27,115 00

Again 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 a 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.

In conclusion I wish to thank the members of the City Government for their co-operation the past year and the employees of the department for the faithful performance of their duties.

Respectfully submitted,

EDGAR T. MAYHEW,

*Supt. of Sanitary Department.*

## SOMERVILLE WATER WORKS.

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### SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Settled, when part of Charlestown, 1630.  
 (Home of Colonial Governor John Winthrop).  
 Incorporated a town, 1842.  
 Established a city, 1872.

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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, 95,000.  
 Entire population on line of pipe and supplied with water.

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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.

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#### Mayor.

HON. CHARLES W. ELDRIDGE.

#### Water Commissioner.

FRANK E. MERRILL.

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Office of the Water Department.

Room 10, City Hall.

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Department Buildings and Yard.

Cedar street, near Broadway.

ADMINISTRATION OF WATER WORKS  
VESTED AS FOLLOWS:

---

1868 — 1871

SOMERVILLE MYSTIC WATER COMMITTEE (5)  
Acts 1868; Chap. 202

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1872 — 1890

SOMERVILLE MYSTIC WATER BOARD (5)  
Acts 1871; Chap. 182

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1891 — 1897

SOMERVILLE MYSTIC WATER BOARD (3)  
Acts 1890; Chap. 218

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1898 — 1899

BOARD OF WATER COMMISSIONERS (3)  
Acts 1898; Chap. 33

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1900 —

WATER COMMISSIONER (1)  
Acts 1899; Chap. 240



## REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER,  
January, 1920.

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

I present herewith my report for the year ending December 31, 1919, this being the forty-sixth annual report of the water department and my twentieth as water commissioner:—

## Revenue and Expenditures.

Water bills have been issued as follows:—

"Annual" water charges, amounting to . . . .	\$42,322 00
"Additional" water charges, amounting to . . . .	2,183 50
"Metered" water charges, amounting to . . . .	199,655 57
	<hr/>
	\$244,161 07

	Annual and Additional	Metered	
Abatements and refunds on above charges . . . .	\$1,034 96	\$254 82	
		<hr/>	1,289 78
Income from sale of water . . . .			\$242,871 29
Receipts; water service assessments . . . .		\$2,113 67	
Receipts; labor and materials sold:—			
Miscellaneous accounts . . . .		3,559 31	
		<hr/>	5,672 98
Total income of water works . . . .			\$248,544 27

This amount was used as follows:—

For water works purposes:—

## Under Control of the Water Commissioner.

Water works maintenance	\$49,933 61	
Water works extension . . . .	6,186 41	
Miscellaneous accounts . . . .	3,559 31	
	<hr/>	\$59,679 33

## Not Under Control of the Water Commissioner.

Interest on water loan bonds . . . .	\$240 00	
Maturing water loan bonds . . . .	4,000 00	
Metropolitan water works assessment . . . .	128,082 90	
Maintenance water works buildings . . . .	865 01	
	<hr/>	\$192,867 24

## For other municipal purposes:—

## Not Under Control of the Water Commissioner.

Surplus . . . . .	\$55,677 03
	\$248,544 27

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 . . . . .		\$57,250 00
Department accounts; receipts . . . . .		685 42
Water works extension account; receipts		4,318 12
Amount expended for labor and materials for operation, maintenance, and renewal of the water works . . . . .	\$49,933 61	
Amount expended for materials used in extension of the water works . . . . .	4,318 12	
Miscellaneous accounts . . . . .	3,559 31	
Labor and materials furnished municipal departments . . . . .	685 43	
Balance:		
Transferred to other municipal departments by board of aldermen . . . . .	3,000 00	
Unexpended . . . . .	757 08	
	\$62,253 55	\$62,253 55

## WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen . . . . .		\$7,000 00
Amount expended for labor and materials used in extension of the water works . . . . .	\$6,186 41	
Balance: unexpended . . . . .	813 59	
	\$7,000 00	\$7,000 00

**Cost of Water Works.**

The total cost of water works on December 31, 1918 as represented by the expenditures from appropriations for water works extension was . . . \$1,067,010 38

Expended during the year 1919, on extension account . . . 6,186 41

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Total expenditures, December 31, 1919 . . . \$1,073,196 79

**Water Debt.**

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$1,115,000, leaving the water debt on December 31, 1919, \$2,000.

The outstanding bonds mature as follows:—

Year	Amount
1920 . . . . .	\$2,000

**Water Works Income from 1898 and its Distribution.**

The water income and its distribution from 1898 to 1919, inclusive, is shown in the following table:—

Total water income, years 1898 to 1919, inclusive . . .	\$5,137,532 84
---	----------------

Distribution:—

**Water Works Account.**

Water Works Construction, Renewal, Maintenance and Operation . . .	\$1,279,257 64	
Water bonds . . . . .	272,000 00	
Interest . . . . .	86,495 00	
Metropolitan Water Assessments . . .	2,016,294 16	
Maintenance Water Works buildings . . .	4,862 69	
		<hr/>
		\$3,658,909 49

**Other Municipal Accounts.**

Various municipal departments through specific appropriations and general revenue account . . . . .	\$1,478,623 35
	<hr/>
	\$5,137,532 84

**Water Distribution System — Construction.****STREET MAINS.**

Approximate number of feet of street mains in the city, January 1, 1919, (including hydrant branches and blow-offs) . . . . .	541.088
Feet of street mains laid in 1919 . . . . .	1,511
Feet of hydrant branches laid in 1919 . . . . .	55
Feet of blow-off branches laid in 1919 . . . . .	82
	<hr/>
Total feet of pipe laid . . . . .	1,648

Feet of pipe removed or replaced . . . . .	1,091
Net increase in feet of pipe . . . . .	557
Total approximate feet of pipe in the city . . . . .	541,645
Total pipe mileage, approximately . . . . .	102.58

The sizes and lengths of pipe laid and removed are as follows:—

Size	Feet Laid	Feet Removed	Size	Feet Laid	Feet Removed
¾"	0	112	4"	109	283
1¼"	0	108	6"	546	170
1½"	0	46	10"	515	0
2"	287	262	12"	191	110

The pipes constructed and replaced during the year are as follows:—

	Size of Pipe	Feet Laid	Feet Removed	Size Removed
Constructed:—				
Conlon Court Ext. . . . .	6"	100		
Jaques St. . . . .	10"	403		
Russell Road . . . . .	10"	53		
Replaced:—				
Abdell St. . . . .	6"	108	108	1¼"
Beckwith Circle (Con.) . . . . .	4"	27	46	1½"
Cedar St. (Bridge) . . . . .	12"	110	110	12"
Greenville Terrace . . . . .	2"	175	175	2"
Joy St. . . . .	10"	59	63	6"
Joy St. . . . .	6"	4		
Linden Ave. . . . .	6"	279	279	4"
Linwood St. . . . .	12"	81	84	6"
Sellon Place . . . . .	2"	112	112	¾"
Hydrant branches, blow-off pipes and waterpost connections . . . . .		137	114	
		1,648	1,091	

#### Hydrants, Gates, Etc.

Number of fire hydrants in city January 1, 1919 . . . . .	1,175
Number set during year . . . . .	12
Number removed during the year . . . . .	10
Net increase in number of hydrants . . . . .	2
Total number of public fire hydrants . . . . .	1,177
Number of private fire hydrants, January 1, 1919 . . . . .	64
Number set by private companies during the year . . . . .	0
Total number of private fire hydrants receiving their supply from the city mains . . . . .	64

Number of gates in city, January 1, 1919 . . . . .		1,827	
Number set during the year for streets . . . . .	11		
Number of section gates set . . . . .	2		
Number set on hydrant branches . . . . .	19		
Number set on blow-off branches . . . . .	5		
Number set on car-sprinkler connections . . . . .	0		
		<hr/>	37
Number of street gates removed . . . . .	8		
Number of section gates removed . . . . .	0		
		<hr/>	8
Net increase in number of gates . . . . .			29
Total number of gates in city . . . . .			1,856
Number of check-valves in city January 1, 1919 . . . . .			8
Number of blow-offs in city January 1, 1919 . . . . .		178	
Number added during the year . . . . .		5	
		<hr/>	183
Total number of blow-offs . . . . .			183
Number of waterposts in city January 1, 1919 . . . . .		79	
Number removed during the year . . . . .		5	
		<hr/>	74
Total number of waterposts . . . . .			74
Number of drinking fountains in city January 1, 1919 . . . . .			8
		<hr/>	8
Total number of drinking fountains . . . . .			8
Number of car-sprinkler connections in city January 1, 1919 . . . . .		17	
Number installed during the year . . . . .		0	
		<hr/>	17
Total number of car-sprinkler connections in city . . . . .			17
<b>Water Services.</b>			
Number of services in city January 1, 1919 (approximately) . . . . .			13,514
Number laid during the year . . . . .	48		
Number permanently discontinued . . . . .	18		
		<hr/>	30
Net increase in services . . . . .			30
Total number of water services in city . . . . .			13,544
Amount received for services laid in 1919 . . . . .			\$2,113.67
Number feet service pipe in city January 1, 1919 . . . . .			466,362
Number feet laid during the year . . . . .	1,407		
Number feet discontinued . . . . .	592		
		<hr/>	815
Increase in feet of service pipe . . . . .			815
Total feet service pipe in city (approximately) . . . . .			467,177
Total service mileage (approximately) . . . . .			88.48
Size, number and length of service pipes laid in 1919:			
36— $\frac{5}{8}$ "—829'	7— $\frac{3}{4}$ "—480'	3—1"—56'	1—1 $\frac{1}{2}$ "—29'
Number of fire services installed during 1919 . . . . .			1
Location			Size
Eastern Utilization Co.—Kent St. . . . .			4"

Water Meters.

Number of water meters in city, January 1, 1919 . . . . .	10,113	
Number installed during the year, new . . . . .	189	
Number reset . . . . .	193	
		<u>382</u>
Number removed on account of permanent or temporary discontinuance of water and for substitution of other meters . . . . .	176	
Net increase in number of operating meters . . . . .		206
Number of motor registers in service . . . . .		3
Total number of meters and registers . . . . .		10,322
Per cent. of all services metered . . . . .		76.21

Operating Meters December 31, 1919.

KIND.	SIZE.								Total.
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	
Nash .....	178								178
Empire .....	4								4
Crown .....	3	3	3	3	2	2			16
Gem .....							1		1
Hersey .....			6		1	2			9
Hersey Disc .....	253	23	9	1	4				290
Torrent .....								1	1
Trident .....	524	41	22	5	6				598
Trident Crest .....					2	2	3		7
Trident Comp. . . . .					6	2	2		10
Union .....	13	13	7		3				36
Union Special .....		13	2	1					16
Columbia .....	40								40
King .....	662								662
Lambert .....	4,168	147	27	1					4,343
Worthington Disc .....	4,039	32	6	4	1				4,082
Worthington Turbine .....								1	1
Keystone .....	25								25
Totals .....	9,909	272	82	15	25	8	6	2	10,319
Motor and elevator registers									3
									<u>10,322</u>

The meters installed in 1919 were classed as follows:—

Applications of property owners . . . . .	62
New services . . . . .	23
General installation . . . . .	104
Reset . . . . .	193
Total . . . . .	<u>382</u>

Meters were removed for the following causes:—

Vacancies and temporary non-use of water . . . . .	63
Services permanently discontinued . . . . .	8
Replaced by other meters . . . . .	100
Total . . . . .	<u>176</u>

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928:—

Year	Average installation required on old services	Meters set on old services	Set in excess of requirements	Total excess	Meters set on new services
1908	411	755	344	344	147
1909	411	637	226	570	201
1910	411	501	90	660	169
1911	411	528	117	777	200
1912	411	423	12	789	236
1913	411	432	21	810	255
1914	411	422	11	821	231
1915	411	439	28	849	217
1916	411	434	23	872	203
1917	411	163	248 (less)*	624	154
1918	411	82	329 (less)*	295	39
1919	411	166	245 (less)*	50	23

\* On account of war-time conditions of labor and material.

The following table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption :

Year	Popu- lation	Number of Services	Number of Meters	Per Cent Metered	Per Capita Con- sump- tion
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
1918	91,000	13,514	10,116		80
1919		13,544	10,322	76.21	69

## Summary of Pipes and Fixtures of the Water System

December 31, 1919.

Feet of main pipe (approximately)	541,645
Feet of service pipe (approximately)	467,177
Service connections (approximately)	13,544
Public fire hydrants	1,177
Private fire hydrants	64
Gates	1,856
Check valves	8
Meters	10,319
Motor registers	3
Waterposts	74
Car-sprinkler connections	17
Blow-offs	183
Drinking fountains and troughs	8

## 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
1918.....	14,193 89	29,185 04	79,975 44	2,004 18	125,358 55
1919.....	13,765 81	33,723 64	78,335 58	2,257 87	128,082 90

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 \$2,016,294 16

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 1919:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January .....	7,016,000	75	July .....	6,648,500	70
February ....	6,529,300	69	August .....	6,239,800	66
March .....	6,282,600	67	September ..	6,586,300	69
April .....	6,011,100	64	October .....	6,448,700	68
May .....	6,170,600	65	November ..	6,393,600	67
June .....	6,886,000	73	December ....	7,275,400	76

The consumption for the year was:—

Low-service system .....	1,834,306,000 gallons
High-service system .....	553,357,000 gallons
Total consumption .....	2,387,663,000 gallons
Average daily consumption .....	6,541,500 gallons
Average daily consumption, per capita, for Somerville .....	69 gallons
Average daily consumption, per capita, for Metropolitan district .....	95 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 1919, as registered by the Metropolitan meters.

