



CITY OF SOMERVILLE

MASSACHUSETTS

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1916

With Mayor's Inaugural Address Delivered January 1, 1917



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INAUGURAL ADDRESS

DELIVERED BY

Mayor Zebedee E. Cliff

MONDAY, JANUARY 1, 1917

Gentlemen of the Board of Aldermen:—

We are beginning a new municipal year on New Year's Day, the first time that it has been a legal holiday in Massachusetts. It is my earnest hope that this new year may bring, not only to you and the people of Somerville, but to the whole world, peace, prosperity, happiness, and a return to normal conditions.

The voters approved of the city government of last year. This was shown by the recent election, when a large majority of us were reëlected without opposition. Let us do our best to merit this approval.

The two branches of last year worked in harmony on the many matters before them, and I feel confident that the same will be true of the present year. We have before us, however, much harder problems to solve than have been presented for many years. Prices are abnormal and economy is absolutely necessary. The high cost of living has struck our country and has struck it hard. It is felt everywhere,—in our homes, in our institutions, in our governments. It is being investigated by national and state commissions. You cannot pick up a newspaper without reading of it,—it is so generally talked that many of the newswriters do not bother to write it in full, but refer to it as H. C. L. These initials sound like those of some fraternal organization, but they have a far, far different meaning in every way. Such organizations are limited in membership. To the H. C. L. we all belong. H. C. L.,-High Cost of Living,—we are all elected whether we like it or not. Try as we may to avoid it, we suffer the privations it forces upon us. Everything is high in cost, and the larger the corporation the more need for caution and economy.

Lumber, copper, pipe, cement, and the many other materials and supplies the city uses have increased in cost far above the ordinary. Consider cement alone. The city uses quantities of it in the construction of streets, sidewalks and buildings,—during the past year over 11,000 barrels. In 1915 cement was a dollar a barrel; today it is a dollar and a half; an increase in cost to the city of over \$5,000 in this one item alone. Other materials and supplies have all gone the same way, and if we carry on our city, we must pay the cost.

I cannot at this time see any possibility of a reduced tax rate the present year, and if this high cost of living continues. it must undoubtedly be increased.

The tax rate was reduced last year, but the credit should be given where it belongs,—to the economy in state management.

The legislature last year enacted a new law for the assessment of an income tax, and its effect upon cities and towns cannot be foreseen. It had many opponents, but it is generally regarded as a remedy for many evils in the former method of personal tax assessment. The new income tax will be collected by the state and distributed to the cities and towns. We are assured of having an amount equal to the amount derived in 1915 as income from intangible property, but it is not probable that the amount of personal valuation will show the increase of former years.

Men who have given careful study to this phase of the taxation question are confident that the new law will result in a fairer apportionment of personal taxes, but we have no means of knowing just how this law is going to affect our own city.

A statement of our finances will be printed in full as a part of this address. I will simply say at this time that all our bills are paid and we have a balance in the treasury of \$75,000, and we shall need every cent of this the coming year to help meet increased fixed charges.

Schools.

To my mind, we have been more progressive in educational matters in 1916 than in any other previous year in the history of Somerville. The city has been divided into four

junior high school districts. In the easterly and northerly districts the buildings are already in use and in the westerly the building is under construction. In the southerly, land has been acquired and I should be inclined to recommend the beginning of this fourth unit at the present time were it not for the unreasonable high cost of materials.

It is the ultimate purpose to provide accommodations, in each of the four districts, for all pupils of the seventh and eighth grades in the elementary schools and all first year high school pupils. This will relieve crowded conditions in elementary schools all over the city to such an extent that ample accommodations should be ready for all future needs. I believe that this comprehensive plan of 1916 is one that will prove most satisfactory when it is fully under way, and that future city governments will recognize this and carry it forward from year to year as the needs arise.

An addition to the boys' industrial school is now under construction and a considerable portion of the work is being done by the pupils of the school as part of their industrial training. It is expected that the city will be reimbursed by the commonwealth for a certain amount of the cost of this addition.

We all feel proud of the excellent showing made by our athletic teams under the new management and their success shows the presence of good athletic material in our schools. I do not believe that we have enough physical training for our pupils. It should not be confined almost wholly to those boys who are members of, or are trying to make, the various teams. In some manner the advantage of this training should be extended to all the pupils in our city. I believe that the work of the playgrounds and physical direction of our schools should all be under the same head, as the work of one leads up to the work of the other and the foundation could thus be laid for the proper physical training of our children throughout their entire school life.

Libraries.

Early in December there was installed in the Central Library a beautiful bronze tablet in memory of Sam Walter Foss. It is a particularly fitting tribute to one who did so much for the library's success and it was made possible by use of part of the fund of the late Martha R. Hunt, whose liberality to the library was noteworthy.

The offer of the Carnegie Corporation of New York of \$18,000 for the erection of a branch library in East Somerville has been accepted and land purchased for a site. Plans were prepared and estimates received, but none were sufficiently low. The high cost of materials will necessitate a considerable number of changes in the plans to permit the construction within the amount available.

When the Union Square branch is extended to the additional quarters now available in the building, its service and usefulness will be greatly increased.

Buildings.

During the summer automatic sprinkler systems were installed in three more of the city buildings, the City Home, the Cummings and the Burns schoolhouses. I believe there is nothing we can do that will better assure safety from fire in school buildings not of fireproof construction than to continue the installation of these systems and I recommend a liberal appropriation for this purpose the current year.

New assembly halls, each with a seating capacity of 200, have been constructed in the Brown and Burns schoolhouses, and are greatly appreciated by the principals and the parents of children attending these schools.

Two matters particularly relating to the building department will come before the next General Court and should be carefully considered by your honorable board. One is the bill relating to fire protection in schools and if enacted will necessitate the appropriation of a large amount to enable us to meet its requirements. The other relates to construction, alteration and maintenance of buildings and contemplates the taking from cities and towns control of all local building operations.

Early in the year information was received from the owners of the land which the city was then using for a bathing beach that our occupancy was liable to be terminated at short notice. Being unable to make any agreement with them for permanent occupancy, negotiations were commenced with the Metropolitan Park Commission which resulted in our being granted a location, for a period of ninety-

nine years, on the easterly side of the Fellsway, near the Wellington bridge.

A building is now practically completed with seventy-two dressing-rooms and one hundred and seventy-two lockers. The building is up-to-date in every particular and all modern devices for a building of this kind will be installed. We are thus assured the city will have its own public bathing facilities for many years to come.

Streets.

Our main thoroughfares and public squares have been reconstructed to a considerable extent and new construction work has been confined to these as far as possible. In some cases the work is still uncompleted and not wholly satisfactory, but at the earliest possible date these streets will be put in proper condition. In every instance where the work was by contract, provision has been made to assure the completion of the work in accordance with the terms and specifications, and final payments will not be made until the work is wholly satisfactory in every detail. It is my opinion that the best interests of the city demand that all its main thoroughfares be in good condition and I recommend that during this year all uncompleted portions be completed.

In pursuance of a resolve passed last year a report is to be made to the incoming legislature as to the advisability of constructing a state highway across Somerville, from Broadway park to the Cambridge line at or near Columbia street.

Some agreement should be reached with the City of Cambridge for the construction of a large storm overflow drain at the East Cambridge line, to extend from Somerville avenue, to relieve the flooding of streets and cellars in that section in times of severe storm.

The new Alewife Brook parkway, connecting Powder House boulevard in Somerville with Massachusetts avenue in Cambridge, has been completed and opened for travel and has already relieved traffic congestion. The Metropolitan Park Commission has taken over the care and control of that portion of Powder House boulevard extending from the new parkway northerly to the Medford and Arlington lines, relieving the city of the cost of maintenance.

Sanitary Department.

One of the recommendations in my inaugural address of two years ago, and which I again urged last year, was the taking from the street department the control of the collection of ashes and offal. Early in the year this matter was considered by the Board of Aldermen and the change made by ordinance. This work is now carried on under the supervision of an official who devotes his entire time to the duties of the department, and the change has proven most satisfactory. The ratio of increase in the expense for this year has been thirty-three per cent. less than that of former years.

The superintendent informs me that the dump on Mystic avenue, the only one within the city limits, can be used for only a short time. Some provision should be made in the near future for the disposal of ashes and refuse.

Fire Insurance Rates.

Only a few years ago the fire department was manned by a force of whom sixty per cent. were callmen. Fire apparatus was of the old type and horse-drawn. Building restrictions in regard to tenement houses were lax and no particular requirements were made as to fire-resisting roofs.

Today our fire force is nearly all permanent men and the equipment is up-to-date and over sixty per cent. motor-drawn. Our building ordinances have been revised to require double the space between certain types of buildings, and in all cases, except in minor repairs, non-combustible roofing materials must be used.

The new fireproof building for housing the electrical department has been completed and a system second to none in the country installed. In addition to all this, the strict rules and regulations of the Metropolitan Fire Prevention Commissioner still further safeguard our community.

Notwithstanding all that has been done to lessen the fire danger as I have just stated, and the further extension of high pressure water mains in our most hazardous districts, the insurance underwriters have recently greatly increased our rates.

In the report of the National Board of Fire Underwriters on the city of Somerville, which was issued in June of last year, are a number of recommendations, and every effort is being made to comply therewith that the present rates may be decreased to our former rating. To carry out all the recommendations is an absolute impossibility with the present high costs, but an attempt should be made to do so as far as we are able. I still believe, as I expressed to the board in my first inaugural, in the establishment of fire districts where the danger from fire seems greatest, and I earnestly hope that your honorable board will give this matter serious consideration.

Charities.

I regret that the people of Somerville, who are as a rule so liberal in responding to appeals for help, have not accorded to our oldest and most prominent charitable organization the necessary support to enable it to continue its activities. For over twenty years it has carried on a grand work and it is greatly to be regretted that lack of finances obliges it to curtail its usefulness.

Our Saviour said: "Ye have the poor always with you," and these words of truth are more forcibly impressed upon us today than ever before. In every large city countless men and women are giving their time and money for the relief of the millions of families made destitute by the awful war abroad. Their work is a noble one and deserves our support, but the pitiful needs in foreign lands should not blind us to the wants of those at home. Our sufferings are not so acute nor the demands for relief so great, but our duty of providing for them should not be forgotten.

The city's expense for relief of those outside the City Home has increased the past year over \$6,000 and with the high cost of living there is no prospect of any decrease at present. While the cost of maintenance of all departments has greatly increased during the past ten years, that of the poor department has been greater than in any other, nearly 158 per cent.

Health.

Early in July an epidemic of infantile paralysis brought terror to many of the families in this section of our country, and medical science was unable to combat it. Somerville had forty-eight cases, of which nine were fatal. Acceding to the entreaties of many parents, the school committee postponed opening the schools until the epidemic had to a large degree abated.

Our ordinary cases of contagion, scarlet fever and diphtheria, we are thankful to say, have been much less prevalent than usual. At two different times during the year there have been no such cases in quarantine in the city, except at the contagious hospital, and at one time the hospital had no such cases whatever.

It is a pleasure to commend the valuable service of the veteran agent, Caleb A. Page, who retired last fall after twenty-eight years faithful service in this department.

Department Heads.

The custom has been continued of holding occasional meetings in the mayor's office of all heads of departments. The free discussion, at these meetings, of work contemplated and in progress has, in no slight manner, resulted in a continuation of harmony between the various executive branches of our government and a mutual desire to help one another in their work.

It is a pleasure to commend these various officials for their loyalty to duty.

Somerville Hospital.

This splendid institution continues a credit to its management, and the great good it is doing is recognized more and more each year as its work is known. It is a pleasure to recommend an appropriation for the current year of the same amount of seven thousand dollars as was appropriated last year. I believe the money is wisely expended and that the city receives much more than this amount of service in return for its appropriation.

Patriotism.

When in the year 1861 President Lincoln asked for troops to preserve the Union, Somerville loyally answered that call. Again, in 1898, when President McKinley issued his call, Somerville's loyalty was again evidenced. And when last June President Wilson deemed it necessary to send troops to protect our Mexican border, our boys, with the same loyal devotion to their country's needs, came bravely forward. The mere fact that they were not obliged to battle

with an enemy detracts in no wise from that spirit that in '61 and '98 prompted them to lay down their all for their country, and they deserve all the credit heaped upon them. Many of those who went away left behind them families without means of support and I want again at this time to thank the people of our city for their readiness and willingness in giving these families the relief that was necessary. I visited the boys of Companies M and K in camp at Framingham before their departure and found many of them full of worry about the folks at home. I told them at that time they could be assured that their friends in Somerville would look after them and that they could go away with the certainty that none would be left in want, and my confidence was more than justified by the response to the call for funds. As I have stated before, this was not in any sense a matter of charity but was only furnishing to the families of those who were ready to fight your battles and mine the support and care that were rightfully theirs. As it was not possible under the law to appropriate public funds for this purpose, a committee was formed and donations solicited. The response was liberal, and under the direction of the committee the funds were so wisely disbursed that to my knowledge no soldier's family in our city was in want at any time. A special session of the Legislature authorized the making of appropriations for this purpose, and on the same day the act was signed by the Governor our Board of Aldermen passed an order making a special appropriation so that the work might continue without interruption.

We are particularly thankful that every man returned home safe and sound. Their return was welcomed with a splendid parade and the people turned out in masses to give them an enthusiastic welcome.

I pray that never again may we have the sorrowful duty of sending forth the young manhood of our city to the dangers of war and battle, but if such a time should come upon us we are proud to know that the same spirit of patriotism will be shown.

Intoxicating Liquors.

The voters at the last election emphasized more strongly than ever before their sentiment upon the liquor question. Though the total vote was smaller than usual, the percentage of "No" votes was the largest in our history,—over seventy-nine per cent. of the total cast.

There is no question that the policy of the Board of Aldermen in refusing all sixth class licenses meets with the approval of a great majority of our citizens. I believe extreme care should be used in acting upon all applications for the so-called pony express licenses.

Community Christmas.

Somerville's first Community Christmas, held one week ago, was most successful and the committee having charge of the arrangements well merits the praise and congratulation it received. The exercises around the tree were witnessed by a large number, estimated at nearly 15,000. After the singing of carols by a chorus, the singers divided into groups, singing before hospitals, institutions, and the homes of shut-ins.

The general interest manifested in the affair all over the city shows a community spirit that is most pleasing to all of us. Anything that will break away the barriers of class prejudice and racial difference makes for the good of our city, and it was a particularly fitting time, when all the Christian world was celebrating the birth of Him who knows no such prejudice or difference, for so magnificent a demonstration of good will to all. May this spirit continue, not only at Christmastide, but throughout all time.

Gentlemen of the Board:

In closing, I want, once more, to urge upon you the necessity of bearing in mind the effect upon our finances of present-day costs. We must keep up our various departments, our schools, our departments of public works, our departments of public safety, and all the other branches of our municipal government. It is our duty to see that they are maintained properly and that their standard is not lowered. But it is an absolute necessity that we exercise the strictest economy in our appropriations during these times of high prices and see to it that the city receives its full value for money expended. I regret exceedingly the probability of an increase in the tax rate the present year and shall do all

in my power, as I feel assured you will do, to make the additional burden upon our taxpayers as light as possible.

My office is open to all of you at all times and it will be a pleasure to consult with you upon all matters of city business. We both realize that the powers of the legislative and executive branches are intentionally separated by the charter, but it is very certain that there was no intention in this charter to have the affairs of the city conducted without the co-operation of these branches, and I feel confident that the same hearty spirit of co-operation will prevail throughout the coming year as has existed throughout the one that has closed.

Gentlemen, I wish you a most successful and happy new year.

Financial Statement, December 31, 1916.

FUNDED DEBT.

The total funded debt of the city January 1, 1916, was \$1,650,500. This debt was increased during the year \$291,000. Maturities paid amounted to \$212,500, making the funded debt January 1, 1917, \$1,729,000, an increase of \$78,500.

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T	he debt January 1, 1916, was classifi	ed as follows:—
	City Loan	\$845,500 00
	Municipal Loan	
	Sewer Loan	
	Public Building Loan	
	Highway Loan	
	Lowell Street Bridge Loan	0.1.000.00
;	Total inside limit	\$1,585,500 00
,	Sewer Loan	\$30,000 00
1	Metropolitan Park Assessment Loan	, ,
	Water Loan	04.000.00
	Total outside limit	\$65,000 00
;	Total Funded Debt	\$1,650,500 00
A	ppropriations increasing the debt	were made as fol-
lows:-		
	Sewers Construction	\$18,000 00
	Highways Construction, New Streets	11,000 00
	Amount carried forward	\$29,000 00

Amount brought forward	\$29,000	00
Highways Construction, Permanent Pave-		
ment	93,000	00
Highways Construction, Macadam Pave-	00.000	
ment	32,000	
Sidewalks Construction	14,000	
New School Building, Holland Street .	94,500	
Bell School, Additional Land	3,500	
Boys' Industrial School Addition	10,000	
Land East Somerville Branch Library.	4,500	
Field House, Somerville Field	3,000	
Park Building, Lincoln Park Addition .	2,000	
New Bathhouse, Mystic River	5,500	00
•	\$291,000	00
The debt was reduced by maturities a	s follows	:
City Loan	\$131,500	00
Municipal Loan	10,000	
Sewer Loan	17,000	00
Highway Loan	36,000	00
Public Building Loan	8,000	
Bridge Loan	1,000	
Total inside limit	\$203,500	00
Sewer Loan	\$3,000	00
Metropolitan Park Assessment Loan .	1,000	
Water Loan	5,000	
vvater Boar		
Total outside limit	\$9,000	00
Total reduction	\$212,500	00
The funded debt of the city January 1	, 1917, is	classified
as follows:—		
City Loan	\$714,000	00
Municipal Loan	57,000	
Sewer Loan	293,000	00
Public Building Loan	255,000	
Highway Loan	321,000	
Lowell Street Bridge Loan	33,000	
Total within limit	\$1,673,000	00
Sewer Loan	\$27,000	00
Amount carried forward	\$27,000	00

Amount brought forward	\$27,000 00
Metropolitan Park Assessment Loan .	13,000 00
Water Loan	16,000 00
Total outside limit	56,000 00
Total Funded Debt	\$1,729,000 00
TAXES.	
The total amount of taxable property	as of April 1, 1916.
not including non-resident bank shares, wa	
tax rate was fixed at \$21.40 per \$1,000 val	
-	\$69,972,100 00
Personal Estate	9,267,600 00
Resident Bank Shares	64,629 00
Total valuation	\$79,304,329 00
A.	
	\$1,697,112 64
Polls, 25,077 at \$2	50,154 00
	\$1,747,266 64
Special Assessments:—	
Street Sprinkling	\$ 36,282 85
Moth	1,991 50
!	\$38,274 35
	\$1,785,540 99
Non-resident Bank Shares at \$21.40	. 2,190 74
Trade 1 down forms	¢1 707 791 79
Total tax levy	\$1,787,7 31 73
Appropriations, classified under gener	ral headings, were
made from revenue, as follows:-	
General Government	\$88,119 00
Protection of Persons and Property	258,800 00
Health and Sanitation	186,205 00
Highways	152,900 00
Charities	72,300 00
Soldiers' Benefits	38,750 00
Education	487,790 00
Libraries	45,075 00
Recreation	19,315 00
Unclassified	40,225 00
Amount corried forward	\$1 200 470 00
Amount carried forward	\$1,389,479 00

Amount brought forward	. \$1,389,479 00
Municipal Indebtedness	000 155 00
	186,640 00
	\$1,878,594 22
Less estimated revenue	495,011 40
acco commerca revenue	
Amount raised by taxation for city purpose	es \$1,383,582 82
State and County Taxes, Metropolitan	and Other Assess-
ments, etc.:—	
State Tax	\$127,3 60 00
State Highway Tax	790 00
Metropolitan Sewer Tax	67,511 00
Metropolitan Park Tax	40,259 07
Wellington Bridge Tax	1,292 32
Special Wellington Bridge Tax	1,795 17
Grade Crossing Tax	
Charles River Basin Tax	
A 1 1 7 TO 1 FTS	•
	1,255 23
Gas and Electric Light Commission	
Auditing Municipal Accounts	
Fire Prevention Tax	
County Tax	
Overlay	18,270 37
	\$ 363,683 82
Collected for State on Non-resident Bank	
Shares	2,190 74
Suares	2,100 14
Total	\$365,874 56
It may be of interest to show the per-	centage of increase
in the valuation, tax rate, state and count	
as a basis of comparison the figures for	the years 1906 and
1916.	
Valuation	31.3%
Tax Rate	22.4
State Tax	108
County Tax	34.1
Interest	53.3
Reduction of Funded Debt	51.2
Metropolitan Water Assessment '	13.7
Departmental Maintenance:—	
Poor Department	157.9

Sanitary Department

116.8

92.6 81.4

MAYOR'S INAUGURAL ADDRESS.

Maintenance School Buildings	•	•	61.
Fire Department	•	•	53.2
Parks and Playgrounds	•		42.5
Sewers Maintenance			40.
School Teachers' Salaries		•	39.9
Police Department	•		32.8
School Contingent	•		28.6
Sidewalks Maintenance		•	21.1
Water Maintenance			19.4
General Government			19.3
Highways Maintenance			9.4

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

Y	ear.		Amount of Funded Debt.		Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduc- tion of Funded, Debt.
Town .			\$593,349			• • • • • • • • • • • • • • • • • • • •	• • • •
Dec. 31,			643,354		\$50,005		
66	1873		809,354		166,000	• • • • • • •	
"	1874	• • • •	1,419,854		610,500	• • • • • • •	• • • •
"	1875	• • • •	1,571,854		152,000	*\$55,130 62	\$9.07
66	1876 1877	• • • •	1.606,854		45,000 10,000	*58,828 58	\$2 07 2 30
"	1878	• • • •	1,606,854 1,596,854		10,000	61,004 64	$\begin{array}{c} 2 & 30 \\ 2 & 91 \end{array}$
"	1879	• • • •	1,585,000		• • • • •	64,915 76	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
"	1880		1,585,000			55,739 35	$\frac{3}{2}$
"	1881		1,585,000			58,498 64	$2\overline{59}$
66	1882		1,585,000			61,390 59	2 65
46	1883		1,585,000			64,479 01	2 70
66	1884		1,585,000			67,719 33	2 78
* "	1885		†1,525,000			71,305 66	2 87
"	1886	• • • •	1,525,000		• • • • •	66,894 23	2 57 2 56
"	1887		1,525,000		25,000	70,252 88 37,000 00	2 56 1 28
"	1888	• • • •	†860,500		25,000 130,000	38,000 00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
"	1889 1890	• • • •	952,500 1,057,500	-	150,000	45,000 00	1 38
46	1891	• • • •	1,045,500		45,000	57,000 00	1 55
66	1892		1,194,500		253,000	104,000 00	$\frac{1}{2}$ 73
"	1893		1,279,500		222,000	137,000 00	3 27
"	1894		1,344,500		172,000	107,000 00	2 42
"	1895		1,506,500		247,000	85,000 00	1 83
"	1896		1,531,000		177,000	152,500 00	3 11
66	1897		1,548,000		167,000	150,000 00	2 39
"	1898		1,552,000		176,000	172,000 00	3 99
"	1899	• • • •	1,492,500		110,000	169,500 00	3 30 3 17
"	1900	• • • •	1,478,000		152,000 146,000	166,500 00 163,000 00	3 02
66	1901 1902	• • • •	1,461,000 1,447,000		175,000	159,000 00	2 86
66	1902	• • • •	1,505,500		197,500	169,000 00	2 96
44	1904		1,498,500		132,500	139,500 00	$\frac{2}{2} \frac{30}{40}$
"	1905		1,510,000		148,000	136,500 00	2 30
66	1906		1,464,500		100,000	145,500 00	2 41
"	1907		1,508,000		198,000	154,500 00	2 51
66	1908		1,466,500		110,000	151,500 00	2 06
"	1909		1,503,000		190,000	153,500 00	2 42
"	1910		1,500,000		160,000	163,000 00	2 26
66	1911	• • • •	1,519,000		188,000	169,000 00	2 41
66	1912	• • • •	1,674,000		332,000	177,000 00	$\begin{array}{cc}2&54\\2&92\end{array}$
"	1913	• • • •	1,674,000		222,000	222,000 00 203,000 00	$\begin{array}{c} 2 & 92 \\ 2 & 63 \end{array}$
"	1914 1915	• • • •	1,616,000 1,650,500		145,000 240,000	205,500 00	$\begin{array}{c} 2 & 03 \\ 2 & 57 \end{array}$
"	1916	• • • •	1,729,000		291,000	212,500 00	$\begin{array}{c} 2 & 57 \\ 2 & 60 \end{array}$
	1010	• • • •	1,120,000		201,000	212,000 00	2 00

^{*10,000} applied to payment of bonds; balance to sinking funds. †Sinking fund applied,

MAYOR'S INAUGURAL ADDRESS.

Year.	Valuation.	Tax Levy.	Rate.
1872	\$22,755,325	\$274,374 45	\$13 00
1873	29,643,100	389,214 48	12 80
1874	30,837,700	473,235 50	15 00
1875	31,317,000	518,161 40	16 20
1876	26,573,400	504,475 24	18 60
1877	25,479,400	471,789 14	18 10
1878	20,976,900	409,497 10	19 00
1879	18,950,100	352,553 80	18 00
1880	20,458,100	402,927 71	19 10
1881	22,569,100	452,945 45	19 50
1882	23,162,200	425,721 16	17 80
1883	23,812,900	411,645 43	16 70
1884	24,331,100	418,750 26	16 60
1885	24,878,400	428,605 44	16 60
1886	26,003,200	416,987 28	15 40
1887	27,471,800	424,309 14	14 80
1888	28,765,400	421,458 60	14 00
1889	30,004,600	440,324 40	14 00
1890	32,557,500	447,704 00	14 00
1891	36,843,400	539,137 10	14 00
1892	38,093,100	596,357 50	15 00
1893	41,873,600	675,886 80	15 50
1894	44,142,900	721,165 54	15 70
1895	46,506,300	745,609 02	15 40
1896 1897	49,070,800	786,412 32	15 40
1000	50,231,000	913,574 42	17 30
1000	50,739,700	954,187 11	17 90
1000	51,262,400	882,580 96	16 30
1001	52,578,200	889,916 08	16 00
1000	53,924,200	907,439 82	15 90
1902	55,558,300 57,062,000	964,535 80	16 40
1001		1,038,849 84	17 20
1904 1905	58,137,900 59,233,000	1,059,292 56	17 20
1906	60,371,500	1,144,000 14	18 30
1907	61,627,200	1,114,023 62	17 40
1908	63,158,400	$1,144,43492 \\ 1,237,69472$	17 40
1909	63,658,953 20	1,260,144 32	18 40 18 60
1910	66,376,338 70	1,306,888 71	18 50
1911	67,284,066	1,366,240 92	19 10
1912	69,632,540	1,390,824 93	18 80
1913	71,906,464	1,505,706 98	19 80
1914	74,946,894	1,665,289 46	21 10
1915	77,217,399	1,764,448 81	21 70
1916	79,304,329	1,785,540 99	21 40
1010	10,001,020	1,100,040 99	41 40

REPORT OF THE CITY AUDITOR.

Office of the City Auditor, January 25, 1917.

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 1916, 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, 1916.

	\$400,000,000	1,466 77	2,698 43 169 45	3,265 96	20.843.93	12.597 79	3,224 45 80,006 77	\$524,400 66	\$121,186 86	\$121,186 86
Revenue Accounts.		Temporary loans	Accrued interest	Revenue from taxes, supplementary war- rants	able \$20,822 74	Overlay, reserved for abatements:— Levy of 1916	Reserve Fund, surplus from overlays . Excess and deficiency		Non-Revenue Accounts. \$121,186 86 Unexpended balances:— Appropriations	
ne		m				_		11	Ž	
Reven		\$80,854 03	•			6440 013 04	3,428 42	\$524,400 66	Non-Reven \$121,186 86	\$121,186 86
	ASSETS.	\$79,354 03 1,500 00 \$80,854 03	\$343,800 71	2,707 54 24,000 92 6,217 97	20,822 74	16,958 36 25,505 70 c440 013 94	3,428 42	\$524,400 66	Non-Reven . \$121,186 86	\$121,186 86

BALANCE SHEET.—Continued. Municipal Indebtedness.