City or Town	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Arlington .....	62	62	59	58	62	83	81	63	58	53	50	52	62
Belmont .....	55	58	57	59	61	74	70	53	53	49	52	56	58
Boston .....	120	114	107	105	107	112	112	110	114	111	107	120	111
Chelsea .....	69	66	62	60	61	65	66	66	65	64	62	70	65
Everett .....	76	72	69	65	64	71	68	66	69	68	68	78	69
Lexington .....	56	58	66	58	62	79	76	68	65	64	61	62	65
Malden .....	53	49	49	50	49	55	53	49	51	48	49	52	50
Medford .....	49	47	46	44	46	51	50	44	48	50	46	46	47
Melrose .....	58	54	55	55	57	65	64	59	54	62	56	57	58
Milton .....	39	40	41	42	47	46	40	36	42	44	44	48	42
Nahant .....	55	56	54	68	98	198	252	217	180	119	66	61	119
Quincy .....	97	96	95	100	100	108	112	104	101	99	96	99	100
Revere .....	55	52	49	50	54	66	72	68	62	57	53	58	58
Somerville .....	75	69	67	64	65	73	70	66	69	68	67	76	69
Stoneham .....	59	59	59	60	68	74	72	76	83	93	101	117	77
Swampscott .....	53	52	56	54	62	94	100	89	78	69	67	63	70
Watertown .....	117	119	108	103	96	112	99	92	98	107	107	101	105
Winthrop .....	47	47	46	45	47	58	67	63	54	50	50	52	52
Met. Dist. ....	101	96	91	90	91	97	98	94	97	95	92	102	95

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1919:—

City or Town	Gallons		Per Cent. Services Metered
	Total per Day	Per Capita per Day	
Milton . . . . .	401,300	42	100
Medford . . . . .	1,688,500	47	109
Malden . . . . .	2,682,800	50	97.29
Winthrop . . . . .	792,000	52	100
Belmont . . . . .	564,000	58	109
Melrose . . . . .	1,057,100	58	100
Revere . . . . .	1,780,700	58	78.00

Arlington . . . . .	1,085,700	62	109
Chelsea . . . . .	3,158,400	65	99.81
Lexington . . . . .	389,200	65	100
Somerville . . . . .	6,541,500	69	76.21
Everett . . . . .	2,886,700	69	68.85
Swampscott . . . . .	570,900	70	100
Stoneham . . . . .	602,400	77	99.52
Quincy . . . . .	4,550,100	100	90.80
Watertown . . . . .	2,002,900	105	100
Boston . . . . .	89,652,400	111	74.44
Nahant . . . . .	186,900	119	75.58
Total District . . . . .	120,593,500	95	

**Construction — Maintenance — Operation.**

Continuance of high cost of materials had a deterrent effect on building operations during the past year and comparatively little construction of new mains and services has been called for.

Preceding the construction of Jaques street between Bond street and Edgar avenue a 10" main was laid in that portion of the street and new hydrant and service connections were made with this main.

The trench work on this job was done by contract on account of the inability of the department to secure labor.

On account of permanent pavement to be laid during the year considerable work was done in Washington street between Medford and Tufts streets; in Webster avenue between Columbia street and Cambridge line; in Beacon street between Springfield and Buckingham streets and between Park and Sacramento streets.

Service pipes were renewed, gates were set on hydrant branches, waterposts were removed, blow-offs were constructed in the several streets, and in Washington street new and larger connections were laid across the street for the mains in Linwood and Joy streets.

The old 4" main in Linden avenue between Summer street and Cedar avenue was replaced with a 6" main and a hydrant installed thereon, in anticipation of new street construction.

The 12" steel riveted pipe in Cedar street over the bridge crossing the tracks of the Boston & Maine railroad was found to be in a defective condition and was replaced with a 12" cast-iron main.

The old private service pipes in Sellon place, Greenville terrace and Abdell street were taken over by the city through releases given by the owners of abutting property and new pipes were laid to improve the service.

Other construction and renewal of street mains, hydrants, gates, blow-offs, etc., is shown in table accompanying this report.

Service maintenance has, as usual, occupied a considerable portion of our time during the year.

Water meter installation was brought to as low a point as possible on account of the high cost of materials and the difficulty of obtaining suitable labor, and we closed the season with an excess of but fifty meters on our total installation required under the Compulsory Meterage Act of the legislature. We shall be required to take up general meter installation again the coming year in order to meet requirements of the law.

On account, undoubtedly, of better weather conditions than existed in the winter of the previous year the water consumption has again receded to 69 gallons per capita daily, a favorable showing considering our large industrial use of water, one of our manufacturing plants alone having paid us nearly \$30,000 for city water used last year.

Water receipts for the year show a decrease of about \$21,000, due to the cessation of business of one of our largest consumers who paid us that sum annually for water.

The department appropriation accounts show amounts unexpended totalling \$4,570.67 with all bills paid, while a general revenue surplus of \$55,677.03 is shown after paying all expenses and assessments connected with the operation of the department.

#### Labor.

Wages of labor were fixed by the mayor during the year as follows:

		Common	Skilled
January 1,	daily . . . . .	\$3.25	\$3.35
September 28,	daily . . . . .	\$3.50	\$3.60
November 16,	daily . . . . .	\$3.75	\$3.85

Foremen received corresponding advances in their daily wages. Commencing July 4th the laboring force was granted pay for all holidays.

Good labor has been difficult to obtain and the number of our working force has been kept at a low figure.

#### Pensions.

There have been no deductions from our pension roll during the past year. The name of Patrick McCarthy was added on the 7th of March, to date from January 16th, at rate of \$8.44 a week, making a total of four names now on the list.

**War Service Men.**

The three men of the department whose names are given in my report for 1917 as having entered the government service happily have all returned from overseas and were restored to positions in the department. Two of them have since resigned to take up other lines of work and three service men have been appointed, making four of these veterans now on our payrolls.

**Improvements.**

More room is needed for our machine and repair shop and I advise the early sale and removal of the old high-service pumping engine which has been out of use for many years and occupies space needed for our meter repair department.

I also recommend the installation of an up-to-date heating system for the department buildings and the removal of the old and highly uneconomical steam boiler, formerly the power boiler for the steam pump, which now supplies the heat and conversion of the space occupied by it into much needed room for our repair shop work.

Respectfully submitted,

FRANK E. MERRILL,

Water Commissioner.



Street Mains, Gates, Hydrants, Etc., Laid, Set, and Removed in 1919. —

STREET.	DESCRIPTION.	PIPE.		GATES.		HY-DRANTS.		BLOW-OFFS.		WATER POSTS.	
		LAID.	REMOVED.	SET.	RE-MOV'D	SET.	RE-MOV'D	SET.	RE-MOV'D	SET.	RE-MOV'D
		Size.	Feet.	Size.	Feet.	Size.	Kind	Size.	Kind	Size.	No.
Cedar Street	Main gate: On south line of Beacon Street 8 feet east from west line of Beckwith Circle. Replaced street main: From connection with 12" main pipe on north side of railroad bridge to connection with 12" main on south side of bridge. (Replacing old 12" steel riveted pipe over the bridge with cast iron pipe).					4" S					No.
Central Street	Hydrant replacement: 9 feet south from Highland Avenue. Gate on hydrant branch: 9 feet south from south line of Highland Avenue, 4 feet out from hydrant.	12" 110 6" 4	12" 110 6" 4				6" Co. 6" M				No.
Conlon Court Exten.	Street main: From connection with tee set 6 feet 4 inches south from east end of Conlon Court northerly to tee on the 6" pipe running westerly from Windsor Street, at point at bend of road; completing circulation between Columbia Street and Windsor Street. (Work done in 1918 but not recorded in that year). Gate on hydrant branch: 138 feet west from Windsor Street, 6 feet out from hydrant and 2 feet west from point directly opposite hydrant.	6" 110				6" S					
Greenville Terrace	Replaced street main: From connection with main pipe in Greenville Street to point 149 feet west from west line of Greenville Street.	2" 175	2" 175			6" C					
Hall Avenue	Main gate: On west line of Greenville Street 7 feet north from south line of Greenville Terrace. Hydrant removal: 306 feet west from Liberty Avenue. Hydrant: 315 feet west from Liberty Avenue. Gate on hydrant branch: 315 feet west from west line of Liberty Avenue, 3 feet out from hydrant.	6" 10	6" 3			2" C	6" P&C				
Highland Avenue	Hydrant replacement: 3 feet west from Willow Avenue. Gate on hydrant branch: 3 feet west from west line of Willow Avenue, 2 feet out from hydrant.	6" 3	6" 3			6" R	6" Co. 6" H G				
Holland Street Horace Street	Hydrant replacement: 138 feet south from Buena Vista Road. Blow-off: Gate is 13 feet 10 inches west from east line of Horace Street and 14 feet 8 inches south from north end of Horace Street.	4" 28				6" R	6" Co. 6" M				
						4" S					1

Section gate: On west line of Lowell Street; 13 feet 4 inches south from north line of Hudson Street.

Street main: From connection with main pipe in Edgar Avenue to point 12 feet east from west line of Bond Street.

Main gate: On east line of Edgar Avenue 13 feet 4 inches north from south line of Jaques street.

Main gate: On west line of Bond Street 13 feet 4 inches north from south line of Jaques Street.

Hydrant: 146 feet west from Bond Street.

Gate on hydrant branch: 146 feet west from west line of Bond Street, 5 feet out from hydrant.

Hydrant replacement: 184 feet east from Fenwick Street.

Gate on hydrant branch: 184 feet east from east line of Fenwick Street, 4 feet 3 inches out from hydrant.

Replaced street main: From connection with main pipe in Washington Street at point 28 feet south from north line of Washington Street to connection with main pipe in Joy Street, at point 4 feet 6 inches south from south line of Washington Street.

Main gate: 31 feet south from north line of Washington Street and 10 feet 4 inches east from west line of Joy Street.

Main gate: On south line of Washington Street 10 feet 4 inches east from west line of Joy Street. (Old 6" gate set 4 feet 6 inches south from south line of Washington Street was buried and is still on Joy Street main).

Blow-off: Gate is 25 feet north from south line of Washington Street and 12 feet 6 inches east from line of Joy Street.

Replaced street main: From connection with Linden Avenue 4" main at point 7 feet 10 inches south from north line of Summer Street to connection with main pipe in Cedar Avenue.

Main gate: On north line of Summer Street 12 feet east from west line of Linden Avenue.

Main gate: On south line of Cedar Avenue 12 feet east from west line of Linden Avenue.

Hydrant: 3 feet south from Cedar Avenue.

Gate on hydrant branch: 3 feet south from south line of Cedar Avenue, 4 feet out from hydrant.

Replaced street main: From connection with 12" quarter bend at point 27 feet 10 inches south from north line of Washington Street to point 9 feet 6 inches south from south line of Washington Street (Old pipe was offset 3 feet).

Main gate: 32 feet south from north line of Washington Street and 33 feet east from east line of Medford Street.

Main gate: On south line of Washington Street 15 feet 6 inches east from west line of Linwood Street.

Hydrant removal: 177 feet north from Kidder Avenue.

Hydrant: 172 feet north from Kidder Avenue.

Hudson Street  
Jaques Street

Joy Street

Linden Avenue

Linwood Street

Lowden Avenue

10"	403	8"	R	
6"	7	10"	R	6" H C
6"	3	6"	R	6" M 6" M
10"	59	6"	S	
6"	4	63		
4"	8	10"	R	4"
6"	279	4"	S	
6"	7	6"	R 4" BM	
12"	81	6"	R	6" H C
6"	10	6"	S	
		12"	R 10" C	
		12"	R 6" C	6" M
		6"		6" M





## SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1919.

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 95,000.

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, 95,000.

Estimated population on lines of pipe, 95,000.

Estimated population supplied, 95,000.

Total consumption for the year, 2,387,663,000 gallons.

Average daily consumption, 6,541,500 gallons.

Gallons per day to each inhabitant, 69.

## Statistics Relating to Distribution System, 1919.

## MAINS.

Kind of pipe, cast iron.

Sizes, from 4-inch and under to 20-inch.

Laid 1,648 feet; discontinued 1,091 feet; net extension, 557 feet.

Total now in use, 102.58 miles.

Number of leaks per mile, 0.24.

Number of hydrants added during year (public, 2; private, 0), 2.

Number of hydrants (public and private) now in use, 1,241.

Number of stop gates added during year, 29.

Number of stop gates now in use, 1,856.

Number of blow-offs, 183.

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 1,407 feet; discontinued 592 feet.

Total now in use, 88.48 miles.

Number of service taps added, 48; discontinued, 18; net increase, 30.

Number now in use, 13,544.

Number of meters added, 382; meters and motor registers discontinued, 176; net increase, 206.

Number now in use, 10,322.

Percentage of services metered, 76.21.

Percentage of water receipts from metered services, 82.

Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 3 (included in number of meters).

FINANCIAL STATISTICS.

REVENUE.

From Water Rates:—  
 Fixture rates . . . \$43,470 54  
 Meter rates . . . 199,400 75

Total from consumers . . . \$242,871 29

From other sources:—

Water service assessments . . . 2,113 67  
 Labor and materials . . . 3,559 31

EXPENDITURES.

Water Works Maintenance:—  
 Operation (management, re-  
 pairs and renewals) . . . \$49,933 61  
 Special:—  
 Miscellaneous accounts . . . 3,559 31

Total . . . \$53,492 92  
 Interest on bonds . . . 240 00  
 Payment on bonds . . . 4,000 00  
 Water Works Buildings . . . 865 01

Water Works Construction:—  
 Mains . . . \$3,456 51  
 Services . . . 1,779 01  
 Meters . . . 950 89

Total construction . . . \$6,186 41

Unclassified expenses:—

Metropolitan water assessment . . . 128,082 90

Balance:—

Ordinary . . . \$55,677 03

Total balance . . . 55,677 03

Total . . . \$248,544 27

Disposition of balance: applied to municipal purposes.