\$1,673,000,00	26,000 00	\$1,729,000 00			\$25,414 58
Loans within statutory debt limit:— "City bonds	Loans outside statutory debt limit:— Sewer bonds Metropolitan park assess- ment bonds Water bonds	1 1	Trust Funds.	Trust funds	Libiai June
. \$1,729,000 00		\$1,729,000 00	Trust	\$25,414 58	\$25,414 58
				٠	
				•	
Net bonded debt			Signature of the second of the	Investments:— Cash and securities.	

CASH STATEMENT DECEMBER 31, 1916.

REVENUE.

Receipts.

C 1		-F					
General:—				A4 =4 . ~~0	0.0		
Taxes	•	•	•	\$1,714,556			
Corporation and Bank Ta	axes		•	78,895			
Licenses				-3,023	50		
Permits				1,437	00		
Taxes	•			2,847			
Commonwealth of Massa			•	2,011	10		
count Vocational School	.1. .1.	its,	ac-	5,894	15		
Count of Middle and the	OIS .		•				
County of Middlesex, dog	ncens	ses	•	2,831	40	Ф1 000 101	* O
			Bitman			\$1,809,484	
Special assessments	•	•				88,816	05
Departmental:—							
General government .				\$8,104	59		
Protection of persons and	d nron	artu	• -	2,172	80		
		city	•	2,112	79		
Health and sanitation.		•	•	24,607			
Highways	•	•	•	4,431			
Charities	•	•	•	27,602			
				15,364			
Schools				5,990	03		
Libraries	•			1,422	61		
Parks				125			
Baths and bathhouses .		•	Ť	661			
m n n n n n n n n n n n n n n n n n n n	•	•	•	886			
Miscellaneous	•	•	•	000	80	91,369	50
Water Department Assessed	_						
Water Department Account	.s .	•	•			243,616	43
Interest:—							
On deposits, taxes, etc	•			\$22,404	35		
Income from trust funds				1,132			
	·	·	_			23,536	56
Temporary loans						1,220,000	
Premiums on general loans	•	•	•			2,698	
	•	•	•				
	•	•	•			2,473	40
Trust funds:—							
Martha R. Hunt fund, prir	icipal	•	•			702	77
					-		
Total receipts	•			• •		\$3,482,697	59
Transfer from non-rever	nue ac	cour	it.se	ervice trai	1s-	. , ,	
fers						11,937	21
Balance at beginning o	f perio	od				145,331	
zamoe we beginning o	1 10110	Ja	•	•	•	110,001	
						\$3,639,966	12
						φο,υου,υυ	42

CASH STATEMENT DECEMBER 31, 1916.—Continued.

Payments.		-
Appropriations		
Temporary loans 1,320,0		
State taxes and assessments 265,4		
	90 71	
	18 19 00 00	
Refunds 9	17 34	
	70 92	
Total payments		\$3,524,112 39
Transfer, revenue for outlays	•	36,500 00
Balance on hand	•	79,354 03
		\$3,639,966 42
NON-REVENUE.	=	ψ0,000,000 42
Receipts.		
	10 50	
	42 50 24 09	
Redemption of tax liens		
Refunds	58 17	
Terunds		
Total receipts		\$294,024 76
Transfer, outlays from revenue		36,500 00
Balance at beginning of period	•	95,899 50
		\$426,424 26
		Ψ120,121 20
Payments	=	
Payments. \$201.14	= 76 10	
Appropriations		
Appropriations	76 10 24 09	
Appropriations	24 09	\$293,300 19
Appropriations	24 09	11,937 21
Appropriations	24 09	\$293,300 19 11,937 21 121,186 86
Appropriations	24 09	11,937 21
Appropriations	24 09 	11,937 21 121,186 86
Appropriations	24 09	11,937 21 121,186 86
Appropriations	24 09	11,937 21 121,186 86
Appropriations	24 09	11,937 21 121,186 86 \$426,424 26
Appropriations	24 09	\$426,424 26 \$3,776,722 35
Appropriations	24 09	11,937 21 121,186 86 \$426,424 26
Appropriations	24 09	\$426,424 26 \$3,776,722 35
Appropriations	24 09 	\$426,424 26 \$3,776,722 35 241,231 12
Appropriations	24 09 	\$426,424 26 \$3,776,722 35 241,231 12
Appropriations	24 09 	\$11,937 21 121,186 86 \$426,424 26 \$3,776,722 35 241,231 12 \$4,017,953 47
Appropriations	24 09 	\$3,776,722 35 241,231 12 \$4,017,953 47 \$3,817,412 58
Appropriations	24 09 	\$11,937 21 121,186 86 \$426,424 26 \$3,776,722 35 241,231 12 \$4,017,953 47
Appropriations	24 09 	\$3,776,722 35 241,231 12 \$4,017,953 47 \$3,817,412 58

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Balance Jan. 1, 1916.
\$125 40
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10,326 53
73 5
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179 30
11,30030
167 96
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518 13
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\$23,399
\$25 60
35
\$118 10

WATER DEPARTMENT ACCOUNTS:(REVENUE).

Balance.	\$25,484 51	•		21 19		\$25,505 70	\$222,942 78	25,484 51	\$248,427 29
Collected.	\$161,635 94	52,773 47	1,822 07	2,873 77	3,837 53	\$222,942 78		•	
Abatements.	\$468 01	1,129 53	293 43	1 60	•	\$1,892 57			•
Commitments.	\$187,588 46	53,903 00	2,115 50	2,896 56	3,837 53	\$250,341 05		•	
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	Metered rates	Annial rates	Additional rates	Maintenance bills	Service assessments	Total	Receipts	Metered rates last quarter 1916	Water revenue, 1916

STATEMENT OF ESTIMATED REVENUE.

Deficit.	\$1,380 87	4 50 39 00 135 00	5 00	1,064 75 330 91 474 91	36 00 40 00 162 69
Excess.	\$23,522 64 127 73	186 00	1,102 19	744 06 180 20	1,742 59 3 00
Receipts.	\$47,822 64 4,127 73 38,619 13	295 50 361 00 3,015 00 786 00 3 00	2,602 19 245 00 2,831 40 5,894 15	1,935 25 2,744 06 36,210 20 12,669 09 8,525 09	6,942 59 13 00 1,114 00 35 00 437 31 1,000 00 187 78 547 71
Estimate.	\$24,300 00 4,000 00 40,000 00	300 00 400 00 3,150 00 600 00	1,500 00 250 00 2,831 40 6,000 00	3,000 00 2,000 00 36,030 00 13,000 00 9,000 00	5,200 00 10 00 1,150 00 75 00 600 00 1,000 00 350 00
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C 4.2.4.2.	Corporation taxes. National bank tax. Street railway.	Licenses and Permits:— Milk	Fines and Forfeits:— Court fines Departmental Grants and Gifts:— County, dog licenses State, Industrial School	Special Assessments:— Moths Sewer Street sprinkling Sidewalks Betterment	General Government:— Treasury department Assessors' department City Clerk's department Engineering department Protection of Persons and Property Police department Rent of court room. Fire department Sealer of weights and measures

	3,037 92		•	•	•	•		•	•		892 00				8 1		•	•		•		•	•	•	117 05	117 00	•		
•	•	- 1	4 00 14	72 47	2,803 14	•		491 74	10,110 87		•	•		2,231 36		1 104 45	1,104 43 85 60	30 Go	99 61				04 00			• • • • • • • • • • • • • • • • • • • •	co 6.7.	16.427 29	2
277 86	12,962 08	350 00	10,504 65	72 47	3,803 14		I C	5,513 17	22,089 44					2,231 36		4 104 45	4,104 43 1 885 60	00 600,1	1 499 61						25 00			948 497 29	
	16,000 00			•	1,000 00	240 00		5,000 00			15,000 00	200 00	1,000 00	• (25 00	000	3,000 00	1,000 00	1 400 00	1,400 00	00 00	00 000		no ne		0000	150 00	939,000,00	202,000,202
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Health and Sanitation:— Health department	Contagious Hospital	Inspection of milk and vinegar	Refuse disposal	Sewer department	Highways:— Highway maintenance	Highway buildings	Charities:	City Home	Poor department, miscellaneous	Soldiers' Benefits:	State aid	Military aid	Soldiers' burials	State aid special	Soldiers' relief	Education:—	School department	Maintenance school buildings	Libraries:	Library department	Recreation and Unclassified:-	Electrolysis	State, in lieu of taxes	Farks maintenance	Playgrounds maintenance .	Bathhouse	Shower baths	Public Service Enterprises:-	water department

STATEMENT OF ESTIMATED REVENUE.

Deficit.	36 77	\$9,018 03	\$475,011 40	00 100,100	\$56,292 93
Excess.	4,178 77	\$65,310 96	•	•	
Receipts.	11,178 77 10,763 23 462 35	\$531,304 33	•	•	
Estimate.	7,000 00 10,800 00 500 00	\$475,011 40	•		
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			•	•	
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	Interest:— Bank deposits Deferred taxes. Special assessments		imate .	ual · ·	•
	Interest:-Bank d Deferre Special		Total estimate	Total acti	Excess

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APPROPRIATIONS	4
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Balance to Excess and Deficiency.	13 27	102 67	•	•	•	•	•	170 34	30	•			78 44	76 29			32 00	. 131 35		23 CS	95 00	1 99	
Expenditures.	\$1,016 25 1.870 48			14,578 75	12,764 32	725 00	146 25		314 70	2,442 25		3,064 36	12,328 15	4,918 35		$8,922 \ 91$	17 40	1,992 84		2,517 32		555 51	\$89,078 63
Total Credit.	\$1,015 25 1,883 75		4,289 21	-	12,764 32	725 00			315 00	2,442 25			12,406 59	4,994 64	1 6	8,925 00	00 00	2,124 19		2,525 00 3,854 00		557 50	\$89,763 29
Receipts and Service Trans.	0		•	146 25	•	•	•	1,254 80	•	•		•	•	•		•	•	•		:	•	:	ı
Appropriation Trans. to	\$216 25		139 21		84 32	125 00	•		• • • • • • • • • • • • • • • • • • • •	42 25		•	•	•	1	425 00	•	•		:	•	•	
Appropriation Trans. from	\$16.25) •	•	•	•	•	253 75	139 21	•	•		• (93 41	35 36		•	•	125 81	1	125 00	:	282 50	
Appropriation.	\$800 00	4,800 00	4,150 00	14,150 00	12,680 00	00 009	400 00	7,150 00	315 00	2,400 00		3,100 00	12,500 00	5,030 00	6 6 6	8,500 00	00 00	2,250 00		2,650 00	6,654 UU	840 00	\$88,119 00
General Government.	Board of Aldermen, expenses	Executive department .	Auditing department .	Treasury department .	Assessors' department.	and bonds	Recording assessments.	City Clerk's department	Registration city laborers	Law department	City Messenger's depart-	ment	Engineering department	Buildings	Maintenance municipal	buildings		Election expenses, City Clerk	Election expenses, regis-	trars of voters	Fay of election officers.		Totals

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Delenes 45	Excess and Deficiency.	31 53	447 81	3 46	*6 94 46 56	14 96		\$37 40	•	23 62	1 51	655 57
	Expenditures.	\$109,965 31	3,508 44 110,217 58	7,935 36 462 22	2,711 78 9,028 44	213 20 4,260 84 3,157 10	\$251,460 27	\$11,797 21 1,062 60 17,824 62	3,622 27	1,326 38	3,120 84	2,432 65 17,442 79
VENOE).	Total Credit.	\$109,996 84	3,508 44 110,665 39	7,935 36 465 68	2,704 84 9,075 00	228 16 4,260 84 3,191 48	\$252,032 03	\$11,797 21 1,100 00 18,335 82	3,622 27	1,350 00	3,122 35	2,432 65 18,098 36
S, 1910 (REVENUE)	Receipts and Service Trans.	•	1 25 878 88		12 03	240 74		\$135 94	•	•	:	98 36
APPROPRIATIONS,	Appropriation Trans to	496 84	7 19	35 36 50 00		20 10		\$447 21	322 27	•	•	2 65
	Appropriation Trans. from		213 49	84 32	7 19 425 00	271 84		2,375 12	•	•	2 65	• • •
STATEMENT OF	Appropriation.	Property. \$109,500 00	3,500 00 110,000 00	7,900 00	2,700 00 9,500 00	500 00 4,000 00 3,200 00	\$251,300 00	\$11,350 00 1,100 00 20,575 00	3,300 00	1,350 00	3,125 00	2,430 00 18,000 00
		f Pers tment	Maintenance police buildings		d pa:	Maintenance electrical department building. Suppression of moths. Care of trees.	Totals	SOLOT	ce Coi	->		dren

19 66	23	91 57		\$188 32			•					•	•	•		306 60 512 00				
133 83	64,063 28	1,274 61 24,899 57	\$90,237 46	\$65,875,56	5,125 80 35.056 86	61,000 00	1,495 06	\$168,553 28		\$51,786 07		11,593 41	1,925 81	2,000 00	1,031 58	310 00 14.108 00	21,034 90	464 00	2,384 36	\$111,638 13
153 49	64,063 51	1,274_61 24,991_14	\$90,329 26	\$66,063 88	5,125 80 35.056 86	61,000 00	1,495 06	\$168,741 60		\$51,786 07		11,593 41	1,925 81	2,000 00	1,050 00	$010 \ 010 \ 14.620 \ 00$	21,040 00		3,000 00	\$113,631 89
• •		• • •		\$25,563 88	48 00) •	•			\$26 45	·	•	•	•	•	20 00	40 00	•	•	
• •	64,063 51	474 61 1,000 00		\$1,500 00	08 cz1 8 S		595 06			\$11,759 62		93 41	125 81	•	•	• • •	:		3,000 00	
21 51 56.863 51		8 86		•	• • •		•			•		•	•	•	00 40	400 00	•	•	•	
175 00		800 00 24,000 00	\$24,800 00	\$39,000 00	35,000 00	61,000 00	00 006	\$140,900 00	nefits.	\$40,000 00	() () () () () () () () () ()	11,500 00	1,800 00	00 000'	1,050 00	15,000 00	21,000 00	1,000 00	•	\$99,050 00
Maintenance sewer build- ings Highways, refuse disposal	Sanitary department . Maintenance refuse	reet cl	Totals	Highway maintenance .	Street sprinkling	Street lighting	Maintenance ingnway buildings	Totals	Charities and Soldiers' Benefits.	Poor department, mis- cellaneous	Poor department, City	Home	buildings	Somerville Hospital Soldiers' benefits. gen-	0.1	State aid	Soldiers' relief	Soldiers' burials	State and special.	Totals

*** **********************************	STATEMENT Appropriation.	OF Approp	APPROPRIATIONS, 1916 (REVENUE) riation Appropriation Receipts and Total from Service Trans. Credi	Receipts and Service Trans.	/ENUE). Total Credit.	Expenditures.	Balance to Excess and Deficiency.
Education. School contingent School teachers' salaries	\sim \sim \sim	\$5,237 11	\$478 19	\$26 50	\$36,504 69 359,652 89	\$36,504 69 359,602 15 33,326 34	50 74 26 39
Janitors' salaries Fuel and light Buildings and grounds . Central library	24,300 00 24,300 00 28,000 00 25,000 00	77 77	1,875 00 2,858 92 213 49	191 65	27,158 92 28,405 14 25,007 00	27,158 92 28,401 14 24,999 97	4 00 7 03
Maintenance Central li- brary	3,900 00	•	83 40	191 50	4,174 90	4,174 90	•
West Somerville Dranch	6,700 00	•	•	•	6,700 00	6,700 00	
Maintenance West Somerville Branch library	1,500 00	42 25	300 00	•	1,757 75	1,745 14	12 61
East Somerville Branch	3,100 00	•	•	•	3,100 00	3,099 28	7.7
Maintenance East Someerville Branch library	675 00	•	12 40	•	687.40	687 40	•
Branch	3,200 00	•	•	•	3,200 00	3,199 39	61
aintenance Union Square Branch library	1,000 00	125 80	•	:	874 20	855 15	19 05
•	\$529,865 00				\$530,575 62	\$530,454 47	
Recreation and Unclassified Parks maintenance	ed. \$10,000 00	•	:	:	\$10,000 00	\$9,798 86	\$201 14
Maintenance park build- ings	685 00 3 500 00	•	\$21 51	• •		706 51	75 59
Summer playgrounds Maintenance bathhouse	2,300 00 2,330 00	\$568 26			2,300 00 1,761 74	2,300 00 1,743 30	18 44

			CITY AU	JDITOR.						99
• • •	1 02 60 43 1,859 41 1,657,96	747 82	\$2,842 31		\$73 90 14 26	15 38		•		\$12,468 07
500 00 425 00	683 98 1,489 57 2,440 59 15,659 91	4,252 18	\$90,167 42 207,500 00	\$297,667 42	\$65,685 01 17,087 84	1,346 06 840 00	5,000 00	110,468 29	\$200,427 20	\$1,882,840 85
500 00 425 00	685 00 1,550 00 4,300 00 17,317 87	5,000 00	\$93,009 73 207,500 00	\$300,509 73	\$65,758 91 17,102 10	1,361 44 840 00	5,000 00	110,468 29	\$200,530 74	\$1,895,308 92
• • •	2 87	•	\$1,729 73 904 78		\$12,708 91 852 10	121 50	•	•		\$45,214 70
	685 00	•	: :		\$10,000 00 3,250 00		•	•		\$105,220 74
• • •	250 00 10,000 00 700 00 685 00	•	\$4,600 00		\$950 00 10,000 00	90 09	•	2,031 71		\$97,220 74
500 00 425 00	1,800 00 10,000 00 5,000 00 18,000 00	\$59,540 00	\$95,880 00 206,595 22	\$302,475 22	\$44,000 00 23,000 00	1,300 00 840 00	2,000 00	112,500 00	\$186,640 00	\$1,842,094 22
Independence Day	a s	Damage to persons and personal property . Totals	Interest and Maturing Debt. Interest . Reduction of funded debt	Totals Enterprises.	Water maintenance Water works extension	e)	debt, water	sessment	Totals	

STATEMENT OF APPROPRIATIONS 1916 (REVENUE).

\$1,466 77	\$1,671,056 92	\$1,672,523 69	\$1.834 98	\$1.749 98	1				
•	255 SU	233 80	•	•	•	•	•	•	Water rates
•	207 01	207 61	•	•	•	•	•	•	Special assessments
•	47.0 30	4/5 95	•	•	•	•	•	•	Taxes
	475 09	200 2117							Cash refunds:—
•		300 00	•	•	•	•	٠	•	Advance to poor department
•	22,190 11		•	•	•	•	•	•	County of Middlesex
•			•	• • • • • • • •	•	•	•	•	State taxes and assessments
•	26 07		•	•	•	•		•	Real estate liens
•	1,520,000 00		•	•	•	•	•	•	Temporary loans
06 /1	00000000	17 96	6 04		•	•	•	pun	Frances A. Wilder, children's fu
0 49	07. 47.		43 80		•	•	•	•	Isaac Pitman poetry fund.
103 53	219 30		175 16	147 67	•	•	•	•	aac Pitman art fund
707	1,202,77		702 77		•	•	•	•	Principal for expenses .
2000	11 000		1						artha R. Hunt art fund:-
					•	•	•	•	artha R. Hunt book fund .
	103 35				•	•	•	•	artha R. Hunt art fund .
119 74		119 74	43 86	75 88	•	•	•	•	Library:— S. Newton Cutler fund.
\$316 39	\$392 55	\$708 94	\$219 44	\$489 50	•	•	•	•	School:- S. Newton Cutler fund .
									Income of Trust Funds:-
									Other Accounts.
Balance to	Expenditures.	Total Credit.	Receipts.	Balance from 1915.					

STATEMENT OF APPROPRIATIONS, 1916 (NON-REVENUE).

	Balance from 1915.	Appropriation.	Appropriation Trans. from	Appropriation Transfer to	Receipts and Service Trans.	Total Credit.	Expenditures.	balance to 1917 Account.
General Government. Central Heating Plant	t. \$602_21	:	:	\$1,277 38	•	\$1,879 59	\$1,879 59	
Protection of Persons and Property. Electrical depart-	ns and Pr	roperty.			,			
ground con- struction	\$2,000 31	0 0 0 0 0	•	•	•	\$2,000 31	\$1,202 17	\$798 14
additional apparatus	3,881 47	\$7,500 00	•	•	•	11,381 47	11,379 76	171
alarm signal system	37,992 12	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	•	37,992 12	31,242 90	6,749 22
Health and Sanitation. Sewers construction		\$8 12 \$20,000 00	•	•	\$348 03	\$20,356 15	\$12,667 80	\$7,688 35
Highways.	•							
Highways construction:— New streets . \$81	10n: \$81 77	\$20,000 00	•	\$200 00	\$6 30	\$20,288 07	\$17,930 12	\$2,357 95
Fermanent pavement .	2,692 42	93,000 00	•	•	864 60	96,557 02	77,411 00	19,146 02
n ent	1,107 37	32,000 00	\$200 00	•	25 60	32,932 97	32,918 39	14 58
Sidewalks con- struction	500 54	27,000 00	•	•	•	27,500 54	27,482 49	18 05
New highway build- ing .	293 95	•	11 95	•		282 00	282 00	•

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(NON-REVENUE)
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Ralance	to 1917 Account.		\$166 71	944 79	495 34	5,358 16	:	•	628 23	58,896 84	87 20	:	9,797 50	•
	Expenditures.		•	•	00 9\$	34,206 38	2,604 70	661 00	1,948 45	35,603 16	3,412 80	1,021 62	202 50	4,579 92
VENUE).	Total Credit.		\$166 71	944 79	501 34	39,564 54	2,604 70	661 00	2,576 68	94,500 00	3,500 00	1,021 62	10,000 00	4,579 92
'NT OF APPROPRIATIONS, 1916 (NON-REVENUE).	Receipts and Service Trans.		•	•	•	•	•	•	•	•	•	•	•	•
RIATIONS, 1	Appropriation Transfer to		•	•	•	•	\$604 70	•	181 38		•	:	•	75 92
OF APPROP	Appropriation. Trans. from		•	•	•	•	•	3 00	604 70	•	•	178 38	•	•
STATEMENT C	Appropriation.		•	•	•	• • • • • • • • • • • • • • • • • • •	\$2,000 00	•	3,000 00	94,500 00	3,500 00	•	10,000 00	4.500 00
STA	Balance from 1915.		\$166 71	944 79	501 34	39,564 54	•	- 664 00	•	•	•	1,200 00	•	•
		Education.	Bennett school addition	S. Newton Cut- ler school	S. Newton Cut- ler school addi- tion	New school building, East Somerville	City Home sprink- ler system	High School sprink- ler system .	Schoolhouses sprinkler system	ing, Holland	Bell school, additional land	baths to the school-	school addition	Land, East Someerville branch library

	2,983 52	293 99	2,985 00	•		\$814 77	62 096	\$121,186 86	•	\$121,186 86
	60 42	1,706 01	2,515 00	•		\$532 99	•	\$303,457 17	2,124 09	\$305,581 26
	3,043 94	2,000 00	5,500 00	•		\$1,347 76	62 096	\$424,644 03	2,124 09	\$426,768 12
	:	•	•	•		•	•	\$1,244 53	2,124 09	\$3,368 62
	43 94	•	•	•		•	•	\$2,387 32	•	\$2,387 32
	•	•	•	\$31 99		•	\$1,357 30	\$2,387 32	•	\$2,387 32
",	\$3,000 00	2,000 00	5,500 00	•		•	•	\$95,899 50 \$327,500 00	•	\$95,899 50 \$327,500 00
		•	•	\$31 99		\$1,347 76	2,318 09	\$95,899 50	•	\$95,899 50
Recreation.	Field house, Somerville field. Park building, Lin-	tion tothers	Mystic river .	tension	Unclassified.	Building public	Grade crossings expenses .	Total appropriations	liens	Totals

SERVICE TRANSFERS.

Treasury Department:— Recording Assessments City Clerk's Department:		•		•			\$146	25
Election Expenses, City Election Expenses, Regi Health Department	Clerl	k of	Vote:	rs •	\$500 750 4			
Fire Department:-							1,254	80
Refuse Disposal . Sewers Maintenance						$\begin{array}{c} 00 \\ 25 \end{array}$		
Highway Maintenance City Messenger .	•	• .	•	•	304 19	55		
Engineering Departmen	it	•	•	•	139	69		
Buildings and Grounds Commissioner of Buildi	ings	•	•	•	. 99	28		
Electrical Department Weights and Measures	•				162 84	12		
School Contingent .	•	•	•		13	00	878	88
Sealer of Weights and M Soldiers' Benefits, Ge	neral	es: Ad	- .minis	ş-				
tration Suppression of Moths:—		•	•	•			12	03
Maintenance City Hom Buildings and Grounds		•				75 75		
Police Buildings . Highway Buildings .						50 75		
Maintenance West Son Library	mervil	le I	Branc	h	5	25		
Maintenance Union	Squar	e I	· Branc	h				
Library Parks Maintenance .	•	•		•	209			
Water Maintenance Highway Maintenance	•	•	•		1	75 50		
Macadam Pavement	•	•	•	• _	4	99	240	74
Care of Trees:— Parks Maintenance.					6	78		•
Highway Maintenance	•	•	•	•		80	11	50
Contagious Hospital:								58
Poor Department, Misc Sewers Maintenance:—	eliane	ous	•	•			130	72
Sewers Construction Water Maintenance.		•			29 42			
Maintenance Contagious Buildings and Grounds		oital	•		25	50		
_		•	•	•			98	36 .
Highways Maintenance:— Care of Trees.	•	•	•		632			
Suppression of Moths Street Cleaning .	•	•		•	201 3,418			
Street Sprinkling . Sidewalks Maintenance		•			3,590 1,575	56		
Refuse Disposal .	•	•	•	•	2,913			
Carried forward	•	•			\$12,331	58	\$2,773	36

Brought forward		. \$12,331	58 \$2,773 36
Brought forward		. 790	35
Police Department		274 (00
Police Department Buildings and Grounds		. 13 8	50
Water Maintenance		. 38	34
Maintenance Fire Buildings .		. 4 (
Sewers Maintenance		$\overline{1}$	
Maintenance Highway Buildings		63 9	
Playgrounds Maintenance .		10 (<u> </u>
New Streets	•	1,180	94
Macadam Pavement	•	3,398	$\hat{0}\hat{2}$
Sidewalks Construction	•	3,787	
Permanent Pavement	•	2,880	00
Parks Maintenance	•	. 40 8	
Tarks Maintenance	•	. 10 (<u>24,815 61</u>
Highways Street Sprinkling:			24,010 01
Highways, Street Sprinkling:—			48 00
Highways Maintenance	•	•	40 00
Poor Department, Miscellaneous:			96.45
Soldiers' Relief	•	•_	26 45
School Buildings and Grounds:—	•	159 (00
School Contingent Summer Playgrounds	•	. 153 (
Summer Playgrounds	•	$\frac{30}{2}$	
Highways Maintenance	•	. 2	
Maintanana Cantual Tibuana			— 185 16
Maintenance Central Library:			101 50
Buildings and Grounds	•	•	191 50
Water Maintenance:-		10=	10
Highway Maintenance	•	. 137 4	
Buildings and Grounds	•	. 98 4	
Engineering Department		. 4 9	
Street Sprinkling	•	. 183 8	
Parks Maintenance	•	. 28 8	
New School Building, East Som	erville	. 93 4	
Highway Buildings	•	. 64 2	
Playgrounds Maintenance .	•	. 81 8	
Maintenance City Home	•		99
Maintenance City Home Suppression of Moths	•	. 33 3	
New Fire Alarm Building .	•	. 93 (
Sewers Construction		. 4 2	
Macadam Pavement	•	. 9 1	
Poor Department, City Home			52
Maintenance Park Buildings .		. 12	25
Maintenance Bathhouse		. 4	13
Water Works Extension .		. 11,872 (36
			- 12,708 91
Water Works Extension:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Water Maintenance		. 93 (33
Sprinkler Systems		. 536 (
New School Building, Holland	Street		
3, 22, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14			852 10
Maintenance Water Buildings:-			002 10
Maintenance Highway Buildings			121 50
			\$41,722 59
·			Ψ1, 122 00

TEMPORARY LOANS, 1916.

Paid.	April 3, 1916 Nov. 3, 1916	Nov. 3, 1916	Nov. 3, 1916	Nov. 8, 1916	11,	17,	17,	tan		Outstanding	Outstanding	Outstanding	Outstanding	Outstanding		Outstanding	
Amount.	\$100,000 00 100,000 00	200,000 00	20,000 00	200,000 00						100,000 00						20,000 00	\$1,220,000 00 \$400,000 00
Rate.	.25 2.52 52 53	+.25 2.52	+.25 2.57	+1.25	2.75	2.75	2.50	3.20		3.65	3.85	3.74	3.75	3.55	3.56	+1.25	٠
	1916 1916	1916	1916	1916						1917	1917	1917	1917	1917	1917		•
)ue.	က်က်	က်	က်	∞	11,	17,	17,	က်		26,							
I	April Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	April		June	April	May	Augus	April	April	ı	
	1916 1916	7, 1916	7, 1916	1916	1916	1916	1916	1916		1916	1916	1916	1916	1916	1916		•
ssued.	7, 1916 25, 1916	7,	7,	14,	30,	30,	30,	26,		26,							•
H	Feb. Feb.	March	March	March	March	March	March	May		June	July	July	August	August	Dec.		٠
	387	415	417	430				449		459					-		1916
No.	380 388 388 988	401 @	416 @	418 @				441 @		450 @				468 @			31,
				. 4	4		•			4			<u>4</u>	.	4		nber
		•			λ	lλ			aving	•	γι						Jecer
Faken By	Loring, Tolman & Tupper Estabrook & Company	R. L. Day & Company	Estabrook & Company	Estabrook & Company	Old Colony Trust Company	Old Colony Trust Company	Estabrook & Company	Estabrook & Company	Charlestown Five Cents Savings	Bank	Old Colony Trust Company	Bond & Goodwin'	Curtis & Sanger .	Curtis & Sanger	F. S. Moseley & Co		Amount outstanding December

COMMONWEALTH OF MASSACHUSETTS.

COMMONWEALI	H UI	L IVIA	100	ACHUS.	EIIS	•
	Char	ges.				
State Tax		_				\$127,360 00
State Tax State Highway Tax	•	•	•		•	790 00
Non-Resident Bank Tax.	•		•			2,190 74
Metropolitan Sewer Assessm		•				67,511 00
Metropolitan Park Assessmen	nt				·	40,259 07
Wellington Bridge Assessmen	nt		Ĭ			3,087 49
Grade Crossing Assessment						13,861 56
Charles River Basin Assessm	ent		•			6,616 78
Alewife Brook Assessment						1,255 23
Abatement Smoke Nuisance						294 67
Fire Prevention Assessment						1,363 54
Auditing Municipal Accounts			•			823 40
Soldiers' Exemption						46 28
·						
						\$265,459 76
	Cred	its.				
State Aid	•					\$14,108 00
Military Aid			•			155 00
Soldiers' Burials		•	•			464 00
Soldiers' Burials State Aid Special	•				•	2,231 36
						\$16,958 3 6
STATEMENT OF R	EVE	NUE	Al	ND EXP	ENSI	ES.
	_					
	Reve	nue.				
Total amount as per assesso	\rs' c	omn	it-			
)15 C	.Omm	111-			\$1,749,457 38
W 60 800	•	•	•	\$130,34	10 74	φ1,110,101 00
Less State Taxes County Taxes	•	•	•	φ180,5°	90 71	
County Taxes Overlay		•	•	18,27	70 37	
Overlay	•	•	•			230,801 82
						200,001 02
Amount raised for municipal	purp	oses				\$1,518,655 56
Other Revenue:—	pp	0000	·	•	•	φ1,010,000 00
Sale of land Weston avenue				\$35	22 00	
Estimated Revenue Receipts				475,0		
Excess of Estimated Revenue	e .				92 93	
Excess of Appropriations of	ver r	equi	re-	,-		
ments				12,40	68 07	
Transfer from Excess and De	eficiei	ncv		20,00	00 00	
						564,094 40
Total					•	\$2,082,749 96
,	E					
	Expe	nses,				
Revenue Appropriations:—				44.000 **		
Budget	•	•	•	\$1,868,59		
Supplementary	•	•	•	15,00	00 00	
36						\$1,883,594 22
Metropolitan and Other Asse	essme	nts	•		•	135,119 02
						ф0.010. Т 10.0
D						\$2,018,713 24
Excess of Revenue .	•	•	•	•	•	\$64,036 72

REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credits:— Balance from 1915	•	\$5,009 240 3,025	00	ΦΟ ΩΡΙ Γ	~ 17
CI		 		\$8,275	57
Charges:— Abatements	•	\$957 4,052			
Transfer to Excess and Denotedey	•	 1,002		5,009	61
Balance December 31, 1916 .		•	•	\$3,265	96

FUNDED DEBT.

The total funded debt of the city January 1, 1916, was \$1,650,500. This debt was increased during the year \$291,000. Maturities paid amounted to \$212,500, making the funded debt January 1, 1917, \$1,729,000, an increase of \$78,500.

The debt January 1 1916 was classified as follows:

The debt January	у д, дадо,	was	cias	smea	as	101	lows:—	
City Loan				\$845,	500	00		
Municipal Loan				67,	000	00		
Sewer Loan Public Building Loan .				292,	000	00		
Public Building Loan.				140.	000	00		
Highway Loan				207,				
Highway Loan Lowell Street Bridge L	oan .				000			
		•	Ť					
Total inside limit							\$1,585,500	00
Sewer Loan				\$30,	000	00	, ,	
Metropolitan Park Ass				14,	000	00		
				21.	000	00		
Total outside limit			•				\$65,000	00
Total Funded Deb	t	•	•	•	•	•	\$1,650,500	00
Appropriations i lows:— Sewers Construction	nereasing	the	uci.	ot we	ere	1116	\$18,000	- 1
Highways Construction,	New Str	eete	•	•	•	•	11,000	
Highways Construction					•	•	93,000	
Highways Construction					•	•	32,000	
Sidewalks Construction	, macadan	ıı ı a v	CHICI	111	•	•	14,000	
New School Building,	Holland S	treet	•	•	•	•	94,500	
Bell School, Additional						•	3,500	
Boys' Industrial School			•	•	•	•	10,000	
Land East Somerville H			•	•	•	•	4,500	
Field House, Somervill	a Field	nary	•	•	•	•	3,000	
Park Building, Lincoln	Dorle Add	ition	•	•	•	•	2,000	
New Bathhouse, Mysti				•	•	•	5,500	
New Datimouse, Mysti	ic itivei	•	•	•	•	•	0,000	00
							\$291,000	00

The debt was reduced by maturiti	es as follows:—
•	\$131,500 00
City Loan	10,000 00
Municipal Loan	
Sewer Loan	17,000 00
Highway Loan	36,000 00
Public Building Loan	8,000 00
Bridge Loan	1,000 00
PTS - 4 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 -	
Total inside limit	\$203,500 00
Sewer Loan	\$3,000 00
Metropolitan Park Assessment Loan .	1,000 00
Water Loan	5,000 00
Total outside limit	9,000 00
	-
Total reduction	\$212,500 00
	, γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ γ
The funded debt of the city Innua	ry 1 1017 is classified
The funded debt of the city Janua	Ty 1, 1917, is classified
as follows:—	
City Bonds, 3½ per cent	\$119,000 00
City Bonds, 4 per cent	523,000 00
City Bonds, 4 ¹ / ₄ per cent	72,000 00
Municipal Bonds, 4½ per cent	57,000 00
Sewer Bonds, $3\frac{1}{2}$ per cent	86,000 00
Sewer Bonds, 4 per cent	180,000 00
Sewer Bonds, 4 ¹ / ₄ per cent	27,000 00
Public Building Bonds, 4 per cent	255,000 00
Highway Bonds, 4 per cent	196,000 00
Highway Bonds, 3½ per cent	125,000 00
Did in a gradient	33,000 00
Bridge Bonds, $3\frac{1}{2}$ per cent	33,000 00
Total within limit	\$1,672,000,00
	\$1,673,000 00
Sewer Bonds, 4 per cent	\$27,000 00
Metropolitan Park Assessment Bonds,	19,000,00
$3\frac{1}{2}$ per cent	13,000 00
Water Bonds, 4 per cent	16,000 00
T 1 1 1 1 1 1	ф
Total outside limit	\$56,000 00
TD . 1 C . 1 . 1 . 1	44 500 333 33
Total funded debt	\$1,729,000 00

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FUNDED DEBT, DECEMBER

	40)											A	Ν.	N	U A	41	į	R	ΕI	20	R'	rs	•														
	Total	Maturities by years.	\$232,500	215,500	200,500	172,500	150,500	120,500	106,500	82,500	71,000	57,000	47,000	42,000	41,000	41,000	38,000	34,000	29,000	19,000	19,000	12,000	2,000	2,000	2002	7,000	2,000	0000	2,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	\$1,729,000
	;	Water Loan.	\$5,000	5,000	4,000	2,000	•	•	•	•				•	•	•	•	•	•	•	•	•			•	•	•	•		•	:	•	:	•	:	•	•	\$16,000
A	11 SS-	ment Loan hap. 325, 1902																																				\$13,000
۴	Sewer Loan	Chap. 357 1895. C	\$3,000	3,000	3,000	3,000	3,000	3,000	3,000	3.000	3,000	200,0	•	•	•	:	•	•	•	•	•	•		•	•	•	•	•	:	•	:	•	•	:	:	•	•	\$27,000
1 - 11	Street	Bridg e Loan.	\$1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	\$33,000
יייייייייייייייייייייייייייייייייייייי		Highway Loan.	\$56,000	54,000	53,000	40,000	31,000	22,000	22,000	22,000	13,000	8,000	0,000	•	•	•	•	•	•	•	•			•	•	•	•	•	:	:	:			•		•	•	\$321,000
01, DEC	Public	Building Loan.	\$19,000	19,000	19,000	19,000	19,000	14,000	13,000	13,000	13,000	13,000	19,000	12,000	12,000	12,000	12,000	11,000	11,000	10,000	10,000	4,000		•	•	•	•	•	•	•	•	•	•	•	•			\$255,000
מבט טבט		Sewer Loan.	\$19,000	19,000	19,000	19,000	19,000	19,000	18,000	17,000	17,000	15,000	14,000	14,000	12,000	11,000	10,000	10,000	8,000	8,000	8,000	2,000	6,000	0,000	0,000	4,000	3,000	2,000	1,000	1,000	1,000	•	•	•	•	•	•	\$293,000
r Oly		Municipal Loan	\$10.000	8,000	8,000	8,000	8,000	8,000	7,000	2006	•	•	•	•		•	•	•				•	•	•		:	•		•	•	•	•	•		•	•	•	\$57,000
		City	\$118.500	105,500	92,500	79,500	68.500	52,500	41 500	95,500	25,000	10,000	19,000	19,000	17,000	16.000	15.000	12,000	0006			•	•	•	:	•	•	•	•	:	:		•	•	•	•	•	\$714,000
			Mature.	1018	1010	1090	1091	1000	1000	1929	1924.	1925	1926	1927	1928.	1929	1030	1031	1039	1022	1094	1004	1965	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945.	1946	1947	1948	1949	

				MA	TUE	MATURITIES	0	_				
Class of Loan.							Jan. 1, 1917.	April 1, 1917.	July 1, 1917.	Oct. 1, 1917.	Total,	
City						•	\$10,000 00	\$67,000 00	\$39,500 00	\$2,000 00	\$118,500 00	
Unicipal						•			10,000 00	•		
TAXET		, ,				•	3,000 00	00 000.6	10,000 00	•		
Public Buildings							00 000'9	5,000 00	8,000 00	•		
Highway		. •				•	19,000 00	34,000 00	3,000 00	•		
Bridge	, ,						•	1,000 00	•	•		
Metropolitan Park						•	•	•	1,000 00	• 1		-
Water	٠	•	•	٠	•	•	•	•	1,000 00	4,000 00	2,000 00	
Totals	•			•		•	\$38,000 00	\$116,000 00	\$72,500 00	\$6,000 00	\$232,500 00	
			INTERE	REST		UIRE	REQUIREMENTS ON	FUNDED DEBT, 1917	BT, 1917.			
Class of Loan.							Jan. 1, 1917.	April 1, 1917.	July 1, 1917.	Oct. 1, 1917.	Total.	
City	•	•	•		•	٠	\$6,470 50	\$7,655 00	\$6,207 50	\$6,336 25	\$26,606 25	
Municipal	•	•	•			•	1,282 50	•	1,282 50	•	2,565 00	
Sewer				•		•	2,490 00	3,728 75	2,435 00	3,552 50	12,206 25	
Sublic Buildings .						•	3,340 00		3,220 00	1,660 00	00 086'6	
Highway	•	•				•	2,687 50		2,355 00	2,740 00	11,202 50	-
Bridge	•				•	•	•	577 50	•	260 00	1,137 50	
Metropolitan Park							227 50			•		
Water		•	•	•	•	٠	40 00	280 00	40 00	280 00	640 00	
Totals	•		•		•	•	\$16,475 00	\$17,421 25	\$15,767 50	\$15,128 75	\$64,792 50	

*\$64,792 50

\$66,982 50

\$65,652 50

	1916. 1917.	\$131,500 00 \$118,500 00	000 10,000	000 22,000	36,000 00 56,000 00	000,61 000	000 1,000	000 1,000	00	\$212,500 00 \$232,500 00		1916.	\$31,768 75 \$26,606 25	00 2,565	75 12,206	00 9,980	50 11,202	50 1,137	490 00 455 00	00 640
RS).	1915.		_	20,000 00	18,000 00		1,000 00	1,000 00	2,000 00	\$205,500 00	(3 YEARS).	1915.	\$37,558 75	3,465 00	13,176 25	2,040 00		1,207 50	525 00	1,040 00
TURITIES ON FUNDED DEBT (3 YEARS)		•							•		ED DEBT									
DEB		•	•		•	•	•	•	•	•	FUNDED		•	•		•				
FUNDE				•		•	•	•	•	•	NTS ON		•	•			•	•	•	•
TIES ON		•	•	•	•	•	•	•	•	•	REQUIREMENTS		•	•	•	•	•	•	•	•
		•	•	•	•		•		•	•							•		•	
MA		•	•			٠	•	•		٠	INTEREST		•	•	•	•	•	•		•
		•	•	•	•	•	•	•	•	•	H		•	•	•	•	•	•		
	Class of Loan.	City	Municipal	Sewer	Highway	Public Buildings .	Bridge	Metropolitan Park	Water	Totals		Class of Loan.	City	Municipal	Sewer	Public Buildings .	Highway	Bridge	Metropolitan Park	Water

*Actual on present debt. Estimate for 1917 loans not included.

Totals

BORROWING CAPACITY DECEMBER 31, 1916.

Valuation, 19 Supplementar							\$74,946,894 179,300		
Valuation, 191 Supplementar		.'					77,217,399 227,000		\$75,126,194 00
Valuation, 191 Supplementar	6 .	•	•	•	•	•	79,304,329 141,400	00	77,444,399 00
Dappiementar	,	•	•	•	•	•			79,445,729 00
Abatements, Abatements,	1915						\$521,700 526,907	$\begin{array}{c} 00 \\ 00 \end{array}$	\$232,016,322 00
Abatements,	1916		•	•	٠		437,827	00	\$1,486,434 00
									\$230,529,888 00
Average valua Two and one- Present debt	-half p	er ce	ent.	ears •	•			•	\$76,843,296 00 1,921,082 40 1,673,000 00
Borrowing Maturities:—	g capa	city I	Decer	nber	31, 19	916			\$248,082 40
January 1, 1 April 1, 1917 July 1, 1917		•	•	· • \$7	: 2,500	· 00	\$38,000 116,000		
Less outside		٠	•	-	5,000		67,500	00	
October 1, 1 Less outside		•	•		6,000 4,000		2,000	00	
Maturities	in 19	l7 wi	thin	limit			• •	•	\$223,500 00
Total mat	urities	on F	unde	d De	bt in	1917	7		\$471,582 40 \$232,500 00

OVERLAY ACCOUNTS.

OVERLAY, 1912.

OVERL	AA, 1912	4.			
Credits. Balance January 1, 1916		•	•		\$56 39
Charges. Transfer to Excess and Deficiency	<i>T</i>				\$56 39
Transition to Encock and Bonorency	•	•	•	•	φου υσ
OVERL	AY, 1918	3.			
Credits.	,		•		
Balance January 1, 1916		•			\$6,081 66
Charges.					
Abatements	•		\$118	02	
Transferred to Reserve, Surplu	ıs fron	n	F 004		
Overlay	•	•	5,285		
Transfer to Excess and Delicient	<i>y</i> .		678	00	\$6,081 66
					φυ,υστ υυ
over1.	AY. 191	4.			
Credits.	,				
Balance January 1, 1916			\$5,524	65	
Tax paid after abatement	•	•		26	
					\$5,526 91
Charges.					
Abatements		•	\$1,499	03	
Transferred to Reserve, Surplu Overlay	is iroi	n	938	87	
*Transfer to Excess and Deficience	·	. '	3,089		
	,	·			\$5,526 91
OVERL	AY. 191	5.			
Credits.					
Balance January 1, 1916					\$10,168 05
Charges.				19	14.11 4 14 4 4
Abatements	• •	•	•	•	5,845 13
Balance December 31, 1916 .	•				\$4,322 92
OVERL	AY, 1910	6.			
Credits.					#10 off0 9H
Taxes, 1916	• •	•	•	•	\$18,270 37
Charges.					
Abatements					9,995 50
D 1 01 101					40.074.07
Balance December 31, 1916		•	•	•	\$8,274 87
*Collections on supplementary tax warra	ants,				0 0 .

RESERVE FUND, SURPLUS FROM OVERLAY.

Credits. From Overlay, 1913	\$6,224 45
Charges. Appropriated for Special State Aid	\$3,000 00
Balance December 31, 1916	\$3,224 45
EXCESS AND DEFICIENCY. Credits.	
Balance January 1, 1916	\$28,140 02 71,912 52
Charges. Transfer to reduce Tax Levy \$20,000 00 Abatements Special Assessments, 1915 . 16 55 Abatements 1915 Water Charges 29 22	\$100,052 54 \$20,045 77 \$80,006 77

CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

RECEIPTS.

It.		T 1 12 0				
General Revenue.						
Taxes:—				¢1 200 262	60	
Taxes, 1916	•	•	•	21// 200	40	
Taxes 1914	•	•	•	866	37	
Taxes, 1914 Taxes, previous years .	•	•	•	117		
Brom State:—						
Corporation				47.822	64	
National Bank	•			4,127	73	
Corporation National Bank Street Railway	•			26,944	89	
Licenses and Permits.						
Licenses:—				786	00	
Amusement	•	•	•			
Junk	•	•	•			
Milk	· lleve	•	•	338		
Sunday	iicys	•	•	305		
Innholders and victuallers				86		
Sunday	·	·		337	00	
Pedlers, Health Department All Other		·		371	00	
Permits:—						
				1,044	00	
Marriage				18	00	
Garages				346		
All Other	•			29	00	
Fines and Forfeits.						
				2 602	10	
Court fines	•	•	•	2,002	00	
	•	•	•	240	00	
Grants and Gifts.						•
From State, Vocational School	ols			5,894	15	
From State, Vocational School From County, dog licenses.				2,831	40	
Total General Revenue						\$1,809,484,58
					•	ψ2,000,101 00
Commercial Revenue—Special	Asses	sme	nts.			
For Expenses:—						
Street Sprinkling, 1916 .				\$27,642	45	
Street Sprinkling, 1916 . Street Sprinkling, 1915 . Moth Assessments, 1916 .				8,198	00	
Moth Assessments, 1916.	•	•		1,492	50	
Moth Assessments, 1915.	•	•	•	838	75	
For Outlays:—				1 450	4.0	
Sewers, 1914 and 1915 .	•		•	1,450		
Sidewalks, 1914 and 1915.	•	•	•	13,923		
Sidewalks, 1916	1015	•	•	4,871		
Street Betterments, 1914 and Street Betterments, 1916.	1919	•	•	15,323 3,400		
Privileges:—	•	•	•	5,400	00	
Street Railway Excise .				11,674	21	
Direct Railway Excise .	•	•	•			
Total Commercial Revenue-	-Spe	cial	Ass	sessments		\$88,816 05
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~ P (,,			
Carried forward						\$1,898,300 63
	•			•		, =,==,===

Brought forward .							\$1,898,300 63
Commercial Revenue-De							
General Government:-							
Treasurer					\$6,942	59	
A					13	00	
City Clerk	•	•	•	•	13 1,114	00	
Engineering	•	•	•	•	35	00	
Protection of Persons and	d Prot	Serts	· ·	•	90	00	
Police Department:—	d I I O	crey	•				
Cloth					437	31	
Rent of Court Room	•	•	•	•	1,000		
Fire Department	•	•	•	•	1,000		
Contag of Whights and	Mona		•	•	547		
Cloth Rent of Court Room Fire Department . Sealer of Weights and Health and Sanitation:—	weas	ures	•	•	9-17	11	
Contagious Hospital Health Department, ge	•				10.000	00	
Contagious Hospital	1	•	•	•	12,962		
Health Department, ge	eneral	•	•		277		
Inspection	•	•	•	•	350		
Sewers Maintenance	•	•	•		22	47	
Sewers Construction:	_						
Revenue	•	•		•	490		
Revenue Outlay	•				150	00	
Sanitary Department:-							
Garbage					10,099	65	
Garbage Incinerator					405	00	
Highways:							
Labor and Materials					3,803	14	
Construction:—					<i>'</i>		
Pavement					692	50	
Sidewalks	· ·				328		
Sprinkling	•		•	•	60		
Sprinkling Rent of tenements .	•	•	•		240		
Charities:—	•	•	•	•	240	00	
Almshouse:—							
					4,068	94	
Sale of produce, etc.	•	• •	•	•	1,422		
Board Outside Relief:—	•	•	•	•	1,442	90	
Outside Kener:—					A 17	10	
individuals	•	•	•	•	47		
Individuals Cities and towns . State Mothers' Aid:—	•	•	•	•	7.466		
State	•	•	•	•	3,729	59	
Mothers' Aid:—							
State	A	•	•		6,252		
Cities and towns.			•		4,615	04	
Soldiers' Benefits:—							
State Aid		•			14,638	50	
Military Aid Soldiers' Burials .					152	00	
Soldiers' Burials .	•				550	00	
Soldiers' Relief .					24	00	
Schools:—							
Tuition state wards					733	56	
Other tuition					3,370		
Rent High School Hall					1,876		
Miscellaneous			Ť			10	
Libraries:—	•	•	•	•	v	10	
					1,422	61	
Fines, etc Recreation:—	•	•	•	•	1,144	OI	
					100	00	
Parks	•	•	•	•	25		
Playgrounds	•	•	•	•			
Bathhouse	•	•	•	•	482		
Shower baths	•	•	•	•	179	OĐ	
C : 1 (1				-	¢01.20°	10	¢1 000 000 00
Carried forward.	*	•	•	•	\$91,325	10	\$1,898,300 63

Brought forward Unclassified:— Electrolysis State, in lieu of ta Sale of land			•	•		\$9	500 64 322	00 86	\$1,898,300 63
Total Commercia	1 Re			_				•	\$92,212 02
Commercial Revenue- Water Department:		olic	Servi	ce L	nter	prises	•		
Sale of Water:—						Ф10	1 710	0.5	
Metered, 1916 Metered, 1915		•	•	•	•		1,718 0,468		
Annual, 1916 .	•			·		5	2,886	12	
Additional . Service Assessment	•	•	•	•	•		1,830		
Maintenance bills	S	•	•	•	•		3,837 2,875	53 37	
		Ť	· _		,				
Total Commercial prises .		venı					Ente	er-	\$243,616 23
-				•	•	•	•	•	φ245,010 25
Commercial Revenue-						ф1	1 1=0	> → >~	
Deposits Taxes		•	•	•	•	\$1 1	1,178 0,763	23	
Special assessments						•	462	35	
Trust funds .	•		•	•	•		1,132	21	
Total Commercia	1 Re	veni	16	ntere	ct				\$23,536 56
Total Commetcia	1 1/	A CITT	10-1	** • • • •	10 L	•			
		vem	.10—1			•	•	•	Ψ20,000 00
Municipal Indebtedne		vem	.rc—1		.ot	•	•	•	φ20,000 00
Municipal Indebtedne Temporary Loans: Anticipation of revo	ss.					41.00		. 00	428,000 00
Municipal Indebtedne Temporary Loans:— Anticipation of revo	ss.	٠	•			\$1,22	0,000		<i>428,000</i> 00
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer	ss.	•	•	•		\$1,22°	0,000	00	<i>428,000</i> 00
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer Highway Public Building	enue	•	•	•		\$1,22 1 15 12	0,000 8,000 0,000 3,000	00 00 00	<i>428,000</i> 00
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer	enue	•	•	•	•	\$1,22 1 15 12	0,000 8,000 0,000	00 00 00	<i>428,000</i> 00
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer Highway Public Building	enue		•		•	\$1,22 1 15 12	0,000 8,000 0,000 3,000	00 00 00	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer Highway Public Building Premiums on loans Total Municipal I Agency, Trust and Inv	ss. enue	· · · ·	·		•	\$1,22 1 15 12	0,000 8,000 0,000 3,000	00 00 00	
Municipal Indebtedne Temporary Loans:— Anticipation of revo General Loans:— Sewer Highway Public Building Premiums on loans Total Municipal I Agency, Trust and Inv Agency:—	enue	· · · · · · · · · · · · · · · · · · ·	·		•	\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698	00 00 00 43	
Municipal Indebtedne Temporary Loans:— Anticipation of reve General Loans:— Sewer Highway Public Building Premiums on loans Total Municipal I Agency, Trust and Inv Agency:— Redemption of tax	enue	· · · · · · · · · · · · · · · · · · ·	·		•	\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698	00 00 00 43	
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of revolution of revolution of revolution in the second	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698	00 00 00 43	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of reve General Loans:— Sewer Highway Public Building Premiums on loans Total Municipal I Agency, Trust and Inv Agency:— Redemption of tax	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698	00 00 00 43	
Municipal Indebtedne Temporary Loans:— Anticipation of reve General Loans:— Sewer Highway Public Building Premiums on loans Total Municipal I Agency, Trust and Inv Agency:— Redemption of tax Hunt fund principal Total Agency, Tr Refunds.	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 	00 00 00 43 	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of the second	enue ndeb vestm title		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 	00 00 00 43 	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of the second	enue ndeb vestm title ust :		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 2,124 702 \$68 2,236	00 00 00 43 	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of the second	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 	00 00 00 43 	\$1,513,698 43
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of the second of the	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 2,124 702 \$68 2,236 169	00 00 00 43 	\$1,513,698 43 \$2,826 86
Municipal Indebtedne Temporary Loans:— Anticipation of revolution of the second of the	enue		· · · · · · · · · · · · · · · · · · ·			\$1,22 1 15 12	0,000 8,000 0,000 3,000 2,698 2,124 702 \$68 2,236 169	00 00 00 43 	\$1,513,698 43

EXPENDITURES.