Cost of works to date . . . \$1,073,196 79

Bonded debt at date . . . 2,000 00

\$248,544 27

## REPORT OF THE PLANNING BOARD.

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December 31, 1919.

To His Honor the Mayor and Board of Aldermen.  
Gentlemen:

In compliance with Chapter 494 of the Acts of 1913, the Planning Board herewith respectfully submits its annual report and recommendations for the year 1919.

The Board organized for the year by electing William F. Riley, Chairman, and David J. Kelley, Secretary, the other members of the Board being Harrison L. Evans, George J. Rauh and Paul R. Valentine.

In the course of the past year the Board has considered the following subjects, and makes recommendations as follows:—

### Fire Protection.

The Board again respectfully calls attention to the urgent necessity of establishing Fire Districts in our city. At the present time the construction of new buildings is practically at a stand still, and in the opinion of the Board now is the opportune time to take action which will secure our citizens against danger from the presence of fire hazards. The establishment of Fire Districts has already been undertaken in our neighboring cities, and Somerville should not lag behind in this respect. This matter has been discussed by our city governments of the past several years, but no progress has been made.

Modern fire-fighting apparatus is being furnished as rapidly as possible, but Fire Districts are very necessary as a safeguard to prevent the erection of more wooden buildings and to insure a better class of building construction when the old wooden buildings now standing in some of the public squares of our city have become obsolete. This Board, therefore, recommends that Fire Districts be established, and some action taken during the coming year towards the fulfillment of this object.

### Street Car Service.

In spite of agitation by all our citizens the street car service still remains a serious problem. The crowded conditions existing during the rush hours on all the car lines still

remains unchanged. In the opinion of the Planning Board Somerville is being discriminated against in the matter of furnishing sufficient cars, and also in the quality of the service rendered. The Board recommends that action be taken to secure better service and more car accommodations by appealing to the proper authorities without further delay.

#### **Public Parks and Buildings.**

The Planning Board recommends that our school buildings be made more accessible for neighborhood gatherings, so that our citizens may use them for social entertainments, which will help to develop community spirit and civic pride.

The Board also respectfully calls your attention to the necessity of laying out the land now owned by the city between Cedar Street and City Road, and known as "Richard Trum Playground" as a public park, to insure to the people in that section of our city a permanent playground and recreation center for all time.

The Board again recommends that a playground be provided on the land owned by the city known as the old City Ledge. This would be a great benefit to the Clarendon Hill section of our city, and would not be a very great expense to the city.

#### **Somerville Bath House.**

The necessity of making the only bathing place in Somerville a fit place for the people of our city to go to for pleasure and recreation is a duty which should be no longer neglected. The Board recommends that the bathing beach at Wellington Bridge be thoroughly cleaned for the coming season, and a remedy found for the muddy condition of the beach.

#### **Bridge Street Widening.**

As recommended in the reports of 1916, 1917 and 1918 the Planning Board again calls your attention to the importance of widening Bridge Street at the lower end of our city, and recommends that this matter be discussed with our neighboring city of Cambridge at an early date. The old houses now standing are for the most part unoccupied, and in a dilapidated condition, and if taken at their present valuation for widening the street, would result in a great saving to both cities, and be a valuable and much needed public improvement.

**Housing Conditions.**

In view of the abnormal conditions existing, due to the shortage of houses, the Board respectfully calls attention to the fact that it is authorized under the Act of the Legislature creating it to "make careful studies of the resources and needs of the city, particularly with respect to conditions injurious to public health — in and about rented dwellings." It therefore recommends that all complaints of this nature from citizens be referred to it for investigation and report.

**Appropriation.**

The Planning Board received Two hundred dollars for 1919, and was able to purchase some of the supplies needed, but did not use the whole of its appropriation because the amount allotted was insufficient to enable it to carry out the plans it has in view. It hopes to gradually procure sufficient equipment so that it will be in a position to furnish information to the city government, which will be of assistance in solving the various municipal problems.

The Board has been promised office space, but nothing has been done, and at present the Board has no definite meeting place. This should be attended to without undue delay.

The Board respectfully requests an appropriation of Two hundred dollars this year, and also an office in the City Hall, where its records may be kept, and meetings held.

Respectfully submitted,

WILLIAM F. RILEY, Chairman,  
HARRISON L. EVANS,  
PAUL R. VALENTINE,  
GEORGE J. RAUH,  
DAVID J. KELLEY, Secretary.

## REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

Somerville, Mass., February 14, 1920.

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, 1919:—

### Alarms of Fire.

Number of bell alarms . . . . .	252
Number of still alarms . . . . .	410
Total alarms . . . . .	662
Number less than 1918 . . . . .	46
Value of buildings at risk . . . . .	\$781,500 00
Insurance on buildings . . . . .	437,900 00
Damage to buildings . . . . .	48,035 87
Value of contents . . . . .	203,090 90
Insurance on contents . . . . .	116,026 50
Damage to contents . . . . .	29,154 60
Total value at risk . . . . .	984,590 90
Total insurance . . . . .	553,926 50
Total damage . . . . .	77,190 47

### List of Probable Causes.

Accidental . . . . .	7
A. D. T. . . . .	3
Automobiles and Trucks . . . . .	5
Bonfires . . . . .	22
Candle on table . . . . .	2
Carelessness with matches . . . . .	9
Child caught in elevator . . . . .	1
Children playing with matches . . . . .	17
Cigars, cigarettes and pipes . . . . .	12
Closet fires . . . . .	4
Dump fires . . . . .	8
Decorations in contact with gas . . . . .	1
Defective chimneys . . . . .	10
Electric car . . . . .	2
Electric flat iron . . . . .	1
Electric wires . . . . .	5
Explosion of powder . . . . .	1
False alarms . . . . .	43

Filling gas tanks . . . . .	5
Fire crackers . . . . .	2
Fire in Boston . . . . .	3
Grass fires . . . . .	15
Heat from dryer . . . . .	1
Hot ashes . . . . .	8
Incendiary . . . . .	9
Kettle of fat . . . . .	1
Kerosene lamps and stoves . . . . .	6
Overflow of bathroom tank . . . . .	1
Smoke from automobile . . . . .	2
Smoke from Chimney . . . . .	2
Salamander . . . . .	1
Smoking in bed . . . . .	6
Spark from furnace . . . . .	5
Spark from Locomotive . . . . .	5
Spark on roof . . . . .	5
Spark from forge . . . . .	1
Spontaneous Combustion . . . . .	4
Tarvia truck on street . . . . .	1
Thawing water pipes . . . . .	3
Unknown . . . . .	8
Wood near stove . . . . .	2
Wires on trees and poles . . . . .	3

	Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 3.	Hose 5.	Hose 7.	Hose 8.	Ladder 1.	Ladder 2.	Ladder 3.	Totals
Bell alarms responded to .	202	141	106	37	111	90	95	90	104	86	61	252
Still alarms responded to .	55	43	13	84	31	33	48	54	17	3	29	410
Miles traveled . . . . .	477	241	235	108	281	234	168	208½	97	149	99	2,297½
Feet of 2½ in. hose used .	12,650	13,550	6,600	8,650	3,400	8,100	7,050	10,250	.....	.....	.....	70,250
Feet of chemical hose used	8,000	2,150	.....	.....	7,000	10,050	7,050	6,250	.....	.....	3,000	43,500
Feet of ladders used .	120	.....	.....	24	.....	260	.....	108	1,474	1,051	1,551	4,588
Chemical extinguishers used . . . . .	29	18	8	2	1	.....	14	13	12	2	10	103
Gallons of chemical used .	1,950	.....	.....	741	1,225	1,855	630	789	.....	.....	683	7,875
Times on duty at other stations . . . . .	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	2
Times responded out of town . . . . .	8	12	.....	26	9	3	.....	16	.....	.....	1	85
Rubber covers used . . . . .	1	.....	.....	.....	.....	.....	.....	.....	4	2	.....	7



**Manual Force.**

Robert Geaton, a callman, died August 3, 1919, appointed May 22, 1895, and one callman resigned. One permanent man has been retired on a pension and one discharged. One permanent man was appointed. The membership of the department now consists of eighty-two permanent men and nine callmen classified as follows,—

- 1 Chief Engineer,
- 1 First Assistant Engineer,
- 1 Second Assistant Engineer,
- 7 Captains,
- 1 Master Mechanic,
- 11 Lieutenants,
- 3 Enginemen,
- 57 Permanent men,
- 9 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,
- 1 Automobile for Master Mechanic.
- 2 Assistant Chiefs buggies,
- 1 Horse drawn relief hose wagon,
- 1 Horse drawn relief ladder truck,
- 4 Exercising wagons,
- 1 Supply wagon.

**Horses.**

There are nineteen horses in the department, three have died and one was disposed in trade; two were purchased; two more will have to be bought to keep up the efficiency of the horse-drawn apparatus. Many of the horses are getting old and will have to be replaced much more rapidly than in the past.

**Hose.**

The amount of serviceable hose is 9,500 feet of two and one half inch rubber lined cotton hose, and 1,950 of three-quarter inch chemical hose. There has been three hundred feet

of two and one-half inch hose purchased and five hundred feet condemned. There should be at least 12,000 feet of hose in the department but the cost has increased from twenty-five to thirty per cent. so that the amount is reduced to the very minimum.

#### Brief Resume.

The average loss has been \$6,500 a month, the months of February and October had upwards of \$15,000 each; the damage to St. Ann's Church in October amounted to \$14,000. The month of September had the smallest loss of any one month for the past twenty years i. e. \$100.

The following table gives the losses by months, —

January . . . . .	\$6,700 93
February . . . . .	15,981 00
March . . . . .	8,850 71
April . . . . .	2,322 00
May . . . . .	6,963 00
June . . . . .	5,659 00
July . . . . .	5,160 50
August . . . . .	2,473 96
September . . . . .	100 00
October . . . . .	15,509 46
November . . . . .	3,121 17
December . . . . .	4,348 74
	\$77,190 47

There have been twenty fires with an insurance loss exceeding \$1,000 as follows, —

January 22, 7:43 A. M. Box 228, 550 Somerville Avenue, Middlesex Bleach, Dye and Print Works owned and occupied by K. M. Gilmore Co., damage to building, \$136.76, to contents \$4,039.78. Cause, Spontaneous combustion.

February 1, 2:10 A. M. Box 321, 138 Sycamore St., unoccupied dwelling owned by S. L. D. Millet, damage to building \$2,685. Cause, incendiary.

February 9, 9:20 A. M. Box 47, 14-16 Dresden Circle, dwelling owned by George Buettel, occupants, George Dymont and Mrs. Emma Gould, damage to building \$1,310, to contents \$200. Cause, carelessness with matches.

February 14, 2:42 A. M. Box 334, Middlesex Ave., Mystic River Ship Building Co., damage to building \$1,000, to contents \$2,000. Cause, probably tramps smoking.

February 16, 9:17 P. M. Box 21, 45-47 South Street, Bakery and Macaroni Factory, owned and occupied by Michele Capodilupo, damage to building \$3,200, to contents \$4,456. Cause, Electric wires.

March 5, 6:21 P. M. Box 28, 550 Somerville Ave., Middlesex Bleach, Dye and Print Works, owned and occupied by

K. M. Gilmore Co., damage to building \$1,200, to contents \$975.71. Cause, careless watchman, matches.

March 8, 9:02 P. M. Box 32, 17-19 Otis St., dwelling owned by Harry Schlager, occupants, Wm. H. Anlaw and A. Richards, damage to building \$1,700, to contents, \$200. Cause, thawing water pipes.

March 13, 8:47 P. M. Box 232, 28 Lake St., Salt and Grain Storehouse, owned and occupied by Rosenthal and Cholfin, damage to building \$650, to contents, \$1,850. Cause, spark from locomotive.

March 14, 8:28 P. M. Box 119, 80 Pearl St., dwelling owned by Charles G. Johnson, occupants, Chas. G. Johnson and Mrs. Belle Hazen, damage to building \$765, to contents, \$400. Cause, unknown.

April 3, 6:05 P. M. Box 19, 197 Washington St., dwelling owned by the S. W. Holt Estate, occupant, W. E. Plumer, damage to building \$774, to contents, \$275. Cause, spark in newspapers.

May 1, 9:15 A. M. Box 324, 66-68 Derby St., dwelling owned by Miss Sadie Thayer, occupants, Elbridge Tilton and William Highet, damage to building \$2,040, damage to contents \$100. Cause, overheated stove.

May 10, 8:54 P. M. Box 213, 31 Walnut St., Stable used as garage, owned by Mrs. Harriet Lamont, occupant Mrs. C. A. Musgrave, damage to building \$1,000, to contents \$1,600. Cause, upsetting lantern igniting gasoline.

May 23, 1:15 A. M. Box 114, a second alarm was sounded for this fire, rear Linwood Terrace, barrel storage owned and occupied by W. J. Carroll, damage to building \$1,690, to contents \$1,410. Cause, unknown.

June 5, 9:33 P. M. Box 42, a second alarm was sounded for this fire, 1 Bleachery Court, rum storage owned by Daniel E. Chase Estate, damage to building \$2,491, to contents \$2,035. Cause, locomotive spark.

July 7, 8:03 A. M. Box 156, rear 22 No. Union St., Stable and shed owned and occupied by Dennis Lucey, damage to building \$1,285, to contents \$640. Cause, careless smoker.