GENERAL GOVERNMENT.

deliteriae dove	
Board of Aldermen Expenses.	Expenses. Outlays.
Board of Aldermen Expenses. Books, stationery and postage . \$9 Printing and advertising	00.86
Printing and advertising . 18	89 90
Auto hire, carfares, etc	76 00
Ketreshments 5	38 35
Badges 1	14 75
All other	6 39
Clerk of Committees Department.	
Salaries and Wages:—	
Clerk \$1.40	00 00
Clerk	00 00
Other Expenses:—	
Books, stationery and postage	56 74
Printing and advertising. Telephone	12 00
Telephone	1.070.40
Executive Department.	1,870 48
Salaries:—	· ·
Mayor \$2,50	00.00
Secretary	00 00
Other Expenses:—	
Books, stationery and postage 1	17 72
Printing and advertising .	90 90
Auto hire, carfares, etc	21 00
Refreshments	51 19
Refreshments	88 66
All other	08 10 50 76
All other	4,697 33
A Per David	1,007 88
Auditing Department.	
Salaries:—	20.00
Auditor	00 00 21 00
Clerks	16 00
Other Expenses:—	10 00
Books, stationery and postage 12	23 78
Printing and advertising 40	67 51
Telephone	45 86
All other	5 06
T D : 1	4,289 21
Treasury Department.	
Salaries and Wages:—	20.00
Treasurer and collector \$3.00	00 00
	00 00
	26 76
Other Expenses:—	
Books, stationery and postage 2,3	43 44
Printing and advertising . 1,2'	76 75
Carfares, teams, etc	70 20
Telephone 1	58 12
C 1 f 1	75 97 011 979 97
Carried forward \$13,9	75 27 \$11,873 27

Brought forward	4		. \$13,975	27	\$11,873 27
Bonds		•	965	600	φ11,010 21
Attending con		•	. 400	004	
Attending con	vention	•	. 45	00	
Bonds . Attending con All other .	•	•	. 148	5 58	
					14,432 50
Assessors' Depar	tment.				
Salaries:-					
Chairman .			. \$2,000	. 00	
A (f		•	2,000	00	
Assessors (fou Assistant asses	r) .	•	3,200	00	
Assistant asses	ssors .	•	. 1,500	00	
Clerks (office)			4,332	57	
Assistant asses Clerks (office) Clerks (street) .	. "	. 318	00	
Other Expenses:					
Books stations	erv and i	nostag	e 347	79	
Books, statione Printing and ac	dverticing	r	017	83	
Conformed and ad	1161118	ś ·	. 912	60	
Carfares, auto	nire.	•	. 36	00	
Telephone All other .		•	. 37	42	
All other.		•	. 79	11	
					12,764 32
Certification of N	lates and	Rond	c		,
Certifying .			. \$725	00	
					725 00
Recording Asses	sments.				
Recording side				0.5	
ments		•	. \$140	25	
					146 25
City Clerk's Dep	artment.				
Salaries and Wa					
City clork	gc., .		\$2,000	00	
City clerk Assistant city	-11-	•	• φο,υυυ 1 077	1.4	
Assistant city	cierk	•	. 1,270	14	
Clerks .		•	1,850	26	
Clerks . Other Expenses:					
Books, statione	ery and p	ostag	e 320	40	
Printing and a	dvertisiñ	g	. 45	21	
Telephone			. 144	91	
Revenue stam	• •	•	20	00	
Revenue stamp	98 .	•	. 20 . 145	00	
Typewriter All other	• ' •	•	. 140		
All other		•	. 39	53	
					6,840 45
Registration of C	City Labo	rers.			
Salaries:—	Louis		ሲ ያስስ	00	
Registration c		•	. \$300	UU	
Other Expenses:					
Stationery and	postage		. 14	70	
					314 70
Law Department.	,				
Salaries:—					
City solicitor			. \$2,100	00	
Claim agent	•	•	. \(\psi_{100}\)	00	
	•	•	. 100	00	
Other Expenses:			_	~^	
Stationery and				50	
Printing and a	dvertisin	g .		80	
Witness fees				00	
Recording dee	ds .		. 11	36	
Clerical hire			. 104		
All other				59	
All Other	•	•	. 50		2,442 25
					2,442 23
					¢40 500 54
Carried forward				•	\$49,538 74

Brought forward	. \$49,538 74
Salaries:—	
Messenger	
Other Expenses:—	'
Books, stationery and postage 16 10	
Books, stationery and postage 16 10 Auto and supplies 1,509 46	
Telephone 22 30	
Telephone	
	- 3,064 36
Engineering Department.	
Salaries and Wages:-	
City engineer \$3,000 00)
Assistants 6,648 29	
Clerk	
)
Other Expenses:— Books, printing, stationery	
and postage 193 83	8
and postage 193 83 Telephone 103 98	
Telephone	
Instruments and equipment . 107 21	
Carfares 193 90	
Carfares	
All other 87 78	Ď
	- 12,328 15
Public Buildings Department, Commission	ner
of Public Buildings.	
Salaries and Wages:—	
Commissioner \$2,182 20) 1
Salaries and Wages:— Commissioner \$2,182 26 Inspector of plumbing 1,200 06 Clerks 842 92))
Other Expenses:—	•
Books, stationery and postage 151 82	
Printing and advertising 76 33	
Telephone 135 31	
Auto supplies 218 44	l .
Typewriter	5
Typewriter)
	- 4,918 35
Maintenance Municipal Buildings (City I	dall
and City Hall Annex).	
Salaries and Wages:— Janithors \$3,003 31	
Labor	
Other Expenses:—	,
Fuel and light 3,082 87	7
Janitors' supplies	
Furniture and furnishings . 1,121 03	
Repairs:—	
Building 1,004 28	
Heating apparatus 9 71	
All other 144 17	
C' NI DI	- 8,922 91
City Planning Board.	
Stationery and postage \$7.40	
Attending convention 10 00	
Central Heating Plant.	- 17 40
Final payment on contract . \$1,879 59	\$1,879 59
That payment on contract . \$1,079 09	φ1,079-99
Carried forward	. \$78,789 91 \$1,879 59
	1 -, 0 - 0

Brought forward		\$78,789 91	\$1,879 59
Salaries and Wages:—	ቀ ደብብ ብብ		
Clerks	. \$500 00		
Books, stationery and postage	e 247 44		
Printing and advertising Auto hire, carfares, etc.	. 789 55		
Refreshments	. 46 10		
Repair of ballot boxes .	. 56 15 . 72 60		
All other	. 12 00	1,992 84	
Election Expenses, Registrars o	f Voters.	•	
Registrars	. \$815 00		
Salaries and Wages:—	. 219 00		
Clerks	. 750 00		
Other Expenses:—			,
Books, stationery and postage Printing and advertising	e 88 23 . 594 00		
Refreshments	. 15 09		
Auto hire	. 36 00	0 #17 90	
Election Expenses, Pay of Election	ion Officers	2,517 32	
Salaries and Wages:—	on Omeers.		
Warden and clerks .	. \$1,125 00		
Inspectors	. 2,697 00	3,822 00	
Public Buildings Department, Po	olling Places.		
Labor	. \$103 85		
Teams	. 159 00		
Rent Lumber	. 232 50 . 1 38		
Lumber Hardware	. 80		
Fuel and light	. 22 73		
All other	. 35 25	555 51	
PROTECTION OF P	ERSONS AN	D PROPERTY.	
Police Department.			
Salaries and Wages:—- Chief	. \$2,253 27		
Captain and lieutenants.	9,310 45		
Sergeants and inspectors	. 5,252 24		
Patrolmen	. 86,045 98 . 157 80		
Matron and assistant matron			
Other employees Horses and Care of Same:	. 3,204 25		
Horses and Care of Same: Hay, grain and straw .	. 159 46		
Shoeing	. 108 00		
All other	. 233 45		
Equipment and Repairs:— Automobile and motor cycle	s 623 29		
Equipment for men .	. 658 10		
All other	. 7 39		
Carried forward	\$108,797 60	\$87,677 58	\$1,879 59
	1200,000	401,011 00	Ψ2,510 00

Brought forward	\$108,797 60	\$87.677.58	\$1,879 59
Other Expenses:—	p100,101 00	φο ι,στι σο	φ1,019 09
Books, printing, stationery and			
postage	310 65		
prisoners			
Telephone	258 77		
Laundry			
Attending convention All other	$\begin{array}{cccc} 45 & 00 \\ 369 & 64 \end{array}$		
All other		109,965 31	
Public Buildings Department, Ma	aintenance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Police Buildings.			
Salaries and Wages:-	ф1 0°0 00		
Janitors	\$1,353 03 128 50		
Labor	1,065 74		
Janitors' supplies	113 59 45 55		
Furniture and furnishings	$45\ 55$		
Repairs:—	208 93		
Buildings	208 93 7 30		
Heating apparatus Resurfacing yard	7 30 553 87		
All other	31 93		
Fin- Donastment		3,508 44	
Fire Department.	•		
Salaries and Wages:— Chief engineer Assistant engineers	\$2,402 18		
Assistant engineers	3,205 45		ı
Firemen	88,438 64		
Callmen	4,031 98		
Temporary and emergency men	2 514 75		
Horses and Care of Same:—	2,02,1 10		
Harnesses and horse clothing	55 03		
Hay, grain and straw	3,195 08		
Shoeing	787 60 $112 05$		
All other	2 11		
All other			
Apparatus	1,734 80		
Hose	$ \begin{array}{r} 419 & 79 \\ 55 & 19 \end{array} $		
Power	4 30		
Hardware, tools, etc	295 59		
All other	20 83		
Other Expenses:— Books, printing, stationery			
and postage	131 58		
Telephone	55 37		
Attending convention Janitors' supplies	42 60		
Furnishings	$\begin{array}{ccc} 231 & 12 \\ 53 & 54 \end{array}$		
Laundry work	258 38		
All other	335 27		
Supplies:—	100.00		
Grease, oil	$ \begin{array}{ccc} 182 & 03 \\ 614 & 00 \end{array} $		
Gusonne		1	
Carried forward \$	109,179 32	\$201,151 33	\$1,879 59

Brought forward \$109,179 32 \$201,151 33 Soda and acid 192 28	\$1,879 59
Soda and acid 192 28 Fuel 28 00 All other	
All other 139 10	
\$109,538 70	
Less service transfer for horse	
sold to the highway de-	
partment	
Public Buildings Department, Maintenance	
Fire Buildings.	
Labor	
Janitors' supplies 33 75	
Janitors' supplies 33 75 Furniture and furnishings 322 94	
Repairs:—	
Buildings 1,450 33 Heating apparatus	
Heating apparatus	
Flag pole	
7,935 36	
Fire Department, Additional Apparatus.	
Labor and materials \$63 58	
Chassis 3,600 00	
Pumping engine 7,500 00	
Chassis 3,600 00 Pumping engine 7,500 00 Fittings	
All other 93 08	
	11,379 76
New Building, Fire Alarm Signal System.	
Contract for construction \$16,433 00	
Blueprints and specifications . 17 69	
Water service 93 63 Plumbing 696 72	
Plumbing 696 72 Heating apparatus 1,231 00 Fire alarm equipment 12,000 00 Floatrical supplies and features	
Fire alarm equipment 12,000 00	
Electrical supplies and fixtures 382 85 Furniture and furnishings 335 75	
Furniture and furnishings 335 75	
All other	31,242 90
Militia.	01,212 00
Rifle range \$462 22	
462 22	
Weights and Measures Department. Salaries and Wages:	
Sealer \$1,100 00	
Deputy sealer 1,000 00	
Other Expenses:—	· · ·
Books, stationery and postage 28 61	
1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Printing and advertising . 42 33	
Carfares 25	6
Carfares	•
Carfares	6
Carfares	·

\$337,994 62 \$45,704 42

Draught forward	¢2 684 65	\$218 SS7 61	\$44.502.25
Brought forward	15 10	φοιο,οοι υι	\$11,002 ZU
All other	1,7 10	2,699 75	
El 1 D		2,000 10	
Electrical Department.			
Salaries and Wages:	(h1 000 00		
Commissioner	\$1,600 00		
Clerk	40 00 4,949 75		
	4,949 73		
Other Expenses:— Fire alarm signal system .	1 362 05		
Police alarm system	5.80		
Police alarm system Automobile and maintenance .	883 36		
Telephone	77 03		
Printing, advertising, station-			
ery and postage	65 04		
ery and postage All other	45 41		
		9,028 44	
Electrical Department, Undergro	und Wires		
Labor	\$919.75	'•	
Labor	241 69		
All other	40 73		
			1,202 17
Public Buildings Department, Ma	aintenance		·
Electrical Department Building			
	_		
Inuitore' supplies	7 13		
Furniture and furnishings	58 77		
Fuel	24 90		
		213 20	
Suppression of Moths.			
Labor	\$3,433 51		
Printing, stationery and postage	70 59		
Printing, stationery and postage Hired teams	199 79		
Hardware, tools and equipment	63 12		
Insecticides	222 29		
All other	30 80		
C CT		4,020 10	
Care of Trees.	40.100		
Labor			
Hired teams	590 77		
Hardware, tools and equipment Lumber	93 22	•	
A 11 / 1	$\begin{array}{ccc} 31 & 11 \\ 27 & 51 \end{array}$		
All other	27 31	3,145 52	
		0,110 02	
HEALTH AN	D CANITAT	TION	
HEALTH AN	D SANITAL	ION.	
Health Department.			
General Administration:			
Salaries and Wages:—			
Agent	\$1,438 52		
Clerks	1,362 66		
Medical inspector	2,000 00		
Acting medical inspector .	287 09		
Chauffeur	366 00		

. \$5,454 27

Carried forward .

Brought forward			
	\$5,454 27	\$337.994_62	\$45,704 42
Books. printing, stationery and	T-,	4001,001 02	Ψ10,.01 1=
books, printing, stationery and	050 00		
postage	253 82		
Telephone	193 35		
All other	59 05		
Or was the seal Court wise. Disc	00 00		
Quarantine and Contagious Dise	eases:—		
Board and Treatment:—			
Cities and towns	1 286 06		
Tub annulacia	1,200 00		
Tuberculosis:—			
Board and Treatment:—			
Cities and towns	816 35		
Ctata			
State	2,245 20		
State	312 00		
Other Expenses:—			
Laboratory supplies	104 55		
Day supplies	104 00		
Delivering cultures Vaccination	12 90		
Vaccination	2 45		
Rurving dead animals	76 25		
Auto ambulance maintenance	004 26		
Attending convention	94 10		
All other	2 50		
in other	2 00	11,797 21	
		11,797 21	
City Clerk's Department, Vital S	to tinting		
-			
Canvassing and reporting births	\$727 80		
Reporting deaths	177 95		
Reporting deaths Printing and advertising	47 77		
Printing and advertising.	47 00		
Books and supplies	$109 \ 35$		
All other	65		
in other	00		
		1,062 60	
C			
Contagious Hospital.			
Salaries and Wages:—	¢1 000 00		
Salaries and Wages:—	\$1,000 00		
Salaries and Wages:—	\$1,000 00 7,700 13		
Salaries and Wages:—	\$1,000 00 7,700 13		
Salaries and Wages:— Matron Nurses and other help Physicians' services	\$1,000 00 7,700 13 150 00		
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:—			
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments,			
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments,			
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments,			
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments,			
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions	305 22 83 70 6,827 71	t	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions		t	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc.	305 22 83 70 6,827 71	t	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and	305 22 83 70 6,827 71 136 18	t	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils	305 22 83 70 6,827 71 136 18 1,204 51		
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone	305 22 83 70 6,827 71 136 18 1,204 51 79 53		
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone	305 22 83 70 6,827 71 136 18 1,204 51 79 53		
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils	305 22 83 70 6,827 71 136 18 1,204 51		
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Matrone	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Macontagious Hospital.	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Matrone	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, MacContagious Hospital. Salaries and Wages:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90 e	
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, MacContagious Hospital. Salaries and Wages:— Janitor and labor	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92	17,693 90 e	· ·
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Mathematical Contagious Hospital Salaries and Wages:— Janitor and labor Other Expenses:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	· ·
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Macontagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	, F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, Mathematical Contagious Hospital Salaries and Wages:— Janitor and labor Other Expenses:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	, F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	ŗ
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	· ·
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	, F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	· F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:— Buildings	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 ————————————————————————————————————	17,693 90 e	, F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:—	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:— Buildings Heating apparatus	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 	17,693 90 e	F
Salaries and Wages:— Matron Nurses and other help Physicians' services Other Expenses:— Drugs, medicines, instruments, etc. Dry goods and clothing Groceries and provisions Mattresses, etc. Other general supplies and utensils Telephone All other Public Buildings Department, M Contagious Hospital. Salaries and Wages:— Janitor and labor Other Expenses:— Fuel Light Janitors' supplies Furniture and furnishings Repairs:— Buildings	305 22 83 70 6,827 71 136 18 1,204 51 79 53 206 92 ————————————————————————————————————	17,693 90 e	\$45,701 42

1 44	\$3,561 15 61 12	\$368,548	33	\$45,704 42
		3,622	27	
Inspection of Animals and Provi	sions.			
Salary of inspector	\$1,300 00			
Other Expenses:—	00.00			
Telephone	26 38	1,326	38	
Inspection of Milk and Vinegar.		1,020	90	
Salaries:—				
Inspector	\$1,700 00			
Milk collector	522 86			
Other Expenses:— Printing, stationery and post-				
age	90 33			
Maintenance of auto	475 86			
Equipment and supplies	255 97			
Telephone	29 91			
All other	45 91	3,120	9.1	
Inspection of School Children.		3,120	04	
Salaries:—				
Inspectors	\$1,600 00			
School nurse				
Other Expenses:				
Printing, stationery and post- age	20 10			
All other	$\begin{array}{ccc} 20 & 10 \\ 32 & 55 \end{array}$			
		2,432	65	
Sewers Construction.				
Salaries and Wages:—	#00F 04	•		
Inspector	\$235 31			
Labor	1,629 03			
Contracts for sewers	4,508 60			
Contracts for storm drains .	1,870 50			
Hired teams	627 47			
Pipe and fittings				
Gravel, sand, brick and cement Castings	708 82			
All other	115 76			
				12,527 94
Engineering Department, Sewers	Maintenan	ice.		
Salaries and Wages:—	doco #4			
Inspector	\$289 74			
Labor	9,525 42			
Hired teams	6,596 90			
Tools and equipment	615 28			
Sand, brick and cement.	39 73			
Pipe and fittings	27 08			
Castings	$\begin{array}{ccc} 20 & 46 \\ 35 & 73 \end{array}$			
Power and care of Medford	50 10			
Street pump	127 94			
All other	66 15		1.5	
		17,344	43	
Carried forward		\$396,394	90 -	\$58,232 36
Extrins section 4	•	Adoplant	26	A00'808 90

Brought forward			90	\$58,232 36
Public Buildings Department, Sewer Buildings.	Maintenance			
Salaries and Wages:—				
Labor	. \$35 65			
Labor Other Expenses:—	,			
Fuel	. 20 00			
Light	. 16 60			
repairs	. 38 71 . 22 87			
m other	. 22 01	133	83	
Highways, Refuse Disposal.		100	00	
General Administration:—				
Superintendent	. \$458 96			
Frinting and stationery.	. 5 00			
Telephone	. 12.76			
All other	. 70			
Labor	. 25.861 10			,
Labor	. 11,629 33			
Equipment Stable Expenses:—	. 412 84			
Stable Expenses:—	0.500.05			
Hay, grain and straw .	. 2,532 25			
Snoeing	106 42			
Hay, grain and straw . Shoeing Equipment All other	5 20			
-		41,136	49	
Sanitary Department.		,		
General Administration:— Superintendent Bookkeeper Printing and stationery .				
Superintendent	. \$1,074 76			
Bookkeeper	. 133 77			
Telephone	. 00 24 17 42			
Telephone	2 40			
Ashes, Rubbish and Garbage:-	_			
Ashes, Rubbish and Garbage:- Labor Hired teams Equipment	. 40,786 09			
Hired teams	. 13,279 23			
Equipment	. 770 72			
Equipment	33 07			
Stable Expenses:—	. 00 01			
Horses	. 1,950 00			
Hay, grain and straw .	. 4,634 85			
Shoeing	. 157 35			
Equipment	. 514 12 . 53 25			
All other	. 35 25	64,063	28	
DIL BULL D.	N/K - *	01,000	20	
Public Buildings Department, l Refuse Buildings.	Waintenance			
	. \$64 00			
Labor	. 91 88			
Light	. 222 94			
Lumber	. 88 92			
Furniture and furnishings.	. 121 50			
Repairs	. 680 47			
All other	. 4 90	1,274	61	
	-			
Carried forward		\$503,003	11	\$58,232 35

Brought forward		\$503,003,11	\$58,232 36
Street Cleaning.	• •	φουσ,υυσ 11	φου,202 συ
Labor	\$18,914 61		
Hired teams	5,805 69		
Equipment	179 27	94 900 57	
		24,899 57	
Highway Maintenance.	HWAYS.		
General Administration:—			
	\$2,400 00		
Bookkeeper and clerk	1,733 33		
Printing, stationery and post-			
age	119 96 221 50		
Telephone	1.257 03		
All other	15 75		
General:—	00 == 1 = 0		
	32,671 20		
Hired teams	257 34		
etc	1,435 67		
etc	ŕ		
cement	443 99		
Lumber	264 20 2,340 45		
Fuel	749 90		
Oil and waste	339 38		
Horses	200 00		
Hay, grain and straw	8,273 57		
Shoeing	194 74		
Harnesses and horse clothing.	281 52		
All other	128 93		
Other Expenses:—	00.41		
Signs	96 41		
Taxes, City of Waltham .	185 40		
All other	$253 \ 40$		
Less service transfers for teams	55,391 18		
furnished other depart-			
ments	14,331 23		
		41,059 95	
Highways Construction, New Str	eets.		
Labor	\$2,597 76 543 65		
Tools and equipment.	259 50		
Paving blocks, edgestones and			
circles	3,844 41		
Brick, stone, gravel and cement Asphalt and tarvia	1,636 93 1,353 62		
Contracts	6,674 28		
Land damages	450 00		
Fence, Davis Square	211 53		
Printing and advertising Recording documents	$\begin{array}{ccc} 128 & 50 \\ 45 & 90 \end{array}$		
Recording documents	177 74		
			17,923 82
Cominal formant		\$560,000,00	Ф76 156 10
Carried forward		\$568,962 63	\$76,156 18

Brought forward		\$568,962 63	\$76,156 18
Highways Construction, Perman	ent Paveme	nt.	
Labor	. \$6,226 07		
Hired teams Tools and equipment. Paving blocks Brick, stone, gravel and cemen	. 2,402 98		
Paving blocks	. 098 87 . 775 30		
Brick, stone, gravel and cemen	t 8,042 27		
Asphalt, tarvia, etc	. 3,065 99		
Contracts	. 55,949 13		
All other	. 92 69		77,213 30
Highways Construction, Macada		t.	77,210 00
Labor	. \$8.550 02		
Hired teams	. 4,142 66		
Hired teams	. 2,069 63		
Crushed stone	. 6,769 92 11 146 96		
All other	. 239 20		
			32,918 39
Sidewalks Construction.	*****		
Labor	. \$6,526 96		
Tools and equipment	. 1,797 12		
Brick, stone and cement.	. 3,161 42		
Edgestone and curbs	. 930 20		
Contracts	. 14,733 58		
All other	. 83 35		27,482 49
Highways Sidawalls Maintana			21,402 40
Highways, Sidewalks Maintenar	. \$3,479 69		
Labor			
Tools and equipment	. 16 00		
Brick, stone, gravel and cement	t 680-39		
Paving blocks	54 20		
Paving blocks	. 9 05	5,125 80	
Highways, Street Sprinkling.		0,120 00	
Labor	. \$4,655 22		
Hired teams	. 3,375 86		\$
Equipment and repairs . Oil and other dust layers .	491 34 21,831 64		
Contracts water carts .	1,193 34		
Use of sprinkler car	3,152 41		
Maintenance water posts .	. 144 53		
All other	164 52	35,008 86	
Street Lighting.			
_		00,000 00	,
Electric lighting in accordance	2	30,000 00	
Electric lighting in accordance with contract	\$51,000 00	·	
with contract	\$51,000 00	61,000 00	
with contract	\$51,000 00	·	
with contract	\$51,000 00 ———— aintenance	·	
with contract	\$51,000 00	·	
Public Buildings Department, M Highway Buildings. Labor	\$51,000 00 aintenance \$190 00	·	
with contract	\$51,000 00 aintenance \$190 00 211 53	·	\$213,770 36

Brought forward			\$648	73	\$670,097 29	\$213,770 36
Hardware			4		, ,	• •
Lumber		•	. 59	98		
Repairs:—			210	-		
Buildings		•	610			
Heating apparatus		•	38 121			
Furniture and furnish All other	_	•	10			
All other		•	10		1,495 06	
New Highway Buildin	σ.				1,100 00	
Contract	.5.		\$250	00		
Labor		•	32			
		·				282 00
		СНА	RITIES.			
Poor Department.						
Advance for immedia	te aid	•	\$300	00	900 00	
					300 00	
Poor Department, Mis		eous.				
General Administration)n:—		φ1 = 00	00		
Agent	•	•	\$1,700			
Secretary Clerk	•	•	700 700			
Books, printing,	statio	nerv	700	00		
and postage	Statio	iici y	168	61		
Telephone .		•	110			
All other			10			
Outside Relief:-						
City physician .			1,500	00		
Acting city physicia	ın.		60			
Board and care			2,014			
Cash	:	•	16,633			
Groceries and prov	1510115	•	13,208	61		
Coal and wood Cash allowances	•	•	1,129	11		
Cash allowances		•	258 15			
Dry goods and clot: Medicine and medicine	uiig .	and.	10	90		
	ai all	enu-	233	84		
NT		•	95 8			
State institutions			912			
Somerville Hospital			2,272			
Contagious Hospital			130			
Other institutions			222	28		
Burials			356 (
All other			56 4	42		
Relief by Other Cities	and T	owns				
Cities		•	6,334			
Towns	•	•	847	00		
Mothers' Aid:—			2.007 (20		
Cities and towns	•	•	2,087	วย 	51,759 62	
Poor Department, City	Hom	•			01,100 02	-
Salaries and Wages: Warden and matro			\$1,350 (00		
Domestic labor		•	1,997			
Farm labor .			1,572			
- 4111 10301	•					
Carried forward .		,	\$4,920 ()4	\$723,651 97	\$214,052 36

Brought forward .				
	٠	\$4,920 04	\$723,651 97	\$214,052 36
Other Expenses:—		9.400.41		
Groceries and provisions Dry goods and clothing		3,408 41 361 50		
Drugs and medicine.		118 93		
Household furnishings	s and			
supplies Farm equipment and s		151 09		
Live stock	uppnes	426 59 137 94		
Garbage		374 10		
Hay, grain, straw and	feed .	1,058 66		
Horse shoeing . Harness and horse clot		49 10		
Seeds and fertilizer	ning .	7 50 167 16		
Telephone		61 69		
Books, stationery and p				
All other	• •	306 60	11,593 41	
DIL DIL D	. 3.4	-• .		
Public Buildings Departm City Home Buildings.	•	aintenance	-	
Labor		\$273 18		
Fuel		1 110 00		
T * 1 .		200 00		
Furniture and furnishings	s	23 65		
Repairs:— Buildings		310 74		
Heating apparatus .		1 03		
All other		1 03 1 90	1.00%.01	
			1,925 81	
Public Buildings Departm	ent, Ci	tv Home		
	•	.,		
Sprinkler System.				
Payment on contract		\$2,308 00		
Plumbing		\$2,308 00 7 10		
Payment on contract		\$2,308 00		
Payment on contract Plumbing Paint Water service		\$2,308 00 7 10 12 00		2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital.		\$2,308 00 7 10 12 00 277 60		2,604 70
Payment on contract Plumbing Paint Water service		\$2,308 00 7 10 12 00	7,000 00	2,604 70
Payment on contract Plumbing		\$2,308 00 7 10 12 00 277 60 \$7,000 00	ŕ	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor	LDIER	\$2,308 00 7 10 12 00 277 60 	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General	LDIER	\$2,308 00 7 10 12 00 277 60 	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:—	LDIER	\$2,308 00 7 10 12 00 277 60 	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent	LDIER	\$2,308 00 7 10 12 00 277 60 \$7,000 00 S' BENEFIT inistration.	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages: Agent Clerk	LDIER	\$2,308 00 7 10 12 00 277 60 	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent Clerk Temporary clerk . Other Expenses:—	LDIER	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$300 00 650 00 32 00	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent Clerk Temporary clerk . Other Expenses:— Telephone	LDIER	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$300 00 650 00 32 00 12 03	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent Clerk Temporary clerk . Other Expenses:—	LDIER	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$300 00 650 00 32 00	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent Clerk Temporary clerk . Other Expenses:— Telephone	LDIER	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$300 00 650 00 32 00 12 03	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages: Agent Clerk Temporary clerk Other Expenses: Telephone All other Soldiers' Relief. Soldiers' benefits	LDIER:	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$7,000 00 650 00 32 00 12 03 37 55 \$21,008 45	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages:— Agent Clerk Temporary clerk Other Expenses:— Telephone All other Soldiers' Relief.	LDIER:	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$7,000 00 650 00 32 00 12 03 37 55 \$21,008 45	TS.	2,604 70
Payment on contract Plumbing Paint Water service Somerville Hospital. Aid to sick poor Soldiers' Benefits, General Salaries and Wages: Agent Clerk Temporary clerk Other Expenses: Telephone All other Soldiers' Relief. Soldiers' benefits	LDIER:	\$2,308 00 7 10 12 00 277 60 \$7,000 00 \$7,000 00 650 00 32 00 12 03 37 55 \$21,008 45	TS.	2,604 70