August 2, 11:14 P. M. Box 219, 31-33 Houghton St., Bottling Plant owned by C. Varhely, occupied by Charles Birnbaum, damage to building \$960, to contents \$792.96. Cause, electric wires.

October 18, 1:39 A. M. Box 33, Cor. Medford and Thurston Sts., St. Ann's Church, damage to building, \$10,000, to contents \$3,700. Cause, carelessness with matches.

October 28, 8:45 P. M. Box 331, 245 Pearl St., Grocery store in Fleming Building owned by F. W. Fleming, occupied by Carlo Bizzaro, damage to building \$756.66, to contents \$300. Cause, incendiary.

November 5, 8:34 P. M. Box 217, 68 Summer St., Drug store and dwelling owned by Brady Estate, occupants C. H. Shea and Mrs. Margaret J. Pinkham, damage to building \$870.17, to contents \$800. Cause, Rubbish in cellar.

December 15, 5:57 A. M. Box 48, 8 Curtis St., owned and occupied by the Clarendon Club Association, damage to building \$2,210, to contents \$400. Cause, spark from heater in cellar.

Again the sounding of false alarms and alarms for bonfires lead all other causes. The penalty, if imposed upon the securing of conviction, should be a sufficient deterrent and warning to others from practicing this foolish crime. Such an alarm, calling out the apparatus unnecessarily, caused an expense of over \$800 in repairs to one motor piece. Every citizen and taxpayer, who has to bear this expense, should give to the authorities any and all information toward the apprehending and convicting this class of criminals.

The number of fires caused by the careless use of matches and children playing with matches has again increased during the past year. Almost annually I have urged upon the citizens to exercise greater care in the handling of matches; as for children being permitted to have access to matches, there is no excuse. Parents use extraordinary care in keeping away from the child the unusual dangers, whereas the familiar match is left lying about; playing with which, the child, not infrequently, is disfigured for life or burned to death.

#### Recommendations.

A full motorization of the department spells economy and efficiency; it is true that the purchase price of motor apparatus has advanced rapidly in the past three years but there appears no prospect of a reduction but rather a further advance. The expense of maintaining the horses, feeding and shoeing, has become almost prohibitive, it having advanced practically 50% to 75%. Furthermore, the National Board of Fire Underwriters are adopting a new method of classification and rating of cities and communities, — heretofore cities have been rated according to their efficiency and thereby classified as A. B. C. D., etc., and the insurance assessed accordingly, whereas under the new plan, marked according to their deficiencies, they will be numbered from 1 to 10, and in order that a city may be placed in one of the first three classes, the deficiency mark, as applied to the fire department, requires, at least, three-fourths of the department shall be motorized. At the present time eleven of the nineteen pieces of apparatus are motorized in our city.

**In Conclusion.**

In closing I wish to express to His Honor, the Mayor, and the gentlemen of the Board of Aldermen, my sincere appreciation and thanks for the unfailing cordiality, consideration and courtesy shown me the past year.

To my associates in the department I express my gratitude for their loyal support and the efficient manner in which they have performed their various duties.

Respectfully submitted,

SEWALL M. RICH,

*Chief Engineer.*

## REPORT OF THE CHIEF OF POLICE.

January 31, 1920.

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, 1919, —

Arrests		
Whole number of arrests made . . . . .		1,764
With and without warrants . . . . .	1,184	
On summons and notification . . . . .	580	
		1,764
Males . . . . .	1,674	
Females . . . . .	90	
		1,764
Americans . . . . .	1,246	
Foreign Born . . . . .	518	
		1,764
Residents . . . . .	1,089	
Non-residents . . . . .	675	
		1,764

### 1. — Crimes and Offenses Against the Person.

Assaults . . . . .	2
Assault on officer . . . . .	1
Assault and battery on officers . . . . .	8
Assault with dangerous weapon . . . . .	6
Assault with intent to murder . . . . .	2
Assault with intent to rape . . . . .	1
Assault and battery . . . . .	95
Carnal abuse of female child . . . . .	1
Manslaughter . . . . .	4
Murder . . . . .	2
Murder, witness to . . . . .	1
Rape . . . . .	5
Robbery . . . . .	5
Robbery, attempt . . . . .	2
Threats . . . . .	4

## 2. — Crimes and Offenses Against Property.

Breaking and entering . . . . .	83
Breaking and entering, attempt . . . . .	6
Breaking and entering railroad cars . . . . .	7
Breaking and entering railroad cars, attempt . . . . .	3
Breaking glass . . . . .	10
Concealment of leased property . . . . .	2
Destroying electric lamp . . . . .	1
Injury to real estate . . . . .	6
Larceny . . . . .	151
Larceny, attempt . . . . .	1
Larceny from person . . . . .	6
Larceny in building . . . . .	5
Malicious mischief . . . . .	2
Receiving stolen goods . . . . .	5
Trespass . . . . .	115
Trespass, wilful . . . . .	12
Unlawfully taking horse . . . . .	2
Unlawfully using electricity . . . . .	1

418

## 3. — Crimes and Offenses Against Public Order, Etc.

Adultery . . . . .	4
Bail surrender . . . . .	6
Bastardy . . . . .	6
Capias . . . . .	5
Carrying concealed weapons . . . . .	1
Carrying firearms without licence . . . . .	4
Contempt of court . . . . .	5
Cruelty to animals . . . . .	6
Dangerous weapons, in possession of . . . . .	1
Default . . . . .	12
Deserters from United States Army . . . . .	2
Deserter from United States Navy . . . . .	1
Desertion of wife . . . . .	2
Disorderly conduct on public conveyance . . . . .	5
Disturbing the peace . . . . .	8
Disturbing public assembly . . . . .	17
Dog keeping, unlicensed . . . . .	3
Drunkenness . . . . .	326
Drunkenness, common . . . . .	5
Escape from Industrial School . . . . .	1
False scales, in possession of . . . . .	2
Gaming implements, present when found . . . . .	22
Gaming nuisance . . . . .	3
Giving false alarm of fire . . . . .	4
Incest . . . . .	1
Indecent exposure of person . . . . .	2
Lewd and lascivious cohabitation . . . . .	12
Neglected children . . . . .	16
Neglect to support . . . . .	80
Revoke of parole, Lyman School . . . . .	3
Revoke of parole, State Farm, Bridgewater . . . . .	2
Safe keeping, alcoholism . . . . .	1
Safe keeping, demented . . . . .	30
Safe keeping, escaped prisoner . . . . .	1

Safe keeping, escape from Industrial School . . . . .	1
Safe keeping, escape from Middlesex Training School . . . . .	4
Safe keeping, feeble minded . . . . .	3
Safe keeping, insane . . . . .	4
Safe keeping, escape from Prison Camp, Tewksbury . . . . .	1
Safe keeping, revoke of parole, Lyman School for Boys . . . . .	2
Safe keeping, revoke of parole from Industrial School . . . . .	1
Safe keeping, revoke of parole, from Mass. Reformatory . . . . .	3
Safe keeping, runaway from Industrial School . . . . .	1
Safe keeping, runaway from Lyman School . . . . .	2
Safe keeping, runaway children . . . . .	21
Selling gasoline, short measure . . . . .	1
Selling ice, short weight . . . . .	2
Stubbornness . . . . .	19
Unnatural act . . . . .	1
Straggler from United States Army . . . . .	1
Straggler from United States Navy . . . . .	1
Suspicious persons . . . . .	2
Violation of city ordinances . . . . .	125
Violation of cigarette law . . . . .	1
Violation of insurance law . . . . .	1
Violation of labor laws . . . . .	29
Violation of liquor laws . . . . .	5
Violation of Lord's Day . . . . .	59
Violation of milk laws . . . . .	10
Violation of parole . . . . .	1
Violation of parole from Mass. Reformatory . . . . .	1
Violation of motor vehicle laws . . . . .	246
Violation of parole from State Farm . . . . .	1
Violation of school laws . . . . .	16
Violation of terms of probation . . . . .	28
Violation of traffic rules . . . . .	1
Walking on railroad track . . . . .	14

1,207

## Recapitulation.

(1) Crimes and Offenses Against the Person . . . . .	139
(2) Crimes and Offenses Against Property . . . . .	418
(3) Crimes and Offenses Against Public Order, etc. . . . .	1,207

Total number of arrests made . . . . .	1,764
Bailed to appear at other courts . . . . .	10
Cases in which nolle prosequi was entered . . . . .	33
Contempt of court . . . . .	5
Defaulted . . . . .	1
Delivered to jail at East Cambridge, bail surrender . . . . .	5
Delivered to police court, violation of probation, etc. . . . .	30



Delivered to superior court, bail surrender, capias, etc. . . . .	4
Discontinued and dismissed in police court . . . . .	6
Released by probation officer, drunkenness, etc. . . . .	37
Surrendered to other officers, institutions, etc. . . . .	161
Witness to murder . . . . .	1

	293
Number of cases held for trial . . . . .	1,471

Note, — Four hundred and seventy-five of the above number of cases were juveniles and delinquents.

## Miscellaneous Reports.

Abandoned automobiles . . . . .	26
Abandoned motorcycle . . . . .	1
Accidents reported . . . . .	555
Alarms given for fire . . . . .	2
Amount of property stolen . . . . .	\$46,001 71
Amount of stolen property recovered . . . . .	62,443 61
Amount of property lost . . . . .	1,145 25
Amount of lost property found . . . . .	88 63
Assaults . . . . .	10
Assault, attempt . . . . .	1
Assault and battery . . . . .	2
Assault with dangerous weapon . . . . .	3
Assault, indecent . . . . .	1
Attempts to break and enter . . . . .	44
Attempts to commit larceny . . . . .	7
Attempts to commit suicide . . . . .	4
Attempts to rob . . . . .	3
Buildings broken and entered, nothing stolen . . . . .	55
Buildings found open . . . . .	342
Carrier pigeon found . . . . .	1
Cats killed . . . . .	2
Cellar flooded . . . . .	1
Cruelty to animals . . . . .	2
Dead animals found . . . . .	4
Dead body found . . . . .	1
Defective bridges . . . . .	5
" buildings . . . . .	2
" catch basins . . . . .	29
" drinking fountains . . . . .	3
" driveway . . . . .	1
" electric lamps . . . . .	6
" fences . . . . .	3
" fire alarm box . . . . .	1
" fire escape . . . . .	1
" gas gate boxes . . . . .	2
" guy rope . . . . .	1
" hydrants . . . . .	8
" man holes and covers . . . . .	3
" poles . . . . .	2
" police signal service . . . . .	18
" sewer . . . . .	1
" sidewalks . . . . .	325
" sidewalks, lighted . . . . .	2
" signs and sign posts . . . . .	86
" streets . . . . .	123
" street, lighted . . . . .	1
" tree guard . . . . .	1
" U. S. mail box . . . . .	1
" waste barrel . . . . .	1
" water gate boxes . . . . .	41
" wires . . . . .	51
Demented persons . . . . .	4
Disturbances . . . . .	27
Disturbances suppressed . . . . .	4
Dogs killed . . . . .	8
Dog, mad . . . . .	1
Dog, vicious . . . . .	1
Elopement . . . . .	1

False alarm for burglary . . . . .	3
Fire, alarms given for . . . . .	3
Fires extinguished without alarm . . . . .	2
Fire, needless alarms for . . . . .	3
Fires, false alarms of . . . . .	39
Fires reported . . . . .	205
Gaming . . . . .	1
Gas leaks . . . . .	9
Gas poisoning . . . . .	1
Heat prostration . . . . .	1
Horse killed . . . . .	1
House boat broken and entered . . . . .	1
Houses unoccupied . . . . .	36
Indecent exposure of person . . . . .	6
Insane cases . . . . .	3
Larcenies, no value given . . . . .	126
Larcenies . . . . .	492
Lost children . . . . .	269
Lost children, found . . . . .	269
Malicious mischief . . . . .	40
Missing persons . . . . .	72
Missing persons, found . . . . .	36
Neglected children . . . . .	1
Obstructions on railroad track . . . . .	2
"    on sidewalks . . . . .	13
"    in streets . . . . .	21
"    in streets, not lighted . . . . .	5
"    in streets, lighted . . . . .	5
Panes of glass broken . . . . .	277
Permits granted to labor on Lord's Day . . . . .	91
Permits granted to carry firearms . . . . .	467
Person helped home . . . . .	1
Persons bitten by dogs . . . . .	9
Property damaged and destroyed . . . . .	62
Property lost, no value given . . . . .	56
Property found, no value given . . . . .	53
Rescued person from fire . . . . .	1
Robberies . . . . .	6
Runaway children . . . . .	28
Runaway children, found . . . . .	31
Runaway horse . . . . .	1
Runaway horses, stopped . . . . .	3
Runaway teams, stopped . . . . .	3
Sidewalks dangerous from snow and ice . . . . .	3
Sidewalks flooded . . . . .	1
Still born infant, found . . . . .	1
Stray bullets, fired . . . . .	3
Stray cats . . . . .	2
Stray cows, found . . . . .	2
Stray dogs . . . . .	88
Stray dogs, found . . . . .	51
Stray donkey . . . . .	1
Stray donkey, found . . . . .	1
Stray horse . . . . .	1
Stray horses, found . . . . .	8
Stray parrot, found . . . . .	1
Stray pig . . . . .	1
Stray pig, found . . . . .	1
Stray teams . . . . .	12
Stray teams, found . . . . .	17

Streets dangerous, from snow and ice . . . . .	6
Street lights, reported . . . . .	3,509
Strikes . . . . .	2
Sudden deaths . . . . .	5
Suicide . . . . .	1
Subways, flooded . . . . .	2
Summonses served for witnesses and defendents to appear in court at other places . . . . .	354
Suspicious persons . . . . .	82
Team hired and not returned in proper time . . . . .	1
Threats . . . . .	2
Trees, dangerous . . . . .	50
Trespass . . . . .	33
Trespass, wilful . . . . .	18
Unlawful appropriation of horses . . . . .	2
Unlawful appropriation of motor vehicles . . . . .	5
Violation of accosting act . . . . .	1
Violation of board of health rules . . . . .	3
Violation of city ordinances . . . . .	125
Violation of Lord's Day . . . . .	3
Violation of motor vehicle laws . . . . .	3
Water pipes, leaking . . . . .	124
Wife desertion . . . . .	1
Windows broken . . . . .	58

## OFFICIAL ROSTER OF DEPARTMENT.

**Chief of Police.**

Charles A. Kendall.

**Captain.**

Eugene A. Carter.

**Lieutenants.**

Charles E. Woodman

John A. Ray.

James M. Harmon

**Inspectors.**

Thomas Damery

Michael T. Kennedy

**Sergeants.**

William G. Kenney

Frank H. Graves

James M. Lynch

Ernest Howard

Robert T. Blair

Thomas P. Walsh

**Patrolmen.**

- |                               |                            |
|-------------------------------|----------------------------|
| 1 — Edward M. Carter          | 38 — Bernard McCabe        |
| 2 — George L. Smith           | 39 — Harry C. Young        |
| 3 — Francis A. Perkins        | 40 — Robert D. Dewar       |
| 4 — Theodore E. Heron         | 41 — Peter Moore           |
| 5 — Charles W. Stevens        | 42 — Albert C. Hawes       |
| 6 — Daniel G. Simons          | 43 — Walter C. Oesting     |
| 7 — Samuel Burns              | 44 — John L. Cameron       |
| 8 — Jotham Chisholm           | 45 — Francis P. Higgins    |
| 9 — John A. Dadmun            | 46 — John J. McCahey       |
| 10 — George L. Rice           | 47 — Alexander Morrison    |
| 11 — Myron S. Gott            | 48 — Daniel J. Powers      |
| 12 — Charles W. Reick         | 49 — Jeremiah O'Connor     |
| 13 — Frank C. Hopkins         | 50 — Charles E. Wilson     |
| 14 — Charles W. Allen         | 51 — William J. Warner     |
| 15 — Hudson M. Howe           | 52 — Timothy Buckley       |
| 16 — Sanford S. Lewis         | 53 — John J. Killourhy     |
| 17 — Henry A. Sudbey          | 54 — Charles J. Sharry     |
| 18 — Thomas F. McNamara       | 55 — Thomas M. Sharry      |
| 19 — Louis F. Arnold          | 56 — Michael J. O'Loughlin |
| 20 — Charles S. Johnston      | 57 — Charles W. Shepherd   |
| 21 — Claude L. Crossman       | 58 — John F. Cruise        |
| 22 — John J. Cummings         | 59 — John J. Shay          |
| 23 — Edmund J. Keane          | 60 — Edward G. Butman      |
| 24 — Denis Neylon             | 61 — John P. L. O'Keefe    |
| 25 — Denis Downey             | 62 — Alfred E. Robitaille  |
| 26 — Edward M. Davies         | 63 — Allan S. Burns        |
| 27 — George A. C. Peters      | 64 — William H. Donovan    |
| 28 — Louis J. Belzarini       | 65 — George R. Allan       |
| 29 — Walter Reed              | 66 — Jeremiah Keniry       |
| 30 — Dennis G. Mulqueeney     | 67 — James Murray          |
| 31 — Patrick J. Doolin        | 68 — Charles J. Fulton     |
| 32 — Edward J. Hopkins        | 69 — Edward F. Culliton    |
| 33 — Walter L. Groves         | 70 — Alfred J. McFadden    |
| 34 — Frederick G. Jones       | 71 — James A. Fitzpatrick  |
| 35 — Joseph A. Dwyer          | 72 — Elmer E. G. Raymond   |
| 36 — Augustine J. Fitzpatrick | 73 — Frank J. Roche        |
| 37 — Patrick McGrath          | 74 — Augustine F. Sharry   |

**Reservemen.**

75 — Daniel M. O'Connell	78 — Charles F. Lacey
76 — Chester C. F. Warner	79 — William E. Dwyer
77 — George D. MacDonald	80 — Charles H. McAvoy

**Chauffeurs and Patrol Drivers.**

James W. Lundergan  
 John H. McKenzie.

James H. White

**Matron.**

Mrs. Mina T. Weeks.

**Assistant Matron.**

Mrs. Katherine Woods.

**Pensioners, Retired On Half Pay.**

John E. Fuller,	Mar. 23, 1906	George H. Carleton,	Mar. 27, 1914
Ira S. Carleton,	May 9, 1907	Frederick H. Googins,	Mar. 12, 1915
James J. Pollard	Feb. 27, 1908	Robert R. Perry,	Apr. 14, 1916
Melville C. Parkhurst,	Oct. 31, 1908	Jacob W. Skinner,	Dec. 31, 1917
Herbert Hilton,	Dec. 21, 1911	Elmer E. Drew,	July 25, 1918
Ezra A. Dodge,	Mar. 14, 1914	Ernest S. Goff,	July 11, 1919

**CHANGES IN FORCE.****Appointments.**

Charles F. Lacey, appointed, reserveman, May 26, 1919.  
 William E. Dwyer, appointed, reserveman, May 26, 1919.  
 Charles H. McAvoy, appointed, reserveman, May 26, 1919.

**Promotions.**

Reserveman, Alfred J. McFadden, promoted to patrolman, May 24, 1919.  
 Reserveman, James A. Fitzpatrick, promoted to patrolman, May 24, 1919.  
 Reserveman, Elmer E. G. Raymond, promoted to patrolman, Sept. 13, 1919.  
 Reserveman, Frank J. Roche, promoted to patrolman, Sept. 27, 1919.  
 Reserveman, Augustine F. Sharry, promoted to patrolman, Nov. 15, 1919.  
 Patrolman, Robert T. Blair, promoted to sergeant, Dec. 20, 1919.  
 Patrolman, Thomas P. Walsh, promoted to sergeant, Dec. 20, 1919.

**Resignations.**

Patrolman, Arthur S. Walsh, resigned, Jan. 9, 1919.  
 Patrolman, Clyde W. Steeves, resigned, Oct. 8, 1919.

**Retirements.**

Patrolman, William J. Davidson, placed on pension roll, Jan. 24, 1919.

Patrolman, Ernest S. Goff, placed on pension roll, July 11, 1919.

**Death.**

Retired patrolman, William J. Davidson, died Sept. 1, 1919.

**Police Signal Service.**

Number of on duty calls made by the patrolmen . . . . .	245,344
Telephone calls made by the officers and patrolmen . . . . .	41,323

**"White" Combination Automobile Service.**

Number of runs made in conveying prisoners to station . . . . .	434
Number of prisoners conveyed . . . . .	556
Number of sick and injured conveyed . . . . .	312
Number of miles run in conveying prisoners to station . . . . .	914.0
Number of miles run in conveying sick and injured . . . . .	952.1
Number of miles run in conveying prisoners to and from jail . . . . .	582.4
Number of miles run elsewhere . . . . .	835.4
	<hr/>
Total number of miles run during the year . . . . .	3,283.9

**"Reo" Combination Automobile Service.**

Number of runs made in conveying prisoners to station . . . . .	62
Number of prisoners conveyed . . . . .	76
Number of sick and injured conveyed . . . . .	33
Number of miles run in conveying prisoners to station . . . . .	137.1
Number of miles run in conveying sick and injured . . . . .	129.7
Number of miles run in conveying prisoners to and from jail . . . . .	95.5
Number of miles run elsewhere . . . . .	260.5
	<hr/>
Total number of miles run during the year . . . . .	622.8

**Touring Car Reports.**

Number of prisoners conveyed to station . . . . .	40
Number of sick and injured conveyed . . . . .	3

**Horse Drawn Patrol Wagon and Horse Drawn Ambulance Reports.**

Number of runs made in conveying prisoners to station . . . . .	4
Number of prisoners conveyed . . . . .	4
Number of miles run in conveying prisoners to station . . . . .	5
Number of sick and injured conveyed . . . . .	279
Number of miscellaneous runs . . . . .	10

## REPORT OF POLICE MATRON.

January 31, 1920.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1919. The following females and minors having been committed to my care for following offenses, etc.

Adultery . . . . .	2
Assault and battery . . . . .	8
Contempt of court . . . . .	1
Default . . . . .	2
Demented . . . . .	4
Drunkenness . . . . .	15
Larceny . . . . .	8
Lewd and lascivious cohabitation . . . . .	5
Lost children . . . . .	72
Neglected children . . . . .	7
Operating automobile without license . . . . .	1
Runaways . . . . .	2
Safe keeping . . . . .	6
School absentee . . . . .	1
Stubbornness . . . . .	8
Threats . . . . .	1
Trespass . . . . .	10
Violation, city ordinance . . . . .	1
Violation of parole . . . . .	1
Violation of probation . . . . .	1
Total . . . . .	<hr/> 156

I have reported at police station each morning and attended juvenile sessions of court looking after all minors who have been in court.

Respectfully submitted,

MRS. MINA T. WEEKS,

*Matron.*



**Conclusion.**

The following officers returned from duty in the United States service during the year, — John L. Cameron, Charles J. Sharry, Allan S. Burns, William H. Donovan, Alfred J. McFadden, James A. Fitzpatrick, Elmer E. G. Raymond, Frank J. Roche and Augustine F. Sharry. There were two strikes during the year, one of employees of the New England Telephone and Telegraph Co., and another at the packing house plants, which took place on October 16th and lasted until December 15, 1919, of about 3000 employees of the North Packing and Provision Co., John P. Squire & Co., New England Dressed Meat and Wool Co., Sturtevant & Haley Beef Co., and Carl Weitz Sausage Co. All vacations, days off and leave of absence for the officers were suspended during this latter strike and conditions were handled by this department in a very satisfactory manner. Every officer in the department performed many extra hours of duty and every available officer was placed on duty around the plants, covering the twenty-four hours each day, and no loss of life and not a dollars worth of destruction of property occurred.

To His Honor the Mayor, Charles W. Eldridge for his uniform courtesy and advice on all matters pertaining to this department, members of the board of aldermen, court officials, newspaper correspondents, and to all members of this department for attention to their duties, I wish to extend my sincere thanks.

Respectfully submitted,

CHARLES A. KENDALL,

*Chief of Police.*

## REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

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OFFICE OF SEALER OF WEIGHTS AND MEASURES,  
City Hall Annex, Somerville, January 1, 1920.

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

The following report of the sealer of weights and measures for the year 1919 is respectfully submitted:—

### Chapter 62 of Revised Laws:—

Section 21. Sealers 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. Sealers of weights and measures shall receive fees as follows:— For sealing (a) all scales with a capacity of more than five thousand pounds, one dollar each; (b) all scales with a weighing capacity of one hundred to five thousand pounds, fifty cents each; (c) all other scales, balances, and measures on pumps, ten cents each, and (d) all weights and other measures, three cents each. They shall also receive reasonable compensation for all necessary repairs, alterations and adjustments made by them.

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, 1919.

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.

## ANNUAL REPORT.

## Work of Weights and Measures Department for 1919.

Number of scales sealed . . . . .	2,044	
Number of weights sealed . . . . .	3,851	
Number of dry measures sealed . . . . .	73	
Number of liquid measures sealed . . . . .	5,715	
Number of oil and gas pumps sealed . . . . .	260	
Number of yard sticks sealed . . . . .	132	
Number of miscellaneous sealed . . . . .	4	
	<hr/>	
Total . . . . .		12,079
Number of scales adjusted . . . . .	34	
Number of weights adjusted . . . . .	37	
	<hr/>	
Total . . . . .		71
Number of scales condemned . . . . .	77	
Number of weights condemned . . . . .	23	
Number of dry measures condemned . . . . .	7	
Number of liquid measures condemned . . . . .	124	
Number of yard sticks condemned . . . . .	0	
Number of Gas pumps condemned . . . . .	2	
	<hr/>	
Total . . . . .		233
Number of scales and weights out of use non-sealed . . . . .	41	
	<hr/>	
Number of inspections in stores and street . . . . .	289	41
	<hr/>	
		289
		<hr/>
Total tests made in 1919 . . . . .		12,713

JOHN H. DUSSEAULT,

*Sealer of Weights and Measures.*

## REPORT OF THE LAW DEPARTMENT.

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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, 1919, is as follows:

The boundary line between Somerville and Medford at present runs through many dwelling houses in such a manner that it is difficult to determine in which city the occupants live. Question has been raised as to the right of children living in such houses to attend public schools in this city. With the approval of Mayor Eldridge, I drew a petition signed by the mayors of the two cities for a change in the boundary line and attended to its publication in the manner required by law and by the rules of the general court in order that legislation may be obtained in the year 1920, if a new boundary line can be agreed upon.

An act was secured from the legislature, chapter 41 of the general acts entitled "An act relative to collectors of taxes," which it is hoped will cause a material reduction of annual premiums paid the surety company on bonds of the city treasurer and collector of taxes.

I represented the city at hearings held by the trustees of the Boston Elevated Railway Company relative to the apportionment on various cities and towns of a deficit in the income of the company. The portion assigned to Somerville was approximately the same as if on the basis of population.

I represented the city also at hearings held for the United States director of railroads in regard to increasing railroad fares in Somerville and elsewhere. Opposition was presented in behalf of many localities in the metropolitan district and no increase was made affecting this city.