D 1. C 1	φ = 00.00 =	0= 0010 0FF 00
Brought forward	. \$766,237	67 \$216,657 06
Soldiers' benefits \$310	00	
	310	00
State Aid.		
Soldiers' benefits \$14,108		
	— 14,108	00
State Aid Special (Mexican Border). Soldiers' benefits \$2,384	26	
Soldiers beliefits	2,384	36
Soldiers' Burials.	2,001	
Burials \$464	00	'
•	 464	00
EDUCATION		
School Contingent.	•	
Salaries and Wages:—		
Superintendent	00	
Clerks 3,093		
Truant officer 1,350	00	
All other 244	66	
General Expenses:—		
Printing, stationery and postage	0.4	
age	34	
Telephone	12	
Telephone 694 Traveling expenses	15	
Mimeograph	00 76	
All other 162 Textbooks and Supplies:—	10	
Text and reference books . 8,848	02	
Printing and stationery 7,341	02 65	
Machinery and equipment . 3,352		
Supplies		
Tuition	47	
Support of truants 615		
Other Expenses:—		
Diplomas and graduation exer-		
cises 383	58	
Miscellaneous printing and ad-		
vertising		
Auto maintenance 201		
Power		
All other 76		00
School Teachers' Salaries.	— 36,504	09
	e z	
Day schools	บอ ะก	
Evening schools 7,568		15
Maintenance School Buildings, Janitors'		10
Salaries.		
Janitors' salaries \$33,326	34	
	— 33,326	34
Maintenance School Buildings, Fuel an	d	
Light.		
Fuel		
Light 5,465		00
	— 27,158	92
Carried forward	\$1.940.006	12 \$910.057.00
Carricu forward.	. \$1,240,096	13 \$216,657 06

Brought forward		\$1,240,096 13	\$216,657 06
Maintenance School Buildings, I	Buildings		
Labor	¢6 100 04		
Labor	\$6,199 84		
Furniture and furnishings	3,894 94		
	1,630 04		
Repairs:—	() 000 *0		
	9,339 59		
Heating apparatus	2,098 35		
All other	252 31		
Power	245 45		
	2,380 46		
Telephone	$ \begin{array}{cccc} 20 & 00 \\ 715 & 00 \end{array} $		
New automobile	715 00		
Auto maintenance			
All other	1,375 19		
		28,215 98	
S. Newton Cutler School Addition	n.		
Electrical work	\$6 00		
			6 00
New School Building, East Some	erville.		
Labor	\$39 20		
Contract for construction	18,611 58		
Electric wiring and telephone	0.10 70		
system	849 50		
Heating and ventilating system	6,087 30		•
Water service	92 56		
Plumbing Piping Fixtures Furniture and furnishings	2,865 12		
Piping	195 45		
Fixtures	265 00		
Furniture and furnishings .	4,138 12		
nardware and state	895 99		
Blueprints, specifications, etc.	13 55		
All other	$155 \ 41$		
			34,206 38
N C 1 1 Decilion H-11 - 1 C			
New School Building, Holland S			
Architect	\$3,250 83		
Contract for construction .	30,431 70		
	1,530 00		
Water service	222 43		
All other	168 20		
			35,603 16
Boys' Industrial School Addition	•		
Architect	\$202 50		
			202 50
DILL DILL D	1 .17		
Public Buildings Department, Sc	hoolhouse	es	
Sprinkler System.			
Installation sprinkler system .	\$1,661 12		
Plumbing	22 89		
Water service	258 44		
.,	100 11		
Carried forward	\$1,942 45	\$1,268,312 11	\$286,675 10
- Curricu vortium u · · · · · · · · · · · · · · · · · ·	ψ <u>-</u> ,σ <u>-</u> 10	7-,0,012 21	4.00,000 10

Duran lat famous	1				¢1.040.45	¢1 000 910 11	\$900 675 10
Brought forwar All other .					\$1,942 45 \$ 00	\$1,208,312 11	\$280,075 10
						•	1,948 45
Public Buildings Sprinkler Sy			ent,	Hi	gh School		
Labor				•	\$76 00		
Labor Payment on con Extra sprinkler	tract	•	•	•	500 00 85 00		
Extra sprinkler	5	•	•	•			661 00
Bingham School	house	Sho	wer	B	aths.		
Carpenter work		•	•	•	\$299 94		
Plumbing . Slate bath stalls	•	•	•	•	591 68 130 00		
State Dath Statis	•	•	•	•	150 00		1,021 62
Bell School Add	itiona	al La	nd.				·
Land	•	•			\$3,412 80		0.440.00
							3,412 80
Building Public	Build	lings.			ቀ ደ29 ብብ		
Claims for dam	ages	•	•	•	\$55Z 99		532 99
							002 00
		SCF	1001		TRUST FL	JNDS.	
S. Newton Cutle							
Books and mag	azine	S	•	•	\$392 55	202 55	
						392 55	,
			LI	BR	ARIES.		
Central Library.							
Salaries and Wa	_						
Librarian	•	•	•	•			
Assistants Books, Periodica	ds E	tc :	•	۰	12,650 57		
Books .					5,772 91		
Periodicals	•			•	682 67		
Music .	•	•	•	•	80 23 1,031 03		
Binding . Other Expenses	·	•	•	•	1,051 05		
Printing and a	dvert	ising			310 40		
Stationery and	1 pos	tage		•	479 90		
Telephone	•	•	•	•	121 87		
Cards . Express .	•	•	•	•	629 72 102 45		
General suppli	ies	•	•	•	86 72		
Agencies .	•				42 38		
Typewriter	•	•	•	•	59 10		
Traveling expe	enses	•	•	•	147 11 52 91		
All other.	•	•	•	•	32 91	24,999 97	
Public Puilding	Dan	art	on t	N/I	aintenana		
Public Buildings Central Libra	_	artin	ent,	141	amtenance		
Janitors .					\$1,510 00		
Labor .				•	32 50		
Fuel	•		٠.	•	627 34		
0 . 1 . 1						A4 000 mg4 00	
Carried forward					\$2,169 84	\$1,293,704 63	\$294,251 96

Brought forward		\$9 160 84	\$1 203 704 62	\$294,251 96
Brought forward Light Furniture and furnishings	•	1 204 07	φ1,290,104 05	\$29 4 ,251 90
Eumitum and fumishings	•	1,204 07		
Tariffure and furnishings	•	101 10		
janitors supplies	•	104 51		
Repairs:—		100 =0		
Building	•	166 79		
Heating apparatus		90 76		
All other		6 25		
			- 3,983 40	
West Somerville Branch Libra	rv.		ŕ	·
	1. y.			
Salaries and Wages:—		Φ4 400 OC		
Assistants	•	\$4,469 96		
Books, Periodicals, Etc.:—				
Books		1,361 91		
Books		308 65		
Music		10 96		
Music		345 02		
Other Expanses:				
Printing and advertising Stationery and postage. Telephone General supplies		13 00		
Stationery and nostage	Ť	13 00 32 36 43 20		
Talanhone	•	43 20		
Congret applies	•	7 00		
General supplies	•	101.67		
Express	•	101 67		
All other	•	6 27	0 W00 00	
			6,700 00	
n ili n ili n	3.4			
Public Buildings Department,			е	
West Somerville Branch I	Libr	ary.		
Janitor		\$794 00		
		17 73		
Labor	•	265 65		
Light	•	384 10		
Furniture and furnishings.	•	69 38		
	•	08 00		
Repairs:—		140.00		
Building		146 00		
Heating apparatus	•	14 03		
All other	•	54 25		
			1,745 14	
East Somerville Branch Librar	~37			
	y •			
Salaries and Wages:—		#0.000 #1		
Assistants	•	\$2,022 51	•	
Books, Periodicals, Etc.:—				
Books	•	635 00		
Periodicals		112 81		
Binding		179 26		
Other Expenses:—				
Printing and advertising		1 75		
Stationery and postage.	Ĭ	19 45		
Telephone	•	30 19		
General supplies	•	5 00		
	•	93 31		
Express	•	90 01	2 000 20	
			3,099 28	
Public Buildings Department,	Ma	intenance		
East Somerville Branch Li				
	DIG	-		
Janitor	•	\$265 00		
Labor	•	6 25		
Carried forward		\$271 25	\$1,309,232 45	\$294,251 96

Brought forward	\$294,251 96
Furniture and furnishings	
Building 82 16 Rent	
Union Square Branch Library. 687 40	
Salaries and Wages:	
Assistants \$2,045 83 Books, Periodicals, Etc.:	
Books	
Binding	
Other Expenses:—	
Printing and advertising . 1 75 Stationery and postage 35 07	
Telephone 29 31	
General supplies 4 88	
Express	
Public Buildings Department, Maintenance	
Union Square Branch Library.	
Lauitor \$564.06	
Labor 11 62	
B1161	
Light	
Repairs	
All other 37 75	
	
Land, East Somerville Branch Library.	
Land \$4,500 00	
Highway betterment assessment 79 92	4,579 92
DUBLIC LIBRARY TRUCT SUMPO	1,010 02
PUBLIC LIBRARY TRUST FUNDS.	
Martha R. Hunt, Art Fund.	
Pictures, vases, etc \$47 35 Marble border for Foss Memo-	
rial	
Martia B. Hart Back Front	
Martha R. Hunt, Book Fund. Books \$125 52	
——————————————————————————————————————	
Martha R. Hunt Fund, Principal.	
Deposited in Warren Institu-	
tion for Savings \$702 77	
Foss Memorial	
Isaac Pitman, Art Fund.	
Books and pictures \$219 30	
219 30	
Carried forward	\$298,831 88

Brought forward		\$1,315,625 33	\$298,831 88
Isaac Pitman, Poetry Fund.	DE 1 D D		
Books	. \$74 70	74 70	
R	ECREATION.		
Engineering Department, Pa	arks Maintena	nce.	
Labor	. \$63 95		
Equipment	. 263 99		
Trees, shrubs, plants, etc	. 1,375 88		
Repairs	. 925 42		
All other	. 111 44	0.700.00	
		9,798 86	
Public Buildings Department Park Buildings.	t, Maintenance	•	
- A	¢000 0 7		
Labor	. \$293 07		
Hired teams	. 31 00 . 73 18		
Fuel	174 84		
Repairs	27 40		
All other	107 02		
		706 51	
Park Building, Lincoln Park	Addition		
Contract for construction.			
Contract, shower baths .			
Heating apparatus			
Piping			
Slate	0.45 00		
Slate	. 55		
All other	. 22 46		
			1,706 01
Engineering Department, Pl	aygrounds Ma	in-	
tenance.			
Labor			
Hired teams	. 281 78		
Hired teams	. 184 82		
Other repairs	. 76 25		
Hardware and lumber	. 88 31 . 23 70		
Constructing bathing booth			
Fountain, Broadway Field	50 41		
All other	. 20 05		
		3,424 41	
School Department, Summer	Playgrounds.		
Instructors	. \$1,538 00		
Labor	. 106 20		
Hired teams	. 12 50		
Apparatus and equipment.	. 424 00		
Band	. 61 60		
Sand	. 37 80		
All other	. 119 90	0.000 ===	
		2,300 00	
Carried forward		\$1,331,929 81	\$300,537 89
Carried forward.	•	ψ1,001,020 01	ψουυ,υστ οθ

Brought forward					\$1,331,929	21 (\$300,537 89
Field House, Somerv	· · · · · · · · · · · · · · · · · · ·	719	•	•	φ1,001,020	,	φουσ,σο ι σο
·	ine rae	iu.	Φ.	40			
Blueprints	•	•		42 00			
wictal lockers .	•	•					60 42
Public Buildings Dep	artmen	t. M	aintena	nce			
Bathhouse.		,					
Salaries and Wages:	_						
Attendants .			\$885	75			
Labor				00			,
Other Expenses:—			000	05			
Bathing suits . Towels	•	•	323	95 40			
Laundry	•	•	305				
Repairs			102	46			
All other		•	27	74	4 = 40 4	20	
					1,743 3	30	
New Bathhouse, Mys	tic Riv	er.					
Architect			\$135	00			
Payment on contract			2,380				
							2,515 00
Independence Day.							
Celebration		•	\$500	00	* 00	0.0	
			-		500	00	
Reception to Compan	ies K	and !	M.				
Decorating			\$83	50			
Catering		•	457				
Music Printing, etc	•	•	125	48			
i i i i i i i i i i i i i i i i i i i	•	•		40	683 9	98	
	u	NCL	ASSIFIE	ED.			
Memorial Day.							
G. A. R			\$350	00			
Spanish war veteran	s .	•	75	00			
** ** **					425 (00	
Municipal Documents			Φ1 B0B	0.0			
Printing annual repo	orts .	•	\$1,393	66 05			
Postage	•	•		44			
All other				42			
					1,489 8	57	
Workmen's Compens							
Compensation .			\$2,215				
Medicine and medical	attend	lance	224	65	9.440	: 0	
Pensions.					2,440 8	าฮ	
Janitors			\$1,944	11			
Police			6,309				
Fire			3,727	92			
Health			145	49			
Carried forward.			\$12,126	83	\$1,339,212	$\frac{-}{25}$	\$303,113 31
Janua Tormara .	•		Ψ==,==0	30	ψ1,000,212		4000,110 01

Brought forward .		. \$12.126_83	\$1.339.212 25	\$303,113,31
Laborers:—		7 ,	7-,000,	4000,220 02
Highway		. 2,807 51		
Water		. 725 57		
· · · · · ·	·		15,659 91	
Damage to Persons and	Pore	sonal Propert	· · · · · · · · · · · · · · · · · · ·	
			· y ·	
Settlement of claims.	•	. \$4,252 18	4.050.40	
*			4,252 18	
DALLE	VICIDA	AL INDEBTE	DNESS	
Interest.	TICIFA	AL INDEBIE	DNESS.	
Temporary Loans:— Anticipation of revent	4.0	\$94,006,79		
General Loans:—	ie.	. \$24,000 12		
Comor		19 709 75		m-6
Sewer	•	0.747.50		
Municipal	•	3,747 30 3,747 30		
City	•	31 769 75		
Bridge	•	1 179 50		•
Bridge	•	. 1,172 00		
Public buildings	•	7 240 00		
Martha R Hunt Art Fu	nd .	18 20		
Maitha R. Hunt Mit I'm	iiu .	. 10 20	90,167 42	
Reduction of Funded De	aht		90,107 42	
	ebt.			
General Loans:—		¢90,000,00		
Sewer	•	. \$20,000 00		
Municipal	•	10,000,00		•
Highway	•	121 500 00		
City	•	1 000 00		
Matropolitan ports	•	1,000 00		
Metropolitan park .	•	. 1,000 00		
Public building	•	. 8,000 00		
			207,500 00	
	١٨/ ٨ ٦	TED WODES		
Water Maintenance.	WAI	TER WORKS		
Administration:—				
		¢9.200.00		
Commissioner Clerks	•	. \$2,300 00		
		. 4,266 50		
Printing, stationery a		USL- 1 207 00		
age	•			
Telephone Adding machine .	•	. 185 31 . 249 90		
	•	. 249 90		
Attending convention All other		. 84 88		
General:—	•	· 01 00		
Labor		. 28,207 05		
Hired teams	•	. 28,207 03		
Pipe and fittings .	•	6,243 34		
Meters and fittings	•	. 1,011 44		
Hydrants and fittings	•	. 622 22		
Equipment and repair		. 1,641 67		
Automobiles and sup	nlies	. 3,539 01		
Horses, feed and sho		. 823 91		
Freight	cing	. 38 54		
Lead	•	. 570 44		*
Castings	•	. 1,213 90		
All other	•	. 793 52		
zin omer	•			
Carried forward		. \$53,290 36	\$1,656,791 76	\$303,113 31
Carried for ward	•	. 400,200 00	φ1,000,101 10	φουσ,110 σ1

Brought forward \$53,290 36	\$1,656,791 76	6 \$303,113 31
Less service transfers for teams furnished other depart-		
ments	52,976 10	0
Water Works Extension.		
Labor		
Hydrants and fittings 164 13		
Meters and fittings 4,503 32		
Tools and equipment 99 30		100
Contract, trench work 632 11	16,235 74	1
Public Buildings Department, Maintenance	· ·	ı
Water Buildings.	-	
Labor		
Fuel 328 54		
Light 282 98		
Repairs:— Buildings 168 28		
Heating apparatus		
All other 8 27		
	1,224 50	6
Interest.		
Water loans \$840 00	840 00	n
Reduction of Funded Debt.	010 0	, , , , , , , , , , , , , , , , , , , ,
Water bonds , . \$5,000 00	•	
	5,000 00	
Metropolitan Water Assessment.		
Assessment \$110,468 29		
	110,468 29	9
74		
OTHER ACCOUNT	TS.	
Temporary Loans.		
Loans in anticipation of		
revenue \$1,320,000 00	4 000 000	
Real Estate Liens.	1,320,000 00	0
Titles purchased by city \$66 17		
Recording deeds 4 75		
	70 99	2
State Taxes.		
State tax \$127,360 00		
State highway tax		1
Non-resident bank tax 2,190 74	130,340 74	1
Metropolitan and Other Assessments.	100,010 7	*
Metropolitan park assessment . \$40,259 07 Metropolitan sewer assessment . 67,511 00		
Wellington bridge assessment . 3,087 49		•
Grade crossing assessment 13,861 56		
Corried forward \$194.710.10	¢2 902 040 1	1 0000 110 01
Carried forward \$124,719 12	\$3,293,948 1	1 \$303,113 31

Brought forward \$124,719 12 Charles River Basin assessment 6,616 78 Alewife Brook assessment 1,255 23 Abatement of smoke assessment 294 67 Fire prevention assessment 1,363 54 Auditing municipal accounts assessment 823 40	\$3,293,948 11	\$303,113 31
Soldiers' exemption assessment. 46 28		•
	135,119 02	
County of Middlesex.		
County tax, 1916		
	82,190 71	
Cash Refunds.		
Taxes		
Special assessments 207 61		
Water rates 233 80	ñ1 ¹⁷ 9.4	
	917 34	
PRIVATE TRUST.		
Redemption of Tax Liens.		
Sundry persons, redemption of		
tax titles \$2,124 09		
	2,124 09	
Total expenditures	¢2 514 200 .97	¢202 112 21
Total expenditures	\$5,514,299 21	\$303,113 31

EXPENDITURES FOR TWO YEARS.

1916	Outlays.	\$1.879 59			155,820 00			77,594 90	4,579 92		•	•	•	•	•			\$303,113 31	\$3,514,299 27 303,113 31	\$3,817,412 58
1916	Expenses.	\$87.677 58			143,689 67											917 34	_	 \$3,514,299 27	• •	•
1915	Outlays.	•	\$1,345 05	13,679 08	141,322 62	•	•	62,295 46	•	•	•	•	•	•	•	•		\$218,642 21	• •	1 1916
1915	Expenses.	\$84,272 99	247,644 27	184,553 79	127,650 15		37,745 96								1,123,765 55	703	1.423 21	\$3,279 216 05	Expenses . Outlays .	Grand Total 1916
		•	•	•	•	•	•	•	*•	•	•	•	•	•	•	•	•	•	ЩО	
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
		•	٠	•	•	٠	٠	•	٠	•	•	٠	•	•	٠	٠	•	•	5 05 2 21	3 26
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	\$3,279,216 218,642	\$3,497,858
		•	٠	•	٠	•	•	•	•	٠	•	•	•	•	•	•	•	•	⊗	, (%)
		•	•	•	•	•	•	•	•	•	•	•	•	•	etc.)	•	•	•	• •	•
		•	erty	•	•	•	•	•	•	•	•	•	•	•	ans,	•	•	•	• •	•
		•	Prof			•					•	•		1	Lo	•	•	•	• •	•
			nd											unts	rary					•
		•	ns a	on.	Ť		•		•	·	·	ıess	•	Acco	npol	•	tles	•		
		nent	ersoi	itati	•	•	· S	٠	•	•	• .	tedi	•	ty 1	(Te	٠		•		191
		ernn	f Pe	San	٠		neht	•	•	•	•	ndeb	KS.	onn	nts	•	Tax	٠	• •	otal
		Gov	0 110	nd	S	ſ	Be	n		u Č	peu		Vor	ب ص	con		ion			i T
		General Government	Protection of Persons and Property	Health and Sanitation	Highways	Charities	Soldiers' Benefits	Education	Libraries	Kecreation	Unclassified	Municipal Indebtedness	Water Works	State and County Accounts	Other Accounts (Temporary Loans	Refunds	Redemption Tax Titles	Total	Expenses Outlays	Grand Total 1915

SCHEDULE OF PUBLIC PROPERTY.

						Land and			
School 1	Buildings	· .				Buildings.		Personal.	Totals.
Prescott			•			102,700 00		\$3,000 00	\$105,700 00
Hanscom						\$66,500 00)	1,500 00	68,000 00
Davis						27,000 00)	6,000 00	33,000 00
Clark Bei	inett					44,500 00)	3,500 00	48,000 00
Cummings		٠				13,400 00)	1,200 00	14,600 00
*High .			•			360,000 00)	30,000 00	390 ,000 00
Glines			•			88,400 00)	5,000 00	93,400 00
Forster						59,000 00		8,000 00	102,000 00
Forster (Annex)				35,000 00)		
Morse			•		٠	54,000 00)	5,000 00	59,000 00
Carr .			•		٠	57,600 00)	5,000 00	62,600 00
Durell						20,400 00)	1,500 00	21,900 00
Burns						39,000 00)	3,000 00	42,000 00
Brown					٠	72,000 00)	2,500 00	74,500 00
Highland			•		٠	66,600 00)	5,000 00	71,600 00
Lowe				c		46,000 00)	2,000 00	48,000 00
Hodgkins						93,700 00)	5,000 00	98,700 00
Lincoln		٠				19.800 00)	1,000 00	20,800 00
Cutler						98,700 00)	9,000 00	107,700 00
Bingham						73,000 00)	5,000 00	78,000 00
Edgerly						43,000 00)	5,000 00	48,000 00
Knapp			•			50,000 00)	5,500 00	55,500 00
Baxter		٠				32,800 00)	1,500 00	34,300 00
Perry						42,000 00		1,500 00	43,500 00
Bell .						43,900 00		5,000 00	48,900 00
Prospect	Hill		•			16,000 00)		16,000 00
Pope		٠	•			78,600 00)	5,000 00	83,600 00
†Proctor	•		•			44,000 00)		44,000 00
East Som	erville	e	Junior	Hig	h				
School	1					62,000 00)	3,000 00	65,000 00
West Son	nervill	e	Junior	Hig	h	ŕ		·	
Schoo	1		•			80,000 00)		80,000 00
Total					\$1.	,929,600 00) \$	128,700 00	\$2,058,300 00
*I and incl	udod in	-	ontwal Will	I Don't	l-				

^{*}Land included in Central Hill Park.

[†]Building and fixtures. Land owned by state.

Central \$47,700 00 \$103,000 00 \$178,200 00	Fire Buildings.				
*Includes Electrical Department equipment.	New fire alarm Engine Two Engine Six Hose Five . Ladder One Hose Eight Ladder Two		37,000 00 29,000 00 21,500 00 60,000 00 10,400 00 17,600 00	8,500 00 20,000 00 7,500 00 10,500 00 7,700 00 15,000 00	45,500 00 49,000 00 29,000 00 70,500 00 18,100 00 32,600 00
†Central \$125,000 00 \$100,000 00 \$225,000 00 West Somerville Library 30,000 00 6,000 00 36,000 00 Total \$159,600 00 \$106,000 00 \$265,600 00 Miscellaneous Buildings. Highway (stables, etc.) \$55,000 00 \$30,000 00 \$85,000 00 Sewer 6,700 00 1,500 00 \$2400 00 Contagious and Tuberculosis 45,900 00 9,000 00 54,900 00 Hospital 45,900 00 9,000 00 54,900 00 City Home 92,400 00 17,000 00 109,400 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 3,100 00 Lincoln 4,000 00 4,000 00 50,000 00 Bathlouse 5,000 00 50,000 00 50,000 00 Broadway 21,000 00 6,500 00 53,200 00 Polling booths 1,800 00 \$252,700 00 \$712,300 00 <td>*Includes Electri</td> <td></td> <td></td> <td>\$179,200 00</td> <td>\$449,400 00</td>	*Includes Electri			\$179,200 00	\$449,400 00
West Somerville Library	Libraries.				
Miscellaneous Buildings. Highway (stables, etc.) \$55,000 00 \$30,000 00 \$85,000 00 Sewer 6,700 00 1,500 00 8,200 00 Contagious and Tuberculosis Hospital 45,900 00 9,000 00 54,900 00 City Home 92,400 00 17,000 00 109,400 00 Police 64,000 00 8,000 00 72,000 00 †City Hall 52,000 00 149,000 00 201,000 00 †City Hall Annex 62,000 00 12,500 00 74,500 00 Parks:— Broadway 3,100 00 3,100 00 10,000 00 Lincoln 4,000 00 4,000 00 40,000 00 Bathhouse 5,000 00 53,200 00 50,000 00 Sanitary 21,000 00 19,200 00 40,200 00 Water 46,700 00 6,500 00 53,200 00 Polling booths 1,800 00 \$252,700 00 \$712,300 00 †Land included in Central Hill Park. Parks and Playgrounds. Broadway \$421,200 00 \$252,700 00	West Somervill		. 30,000 00	6,000 00	36,000 00
Highway (stables, etc.)	Total .		\$159,600 00	\$106,000 00	\$265,600 00
Sewer	Miscellaneous B	uildings.			
Hospital	Sewer .		. 6,700 00		
Broadway	Hospital City Home Police †City Hall †City Hall Anne		45,900 00 92,400 00 64,000 00 52.000 00	17,000 00 8,000 00 149,000 00	109,400 00 72,000 00 201,000 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 \$2,700 00 \$2,000 00 84,700 00 Prospect Hill 69,800 00 1,500 00 71,300 00 Tufts 109,000 00 109,000 00 109,000 00 Paul Revere 1,000 00 5,100 00 5,100 00 City Field 70,900 00 70,900 00 70,900 00 Glen Street 17,300 00 17,300 00 17,300 00 Kent Street 12,000 00 12,000 00 90 Poplar Street 5,500 00 3,000 00 3,000 00 Webster Avenue 3,000 00 3,000 00 3,000 00	Broadway Lincoln . Bathhouse Sanitary . Water .		. 4,000 00 . 5,000 00 . 21,000 00 . 46,700 00	19,200 00 6,500 00	4,000 00 5,000 00 40,200 00 53,200 00
Parks and Playgrounds. Broadway \$421,200 00 \$421,200 00 Central Hill 472,000 00 472,000 00 Lincoln \$2,700 00 \$2,000 00 84,700 00 Prospect Hill 69,800 00 1,500 00 71,300 00 Tufts 109,000 00 109,000 00 109,000 00 Paul Revere 1,000 00 5,100 00 5,100 00 City Field 70,900 00 70,900 00 70,900 00 Glen Street 17,300 00 17,300 00 17,300 00 Kent Street 12,000 00 5,500 00 5,500 00 Beacon Street 3,000 00 3,000 00 3,000 00 Webster Avenue 3,000 00 3,000 00 3,000 00				\$252,700 00	\$712,300500
Broadway \$421,200 00 \$421,200 00 Central Hill 472,000 00 472,000 00 Lincoln \$2,700 00 \$2,000 00 84,700 00 Prospect Hill 69,800 00 1,500 00 71,300 00 Tufts 109,000 00 109,000 00 109,000 00 Paul Revere 1,000 00 5,100 00 5,100 00 City Field 70,900 00 70,900 00 70,900 00 Glen Street 17,300 00 17,300 00 17,300 00 Kent Street 12,000 00 5,500 00 5,500 00 Beacon Street 3,000 00 3,000 00 3,000 00 Webster Avenue 3,000 00 3,000 00 3,000 00			ii i aik.		
	Central Hill Lincoln Prospect Hill Tufts Paul Revere Belmont Street City Field Glen Street Kent Street Poplar Street Beacon Street Webster Avenue Mason Street		. 472,000 00 . 82,700 00 . 69,800 00 . 109,000 00 . 1,000 00 . 5,100 00 . 70,900 00 . 17,300 00 . 12,006 00 . 5,500 00 . 3,000 00 . 4,200 00	\$2,000 00 1,500 00	472,000 00 84,700 00 71,300 00 109,000 00 1,000 00 5,100 00 70,900 00 17,300 00 12,000 00 5,500 00 3,000 00 4,200 00
Somerville Field					

Miscellaneous Land	M	isc	ella	ne	011	s I.	and
--------------------	---	-----	------	----	-----	------	-----

Vinal Avenue land .			\$3,500 00		\$3,500 00
Somerville Avenue .			300 00		300 00
Powder House Boulevare	d .		400 00		400 00
Murdock Street			600 00		600 00
Spencer Avenue			100 00		100 00
Broadway			4,200 00		4,200 00
Endicott Avenue .			600 00		600 00
Weston Avenue .			2,200 00		2,200 00
Lowell Street			100 00		100 00
Putnam Street			400 00		400 00
Broadway	·		5,900 00		5,900 00
Ledge, Holland Street	•		FF 004 00		55,000 00
Gravel land, Waltham	•	•	10,000 00		10,000 00
Graver land, wattham	•	•	10,000 00		10,000 00
T-4-1			фор 200 00		\$62.200.00
Total	•	•	\$83,300 00	• • • • • • •	\$83,300 00
Sewers					\$1,331,420 00
Water Works	•				\$1,037,800 00
Traces Trongs	•	•	•	• • •	φ1,001,000 00

SUMMARY.