At the request of the inspector of milk, I acted for the prosecution in the Somerville Police Court of persons charged with violation of the milk laws. Claims against the city were settled for sums varying from \$20 to \$750. A non-suit was obtained in one action and costs were collected by the city from the plaintiff. Another action which the city refused to settle was abandoned. A demurrer filed in behalf of the city in a case in equity relating to a garage license was sustained by the court.

Very respectfully,

FRANK W. KAAH,

*City Solicitor.*

## REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK,  
January 1, 1920.

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

Gentlemen:— The following is respectfully submitted as the forty-eighth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1919.

The receipts and payments were as follows:—

### Receipts.

Balance from year 1918, being for dog licenses issued in December, 1918:—			
6 males at \$2.00 . . . . .		\$12 00	
1 spayed at \$2.00 . . . . .		2 00	
		\$14 00	
Less city clerk's fees paid to the city treasurer, 7 at \$ .20 . . . . .		1 40	
			\$12 60
For dog licenses issued in 1919:—			
750 males at \$2.00 . . . . .		\$1,500 00	
169 females at \$5.00 . . . . .		845 00	
90 spayed at \$2.00 . . . . .		180 00	
1 kennel at \$25.00 . . . . .		25 00	
			\$2,550 00
For hunting and fishing licenses issued in 1919:—			
295 resident hunters at \$1.00 . . . . .		\$295 00	
1 foreign born unnaturalized hunter at \$15.00 . . . . .		15 00	
21 resident fishermen at \$ .50 . . . . .		10 50	
			\$320 50
Recording mortgages, assignments, etc., 823 papers . . . . .			
		\$461 80	
Certificates of marriage intentions,—			
1226 licenses and 2 duplicates at \$1.00 . . . . .		1,228 00	
Furnishing copies of records . . . . .		261 60	
Licenses:—			
Auctioneers, 25 licenses at \$2.00 . . . . .		\$50 00	
1 license granted in 1918 . . . . .		2 00	
			52 00

Billiard and pool tables and bowling alleys:—		
34 licenses for 100 ta- bles and 94 alleys at \$2.00 . . . . .	\$388 00	
1 license for 6 tables granted in 1918 . . . . .	12 00	
	<hr/>	\$400 00
Drain layers, 4 licenses at \$1.00 . . . . .		4 00
Engines and motors,—		
25 licenses for 31 motors and 4 sta- tionary engines at \$1.00 . . . . .		25 00
Garages,—		
286 licenses, including 1 paid in 1918, at \$2.00 . . . . .		570 00
1 license granted in 1917 and 4 in 1918, 5 at \$2.00 . . . . .	10 00	580 00
Gasoline tanks,—26 li- censes at \$1.00 . . . . .	\$26 00	
2 licenses granted in 1918 . . . . .	2 00	
	<hr/>	28 00
Hackney carriages, — 4 licenses at \$1.00		4 00
Innholders and common victuallers,—		
51 licenses for 49 victuallers and 2 innholders at \$2.00 . . . . .		102 00
Intelligence offices, — 2 licenses at \$2.00		4 00
Junk and second hand licenses,—		
23 licenses at \$25.00 . . . . .	\$575 00	
3 licenses granted in 1918 . . . . .	75 00	
32 licenses at \$10.00 . . . . .	320 00	
3 licenses granted in 1918 . . . . .	30 00	
	<hr/>	1,000 00
Lord's day, sale of ice cream, confec- tionery, soda water and fruit, on, —		
107 licenses at \$5.00 . . . . .		535 00
Private detectives, — 3 licenses at \$10.00		30 00
Second hand motor vehicles, —		
42 licenses at \$10.00 . . . . .		420 00
Slaughtering,—7 licenses at \$1.00 . . . . .		7 00
Street musicians,—5 licenses for 5 persons at \$ .50 . . . . .		2 50
To play gasoline power organ in streets,—1 at \$1.00 . . . . .		1 00
Wagons,—49 licenses for 73 wagons at \$1.00 . . . . .		73 00
Wagon stands,—4 licenses at \$1.00 . . . . .		4 00
Permits for projections over sidewalks,—		
24 permits for 1 mar- quee, 16 signs and 7		

awnings at \$1.00 . . . . .	\$24 00	
5 permits for signs granted in 1918 . . . . .	5 00	\$29 00
Filing certificates, under Acts of 1908, Chap. 502,—2 at \$ .50 . . . . .		1 00
Interest on deposits . . . . .		11 73
Notices of hearings (public service corporations) . . . . .		7 10
Chiropodists' registration,—3 at \$ .50 . . . . .		1 50
Physicians' registration,—5 at \$ .25 . . . . .		1 25
Repairing and sale of junk badges . . . . .		3 30
Witness fees . . . . .		2 85
		<hr/>
		\$5,280 63
Total receipts . . . . .		<hr/>
		\$8,163 73

### Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1918 to November 30, 1919, both inclusive:—		
751 males at \$2.00 . . . . .	\$1,502 00	
168 females at \$5.00 . . . . .	840 00	
90 spayed at \$2.00 . . . . .	180 00	
1 kennel at \$25.00 . . . . .	25 00	
	<hr/>	
	\$2,547 00	
Less city clerk's fees, 1010 at \$ .20 . . . . .	202 00	
	<hr/>	
		\$2,345 00
To the Commissioners on Fisheries and Game, for licenses for hunting and fishing in 1919,—		
295 resident hunters at \$1.00 . . . . .	\$295 00	
1 unnaturalized foreign born at \$15.00 . . . . .	15 00	
21 resident fishermen at \$ .50 . . . . .	10 50	
	<hr/>	
	\$320 50	
Less city clerk's fees, Oct. 10 to Dec. 31, 1919, inclusive, — 151 at \$ .15 . . . . .	22 65	
	<hr/>	
		297 85
To the city treasurer, monthly:—		
City clerk's fees for issuing and recording dog licenses, 1010 at \$ .20 . . . . .	202 00	
City clerk's fees for issuing and recording fishing and hunting licenses, 151 at \$ .15 . . . . .	22 65	
All the receipts above specified, except for dog licenses and fishing and hunting licenses . . . . .	5,280 63	
	<hr/>	
		5,505 28
Total payments . . . . .		<hr/>
		\$8,148 13

Balance, January 1, 1920, being for dog licenses issued in December, 1919:—		
5 males at \$2.00 . . . . .	\$10 00	
1 female at \$5.00 . . . . .	5 00	
1 spayed at \$2.00 . . . . .	2 00	
	<hr/>	\$17 00
Less city clerk's fees paid to the city treasurer, 7 at \$ .20 . . . . .		1 40
		<hr/>
		\$15.60

#### 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 . . . . .	7
Newsboys . . . . .	12
To keep lodging houses, under Chap. 259, Acts of 1918 . . . . .	44
To hold open air meetings . . . . .	2
To parade in streets, with music, etc. . . . .	3
To hold religious services in streets and squares . . . . .	4
To sing Christmas carols in streets . . . . .	1
To suspend banner across square . . . . .	1
To give band concerts (two permits for seven concerts) . . . . .	2
To move buildings through streets . . . . .	2

#### Births. 1919.

Number of births reported by physicians and midwives for 1919.

Males . . . . .	920
Females . . . . .	917

A canvass of the city is at present being made under the direction of the city clerk as required by section 5, chapter 29, of the Revised Laws, to ascertain the facts required for record relative to children born during the year.

As the information derived from such canvass will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1919 will be given in the city clerk's report for the year 1920.

#### 1918.

The following is a statement in full of the births of 1918.

Number of births (exclusive of still births) in Somerville in 1918 registered . . . . .	1,981
Less than previous year . . . . .	56
Males . . . . .	991
Females . . . . .	990
	<hr/>
	1,981



Born of American parents . . . . .	820	
Born of foreign parents . . . . .	772	
Born of American father and foreign mother . . . . .	172	
Born of foreign father and American mother . . . . .	204	
Born of American mother and father of unknown nationality . . . . .	11	
Born of foreign mother and father of unknown nationality . . . . .	2	
	<hr/>	1,981
Number of still-births in Somerville in 1918 as registered . . . . .		74
Number of births in other places in 1918 registered . . . . .		617
		<hr/>
		2,672
Number of cases of twins . . . . .		25

## Marriages.

Number of intention certificates issued in 1919 . . . . .		1,226
More than previous year . . . . .		279
Marriages registered . . . . .		1,227
More than previous year . . . . .		253
Both parties American . . . . .	779	
Both parties foreign . . . . .	192	
American groom and foreign bride . . . . .	129	
Foreign groom and American bride . . . . .	127	
	<hr/>	1,227 couples
First marriage of . . . . .	2,161	
Second marriage of . . . . .	272	
Third marriage of . . . . .	21	
	<hr/>	1,227 couples

## Deaths.

(Exclusive of still-births.)

Number of deaths in Somerville in 1919 . . . . .		1,074
Less than previous year . . . . .		459
Males . . . . .	502	
Females . . . . .	572	
	<hr/>	1,074
Under ten years of age . . . . .	186	
10 and under 20 years of age . . . . .	35	
20 and under 30 years of age . . . . .	72	
30 and under 40 years of age . . . . .	71	
40 and under 50 years of age . . . . .	83	
50 and under 60 years of age . . . . .	122	
60 and under 70 years of age . . . . .	187	
70 and under 80 years of age . . . . .	206	
80 and under 90 years of age . . . . .	99	
90 years of age and over . . . . .	13	
	<hr/>	1,074
Age of oldest person deceased . . . . . 98 years		
Born in Somerville . . . . .	189	
Born in other places in the United States . . . . .	519	
Of foreign birth . . . . .	363	
Birthplace unknown . . . . .	3	
	<hr/>	1,074

Number of deaths in January . . . . .	166
Number of deaths in February . . . . .	125
Number of deaths in March . . . . .	108
Number of deaths in April . . . . .	84
Number of deaths in May . . . . .	90
Number of deaths in June . . . . .	73
Number of deaths in July . . . . .	63
Number of deaths in August . . . . .	61
Number of deaths in September . . . . .	55
Number of deaths in October . . . . .	71
Number of deaths in November . . . . .	85
Number of deaths in December . . . . .	93
	1,074

The number of still-births during the year was fifty-four. In addition to the above 254 deaths which occurred elsewhere 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, 1919	REGISTERED VOTERS.							
			Nov. 20, 1918	Re- vised Lists of July 15, 1919	Add- ed in Sept. & Oct. 1919	Oct. 15, 1919	Add- ed in Nov. 1919	Dec. 3, 1919	Voted Nov. 4, 1919	Voted Dec. 23, 1919
Ward 1.....	Precinct 1.....	1,449	673	599	107	706	44	750	583	430
" 1.....	" 2.....	1,044	448	397	78	475	77	552	394	325
" 1.....	" 3.....	519	250	231	32	263	16	279	203	159
" 1.....	" 4.....	663	223	191	25	216	8	224	191	172
		3,675	1,594	1,418	242	1,660	145	1,805	1,371	1,086
Ward 2.....	Precinct 1.....	1,032	388	342	30	372	12	384	292	243
" 2.....	" 2.....	1,784	759	682	107	789	17	806	621	328
" 2.....	" 3.....	742	351	321	49	370	7	377	278	170
		3,558	1,498	1,345	186	1,531	36	1,567	1,191	741
Ward 3.....	Precinct 1.....	1,389	799	775	118	893	14	907	743	248
" 3.....	" 2.....	1,242	711	652	86	738	11	749	624	249
		2,631	1,510	1,427	204	1,631	25	1,656	1,367	497
Ward 4.....	Precinct 1.....	1,404	658	623	119	742	36	778	618	217
" 4.....	" 2.....	1,349	609	539	128	667	45	712	561	179
		2,753	1,267	1,162	247	1,409	81	1,490	1,179	396
Ward 5.....	Precinct 1.....	1,420	755	687	109	796	22	818	686	227
" 5.....	" 2.....	1,112	639	594	70	664	24	688	550	221
" 5.....	" 3.....	1,007	551	499	94	593	7	600	485	198
		3,539	1,945	1,780	273	2,053	53	2,106	1,721	646
Ward 6.....	Precinct 1.....	1,966	890	833	154	987	18	1005	807	416
" 6.....	" 2.....	1,516	775	694	112	806	14	820	680	309
" 6.....	" 3.....	1,280	748	687	98	785	20	805	671	305
		4,762	2,413	2,214	364	2,578	52	2,630	2,158	1,030
Ward 7.....	Precinct 1.....	1,095	704	677	84	761	12	773	673	194
" 7.....	" 2.....	1,294	702	633	107	740	2	742	644	214
" 7.....	" 3.....	1,522	818	750	128	878	14	892	736	242
" 7.....	" 4.....	1,088	607	580	87	667	13	680	577	203
" 7.....	" 5.....	827	419	374	85	459	10	469	392	86
		5,826	3,250	3,014	491	3,505	51	3,556	3,022	939
City .....		26,744	13,477	12,360	2,007	14,367	443	14,810	12,009	5,335

## Women's Voting Lists.

WARD.	PRECINCT.	Nov. 20, 1918	Revised Lists of July 15, 1919	Added in Sept. Oct. and Nov. 1919	Dec. 3, 1919	Voted Dec. 23, 1919
Ward 1.....	Precinct 1.....	52	45	8	53	33
" 1.....	" 2.....	32	31	4	35	17
" 1.....	" 3.....	18	18	13	31	22
" 1.....	" 4.....	36	31	15	46	40
		138	125	40	165	112
Ward 2.....	Precinct 1.....	5	5		5	
" 2.....	" 2.....	11	11		11	
" 2.....	" 3.....	6	5		5	
		22	21		21	
Ward 3.....	Precinct 1.....	123	112	7	119	4
" 3.....	" 2.....	113	107	4	111	4
		236	219	11	230	8
Ward 4.....	Precinct 1.....	50	49	4	53	3
" 4.....	" 2.....	90	87	1	88	2
		140	136	5	141	5
Ward 5.....	Precinct 1.....	178	159	22	181	8
" 5.....	" 2.....	129	120	3	123	9
" 5.....	" 3.....	173	127	33	160	
		480	406	58	464	17
Ward 6.....	Precinct 1.....	211	207	16	223	16
" 6.....	" 2.....	66	61	2	63	1
" 6.....	" 3.....	68	55	10	65	5
		345	323	28	351	22
Ward 7.....	Precinct 1.....	37	31	18	49	11
" 7.....	" 2.....	74	64	6	70	6
" 7.....	" 3.....	39	32	30	62	8
" 7.....	" 4.....	14	13	30	43	8
" 7.....	" 5.....	16	15	15	30	10
		180	155	99	254	43
City .....		1,541	1,385	241	1,626	207

## 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 4, 1919.

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
<b>GOVERNOR.</b>									
Calvin Coolidge	Republican	684	300	883	828	1083	1,437	2,381	7,596
Charles B. Ernst	Prohibition	5	1	2	3	3	8	6	28
William A. King	Socialist	6	7	7	7	6	30	16	79
Richard H. Long	Democratic	650	869	466	324	614	644	584	4,151
Ingvar Paulsen	Socialist Labor	5	2	5	3	5	6	9	35
Blank		21	12	4	14	10	33	26	120
<b>LIEUTENANT GOVERNOR.</b>									
Charles J. Brandt	Socialist	16	12	12	12	19	39	30	140
Channing H. Cox	Republican	690	279	856	828	1059	1,417	2,340	7,469
H. Edward Gordon	Prohibition	16	2	3	4	9	10	23	67
John F. J. Herbert	Democratic	599	845	468	298	596	625	577	4,008
Patrick Mulligan	Socialist Labor	4	10	8	9	8	14	14	67
Blank		46	43	20	28	30	53	38	258
<b>SECRETARY.</b>									
Harry W. Bowman	Prohibition	26	10	25	26	31	34	53	205
James Hayes	Socialist Labor	13	11	6	10	8	18	22	88
Albert P. Langtry	Republican	669	270	848	831	1083	1,448	2,400	7,549
Charles H. McGlue	Democratic	542	779	417	238	510	516	412	3,414
Herbert H. Thompson	Socialist	33	15	14	10	25	35	43	175
Blank		88	106	57	64	64	107	92	578
<b>TREASURER.</b>									
Fred J. Burrell	Republican	689	284	736	743	947	1,350	2,104	6,853
David Craig	Socialist Labor	13	13	7	7	12	17	19	88
Charles D. Fletcher	Prohibition	30	21	22	24	39	32	68	236
Louis Marcus	Socialist	120	13	8	9	17	30	28	125
Chandler M. Wood	Democratic	531	746	535	351	637	638	708	4,146
Blank		88	114	59	45	69	91	95	561
<b>AUDITOR.</b>									
Arthur J. B. Cartier	Democratic	485	766	431	241	521	539	454	3,437
Alonzo B. Cook	Republican	718	270	827	843	1064	1,425	2,362	7,509
Oscar Kinsalas	Socialist Labor	12	8	7	6	10	9	16	68
Walter P. J. Skahan	Socialist	20	11	6	9	17	30	33	126
Henry J. D. Small	Prohibition	16	8	12	13	18	16	33	116
Blank		120	128	84	67	91	139	124	753
<b>ATTORNEY GENERAL</b>									
J. Weston Allen	Republican	670	257	838	811	1058	1,430	2,349	7,413
Morris I. Becker	Socialist Labor	12	13	8	5	9	14	18	79
Joseph A. Conry	Democratic	532	784	429	253	526	552	449	3,525
Conrad W. Crooker	Prohibition								
	Independent								
	Progressive	42	24	34	39	45	49	87	320
William R. Henry	Socialist	23	9	8	12	17	26	28	123
Blank		92	104	50	59	66	87	91	549

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
<b>COUNCILLOR, FOURTH DISTRICT</b>									
George B. Wason	Republican	822	367	911	889	1,182	1,538	2,476	8,185
William V. Baro						1			1
Blank		549	824	456	290	538	620	546	3,823
<b>SENATOR, THIRD MIDDLESEX DISTRICT</b>									
Arthur D. Healey	Democratic	563	836	555	288	624	784	794	4,444
Joseph O. Knox	Republican	725	274	767	841	1,034	1,275	2,090	7,006
Blank		83	81	45	50	63	99	138	559
<b>REPRESENTATIVES, 23RD DISTRICT (3)</b>									
Charles M. Austin	Republican	731		842	815	1,044			3,432
William Fleming	Republican	792		821	812	1,079			3,504
Harvey E. Frost	Republican	719		816	783	1,002			3,320
David J. Kelly	Democratic	602		494	313	700			2,109
Charles L. Underhill				1					1
John M. Webster				1					1
Charles L. Underhill				1					1
Joseph F. Leahy					1				1
Blank		1,269		1,125	813	1,338			4,545
<b>REPRESENTATIVES, 24TH DISTRICT (3)</b>									
Warren C. Daggett	Republican		315				1,317	2,159	3,791
Frank Lewis Hope	Democratic		651				479	465	1,595
Wilbur F. Lewis	Republican		254				1,299	2,263	3,816
Joseph Linhares	Democratic		650				535	478	1,663
Robert R. Moody	Democratic		662				473	479	1,614
Arthur W. Robinson	Republican		225				1,311	2,107	3,643
Blank			816				1,060	1,115	2,991
<b>COUNTY COMMISSIONER, MIDDLESEX COUNTY</b>									
Erson B. Barlow	Republican	696	254	816	824	1,061	1,410	2,288	7,349
Charles J. Barton	Democratic	528	748	444	253	542	533	503	3,551
Blank		147	189	107	102	118	215	231	1,109
<b>ASST. COUNTY COMMISSIONER, MIDDLESEX COUNTY</b>									
Frederic P. Barnes	Republican	805	381	900	869	1,142	1,500	2,376	7,973
H. Harding Hale	Republican	651	301	718	687	975	1,230	1,944	6,506
Blank		1,286	1,700	1,116	802	1,325	1,586	1,724	9,539

CANDIDATE.	PARTY	WARDS,							Total.
		1	2	3	4	5	6	7	
<b>DISTRICT ATTORNEY.</b>									
William E. Russell	Democratic	533	771	473	282	550	615	560	3,784
Nathan A. Tufts	Republican	753	322	835	840	1091	1442	2360	7,643
Blank		85	98	59	57	80	101	102	582
"SHALL THE REARRANGEMENT OF THE CONSTITUTION OF THE COMMONWEALTH, SUBMITTED BY THE CONSTITUTIONAL CONVENTION, BE APPROVED AND RATIFIED?"									
Number of "YES" votes		756	604	787	675	993	1257	1856	6,928
Number of "NO" votes		153	127	161	141	229	289	358	1,458
Blank		462	460	419	363	499	612	808	3,623
SHALL AN ACT PASSED BY THE GENERAL COURT IN THE YEAR NINETEEN HUNDRED AND NINETEEN, ENTITLED "AN ACT RELATIVE TO THE ESTABLISHMENT AND MAINTENANCE OF CONTINUATION SCHOOLS AND COURSES OF INSTRUCTION FOR EMPLOYED MINORS," BE ACCEPTED?									
Number of "YES" votes		865	711	850	768	1119	1420	2069	7,802
Number of "NO" votes		145	120	172	131	211	261	312	1,352
Blank		361	360	345	280	391	477	641	2,855
SHALL CHAPTER 116, GENERAL ACTS OF 1919, APPROVED BY THE GENERAL COURT WITHOUT DIVISION, WHICH PROVIDES THAT DEPOSITS IN SAVINGS BANKS AND SAVINGS DEPARTMENTS OF TRUST COMPANIES MAY BE PLACED ON INTEREST ONCE A MONTH AND NOT OFTENER; THAT DIVIDENDS ON SUCH DEPOSITS MAY BE DECLARED SEMI-ANNUALLY AND NOT OFTENER, AND THAT INTEREST SHALL NOT BE PAID ON ANY SUCH DEPOSITS WITHDRAWN BETWEEN DIVIDEND DAYS, BE APPROVED?									
Number of "YES" votes		663	547	685	571	854	1132	1501	5,953
Number of "NO" votes		348	282	354	326	502	545	935	3,292
Blank		360	362	328	282	365	481	586	2,764
"SHALL AN ACT PASSED BY THE GENERAL COURT IN THE YEAR NINETEEN HUNDRED AND NINETEEN, ENTITLED 'AN ACT TO PROVIDE FOR BIENNIAL ELECTIONS IN THE CITY OF SOMERVILLE,' BE ACCEPTED?"									
Number of "YES" votes		679	541	729	638	945	1213	1715	6,460
Number of "NO" votes		282	256	324	255	388	461	642	2,618
Blank		410	384	314	286	388	484	665	2,931

	WARDS.							Total.
	1	2	3	4	5	6	7	
<p>“SHALL AN ACT PASSED IN THE YEAR NINETEEN HUNDRED AND NINETEEN, TO PROVIDE FOR THE DIVISION INTO DAY AND NIGHT FORCES OF PERMANENT MEMBERS OF FIRE DEPARTMENTS, KNOWN AS THE TWO PLATOON SYSTEM BE ACCEPTED?”</p>								
Number of “YES” votes	896	879	735	602	926	1,122	1,591	6,751
Number of “NO” votes	332	194	512	444	647	818	1,165	4,112
Blank	143	118	120	133	148	218	266	1,146
<p>“SHALL THE REPRESENTATIVES FROM THIS DISTRICT BE INSTRUCTED TO VOTE FOR LEGISLATION TO REGULATE AND LICENSE THE MANUFACTURE AND SALE OF BEVERAGES CONTAINING NOT OVER FOUR PER CENT OF ALCOHOL BY WEIGHT AND TO DEFINE SAME TO BE NON-INTOXICATING?”</p>								
Number of “YES” votes	853	.....	873	646	950	.....	.....	3,222
Number of “NO” votes	355	.....	438	407	589	.....	.....	1,789
Blank	163	.....	156	126	182	.....	.....	627



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 question of granting licenses for the sale of intoxicating liquors in this city, at the city election held December 23, 1919:—

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
MAYOR									
Charles W. Eldridge	Republican	708	291	405	358	553	835	845	3,995
John A. Kyte	Democratic	312	354	65	28	77	143	65	1,044
Blank		66	96	27	10	16	52	29	296
ALDERMAN-AT-LARGE, WARD 1.									
James J. Shay	Republican	723	216	347	334	479	733	743	3,575
Blank		363	525	150	62	167	297	196	1,760
ALDERMAN-AT-LARGE, WARD 2.									
Robert C. Harris	Republican	552	320	223	266	384	611	605	2,961
William E. Musgrave	Independent	194	315	231	88	166	256	228	1,478
Blank		340	106	43	42	96	163	106	896
ALDERMAN-AT-LARGE, WARD 3.									
George A. Berry	Republican	579	213	386	328	493	735	760	3,494
Blank		507	528	111	68	153	295	179	1,841
ALDERMAN-AT-LARGE, WARD 4.									
Richard L. Rice	Republican	552	202	352	364	493	716	752	3,431
Blank		534	539	145	32	153	314	187	1,904
ALDERMAN-AT-LARGE, WARD 5.									
William J. Bell	Republican	554	203	357	337	548	717	736	3,452
Blank		532	538	140	59	98	313	203	1,883
ALDERMAN-AT-LARGE, WARD 6.									
Enoch B. Robertson	Republican	549	207	361	327	488	789	757	3,478
Blank		537	534	136	69	158	241	182	1,857
ALDERMAN-AT-LARGE, WARD 7.									
Hiram N. Dearborn	Republican	550	192	355	325	480	719	806	3,427
Blank		536	549	142	71	166	311	133	1,908

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
WARD ALDERMAN (2) WARD 1.									
William F. Burns	Democratic	513							513
James J. Corbett	Democratic	450							450
Lyman A. Hodgdon	Republican	455							455
Peter J. Kelly	Independent	120							120
John Lingard	Republican	421							421
Blank		213							213
WARD ALDERMAN (2) WARD 2.									
Peter F. Donnelly	Independent		400						400
Joseph A. Haley	Democratic		401						401
Alfred J. Toomey	Democratic		354						354
Blank			327						327
WARD ALDERMAN (2) WARD 3.									
William C. Abbott	Republican			370					370
Charles E. Nichols, Jr.	Republican			343					343
John M. Nangle				1					1
Blank				280					280
WARD ALDERMAN (2) WARD 4.									
Waldo D. Phelps	Republican				345				345
John S. Smith, Jr.	Republican				332				332
Blank					115				115
WARD ALDERMAN (2) WARD 5.									
Fred Allen	Republican					480			480
Patrick H. Ryan	Democratic					152			152
Francis W. K. Smith	Republican					461			461
Blank						199			199
WARD ALDERMAN (2) WARD 6.									
Almon F. Heald	Republican						585		585
John E. Locatelli	Republican						586		586
Harry J. Norton	Independent						528		528
Blank							361		361
WARD ALDERMAN (2) WARD 7.									
Emerson J. Coldwell	Republican							790	790
Arthur F. Mason	Republican							780	780
Blank								308	308
SCHOOL COMMITTEE, WARD 1.									
Winnifred P. Davis	Republican	522							522
Francis J. Fitzpatrick	Democratic	610							610
William T. McCarthy	Democratic	622							622
James Joseph Rudd	Republican	469							469
Blank		173							173

CANDIDATE.	PARTY.	WARDS.							Total
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE, WARD 2.									
Daniel H. Bradley	Democratic		518						518
Christopher Muldoon, Jr.	Democratic		474						474
Blank			490						490
SCHOOL COMMITTEE, WARD 3.									
Charles W. Boyer	Republican			353					353
Oscar W. Codding	Republican			360					360
Blank				297					297
SCHOOL COMMITTEE, WARD 4.									
Frank M. Hawes	Republican				338				338
Edward I. Tripp	Republican				333				333
Blank					131				131
SCHOOL COMMITTEE, WARD 5.									
Harry M. Stoodley	Republican					521			521
Minnie S. Turner	Republican					495			495
Blank						310			310
SCHOOL COMMITTEE, WARD 6.									
Walter I. Chapman	Republican						778		778
William M. Morrison	Republican						776		776
Blank							550		550
SCHOOL COMMITTEE, WARD 7.									
Herbert Cholerton	Republican							809	809
Paul O. Curtis	Republican							773	773
Frank E. Porter								1	1
Blank								381	381
SHALL LICENSES BE GRANTED FOR THE SALE OF INTOXICAT- ING LIQUORS IN THIS CITY?									
Number of "YES" votes		645	561	254	151	310	506	350	2,777
Number of "NO" votes		371	101	228	130	326	476	565	2,297
Blank		70	79	15	15	10	48	24	261

## 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
1918	690	1,935	161	13,477	90,500
1919	2,777	2,297	261	14,810	91,000

\*Census.