	Laı	nd and Buildin	gs. Person	ıal.	Total.
School Buildings .	•	\$1,929.600 00	\$128,700	00	\$2,058,300 00.
Fire Buildings	•	. 270,200 00	179,200	00	449,400 00
Libraries		. 159,600 00			265,600 00
Miscellaneous Buildings		. 459,600 00			712,300 00
Parks and Playgrounds		1,316,700 00		00	1,339,200 00
Miscellaneous	•	. 83,300 00)		83,300 00
Total	•	\$4,219,000 00	\$689,100	00	\$4,908,100 00
Sewers					1,331,420 00
					1,037,800 00
Total value public	c pr	operty .			\$7,277,320 00

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Somerville, Mass., January 25, 1917.

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

Gentlemen: I have the honor to present herewith the annual report of the Treasury department, showing the condition of the treasury, cash receipts and disbursements for the year 1916, together with the statements and information relative to the financial operations of the city.

CONDENSED CASH STATEMENT.

RECEIPT	S.	PAYMEN'	TS.
Revenue Non-revenue	\$3,482,697 59 294,024 76		\$3,524,112 39 293,300 19
Cash balance Jan-	\$3,776,722 35	Cash balance De-	\$3,817,412 58
uary 1, 1916 .	241,231 12	cember 31, 1916 .	200,540 89
	\$4,017,953 47	-	\$4,017,953 47

DETAILED CASH STATEMENT.

RECEIPTS.

Balance from	1915		•		•			\$241,231 12
Revenue.								
Taxes, 1912				\$2	00			
1913				115	62			
1914				866	37			
1915				314,309				
1916				1,399,262				
			_			\$1,714,556	08	
Street sprinklin	g. 1915			\$8,198	00	• • • • • •		
Street opening	1916			27,642				
		•	_			35,840	45	
Suppression of	moths.	1915		\$838	75	,		
Cuppi control	,	1916		1,492				
		1010				2,331	25	
Assessments:-						-,		
Highway, 191				\$383	75			
19:				14,939				
193		·	Ů	3,400				
10.		•	·_			18,724	01	
Sidewalk, 191	4			\$1,555	28	,	-	
193		·	·.	12,368				
191		•		4,871				
101		•				18,795	70	
Sewer, 1914				\$683	60	10,.00	• •	
1915	•	•	į	766				
1010	•	•				1,450	40	
Amounts carrie	ed for	ward	•			\$1,791,697	59	\$241,231 12

Amounts brought forward. Metered water charges, 1915 Sale of land	(advances,	\$1,791,697 59 20,468 37 322 00 15,348 50	\$241,231 12
Vocational Schools In lieu of taxes County of Middlesex, dog licens Courts:— Police		90,569 50 5,894 15 64 86 2,831 40	;
Departmental penalties Licenses (from departments) Edison Electric Illuminating Co., Water:— Sales, 1916 Miscellaneous	: : : : : : : : : : : : : : : : : : :	2,602 19 245 00 4,460 50 500 00	
Services	\$10,763 23 462 35 11,167 29	223,147 86	
On bank accounts, city clerk Treasury Department, costs and Departmental deposits Departmental accounts Temporary loans Premium on bonds:—	fees	22,404 35 6,942 59 16,970 71 51,228 86 1,220,000 00	
Issue of January 1 April 1 July 1 July 1 Accrued interest on bonds:— Issue of January 1		643 50 1,567 28 197 50 290 15 959 29	
April 1 July 1 July 1 Trust Funds, Income:— School, S. Newton Cutler Library, S. Newton Cutler		479 11 13 89 155 56 219 44 43 86	
Martha R. Hunt, art Martha R. Hunt. (from fund) Martha R. Hunt, books . Isaac Pitman, art Isaac Pitman, poetry .	investment	149 14 702 77 494 77 175 16 43 80	
Wilder children's department General expenses (refunds).		857 60 857 60	3,482,697 59

Amount carried forward , , , , \$3,723,928 71

Amount brought forward	• • •	\$3,723,928 71
Non-Revenue.		
Bonds: Issue of January 1	\$143,000 00 88,000 00	
July 1	25,000 00	
July 1	35,000 00	
Redemption of tax liens	2,124 09 900 67	
Cuttay appropriation (offsets)		294,024 76
		\$4,017,953 47
PAYMENTS.		
Revenue.		
Taxes, 1914 refunds \$2 00 1915 refunds 138 37		
1916 refunds		
	475 93	
Street sprinkling, 1916, refunds	79 90	
Moth assessments, 1915, refunds . \$4 00		
1916, refunds . 2 50	0.50	
Highway agassaments 1016 refunds	6 50	
Highway assessments, 1916, refunds Water charges (prior years) refunds	$ \begin{array}{cccc} 121 & 21 \\ 28 & 72 \end{array} $	
Water charges (current year) refunds	205 08	
Water charges (current year) refunds . Advances, C. C. Folsom, agent	300 00	
Commonwealth of Massachusetts:—		
State tax \$127,360 00		
Assessments		
Bank tax (non-resident) . 2,190 74		
Soldiers' exemption		
Metropolitan water assessment 110,468 29	375,928 05	
County of Middlesex, county tax	82,190 71	
General expenses	1,439,079 76	
Interest:—	-, ,,,,,,,,,	
Temporary loans \$24,006 72		
Funded debt 66,982 50		
Hunt art fund 18 20	01.005 40	
Poduction of funded debt	91,007 42 212,500 00	
Reduction of funded debt	<i>212,000 00</i>	
School, S. Newton Cutler . \$392 55		
Library, Martha R. Hunt, art . 103 35		
Martha R. Hunt, art (from		
principal of fund) 500 00		
Martha R. Hunt, books . 125 52		
Isaac Pitman, art 219 30		
Isaac Pitman, poetry	1,415 42	
Martha R. Hunt, art, transferred to invest-	1,410 42	
ment	702 77	
	1,320,000 00	
Real estate liens	70 92	
_		3,524,112 39
Amount carried forward		\$3,524,112 39

Amount brought forward	. \$3,524,112 39
0.41	\$291,176 10 2,124 09
	293,300 19
Cash in office	\$3,817,412 58 \$2,909 15 197,631 74
	200,540 89
Revenue Cash.	\$4,017,953 47
General expenses	
Non-Revenue.	\$79,354 03
Outlay appropriations	121,186 86
	200,540 89
PAY ANGUE	
BALANCES.	
Cash advances, C. C. Folsom, agent	Debit. Credit. 200,540 89 1,500 00 2,707 54 343,800 71 1 75 8,587 65 445 25
Overlay and Abatement, 1915 Overlay and Abatement, 1916 Reserve Supplementary assessments, 1915 Highway betterment assessments, 1915 Highway betterment assessments, 1916 Sidewalk assessments, 1916 Sidewalk assessments, 1916 Sewer assessments, 1916 Metered water charges Commonwealth of Massachusetts (advances,	\$4,322 92 8,274 87 3,265 96 3,897 39 5,245 80 2,318 83 7,468 83 2,253 39 25,484 51
Soldiers' benefits)	16,958 36 3,428 42 104 27 400,000 00 121,186 86 1,729,000 00 316 39 119 74
Library, Martha R. Hunt, art	
Amounts carried forward \$2,3	853,743 59 \$2,266,636 03

Amounts brought forward \$2,353,743 59	\$2,266,636 03
Library, Martha R. Hunt (part of prin-	. , ,
cipal)	202 77
Library, Martha R. Hunt, books	550 60
Library, Isaac Pitman, art	103 53
Library, Isaac Pitman, poetry	6 49
Library, Frances A. Wilder (children's	
fund)	17 96
Premium on bonds	2,698 43
Accrued interest on bonds	169 45
Sundry persons	127 11
Excess and deficiency	80,006 77
Reserve fund (surplus from overlays) .	3,224 45
Trust Funds, School	5,000 00
Trust Funds, Library	20,414 58
Trust Funds, School (investment) . 5,000 00	
Trust Funds, Library (investment) 20,414 58	
40 070 150 17	фо ого 150 17
\$2,379,158 17	\$2,379,158 17
The assessors' warrant for the tax levy, assessed upon polls	
and property, April 1, 1917, including non-resident bank	
shares, was	\$1,787,731 73
and the tax rate established was \$21.40	
on each \$1,000.00 of the valuation, as	
on each \$1,000.00 of the valuation, as follows:—	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares 64,629 00	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares 64,629 00 Total valuation \$79,304,329 00	. 1 607 110 64
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	1,697,112 64
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	1,697,112 64 50,154 00
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares 64,629 00 Total valuation	50,154 00
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares 64,629 00 Total valuation	50,154 00 2,190 74
on each \$1,000.00 of the valuation, as follows:— Real estate	50,154 00 2,190 74 \$1,749,457 38
on each \$1,000.00 of the valuation, as follows:— Real estate	50,154 00 2,190 74 \$1,749,457 38 36,282 85
on each \$1,000.00 of the valuation, as follows:— Real estate	50,154 00 2,190 74 \$1,749,457 38
on each \$1,000.00 of the valuation, as follows:— Real estate	\$1,749,457 38 36,282 85 1,991 50
on each \$1,000.00 of the valuation, as follows:— Real estate	50,154 00 2,190 74 \$1,749,457 38 36,282 85
on each \$1,000.00 of the valuation, as follows:— Real estate	\$1,749,457 38 36,282 85 1,991 50
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	\$1,749,457 38 36,282 85 1,991 50
on each \$1,000.00 of the valuation, as follows:— Real estate	\$1,749,457 38 36,282 85 1,991 50 \$1,787,731 73
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	\$1,749,457 38 36,282 85 1,991 50
on each \$1,000.00 of the valuation, as follows:— Real estate \$69,972,100 00 Personal estate 9,267,600 00 Resident bank shares	\$1,749,457 38 36,282 85 1,991 50 \$1,787,731 73

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Total. \$326,277 75 1,752,723 34 475 93	\$2,079,479 28 1,714,556 08	\$364,923 20 18,414 95	\$346,508 25		Total, \$8,212 30 36,282 85 79 90	\$44,575 05 35,840 45	\$8,734 60 145 20	\$8,589 40
\$1,749,457 38 3,265 96 335 56	\$1,753,058 90 1,399,262 69	\$353,796 21 9,995 50	\$343,800 71		1916. \$36,282 85 79 90	\$36,362 75 27,642 45	\$8,720 30 132 65	\$8,587 65
\$323,680 97 	\$323,819 34 314,309 40	\$9,509 94 6,802 40	\$2,707 54	လိ	1915. \$8,212 30	\$8,212 30 8,198 00	\$14 30 12 55	\$1.75
\$2,361 14 2 00 2 26	\$2,365 40 866 37	\$1,499 03 1,499 03		SPRINKLING ASSESSMENTS				· .
\$233 64	\$233 64 115 62	\$118 02 118 02	•	INKLING AS		•	•	
\$2 00 \$2 00	\$2 00 2 00	•		STREET SPR				
	٠	•	1916	Ŋ				1916 .
Balance from 1915, uncollected Tax levy, 1916 Supplementary warrants Cash refunds Charge to offset receipt	Cash receipts	Abatements	Balance uncollected December 31, 1916		Balance from 1915, uncollected Amount of assessors' warrant Cash refunds	Cash receipts	Abatements	Balance uncollected December 31, 1916

		МОТН	ASSESSMENTS	ENTS.	1915.	1916.	
Balance from 1915, uncollected Amount of assessors' warrant					\$838 75 4 00	\$1,991 50 2 50	\$838 75 1,991 50 6 50
Cash receipts		•	•		\$842 75 838 75	\$1,994 00 1,492 50	\$2,836 75 2,331 25
Abatements	•				\$4 00 4 00	\$501.50 56.25	\$505 50 60 25
Balance uncollected December 31, 1916 .			•			\$445 25	\$445 25
	0.0	OVERLAY A	AND ABATEMENT	TEMENT.			
	119	1912 and Prior Years.	1913.	1914.	1915.	1916.	Total.
To credit, January 1, 1916 Assessed in taxes		\$56 39	\$6,081 66	\$5,524 65	\$10,168 05	\$18,270 37	\$21,830 75 18,270 37
Taxes recharged	•	•	•	2 26	•	•	
Total. credits		\$56 39 56 39	\$6,081 66 122 02 5,959 64	\$5,526 91 1,499 03 4,027 88	\$10,168 05 5,845 13	\$18,270 37 9,995 50	\$40,105 38 17,461 68 10,043 91
Total charges		\$56 39	\$6,081 66	\$5,526 91	\$5,845 13	\$9,995 50	\$27,505 59
Credit balance December 31, 1916.					\$4,322 92	\$8,274 87	\$12,597 79

RESERVE SUPPLEMENTARY ASSESSMENTS.

Total. \$5,009 61 3,265 96	\$8,275 57	\$3,265 96	Total. \$19,220 90 8,938 59 121 21	\$28,280 70 18,724 01	\$9,556 69 413 50	\$9,143 19	\$16,242 72 12,401 39	\$28,644 11 18,795 70	\$9,848 41 60 75	\$9,787 66
1916. \$3,265 96	\$3,265 96	\$3,265 96	1916. \$8,938 59 121 21	\$9,059 80 3,400 50	\$5,659 30 413 50	\$5,245 80	1916. \$12,401 39	\$12,401 39 4,871 81	\$7,529 58 60 75	\$7,468 83
1915. \$5,009 61	\$5,009 61 957 27 4,052 34		\$18,837 15	\$18,837 15 14,939 76	\$3,897 39	\$3,897 39	\$14,687 44	\$14,687 44 12,368 61	\$2,318 83	\$2,318 83
			\$383.75	\$383 75 383 75			1914. \$1,555 28	\$1,555 28 1,555 28		
			ASSESSMENTS	•	•	•	• •	•	•	
			A SS	•	•	•		•	•	
		1, 1916	1, 1916 .			31, 1916 .	. 1916 .		•	31, 1916 .
To credit January 1, 1916 Supplementary assessments, 1916 .	Abatements	Balance to credit, December 31, 1916	Highway Betterment. Balance uncollected January 1 Assessments levied, 1916. Refunds	Cash receipts	Abatements	Balance uncollected December 31, 1916 Sidewalk.	Balance uncollected January 1 Assessments levied, 1916 .	Cash receipts	Abatements	Balance uncollected December 31, 1916

1915. 1916. Total. 0 \$766 80 \$1,450 40 \$2,253 39 2,253 39	60 \$766 80 \$2,253 39 \$3,703 79 50 766 80 1,450 40	\$2,253 39 \$2,253 39	Service 31. Maintenance. Assessments. 50 \$2,896 56 \$3,837 53 \$270,809 52 42 1 60	\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\	\$2,876 97 \$3,837 53 \$245,523 12 \$21 19 \$25,505 70	YEARS.	
1914. \$683 60	09 £89\$ \$683 £00	ARTMENT ACCOUNTS		\$54,015 65 \$2,123 92 \$52,886 12 \$1,830 49 1,129 53	\$54,015 65 \$2,123 92	FUNDS, WATER ACCOUNT, PRIOR YEARS. \$2 10 12 80 13 82	
	•	WATER DEPARTMENT	Metered. \$187,588 46 82 41	\$187,670 87 \$161,718 35 468 01	\$162,186 36 \$25,484 51	JNDS, WATER \$2 10 12 80 13 89	. TO 05
Sewer. Balance uncollected January 1, 1916. Assessments levied, 1916.	Cash receipts	Balance uncollected December 31, 1916 .	Metered 1915. Committed \$20,468 87 Refunded 13 82	Collected \$20,482 69 Abated \$20,468 37	\$20,482.69	REI	Metered

DEPARTMENTAL ACCOUNTS FOR COLLECTION.

DEFANIMENTAL	ACCOONING FO	ON COLLECT			
Revenue.	Balance Jan. 1, 1916.	Committed	Abated.	Collected.	Balance Dec. 31, 1916.
Law department	•		•	•	\$7 81
Engineering department				\$35 00 \$35 00	
Police department	\$125 40				125 40
Maintenance police buildings	•	1,000 00	•	1,000 00	•
	•		•	175 40	•
Health department	284 85		•		128 15
Contagious Hospital	10,326 53		\$1,282 01		7,138 48
Inspection of milk and vinegar	73 50			313 50	78 50
Sewers construction			•		
Refuse disposal	34 83		195 83	712	226 30
Highways maintenance		6,740 92	95 27		2,962 46
Maintenance highway buildings		240 00	•		•
New streets	179 30		•	87 20	92 10
Street sprinkling		00 09	30 00		•
Sidewalks maintenance		~	•		98 13
New sidewalks	35 00		35 00		
Poor department, miscellaneous	11,300 30		1,061 31		7,957 07
Poor department, City Home	167 96		86 85	1,774 58	09 096
	•				•
School contingent	518 13		38 04		
Maintenance school buildings	3 75			1,152 25	193 193 193 193 193 193 193 193 193 193
Libraries	•		•		
Parks maintenance	•	100 00	•	100 00	•
Bathhouse					
Somerville field	500 00		•		200 00
Non-Revenue	\$23,399 50	\$51,516 41	\$2,864.31	\$51,228 86	\$20,822 74
cadam	\$25 60	• 6	• 6	\$25 60	
Highways, permanent pavement	09 76	\$594 40 150 00	00 02.	666 90 150 00	
	\$118	\$744 46	\$20 00	\$842 50	

TEMPORARY LOANS.

In Anticipation of Taxes.

Balance from 1915	\$500,000 00 1,220,000 00	
	\$1,720,000 00 \$1,320,000 00	
Maturing in 1917	\$400,000 00 id 2.915+%	

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c S. Total Due.																		000,61		7,000	7,000	5,000	4,000	000,0	000,0	000,0	7,000	1,000	1,000	1,000	1,000	1,000	1,000	\$1,729,000
Public Bundings												12,000	12,00(12,00(11,00(11,00(10,00	10,000	4,000												•	•		\$255,000
Highway.	\$56,000	54,000	53,000	40,000	31,000	22,000	22,000	22,000	13,000	8,000	•	•	•	•	•	•	•	•		•	•	•	•	:	•	•	:	•	:	:	:	:		\$321,000
Municipal.	\$10,000	8,000	8,000	8,000	8,000	8,000	7,000	•	•	•		•		•	•	•	•	•	•	•	•	:	•		:	:	:	:			:	:	:	\$57,000
Bridge.	\$1.000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000 1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	\$33,000
Met. Park Assessment (Outside) Chap. 325 Acts 1902.	\$1.000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	•	•	•	•			:		:			:	:			:	•			•	\$13,000
Water.	\$5,000	5,000	4,000	2,000		•	•	•	•	•	•	:	•	•	•	•	•			•		•	•	:	:	•	•	:						\$16,000
Sewer (Outside of limit) Chap. 357 Acts 1895.	\$3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	•	:		•	•	•	•	•	•	:	•	•		•	•	:		:	•		•	•		•	\$27,000
Sewer.	\$19,000	19,000	19,000	19,000	19,000	19,000	18,000	17,000	17,000	15,000	14,000	12,000	11,000	10,000	10,000	8,000	8,000	8,000	2,000	000'9	6,000	4,000	3,000 9,000	2,000 000,	1,000	1,000	1,000	•		•	•	•	•	\$293,000
· Citv.	\$118.500	105,500	92,500	. 79,500	68,500	52,500	41,500	25,500	23,000	19,000	19,000	17,000	16,000	15,000	12,000	9,000	•	•	•	•	•		•	•	•	:			•	•	•	•	:	\$714,000
			•					•	•																•									

Due in 1917. 1918. 1919. 1920. 1921. 1921. 1922. 1923. 1926. 1931. 1931. 1932. 1933. 1934. 1934. 1944. 1944. 1944. 1945. 1946.

The funded debt December 31, 1916, was \$1 classified as follows:—	1,729,000.00,
City Loan Bonds at $3\frac{1}{2}$ per cent. City Loan Bonds at 4 per cent. City Loan Bonds at $4\frac{1}{4}$ per cent. Sewer Loan Bonds at $4\frac{1}{4}$ per cent. Water Loan Bonds at $4\frac{1}{4}$ per cent. Metropolitan Park Assessment Loan Bonds at $3\frac{1}{2}$ per cent. Lowell Street Bridge Loan Bonds at $3\frac{1}{2}$ per cent. Municipal Loan Bonds at $4\frac{1}{2}$ per cent. Highway Loan Bonds at $4\frac{1}{2}$ per cent. Highway Loan Bonds at $4\frac{1}{2}$ per cent. Public Building Loan Bonds at $4\frac{1}{2}$ per cent.	\$123,000 00 519,000 00 72,000 00 86,000 00 207,000 00 27,000 00 16,000 00 13,000 00 33,000 00 57,000 00 125,000 00 196,000 00 255,000 00
	\$1,729,000 00
Funded debt within the limit fixed by law:— City Loan	\$1,673,000 00
Funded debt beyond the limit fixed by law:— Sewer Loan (Chapter 357, Acts 1895) \$27,000 00 Metropolitan Park Assessment Loan (Chapter 325, Acts 1902) 13,000 00	
Water Loan	56,000 00
	\$1,729,000 00

BORROWING CAPACITY.

Valuation,								\$74,946,894	00)	
Supplemen	tary							179,300			
	•							, , , , , , , , , , , , , , , , , , , ,		\$75,126,194	00
Valuation,	1915							\$77,217,399	00		
Supplemen		•	•	•	•	•	•	227,000			
Supplemen	tary	•	•	•	•	•	•	221,000	U	77,444,399	٥٥
Valuation	1016						•	70 201 220	/)/		00
Valuation,		•	•	•	•	•	•	79,304,329			
Supplemen	tary	•	•	•	•	•	•	141,400	90		
							•			79,445,729	00
										\$232,016,322	00
Abatement	s. 1914							\$521,700	0.0)	
Abatements	$ \hat{s} = 1915 $							526,907			
Abatements			•	•	•	•	•	437,827			
Tibatchicht	3, 1010		•	•	•	•	•	±01,021	0.0	1,486,434	00
										1,400,404	UU
							•			4000 F00 000	
										\$ 230,529,888	00
A warnera th		(1 9 \							\$76 949 90 <i>6</i>	aa
Average th	nee ye	ars (1-3)	•	•	•	•	• •	•	\$76,843,296	
$2\frac{1}{2}$ pe			:	•	•	•	•		•	1,921,082	
Debt with	in the	lim	iit	•	•	•	•			1,673,000	00
									,		
Borrowing	capac	ity I	Decer	nber	31,	1916				\$248,082	40
Maturities	Tanuar	v 1.	191	7.				\$38,000	00		
	April	ĭ 1:	917					116,000			
	July 1	1 10	17	•	•	\$72,500	oò	110,000	0 ()		
	Less			::+	•	5,000	00				
	Less	outsi	ue i	111111	•	3,000	00	07 500	00		
	0 . 1		101	7		#C 000	00	67,500	00		
	Octob	er 1,	191	(:	•	\$6,000					
	Less	outsi	de l	imit		4,000	00				
								2,000	00		
							-				
Maturities	in 191	7 wi	thin	the	lim	it .				\$223,500	00
										\$471,582	40
Maturities	within	the	limi	t				\$223,500	00		•
Maturities					•	•	•	9,000			
maturities	outside	: the	111111	ι.	•	•	•	3,000	00		
T . 1	•,•						-	\$020 F00	00		
Total matu	irities	•	•	•	•	•	•	\$232,500	00		
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Total. \$5,000 00 1,000 00 1,000 00 22,000 00 118,500 00 10,000 00 56,000 00	\$232,500 00	Total. \$640 00 455 00 1,137 50 12,206 25 26,606 25 2,565 00 11,202 50 9,980 00 \$64,792 50
October. \$4,000 00	\$6,000 00	\$280 00 560 00 3,552 50 6,336 25 7,740 00 1,660 00
\$1,000 00 1,000 00 10,000 00 39,500 00 3,000 00 8,000 00	\$72,500 00	\$40 00 227 50 22435 00 6,207 50 1,282 50 2,355 00 3,220 00 \$15,767 50
April. \$1,000 00 9,000 00 67,000 00 5,000 00	\$116, IN	April. \$280 00 577 50 3,728 75 7,655 00 1,760 00 1,760 00
January. \$3,000 00 10,000 00 6,000 00	\$38,000 00 INTEREST DUE	January. \$40 00 227 50 2.490 00 6,407 50 1,282 50 2,687 50 3,340 00,
• . • • •	BOND IN	
Water Park Bridge Sewer City Municipal Highway Public buildings		Water Park Bridge Sewer City Municipal Highway Public buildings

MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1916.

Charles river basin	. 5,000 00 : istrict debt:— . 16,050 53	Interest. \$66,142 50 840 00 24,006 72 18 20 28,947 67 9,449 47 494 02 367 43 436 84	Total. \$273,642 50 5,840 00 24,006 72 18 20 44,998 20 11,494 45 1,795 17 616 11 1,255 23
Metropolitan water assessme	ent 14,765 33	74,058 98	88,824 31
Grade crossings	. 11,418 71	2,442 85	13,861 56
	\$259,147 77	\$207,204 68	\$ 466,352 45
TREASURY	DEPARTME	ENT, 1916.	
Appropriation budget . Transferred from maintenance	e polling place	es	\$14,150 00 282 50
			\$14,432 50
Salaries:— Treasurer and collector.		\$3,000 00	
Deputy collector		1,500 00	
Cashier		1,000 00	
Clerks		4,626 76	
Stationery and postage .		2,151 17	
Books and printing		739 19	
Car fares, auto-hire .		68 30	
Telephone		158 12	
Bonds (surety)		265 00	
Sundries		203 95	
Advertising and recording	tax sales .	720 01	#14.400 ×0
			\$14,432 50

Respectfully submitted,

JOSEPH S. PIKE,

City Treasurer and Collector of Taxes.

REPORT OF THE SCHOOL COMMITTEE.

School Committee Rooms, December 29, 1916.

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, 1916.