## ORDINANCES.

Somerville, January 1, 1920.

The following ordinances have been adopted since the printing of the annual reports for the year 1918:—

**Ordinance No. 88****An Ordinance Relative to the Police Department.**

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. The permanent members and patrol drivers of the police department shall be excused from duty for one day out of every eight days without loss of pay. The time and the manner of excusing them from duty shall be determined by the chief of police. Allowances otherwise provided for of time off for vacation, injury, sickness or other cause, shall not be affected by the provisions of this ordinance. A member so excused shall be exempt from duty and from attendance at a police station or other place, but otherwise shall be subject to all laws, rules and regulations relating to members of the department.

Section 2. The chief of police shall have authority, whenever in his judgment public emergency or any unusual demand for the services of the police requires, to prevent any such member or driver from taking the day off herein provided for at the time when he is entitled thereto or at the time assigned therefor, provided, however, that such day off shall be granted him as soon thereafter as is practicable in the judgment of the chief of police. In no case shall the number of such days off be less than forty-five in each entire calendar year.

Section 3. This ordinance shall take effect October 1, 1919.

*Approved July 11, 1919.*

**Ordinance No. 89****An Ordinance Fixing License Fee for Purchase and Sale of Second-Hand Motor Vehicles and Parts Thereof.**

*Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—*

Section 1. The fee for each class of license provided for by Chapter 259 of the General Acts of the Legislature of Massachusetts for the Year 1919 entitled "An Act to Regulate the Purchase and Sale of Second-Hand Motor Vehicles and Parts Thereof" is hereby fixed at the sum of ten dollars.

Section 2. This ordinance shall take effect upon its passage.

*Approved September 26, 1919.*

**Ordinance No. 90****An Ordinance Amending 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, six lieutenants (two of whom shall be inspectors), six 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 December 15, 1919.*

FREDERIC W. COOK,  
*City Clerk.*

## CITY GOVERNMENT AND OFFICERS FOR 1919.

### Mayor.

CHARLES W. ELDRIDGE, 47 Highland Road.

### Board of Aldermen.

*President*, ENOCH B. ROBERTSON.

*Vice-President*, CHARLES H. MANZER.

#### WARD ONE.

Justin P. Nowell, Alderman-at-large . . . . .	1 Webster street
Ralph H. Hosmer . . . . .	51 Mt. Vernon street
James J. Shay . . . . .	68 Mt. Pleasant court

#### WARD TWO.

James J. Comfort, Alderman-at-large . . . . .	9 Hammond street
Peter F. Donnelly . . . . .	11 Allen street
Robert C. Harris . . . . .	12 Dimick street

#### WARD THREE.

John M. Webster, Alderman-at-large . . . . .	76 Boston street
William C. Abbott . . . . .	73 Avon street
George A. Berry . . . . .	60 Prescott street

#### WARD FOUR.

Charles H. Manzer, Alderman-at-large . . . . .	60 Fellsway West
Richard L. Rice . . . . .	296½ Broadway
Walter H. Snow . . . . .	42 Derby street

#### WARD FIVE.

William J. Bell, Alderman-at-large . . . . .	380 Medford street
Fred Allen . . . . .	121 Central street
Alfred M. Pride . . . . .	150 Hudson street

#### WARD SIX.

Enoch B. Robertson, Alderman-at-large . . . . .	87 Highland road
Almon F. Heald . . . . .	83 Belmont street
John E. Locatelli . . . . .	78 Belmont street

#### WARD SEVEN.

Eugene M. Carman, Alderman-at-large . . . . .	102 College avenue
Hiram N. Dearborn . . . . .	22 Lovell street
Wilbur F. Lewis . . . . .	51 Foskett street

*City Clerk* — Frederic W. Cook.

*Assistant City Clerk* — Jason M. Carson.

*City Messenger* — Fred E. Hanley.

### Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS — Aldermen Shay, Carman, Comfort, Webster and Allen.

FINANCE — The President, Aldermen Rice, Dearborn, Donnelly, Hosmer, Berry and Bell.

LEGISLATIVE MATTERS — Aldermen Manzer, Webster, Bell, Comfort, and Nowell.

LICENSES AND PERMITS — Aldermen Harris, Dearborn, Rice, Heald, Shay, Abbott and Pride.

PUBLIC PROPERTY — Aldermen Bell, Lewis, Locatelli, Nowell and Snow.

PUBLIC SAFETY — Aldermen Carman, Manzer, Donnelly, Shay and Heald.

PUBLIC SERVICE — Aldermen Dearborn, Pride, Hosmer, Locatelli, Harris, Berry and Snow.

PUBLIC WORKS — Aldermen Lewis, Manzer, Locatelli, Harris, Hosmer, Allen and Abbott.

### School Committee.

*Chairman* — HERBERT CHOLERTON.

*Vice-Chairman* — DANIEL H. BRADLEY.

CHARLES W. ELDRIDGE, Mayor (ex-officio), 47 Highland Road.  
 ENOCH B. ROBERTSON, President Board of Aldermen (ex-officio), 87 Highland Road.

#### WARD ONE.

WINNIFRED P. DAVIS (elected 1918), 125 Pearl street.  
 JAMES J. RUDD (elected 1917), 46 Franklin street.

#### WARD TWO.

DANIEL H. BRADLEY (elected 1917), 19 Concord avenue.  
 CHRISTOPHER J. MULDOON, JR., (elected 1918), 88 Concord avenue.

#### WARD THREE.

OSCAR W. CODDING (elected 1918), 21 Pleasant avenue.  
 ALFRED L. WEST (elected 1917), 69 Avon street.

#### WARD FOUR.

FRANK H. HOLMES (elected 1918), 22 Walter street.  
 EDGAR F. SEWALL (elected 1918, to fill vacancy), 281 Broadway.

#### WARD FIVE.

BLANCHE E. HERBERT (elected 1918; resigned October 27 1919), 56 Dartmouth street.  
 HARRY M. STOODLEY (elected 1917), 283 Highland avenue.

#### WARD SIX.

PAUL S. BURNS (elected 1918, to fill vacancy), 191 Summer street.  
 WILLIAM M. MORRISON (elected 1918), 97 Rogers avenue.

#### WARD SEVEN.

HERBERT CHOLERTON (elected 1918), 94 College avenue.  
 FRANK E. PORTER (elected 1917), 43 Ossipee road.

*Superintendent and Secretary* — CHARLES S. CLARK.



**Assessors.**

FRED E. WARREN, Chairman (term expires 1920).  
 WINSOR L. SNOW (term expires 1921).  
 HARRY VAN IDERSTINE (term expires 1920).  
 J. ROBERT FENELON (term expires 1919).  
 DAVID B. ARMSTRONG (term expires 1921).

**Assistant Assessors.**

FRED B. CLAPP.	JOHN M. NANGLE.
JOHN S. MCGOWAN.	LEONARD C. SPINNEY.
LAWRENCE J. WARD.	SAMUEL C. WISWALL.

**Board of Health.**

ROBERT M. LAVENDER, Chairman (term expires 1920).  
 WARREN C. BLAIR (term expires 1920).  
 JOHN E. GILLIS, M. D., (term expires 1921).  
*Clerk*—LAURENCE S. HOWARD.  
*Agent*—GEORGE I. CANFIELD.  
*Acting Medical Inspector*—RALPH F. HODGDON, M. D.  
*Inspector of Animals and Provisions*—CHARLES M. BERRY.  
*Inspector of Milk and Vinegar*—HERBERT E. BOWMAN.

**Overseers of the Poor.**

FRED E. DURGIN, Chairman (term expires 1920).  
 HENRY F. CURTIS (term expires 1922).  
 MICHAEL COLL (term expires 1921).  
*Agent*—WILLIAM E. COPITHORNE.  
*Warden City Home*—J. FOSTER COLQUHOUN.  
*Matron City Home*—CATHERINE COLQUHOUN.

**Planning Board.**

WILLIAM F. RILEY, Chairman (term expires 1921).  
 DAVID J. KELLEY, Secretary (term expires 1924).  
 HARRISON L. EVANS, (term expires 1920).  
 PAUL R. VALENTINE, (term expires 1922).  
 GEORGE J. RAUH, (term expires 1923).

**Registrars of Voters.**

EDWIN D. SIBLEY, Chairman (term expires 1921).  
 DOUGLASS B. FOSTER (term expires 1920).  
 CHARLES LEO SHEA (term expires 1919).  
 FREDERIC W. COOK, City Clerk.

**Public Library Trustees.**

THOMAS M. DURELL, Chairman (term expires 1922)  
 J. FRANK WELLINGTON (term expires 1920.)  
 FREDERICK W. PARKER (term expires 1921).  
 WILLIAM L. BARBER (term expires 1922).  
 CHARLES L. NOYES (term expires 1920).  
 HERBERT E. BUFFUM (term expires 1920).  
 GILES W. BRYANT (term expires 1921).  
 DAVID H. FULTON (term expires 1921).  
*Librarian and Secretary*—GEORGE H. EVANS.

**Recreation and Playground Commission.**

CHARLES S. CLARK, Chairman (term expires 1921).  
 GEORGE L. DUDLEY, Secretary (term expires 1920).  
 FRANCIS P. GARLAND (term expires 1920).  
 ERNEST W. BAILEY (term expires 1920).  
 JOHN F. COLQUHOUN (term expires 1920).  
 FRANCES M. WEEKS (term expires 1921).  
 ELIZABETH MONGAN (term expires 1921).

**City Clerk.**

FREDERIC W. COOK.  
*Assistant City Clerk*—JASON M. CARSON.

**City Treasurer and Collector of Taxes.**

JOSEPH S. PIKE.

**City Messenger.**

FRED E. HANLEY.

**Mayor's Secretary.**

LEON M. CONWELL.

**City Solicitor.**

FRANK W. KAAAN.

**City Auditor.**

HOWARD E. WEMYSS.

**City Engineer.**

ERNEST W. BAILEY.

**Commissioner of Streets.**

ASA B. PRITCHARD.

**Commissioner of Public Buildings and Inspector of Buildings.**

GEORGE L. DUDLEY.

**Commissioner of Electric Lines and Lights.**

WALTER I. FULLER.

**Water Commissioner.**

FRANK E. MERRILL.

**Superintendent of Sanitary Department.**

EDGAR T. MAYHEW.

**Clerk of Committees.**

RICHARD A. KEYES.

**Chief of Police.**

CHARLES A. KENDALL.

**Chief Engineer of the Fire Department.**

SEWALL M. RICH.

**City Physician.**

C. CLARKE TOWLE, M. D.

**Inspector of Plumbing.**

DUNCAN C. GREENE.

**Inspector of Milk and Vinegar.**

HERBERT E. BOWMAN.

**Inspector of Animals and Provisions.**

CHARLES M. BERRY.

**Inspector of Petroleum.**

SEWALL M. RICH.

**Sealer of Weights and Measures.**

JOHN H. DUSSEAULT.

*Deputy Sealer*—BENJAMIN S. ABBOTT.**Fence Viewers.**CHARLES M. BERRY,  
HOWARD LOWELL,**Agent of Military and State Aid and Soldiers' Relief and Burial Agent.**

JOHN H. DUSSEAULT,

**Constables.**MAURICE F. AHEARN.  
CHARLES M. AUSTIN.  
CHARLES W. F. BENNETT.  
GEORGE H. CARLETON.  
EUGENE A. CARTER.  
WINSLOW W. COFFIN.  
WILLIAM E. COPITHORNE.  
ALBION B. CROCKER.  
WARREN C. DAGGETT.  
THOMAS DAMERY.  
CHARLES L. ELLIS.  
ARTHUR L. GILMAN.FRED E. HANLEY.  
JAMES M. HARMON.  
FRED W. JACKSON.  
HARRY E. JACKSON.  
CHARLES A. KENDALL.  
MICHAEL T. KENNEDY.  
ELBRIDGE G. LAVENDER.  
EDWARD E. MARSH.  
LOUIS A. MORRIS.  
JOHN A. RAY.  
JOHN F. SCANNELL.  
CHARLES E. WOODMAN.

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