Members. EX-OFFICIIS. ZEBEDEE E. CLIFF, Mayor, 29 Powder House terrace 1917 WILLIAM FLEMING, President Board of Aldermen, 73 Florence street 1917 WARD ONE. THOMAS A. KELLEY, 39 Pennsylvania avenue 1918 WARD TWO. CHRISTOPHER J. MULDOON, 88 Concord avenue 1918 WARD TWO. CHRISTOPHER J. MULDOON, 19 Concord avenue 1918 WARD THREE. ALBERT C. ASHTON, 33 Columbus avenue 1918 WARD THREE. ALBERT C. ASHTON, 33 Columbus avenue 1918 WARD FOUR. FRANK H. HOLMES, 75 Walnut street 1918 WARD FOUR. FRANK H. HOLMES, 22 Walter street 1918 WARD FOUR. WARD FOUR. FRANK H. HOLMES, 254 Broadway 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
ZEBEDEE E. CLIFF, Mayor, 29 Powder House terrace WILLIAM FLEMING, President Board of Aldermen, 73 Florence street 1917 WARD ONE. THOMAS A. KELLEY, 39 Pennsylvania avenue 1918 WARD TWO. CHRISTOPHER J. MULDOON, 88 Concord avenue 1918 WARD TWO. CHRISTOPHER J. MULDOON, 19 Concord avenue 1918 WARD THREE. ALBERT C. ASHTON, 33 Columbus avenue 1918 WARD FOUR. FRANK H. HOLMES, 22 Walter street 1918 WARD FOUR. FRANK H. HOLMES, 22 Walter street 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
WILLIAM FLEMING, President Board of Aldermen, 73 Florence street WARD ONE. THOMAS A. KELLEY, JAMES J. RUDD, WARD TWO. CHRISTOPHER J. MULDOON, DANIEL H. BRADLEY, WARD THREE. ALBERT C. ASHTON, GEORGE E. WHITAKER, WARD FOUR. FRANK H. HOLMES, HARRY A. STONE, WARD FIVE. MRS. JULIA R. ALDRICH, 1917 1918 WARD Florence street 1917 1918 WARD TWO. 1918 WARD THREE. 1917 1918 WARD FOUR. 1918 WARD FOUR. 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
THOMAS A. KELLEY, 39 Pennsylvania avenue 1917 JAMES J. RUDD, 46-A Franklin street 1918 WARD TWO. CHRISTOPHER J. MULDOON, 88 Concord avenue 1917 19 Concord avenue 1918 WARD THREE. ALBERT C. ASHTON, 33 Columbus avenue 1917 GEORGE E. WHITAKER, 75 Walnut street 1918 WARD FOUR. FRANK H. HOLMES, 22 Walter street 1918 WARD FOUR. FRANK H. HOLMES, 254 Broadway 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
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GEORGE E. WHITAKER, 75 Walnut street 1918 WARD FOUR. FRANK H. HOLMES, 22 Walter street 1917 HARRY A. STONE, 254 Broadway 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
FRANK H. HOLMES, 22 Walter street 1917 HARRY A. STONE, 254 Broadway 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
HARRY A. STONE, 254 Broadway 1918 WARD FIVE. MRS. JULIA R. ALDRICH, 262 School street 1917
Mrs. Julia R. Aldrich, 262 School street 1917
2.2.1.D. J.
HARRY M. STOODLEY, 283 Highland avenue 1918
WARD SIX.
Mrs. Mary R. Brewer, 170 Summer street 1917 Guy E. Healey, 38 Cambria street 1918
WARD SEVEN.
HERBERT CHOLERTON, 94 College avenue 1917 FRANK E. PORTER, 43 Ossipee road 1918
Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

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

Office telephone, 314; house telephone, 12.

Superintendent's office force:-

Justin W. Lovett, 29 Cambria street. Mary A. Clark, 42 Highland avenue. Mildred A. Merrill, 26 Cambria street.

STANDING COMMITTEES, 1916.

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

District I.—Kelley, Rudd, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Muldoon, Bradley, Kelley.

KNAPP, PERRY, BAXTER.

District III.—Ashton, Whitaker, Mrs. Brewer. POPE, BELL, CUMMINGS.

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

EDGERLY, GLINES.

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

District VI.—Mrs. Brewer, Healey, Stoodley.

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

District VII.—Cholerton, Porter, Healey.

HIGHLAND, HODGKINS, CUTLER, LINCOLN, LOWE.

High School.—Bradley, Cholerton, Kelley, Ashton, Stoodley, Healey, Mrs. Brewer.

Finance.—Stone, Bradley, Kelley, Ashton, Holmes, Porter, Stoodley, Cliff, Fleming.

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

Industrial Education.—Ashton, Stoodley, Rudd, Bradley, Holmes, Porter, Mrs. Aldrich.

School Accommodations.—Holmes, Muldoon, Rudd, Ashton, Porter, Mrs. Aldrich, Mrs. Brewer, Cliff, Fleming.

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

Playgrounds and School Hygiene.—Mrs. Aldrich, Mrs. Brewer, Rudd, Muldoon, Holmes.

Rules and Regulations.—Kelley, Healey, Whitaker.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Somerville:-

I have the honor to submit to you a report of the condition of the schools for the fiscal year ending December 31, 1916. This will be the forty-fifth annual report of the School Committee and the ninth which I have prepared.

In general, the work of the year has been along the lines of former years. There has been a slight increase in the enrollment of the pupils, the number for the year ending June 30 being 14,647, a gain of 142. There were graduated from the elementary schools 781 pupils and from the high school 348, thirty-seven more than last year, which was up to that time the largest number in the history of the school.

The appropriation for school expenses for the year 1916 was for teachers' salaries \$364,890, an increase of \$14,890; for contingent expenses \$36,000, an increase of \$1,000. Four hundred and ten teachers are now employed, sixteen more than were employed last year at this time. A new school-house on the Prescott School site was occupied for the first time in September. This addition brings the total number of buildings occupied for school purposes up to thirty, counting the High School as comprising two buildings. Provision has been made for a new schoolhouse in West Somerville and for an addition to the Boys' Vocational School.

Certain statements were made in the report of last year to show the relations of expenditures for school purposes in Somerville to those of other cities in the state. The figures then were taken from the Report of the Board of Education for the year 1914-1915. The corresponding facts for the year 1915-1916 are given below. Where the rank for this year varies from last year the latter is shown in a parenthesis.

Somerville is the tenth city in population and the eleventh in valuation in the state, but four of the cities larger than Somerville taxed themselves at a higher rate. Somerville ranks eighth (ninth) in the number of teachers employed in the public day schools, ninth (seventh) in number of different pupils of all ages in the public schools during the school year, eighth (seventh) in the average membership in all schools, fifth in number of pupils enrolled in the High School, and fifth in the number of teachers employed in the High School.

Somerville ranks 151 among the cities and towns of Massachusetts for the amount spent for support of each pupil in the average membership. Last year the rank was 116. On the other hand, in the amount of expenditure per \$1,000 valuation for school support from local taxation in the city fiscal year next preceding June 30, 1916, Somerville spent \$5.82 and has a rank of 155. This is an increase of seven

cents and a change of rank from 158.

While the general problem has not changed materially during the year, policies have been adopted by the School Committee which are fundamental in nature and which will have a great influence on the future organization and conduct of the work of the schools. These policies relate to the providing of accommodations for the relief from present overcrowding and for the future growth of the schools, to the re-organizing of the school system upon the 6-3-3 plan, to the introduction of physical training in the High School and to the assumption by the School Committee of control over High School athletics. These subjects will be discussed in order.

Accommodations.

Again at the close of another school year emphatic demand must be made for more school accommodations. High School is overcrowded and elementary schools in the central and western part of the city are full; some are overflowing. This condition continues to restrict the work of the schools and to prevent them from giving the service to the pupils which the schools of a large city ought to render. Fifty additional classrooms placed at appropriate centres would be put to advantageous use if they could be provided by the time for beginning a new school year. As that desirable consummation is apparently impossible, a statement showing the facts of the case may make plain why the additional accommodations needed should in the interest of economy and good school work be furnished at the earliest practicable time. In a word, plans for the future development of the schools which have been adopted during the present year can not be successfully executed without this increase of school room being supplied in the near future. Nor can the general situation be met as economically and well by any other plan. It is most important, therefore, that the beginning already made should be followed by vigorous action which shall insure the success of the plan and give to all parts of the city a satisfactory provision of school accommodations.

In January of this year His Honor, the Mayor, in a written communication to the School Committee asked to be told whether increased accommodations were needed, and, if so, of what capacity and in what location. He stated his desire to do what would be for the best interest of the entire city in regard to the schools and his belief that the School Committee should take the initiative in the matter. This letter was referred to the Standing Committee on School Accommodations for consideration and report. In February the School Committee held a special meeting for the purpose of considering a proposition to build a High School in West Somerville and gave a public hearing to citizens who wished to speak upon the question. No decision was reached at that meeting. There followed several weeks of discussion in the Committee on School Accommodations and in organizations of citizens, in which the needs of high, vocational and elementary schools were reviewed. At a special meeting held on April 3 the Committee on School Accommodations submitted the following report which was adopted by unanimous vote:—

"The Committee on School Accommodations has given careful consideration to the matter of providing accommodations for the needs of the schools. In its survey it has taken account of the fact that vocational and elementary schools as well as the High School are in need of more accommodations. It recognizes the necessity for moving in this matter in such a way as will conserve the educational interests of the whole city and all parts of the educational system and at the same time be consistent with a regard for true economy.

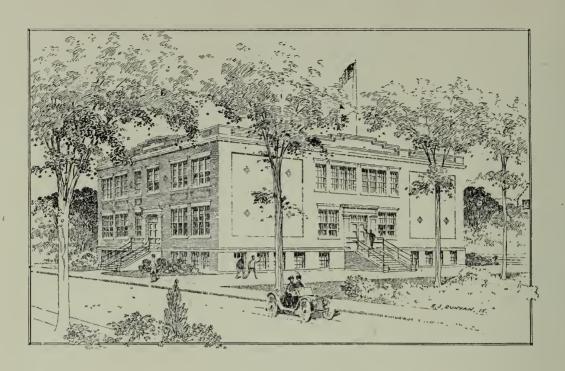
"The committee therefore have agreed without a dissenting vote upon the two following recommendations:—

- "1. That there be adopted a plan for establishing four or five Junior High School centres in different parts of the city whereby relief shall be given to both High and Grammar Schools.
- "2. That a petition be sent to His Honor, the Mayor, for immediate building in West Somerville on the ledge lot a schoolhouse suitable for a Junior High School, in conformity with plans submitted by Building Commissioner Littlefield and approved by this standing committee."

The following resolution submitted by the committee was also adopted:—

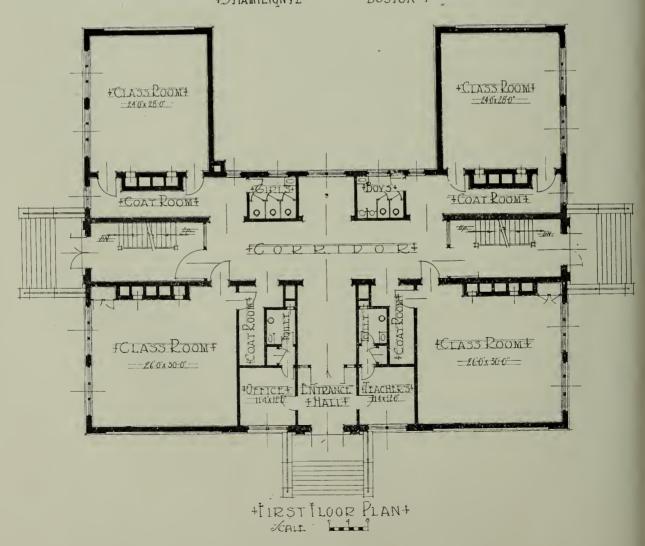
"Resolved: It is the judgment of the School Committee that a system of junior high schools for Somerville should be established to consist eventually of four units; one in the western part of the city on Holland Street; one at the Forster School in the northern section of the city; one at the Prescott School in the eastern section of the city; and a unit

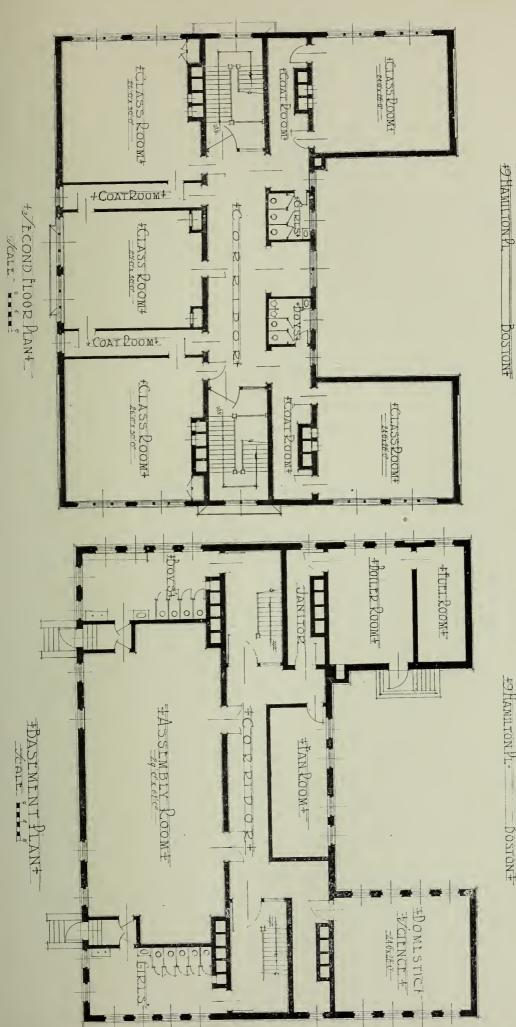




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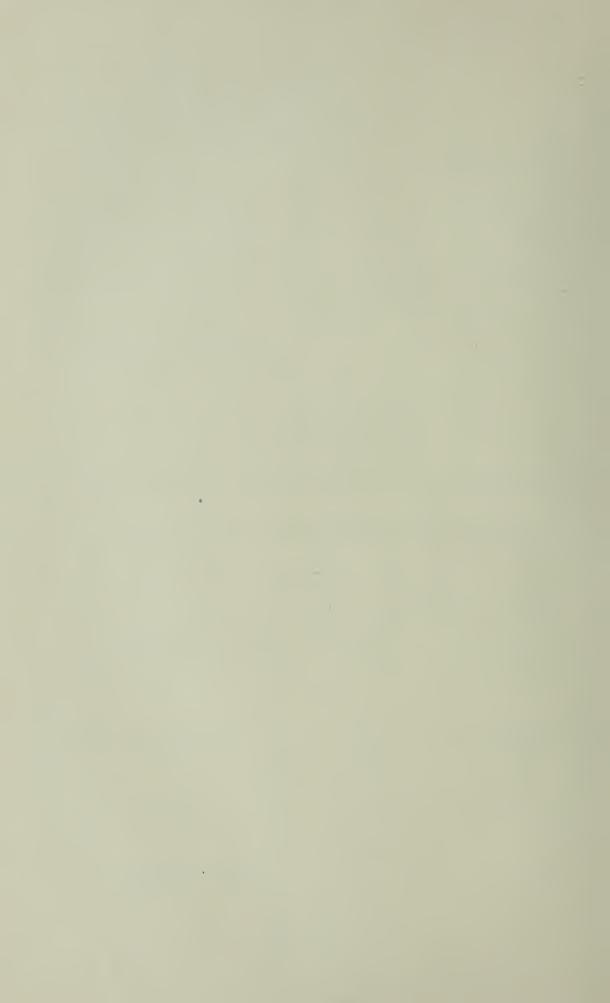


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to be erected in the southern part of the city preferably adjacent to the Bell Schoolhouse.

"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."

As a further step in the direction of supplying accommodations the board adopted the following report made by the

Committee on Industrial Education:—

"This committee, realizing that the work of the vocational schools is unduly restricted by the limitations of their present quarters, believes it to be desirable at this time to make an enlargement of the accommodations for the Boys' Vocational School. That this may be done in the most economical way possible, with a due regard to the present needs and future contingencies, the committee recommends the following measures:-

"That an extension be made to the northerly side of the Davis School building, extending ninety feet parallel to Tufts street, with a width of forty feet, to be one story high with a basement, the basement and first floor to be of first-class fire-

proof construction.

"That this structure be erected as far as possible by the labor of the boys of the Vocational School.

"That it be adapted to use as a machine shop on the main floor and as an automobile repair shop on the basement floor.

"That it be provided with the necessary equipment for fifteen students in the machine shop and fifteen students in the automobile repair shop."

Copies of these recommendations were sent to His Honor, the Mayor, and to the Board of Aldermen with the follow-

ing results:—

\$94,500 were appropriated for a Junior High School building to be erected on the ledge lot on Holland street, West Somerville.

A lot of land 65 by 117 on Vinal avenue adjacent to the Bell Schoolhouse was bought as a site for a Junior High School; and \$10,000 were appropriated for an addition to the Boys' Vocational School. These decisions meant that adequate relief from overcrowding of the High School and of the elementary schools throughout the city could best be made by additional accommodations provided at several centres distributed so as to serve the whole city, which could draw from the High School in time the whole freshman class and from the grammar schools several upper grade classes; that for

the present at least vocational education for boys should be accommodated by additions to the present plant; and that a new educational organization, the Junior High School, should

be made a part of the school system.

In discussing first the effect of these provisions upon the problem of school accommodations throughout the city, it can be stated that the new building at the Prescott School, which was begun last year and opened for use in September of this year, is occupied by the East Somerville Junior High School; that a building for the West Somerville Junior High School is being erected which will contain eleven classrooms and four basement rooms suitable for laboratories and shops. and will be ready for use in September; that a Junior High School was opened in the Forster School last September; and that a beginning has been made on the addition to the Boys' Vocational School. As a result of opening the Junior High Schools, a redistribution of pupils has been made in the eastern part of the city by means of which overcrowding has been relieved and part time classes in that section of the city abolished. These Junior High Schools retained 169 pupils of the tenth grade who were eligible to enter the High School in September. This act reduced by that number the membership of the Senior High School and relieved crowding there to an appreciable extent.

Upon this point Head Master Avery submitted the following statement soon after the opening of the schools in

October:—

"The High School has already profited by the institution of the Junior High Schools in the following respects:—

(2) Better use of building:—

(a) Four rooms, unfit for use as home rooms, have been freed from such use,—namely, two drawing rooms and two typewriting rooms.

b) Two large rooms are devoted entirely to study

purposes.

(c) The auditorium is freed from recitation purposes.

"Summary.—The administration has been made easier, the congestion has been decidedly relieved, the air seems better,

and better work is already apparent."

Thus a total addition of nine regular classrooms in the eastern part of the city has been made a means of bettering school conditions throughout that section of the city and in the High School as well. The Forster School, while it has not been enlarged, has contributed its share to the relief of the High School by retaining ninety-seven tenth grade pupils

who would otherwise have swelled the numbers in the Senior High School. This school is taxed to the utmost to house the pupils who attend there. Like the East Somerville Junior High School, it is not large enough for the work it is now doing, much less for the work which will be put upon it in the future. More room must be provided in both places in due time.

From this survey it will be seen that half of the plan adopted in the April meeting has been started and that a beginning has been made to provide facilities for carrying the other half into effect. In September when the West Somerville Junior High School is opened over 200 pupils will be retained there who would in ordinary procedure go to the High School. This will still further improve conditions in that school. It would be a most happy circumstance if the Union Square Junior High School could be opened at the same time, thereby making it possible to withhold the whole first year class from the High School and without further delay organize the work of the Senior and Junior High Schools upon the new basis.

Each Junior High School comprises the eighth, ninth and tenth grades. Each occupies exclusively the whole of one building and a part of a nearby building. At present the course of study for the tenth grade is identical with that for the first year of the High School and the course for the eighth and ninth grades is in subject matter similar to that of corresponding grammar school grades. Instruction is given on the departmental plan throughout the school, but the pupils of the eighth or lowest grade receive a large part of their instruction from their home room teachers. Elective studies are offered pupils in the eighth and ninth grades. tenth grade the studies are grouped in the same courses as in the High School. The elective studies are Latin, French, German, Spanish, typewriting, elementary bookkeeping, drawing and design, printing (at Winter Hill), woodworking and repairing, cooking, sewing and home management. Suitable restrictions concerning the number and kinds of electives which a pupil may take are established and provision is made for changing when it is to the advantage of the pupil to do so. Supervised study, promotion by subjects, and physical training are included in the general plan. The teaching of all High School subjects is given by the teachers qualified to teach in a Senior High School and is under the supervision of the heads of departments in the Senior High School. teaching of grammar school subjects is given by experienced grammar school teachers. The animating spirit of the organization is liberal, cordial and sympathetic. It seeks to create in each pupil the desire for self-mastery and improvement and to afford him an opportunity for self-discovery. In short, the Junior High School is a medium adapted to the needs of pupils during the period of transition from childhood to youth. The East Somerville and Winter Hill Junior High Schools have now passed through the first quarter-year of their existence, are well established and are giving evidence of meeting satisfactorily every reasonable expectation held concerning them.

Physical Education, Sports, and Military Drill.

The physical education of youth of the public schools has received unusual attention during the year now closing, both in our own city and in the state at large. That local opinion has been affected by the larger volume of thought cannot be doubted. That the sentiment in favor of state regulation of the physical education of the youth in public schools, at least, will grow until some legislation to govern the matter is placed on the statute books seems equally probable. A brief statement of these two conditions may serve to throw both into relief and to show their interrelations. From such a view may be obtained an opinion as to what is the duty of this community in the matter of properly providing for the physical development of its pupils.

In the last report of the School Committee an account was given of the work being carried on in the elementary schools to promote the health of pupils and to develop their physical powers. To that account can now be added the statement that the same plan has been followed this year with increased benefit to the pupils. It may be confidently expected that the physical training thus begun in the elementary schools will be continued and expanded as ways and means

for doing so may be available.

This year another step, nearly as important, has been taken. Physical exercises for all pupils were made a part of the daily program of the High School by an order of the School Committee which went into effect at the opening of the school in October. A period of fifteen minutes daily is devoted to this work. During this time pupils are re-grouped in classrooms so as to permit boys and girls to exercise in separate places. Windows are thrown wide open and pupils go through a program of setting-up exercises with zest and vigor. Classmates chosen for the purpose by vote act as leaders, while teachers by their presence give sanction and official oversight to the work. The director of physical education has charge of the enterprise. He selects the exercises, drills the leaders, oversees the execution of the general plan and provides expert advice in matters involving the relation of physical training to health. Some of the benefits which are

sought by means of this work are the following: Relaxation from and dissipation of mental strain, change from sedentary postures, stimulation of respiration and circulation, correction of stooping and slanting carriage of the body, promotion of habitual correct carriage of the body; and training in such intellectual habits as co-operation, prompt obedience, alertness, subordination to chosen leaders, and other ideas which

may grow out of the conduct of this undertaking.

While this plan has been in operation too short a time to give indisputable evidence of its worth, it has nevertheless been started successfully and has created enthusiasm and aroused interest among the students. The strong advantages of this plan are the following: It reaches all pupils; it occurs daily; it provides well-balanced exercise of the whole muscular system; it affects the physiological efficiency of vital organs and is fundamental and economical; and finally it can be carried on in spite of the fact that the school has no gymnasium. So far as it goes this provision is fundamental and would be desirable even if it were possible to add to it other important features, such as special work in a gymnasium. It forms a good basis for athletic sports and it will undoubtedly lead many pupils to take part in out-door sports who otherwise would have become victims of sedentary and indoor A second step intended beneficially to affect the health and physical development of High School pupils was taken when the School Committee assumed control of High School athletics. The importance of this step is found in two considerations: First, it recognizes sports as an integral part of High School activities; and second, it commits the School Committee to a supervision and promotion of such sports as it deems to be advantageous to the conduct of the High School. Inasmuch as athletic contests are a means of physical exertion natural and attractive to youth of High School age, it is a wise action on the part of the School Committee to take control of the whole matter to the end that the best good to the greatest number of students may be brought out of it.

Already beneficial results have come from this action. Among these is the re-organization of the High School Athletic Association with a new constitution which provides a program for developing sports for many, rather than for few students as a means of wholesome outdoor recreation and enjoyment. This association while exercising immediate control of sports will be under the supervision of the School Committee and subject to its authority. By this union of forces the School Committee will define general policies and will support them and the Athletic Association will carry them into effect by actively managing the various athletic activities

of the school.

While these policies were being developed a sentiment in favor of the introduction of military drill in the High School found expression in the community. In other parts of the state the same sentiment appeared. This sentiment became associated with the demand for greater national military preparedness. Two questions then naturally arose:—

1. What ought to be done to improve the condition of

High School pupils for the sake of physical efficiency?

2. What ought to be done to improve the condition of High School pupils for the sake of preparedness? There being no recognized court of appeal for the determination of these matters the General Court in 1915 passed a resolve authorizing the appointment of a special board to report upon the practicability of providing military education for boys and for creating a militia reserve. It provided for the appointment by the Governor of "three officers of the militia of the rank of captain or higher rank, and six persons not members of the militia." This board was required to inquire into and report upon the following matters:—

1. "The practicability of providing military education for boys between the ages of fourteen and twenty-one for the purpose of securing a proper military training and discipline for the youths of this commonwealth and improving their physical, moral and mental qualities and for providing for the commonwealth an adequate basis for a citizen soldiery.

2. "The practicability of providing military training for

youths in the public high schools."

In June, 1915, Governor Walsh appointed as members of the commission, one lawyer, one newspaper editor, one city mayor, one member Boston Printing Pressmen's Union, two college presidents, two major-generals, and one brigadier-

general, M. V. M., retired.

In December, 1915, the report of this commission was made public. Because of its official nature and because of the representative character of the commission which made it, this report has great significance in any consideration of the introduction of military drill in high schools in this state. For this reason I quote in full the section of the report bearing upon Military Training in the Schools.

"'Military training' in the schools, as the words are used by different persons, may mean one or more of several things.

"First, military drill, in the sense of training with a musket, manual of arms and close order formation. In a word, an imitation of the sort of training which a young man receives at the armory when he goes into the militia.

"Second, physical exercises and physical training which will develop not only the body but the attention and mind of

the boy receiving it.

"Third, the teaching of true military history, personal hygiene, and camp sanitation.

"Fourth, the teaching of love of country and willingness

to serve it.

"The overwhelming weight of opinion from school teachers, military experts, officers of both the regular army and the militia, and the general public is against military drill as defined in the first clause above. It is generally agreed that the military drill which a boy receives in school is of little or no advantage to him from the point of view of practical soldiering. As far as available evidence goes, drill in the schools has had no beneficial effect in promoting enlistments in the militia except in a few isolated localities. For various reasons, it has seemed to create a dislike for soldiering. Military drill in the schools is objected to by many on the ground that boys of school age have not attained sufficient mental maturity to appreciate what war and fighting mean, and are therefore unable to digest ideas which military drill presents to them in concrete form. It is worth noting that military drill as such is given in the schools of no countries of the world except Australia and Japan.

"The commission does not recommend military drill in

the schools but is opposed to it.

"Physical training which tends to make a boy strong, physically well set up and mentally alert, is the proper preparation for the real intensive training necessary to make a soldier, as it is also the proper preparation for civil life. The overwhelming weight of public opinion favors the greater development of physical training in the schools and the standardization and inspection of such training by some central authority.

"The commission recommends the adoption of a systematic plan of physical training in the schools and has drafted legislation providing for that purpose. It believes that the basis of such training should be the system of calisthenics used for many years at West Point under the supervision of Captain Herman J. Koehler, not because that system is particularly military, but because, according to the consensus of expert opinion, it is the best system which can now be adopted.

"The commission also recommends the teaching of personal hygiene, camp sanitation, and the truth about our mili-

tary history, in the schools.

"The commission also recommends the establishment of training camps for school boys during one month of the summers preceding or following their last year in High or Latin Schools. Attendance at such camps should be voluntary and they should be conducted under the joint supervision of the State Board of Education and the Adjutant-General.

"The teaching of patriotism or love of country in the schools is something which can hardly be standardized or provided for by legislation. Nevertheless, the commission feels warranted in expressing the hope that teachers throughout the commonwealth will feel that it is their duty to inculcate these ideals in the minds of the boys under their charge

as a real part of the school life.

"The most frequent criticism as to American boys is that they seem to lack a sense of responsibility or of loyalty and duty to something beyond themselves. A spirit of devotion to his country is the finest spirit which a boy can acquire. That spirit is not at all incompatible with the teaching that every endeavor must be made to maintain peace. The militaristic spirit which means blind faith in the doctrine of force is perhaps the most vicious idea which could be instilled in a boy's mind. The military spirit which means a willingness to serve and fight for his country in time of need, which recognizes as abhorrent the point of view which relies on others to perform the service and do the fighting, is a fine and unseifish sentiment which can not be too early instilled into the youthful mind.

"There is no need to use the word military in this connection. It is offensive to many, and unquestionably means very different things to different people. What the boy should be taught is that nothing can ever make other than glorious and holy the death of one who dies for his country, and that no boy can shift to the shoulders of others a duty to the nation any more than he can a duty to his family or friends." Among the definite recommendations for affirmative action are the

following:—

"Development of physical training in the public schools

according to a prescribed standard.

"Teaching of military history, personal hygiene and camp sanitation in the public schools." The sections quoted have the approval of all the commissioners as well as the expressed endorsement of Charles H. Cole, Adjutant-General Chief of Staff.

In May, 1916, the General Court passed the following resolve: "Resolved, That three persons, to be appointed by the Governor, shall constitute a board to investigate the subject of physical training for boys and girls in the public schools, and to define and recommend a system which will improve their physical, moral and mental qualities and provide the commonwealth with an adequate basis for a citizen soldiery, with special reference to the following subjects:—

(a) Physical and disciplinary training.

(b) Military history.

(c) Personal hygiene and sanitation.

"The members of this board shall serve without pay but shall be allowed for clerical assistance and for necessary expenses, such a sum, not exceeding \$1,000, as shall be approved by the Governor and Council.

"The board is authorized in its discretion to consider any related matter, whether or not the same is particularly mentioned in this resolve. The board shall report the result of its investigations to the General Court on or before the second Wednesday in January in the year nineteen hundred and seventeen, and shall accompany its report with such recommendations for legislation as the board may deem advisable."

The report of this board soon to be made will doubtless recommend a policy to be followed by the schools of this state in the matter of physical and disciplinary training.

Meanwhile, it appears from this survey that the School Committee has acted in harmony with the recommendations of the commission appointed by Governor Walsh, both in establishing physical training in the High School and in refraining from introducing military drill.

High School.

The High School at this time is in a better condition than at the close of last year. This improvement has been due in part to the rearrangements which were made as a result of the reducing of the number of pupils in the school caused by the opening of Junior High Schools. Even the few rooms thus made available for new uses helped to relieve crowding and to give better opportunities for work to some departments. There is, however, today much loss of efficiency because there are not rooms enough in the school for the various activities which ought to be carried on there. A modern High School seeking to do the work which this day demands needs rooms of varying sizes in addition to the number of classrooms required to accommodate the teaching units into which the school is divided. Such additional rooms cannot be had, however, until the whole freshman class is withdrawn as a result of the opening of four Junior High Schools. The earlier this withdrawal can be made the sooner will the High School be able to do well the work for which teachers have been provided.

Boys' Vocational School.

The Boys' Vocational School has had a successful year. It became necessary to reduce the number of pupils in the machine shop because of the rules of the State Board of Education concerning the number of pupils allowed for the equip-

ment provided. There are now fifty-three pupils enrolled in the school. An appropriation for a new building forty by ninety feet has been made and work upon it has been begun. When completed it will provide accommodations for fifteen boys in the machine shop and fifteen boys in an automobile repair shop. Besides these accommodations there will be two classrooms and a washroom and lockers. The main building is to be built by contract labor, but the boys of the carpentry class will work on the outside finish and on all of the interior finish such as floors, partitions and sheathings. Two machines have been ordered for the wood-working department and ten new machines have been selected for the machine department.

The State Board of Education has made new rules which affect the teaching force of all vocational schools. After September, 1916, all new instructors employed shall do some approved professional improvement work during the first year of employment and during each year thereafter. All instructors in service shall do some approved professional improvement work each year.

Girls' Vocational School.

The Girls' Vocational School has placed a number of its seniors this year in positions as managers of lunch rooms in high schools and colleges, as teachers of sewing, as assistants and managers of food shops and tea rooms, as accommodators in places where the service would vary from preparing the whole dinner to serving a dinner, as dressmakers, and as mothers' helpers. The finding of these opportunities for graduates and members of the senior class has had an effect upon the plans of instruction in the school. While the principal business of the school is to train girls in home-making, it is also a recognized aim to provide a training which will enable the girls to be self-supporting after leaving the school. Hence it is deemed necessary to shape instruction so as to give the girls efficiencies which can be immediately used upon leaving school. It is found that some breadth of training as well as technical proficiency is desirable. Consequently emphasis is laid upon general training and upon the development of the sense of responsibility. In the future there will be a continuance of the practical instruction which has been given in the past and an effort will be made to increase the skill of the pupils in the technical side of their education. Reports from graduates of the school who are engaged in home-making either in homes of their own or in homes of their parents are such as to give proof of the value of the instruction which they received in the school,

Teachers' Salaries.

As the year draws to a close teachers of Somerville are generally asking for an increase of salary. For all, this request is dictated by a sense of the shrinkage in purchasing power of the salaries which they have been receiving. Contrasted with the cost of living salaries have a much lower value than was the case even a few years ago. Having no other way to meet these changed conditions the teachers ask for an increase of pay. In the case of some teachers there is added to this general condition the further one that an increase is justifiable because the present rate in their cases is unsatisfactory in relation to the other items of the salary schedule. These requests for increases of salary should be considered carefully before the estimate for next year is made up. It is fair to our teachers to say in this connection that the movement for an increase of salary for teachers is general throughout the state. For purposes of comparison salary schedules of other communities are today of small value unless they have been adopted within a year or two. Teachers are insisting on their right to a suitable return for their services. They maintain that such services have an intrinsic value; that this inherent value is not determined by the relative ability of the community to pay but by the service itself. They ask that recognition be given to the worth of the service as measured by the cost of living or by the 1 eturns which are given in other walks of life where the same grade of service is required. While it is true that teachers everywhere have to plead their own cause strenuously in order to get recognition, it is also true that Somerville has always been liberal in its dealings with its teachers. Therefore I feel certain that these petitions, respectfully made, will be given the attention which they deserve.

Semi-Annual Promotions.

After a trial of several years, the School Committee in November decided to give up the plan of mid-year promotions. This action was taken after a consideration of the question extending over several months, and after a hearing upon the matter had been given to the public and to the principals and teachers of the schools. To bring about the change to yearly promotions the committee ordered that admission of beginners to the first grade in February be discontinued, and that mid-year promotions be gradually abolished. As a consequence of this determination no admission to the first grade will be made next February and changes in the organization of the February classes will be made to return to the

annual formation in such manner and at such times as the committee shall approve.

Recommendations.

My conviction is that the first place in importance among the needs of the schools is held by the building program which has been outlined in this report. Progress in the development of policies for the benefit of all parts of the educational undertaking is conditioned upon the furnishing within a short time of the additional accommodations and equipment which that program includes. Therefore, I confine my recommendations for the immediate consideration and action of the School Committee to the following:—

1. That a schoolhouse for use as a Junior High School be built upon the Vinal avenue lot and be made ready for oc-

cupancy in September, 1917.

2. That land be secured as the site for a ten-room elementary school in the vicinity of the Winter Hill Junior High School.

3. That plans be made for such a building and steps be taken to have it ready for occupancy not later than September, 1918, in order that the whole of the Forster Schoolhouse

and its annex may be used as a Junior High School.

While these additional buildings will not meet fully the present needs of the schools they will relieve conditions of overcrowding which are a source of complaint among the patrons of the schools and will give an opportunity for carrying on effectively the work which is now being done under serious restrictions.

Conclusion.

In conclusion I express again my obligation to the School Committee for its encouragement and assistance. I acknowledge the fidelity, willingness and cordiality of all the teachers, and I express the hope that these factors combined have produced results that are worthy of the efforts made.

Respectfully submitted,
CHARLES S. CLARK,
Superintendent of Schools.

December 29, 1916.

REPORT OF THE HEAD MASTER OF THE HIGH SCHOOL.

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

Dear Sir: In 1911 the Somerville Latin School and the Somerville English High School were united. As this step was a radical one the wisdom of which was somewhat questioned by many interested people, I ask your permission at this time to review briefly the past five years of the school's history with a view of showing how conditions have been met and what has been done in the line of progress.

The objections raised at that time were those which naturally arise at such a time in all large schools. "The school would be too large; its organization would be cumbersome; pupils would lose in individual attention because of the numbers, and the teaching body would be disintegrated."

What has been the result?

- 1. Organization. I will admit that the increase in size of a school calls for a more carefully worked-out system just as a large business calls for more complicated administrative methods. The large business to run smoothly must advance new methods; so in the large school. Many duties performed in a small school by the principal must be assigned to others thoroughly capable. To secure this in our school a Board of Administration was organized consisting of three masters; one, assigned charge of the West building: another, of the East building, and a third, the vice headmaster, was given general supervision. As a board they have assisted the head master in formulating rules and plans of organization and in the control of routine discipline. In addition, a man teacher was placed in charge of each floor in both buildings (seven in all) for the purpose of general supervision and the securing of uniformity. In this way the work has been efficiently divided without undue strain on any one person.
- 2. Curriculum. After careful consideration I feel justified in stating that the curriculum of the school has been appreciably improved and enriched and has received wise and capable supervision. The Board of Supervision (four masters) have had this department of the school in charge. The Preparatory Course, for which the greatest apprehension was manifested, has increased in numbers and efficiency. New teachers have been added, weak places strengthened, and thorough supervision secured.

The Somerville High School has been in existence sixtythree years and during those years has sent many boys and girls to higher institutions.

From 1880 to 1895, number of graduates 95	
Number entering higher institutions 31	2
Per cent. entering higher institutions32.6%	0
From 1896 to 1905, number of graduates 1,520	3
Number entering higher institutions	9
Per cent. entering higher institutions34.7%	0
From 1906 to 1910, number of graduates	8
Number entering higher institutions 39	3
Per cent. entering higher institutions32.8%	6
From 1911 to 1915, number of graduates 1,47	6
Number entering higher institutions	6
Per cent. entering higher institutions29.5%	6

Before comparing these figures and drawing conclusions therefrom, let me give a brief sketch of the history of the High School. Up to 1895 the Somerville High School was to a large extent a preparatory school for college with permission granted some pupils to take a general course which really meant a college course with certain subjects omitted. There were practically no commercial, manual or household subjects taught. In 1895 the Latin and English High Schools were established. The Latin School was a preparatory school for college exclusively. The English School fitted for Technical and Normal Schools and had also an extensive Commercial Course. In 1911 these schools were reunited into the Somerville High School,-in organization and scope of work, however, a very different school from the original school. demands of the age and the ever forward movement in education required a much more varied and a broader course. The Preparatory Course grew steadily and naturally; the Commercial Course increased enormously and the Manual Arts Course has had a small and slowly increasing growth. These courses had the following enrollments for the year 1915-1916:--

Preparatory801	or	39.4%
Commercial966		
General175		
Manual Arts 85	or	4.2%

With these facts in mind let us look again at the figures given first. In the days when the school did preparatory work only, i. e. up to 1895, 32.6 per cent. went to higher institutions; in the last five years, 29.5 per cent. or only 3.1 per cent. less, continued their studies after graduation. This, it seems to me, is a creditable showing and compares favorably, from all I can learn, with the experience of other schools around us.

On the other hand if we compare the figures of the school from 1880 to 1895,—a school of Preparatory and General Courses only,—with the figures of the General and Preparatory Courses for the year 1915, a very startling conclusion is obtained. In the early period 32.6 per cent. attended college,

in 1915 58.7 per cent., or an increase of 26.1 per cent. Another interesting fact is that in the year 1893, for example, pupils entered Harvard, Radcliffe, Tufts, Dartmouth, Technology, and Salem Normal School. In the year 1916 our graduates entered Boston College, Boston University, Dartmouth, Harvard, Holy Cross, Jackson, Massachusetts Agricultural College, Massachusetts Institute of Technology, Mt. Holyoke, Normal Schools, Radcliffe, Simmons, Smith and Tufts. All of these schools excepting Harvard, Radcliffe and Technology, which admit by examination only, received our graduates on certificate. Also during the present year four of our graduates are receiving scholarships at Harvard and

three entered last fall with high honors.

As a result of these figures I feel justified in stating (1) that the work of our Preparatory Department compares favorably with the results of any year or group of years since the school was founded; (2) that the school in its present wide scope of work is more effectually meeting the needs of all classes of pupils in that it furnishes training along more varied lines. The Commercial Course, a very popular one, has been thoroughly changed and improved since 1911, a two vear course introduced for those who could not remain four years, and new subjects and equipment added. Our graduates are placed in positions at once and are showing by rapid promotion the value of their training. The Commercial Course in 1910 required two years of general work followed by two years of special training in commercial subjects. The best pupils were allowed the opportunity to follow both lines. The fair or poor pupils found it necessary to return for a fifth year or to attend some other school. In the present plan for the Commercial Course, pupils begin their commercial training in the first year by taking in addition to English and a language or science, bookkeeping, arithmetic and penman-Stenography and typewriting may be started in the second year and before graduation a pupil may take three vears of either stenography or bookkeeping, with additional work in business arithmetic, law, commerce and industry, and business practice.

The effect of these changes has led to an increase of commercial facilities and a much more thorough preparation along commercial lines. Pupils graduate with an excellent working knowledge of their special subject and a fair knowledge along other commercial lines. Opportunity is also granted seniors to spend at least one week in actual practice in the school

office or in outside offices.

The General and Manual Arts Courses, though only about thirteen per cent. of the school, are carefully supervised and give thorough opportunities to the pupils. On the whole the courses in the Somerville High School furnish the means for a broad selection of subjects and a satisfactory preparation for higher schools and for business.

- 3. Attention to the Welfare of Individual Pupils. Much care and thought have been given by the teachers to devising plans for watching the work and the progress of each pupil.
- (a) Advisory Plans. An advisory system by means of which each pupil in his freshman year selects a teacher for advice and counsel has resulted in much good. The pupil's school record, his selection of courses and subjects, and his general conduct are carefully followed by his adviser. This plan gives each pupil at least one teacher who is especially interested in him and watches over his efforts and progress.
- Committees of Teachers on Social Service, Vocational Guidance, and Advice have frequent meetings for the purpose of studying conditions and making suggestions for the betterment of the social, moral, and physical standing of pupils. During the past years these committees have done much toward improving the advisory system, and have planned an annual reception to parents by advisers. Through this means Vocational Guidance has been started in the school about which I shall say more under the next heading.
- (c) Vocational Guidance and Placement. A year ago the School Board authorized that the half time of two teachers be set aside to work on the problem of vocations and securing positions. One of these teachers has not yet been secured. A vocational adviser for the girls, however, has been at work since September. Her report is as follows:—
 The work in Vocational Guidance has been confined to

individual counseling, investigation and placement.

Number of pupils interviewed	161
Number of pupils placed	14
Number of requests for student workers	24
Follow-up Work.	
Letters sent to Class of 1916-B	300
Post cards sent to pupils at work during summer	46
Number of pupils induced to remain in, or return to,	
school	7

An attempt has been made to find out why pupils leave school. It is evident that the majority of pupils do not leave school because of economic pressure, but rather because they desire to leave, or because they have obtained positions which, in their opinion, offer greater opportunities than the continuance of their school work.

Reasons for leaving school: Death of father; ill health of mother; ill health of student; non-promotion; poor marks; trouble with teacher; the study of music; the preferring work to school; the completion of Two Year Course; the obtaining of a position during vacation; the desire to go to a business

college.

Whenever pupils have clearly indicated their choice of life work or have expressed a desire to investigate a certain line of work, an effort has been made to form a specific group. These pupils have been given information regarding the work, referred to books giving additional information, and later they will be given a definite outline for the study of the occupation.

Mr. Wilkins, head of the Civil Service Department in the Evening High School, gave a brief talk to pupils interested

in Civil Service Work.

Catalogues of colleges and schools offering vocational training have been collected and will be placed at the disposal of pupils.

Home visiting, resulting in the more active co-operation of parents and a closer relation between home and school, fully

warrants any additional expenditure of time and labor.

Vocational information is given with the idea that when the pupil has the vocational material with which to think, and is stimulated by the parent or adviser to make use of this material, his mind will generally arrive at the right solution.

A room, beginning in February, will be set aside for the use of the vocational adviser, who plans to meet all pupils at least once either in groups or individually as follows:—

January	1917-A
FebruaryFirst Year	Pupils
MarchFourth Year	
AprilThird Year	
May Second Year	
JuneFourth Year Pupils (individ	ually)

- (d) Parent-Teacher Association. An effort has been made to connect the school and home by the organization of a Parent-Teacher Association. This association has shown an active interest in the school and has been helpful in bringing to parents' attention talks on many subjects of vital interest. Many parents, through this organization, have been brought more closely in touch with the school and the teachers.
- (e) Higher Scholarship. As a means to encouraging and recognizing scholarship honor lists are posted after each quarter's marks. These lists are also published in the school paper. At graduation pupils who have been on the quarterly honor lists at least eight times are graduated "with honor." Two graduation speakers are chosen by the class from the honor lists. The lamentable tendency on the part of so many to be just satisfied with "getting by" makes any plan to encourage scholarship justifiable. An English Club has been recently formed to which honor pupils only are eligible.

- (f) Physical Training. The health of our young people has been little considered in the past, yet the necessity for strong bodies must be recognized if we wish to produce able citizens. The need of a gymnasium has been long felt. As an alternative to gymnastic instruction a system of physical exercises has been instituted this past year. These exercises take place in the schoolrooms after the short recess. Groups of boys and girls under student leaders go through an energetic, carefully planned drill. Great interest has been taken in these exercises by the pupils and a keen rivalry has developed among the groups. I consider this drill the most helpful and valuable that could be devised under existing conditions.
- School Hours and Lunch. The school session extends from 9 A. M. to 3 P. M., with the understanding that pupils whose attendance, lessons and deportment have been satisfactory shali be dismissed at 2.15. The later hour for beginning is to enable pupils living at a distance from school to eat a proper breakfast and to reach school without undue haste. At noon a half hour is devoted to lunch. the proper time for a mid-day meal. Pupils may bring their luncheons from home or may buy nutritious luncheon at the school. The former custom of eating a hearty dinner on reaching home after school was essentially bad for the health of pupils and interfered with the purpose for which the pupils are sent to school, i. e., the ability and opportunity to study. Education is business. Pupils are expected to plan their day in such a way as to get the greatest results from their labor. The extra period from 2.15 to 3 is not to be considered a punishment but rather an opportunity to get assistance and to prevent failure. This new plan has already worked great advantage to the school.

In closing I feel justified in stating that, although the school has far from reached its maximum efficiency, yet many problems have been met successfully, progress has been made, and in harmony and unity of effort the school is now in a position to push forward to greater achievements. I wish also to express my sincere appreciation to the School Committee and Superintendent for their forbearance, their vital interest, and their hearty assistance.

Sincerely yours,

John A. Avery, Head Master.

STATEMENT CONCERNING THE HIGH SCHOOL.

The Preparatory Course has an enrollment of tributed by classes as follows:—	782, di	s-
Graduate students 1917-A or IVb Class 1917-B or IVa Class 1918-A or IIIb Class 1918-B or IIIa Class 1919-A or IIb Class 1919-B or IIa Class 1920-A or Ib Class 1920-A or Ib Class	37 109 52 131 66 161 69 146	
The General Course includes 174 pupils, distributions:—	buted :	as
1917-A or IVb Class 1917-B or IVa Class 1918-A or IIIb Class 1918-B or IIIa Class 1919-A or IIb Class 1919-B or IIa Class 1920-A or Ib Class 1920-B or Ia Class	41 . 16 . 33 . 13 . 28	
The Commercial Course has two divisions,—t year course and the two year course.	he for	uI
The four year course includes 715 pupils, div follows:—-	vided	as
Graduate Students 1917-A or IVb Class 1917-B or IVa Class 1918-A or IIIb Class 1918-B or IIIa Class 1919-A or IIb Class 1919-B or IIa Class 1920-A or Ib Class 1920-A or Ib Class	. 36 . 78 . 41 . 110 . 49 . 159	
The two year course includes sixty-five pupils as follows:—	, divid	eċ
1919-A or IIb Class 1919-B or IIa Class 1920-A or Ib Class 1920-B or Ia Class	. 22	
The Manual Arts Course, including fifty-nine p divided as follows:—	oupils,	15
Graduate student 1917-B or IVa Class 1918-B or IIIa Class 1919-A or IIb Class 1919-B or IIa Class 1920-A or Ib Class 1920-B or Ia Class	. 11 . 15 . 2 . 12 . 9	

The work of the entire school is distributed by subjects as follows:—

as	ionows.—			
	T		Last Year.	Increase.
	English	1795	2114	-319
	History and Civics	134 8	1620	—272
	Mathematics	525	943	-418
	Elocution	630	657	27
	Chemistry	182	282	-100
	Physics	185	102	83
	General Science	20	47	-27
	Biology	44	$\overline{57}$	-13
	Physical Geography	17	$\frac{23}{23}$	-6
	Physiology	$\tilde{7}$ 1	55	16
/	Latin	469	541	—72
	Greek	21	$\frac{341}{25}$	 4
	French	578	684	-106
	German	400		
			420	-20
	Spanish	350	295	55
	Manual Training	165	250	-85
	Mechanical Drawing	334	406	— 72
	Freehand Drawing	253	327	74
	Cooking	3 5	7 8	43
	Dressmaking	88	107	—19
	Bookkeeping	515	674	159
	Arithmetic	272	400	-128
	Penmanship	797	851	-54
	Commercial Law	22	59	-37
	Community Civics	520	00	0,
	Stenography	400	397	3
	Typewriting	462	452	10
	Commona and Industry	252	243	9
	Commerce and Industry	202	243	9
	The present senior class are p	reparing	for the	follow-
ino	institutions:—	8	-01 00	
mg				
	Boston College			1
	Boston University			1
	Dartmouth			2
	Harvard		• • • • • • • •	10
	Holy Cross			1
	Jackson			2
	Massachusetts Agricultural			$ar{2}$
	Massachusetts Institute of Technology		• • • • • • • •	11
	Mt. Holyoke			î
	Normal			3
				-
	Radcliffe	• • • • • • • • • •	• • • • • • • •	5 1
	Sheffield Scientific			
	Simmons		• • • • • • • •	5
	Trinity College			1
	Tufts			11
	Wellesley			4
1	Williams			1
7	T 74			4

4

REPORT OF THE PRINCIPAL OF THE VOCATIONAL SCHOOL FOR BOYS.

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

Dear Sir: The following is a report of the Boys' Vocational School for the sixth year. Since the school reached its maximum working capacity last year, the number of departments and the corps of teachers remain unchanged.

In the school year 1914-1915 the school produced work to the trade value of \$2,341.79. This last year 1915-1916 the total productivity, as reported to the State Board of Education.

was as follows:-

Cash Credits.	Credit for Work Done for School.	Credit for Work Done for City Dep'ts.		Credit for All Other Work.	Cost of Material.
	1	Machine De	epartment	•	
\$278 40	\$164 89	\$14 77	\$31 09	\$546 23	\$1,076 21
		Cabinet De	partment.		
208 68	161 75	203 50	35 74	15 05	367 52
	C	arpentry D	epartmen	t.	
22 51	77 09	895 02	21 90	16 61	591 70
\$509 59	\$403 73	\$1,113 29	\$88 73	\$577 89	\$2,035 43
Tota	1 productivi	ity			\$2,683 23
Cost	of material		• • • • • • • • •		2,035 43

The following tabulation shows the number of graduates, the number placed in the industries and earning capacity of each boy:—

Class.	Number of Graduates.	Number Placed in the Industry.	Earning Capacity at Start.
1912	12	9	\$6 16
1913	11	5	6 50
1914	13	8	6 00
1915	11	10	8 65
1916	15	15	11 00

The boys are placed in that industry for which they have been trained in those establishments where they are best fitted. Particular attention is given to see that the boy is placed in that position where he will have the best opportunity to render the most efficient service to the employer.

If the working conditions are satisfactory, and advancement possible, the boy is advised to remain. If these conditions do not prevail and another good position is open, we urge the boy to accept such change as will improve his condition.

We have been highly successful in placing the graduates in some of the best known industrial plants of Greater Boston. Twenty-four boys who were obliged to leave school before graduation were placed in the industries during last year. One additional year for our graduates would add greatly to their efficiency and one year added to their age would be of advantage in placing them in better positions. I recommend that the course be made a three-years course at an early date.

A one-story addition now being built is expected to be ready in September, 1917. This building is 40 feet by 90 feet and provides for an enlarged machine shop for fifteen additional boys, and an automobile department for fifteen boys.

The school will then accommodate the following:

Machine Department	45
Carpentry Department	15
Cabinet Department	15
Automobile Department	15
m	-
Total	90

The class in carpentry will finish the outside and inside work, and some of the new machine equipment is being constructed this year by the machine department. The present machine shop, now located on the second floor of our building, will be discontinued and the room used for an additional class and drafting room. It seems advisable to introduce a painting and interior decorating course in the near future, and I recommend that this industry be given a place in the school curriculum. In regard to future growth it would seem advisable to present opportunities for new industries and thereby avoid overcrowding the present departments.

Respectfully yours,

H. L. Jones.

REPORT OF DIRECTOR OF DOMESTIC SCIENCE AND ART.

Mr. Charles S. Clark,

Superintendent of Schools.

Dear Sir: The training in the Vocational School remains practically the same as last year, except that textiles has had to be temporarily given up, and the course in home nursing has not yet been added, as we had hoped. On the other hand we have extended part of our course to cover a larger experience in cooking and food study that will fit for some of the higher positions that are being referred to us. This year five girls are giving an extra five months for lunch room practice, where the different operations in the conduct of a lunch room are divided into special problems, and each girl given one problem for a specified time, so that before graduation she will have had every phase of lunch room work as we have seen it. Our High School Lunch Room offers this op-This has been heartily approved by temporary employers who are co-operating with us in a most helpful way, by employing our girls for short intervals and testing them out.

Accommodator service has been insistently sought, and so this year we have allowed our first-year pupils the privilege of testing their ability in this direction. Thirteen girls have been sent out at different times, and have earned forty dollars. Of more value is the good report that comes from this service and its practical application. When we hear that the school is one of the best training schools for entrance into more highly specialized schools because of its practicability, we feel that the standards we have set are not too high to make a connection for the girls who wish to go beyond what we can offer in our two-years' course. This op-

portunity is not open to all girls, however.

Three students had an interesting experience this year during the temporary absence of an instructor in cooking, when they prepared lunch for seven teachers, and thirty girls, for a week. They were first-year pupils who had done no cooking previously to their entrance in October, and they showed beyond question the value of cooking in larger quantities than individual. On two days lamb stew and baked beans were cooked in the fireless cooker; then there was brown bread made the day the beans were served, and every day hot bread of some kind; with a choice of two desserts, one of which meant the making of pie crust. On one day, besides the regular lunch, and unknown to anyone, a birthday cake was made, iced, and decorated, for one of the instructors. These girls lacked no confidence in attempting new and at-

tractive recipes, and came to school very early in the morning to get the food ready for the fireless so that it would be ready at noon. They planned the meals entirely, and made out the store order.

This year the housekeeper and waitress for the week are taken to the Boston markets on Monday, and with the help of the instructor purchase supplies for the week. They are shown the cuts of meat and their uses, and the best places to purchase supplies. All the girls are cooking at home and bring back delighted reports from fathers as well as mothers.

We feel that we are growing in the changed attitude of our students toward this training, that a better class of girls has been steadily coming to us, that their previous education makes it possible to train them well, and find increasingly good positions for them, that most of the mothers are interested to visit the school and talk over the future of their daughters with the principal, and that in some cases the fathers visit in order to see what kind of a school the daughters wish to attend. This is as it should be, and shows a healthy growth.

Of the fifty-six girls registered at the present time, two come from this locality. The others come from the following sections: West Somerville, 15; below Union Square, 9; East Somerville (Broadway), 10; Union Square (toward Cambridge), 6; Winter Hill, 5; Medford, 7; Melrose, 2; Lexington, 2.

Seventy-two students registered this year, fifty-six of whom are still in school. The records show: 3 are at home; 2 working at housework; 3 in factories; 5 illness at home or personal illness (2 will return to school later); 1 telephone operator; 2 placed by school (will graduate in June).

In spite of the small number entering, the percentage of those who have left has been less, and the per cent. attendance of those remaining has been higher than in any

previous years.

Of these seventy-two, the majority have graduated from the grammar schools, as shown by the following school record: High School graduate, 1; High School (1 to 3 years), 16; grammar graduates, 21; eighth grade, 16; seventh grade, 11; sixth grade, 6.

We are keeping in close touch with our graduates. Of the thirty-seven graduated in the class of 1916, twelve are working in dressmaking establishments, and two in millinery houses. The employers tell us they will take all the girls we can send them, as they like the type of girl we are recommending, and have found them able to advance rapidly in responsibility. Three are in tea rooms or food shops. They help prepare lunch, serve at noon, and make cakes and sandwiches. Four are at home. Four are married and have homes of their own, and send interesting letters to us of their housekeeping perplexities, as well as of their happiness. Two have not been heard from directly. Six are engaged in other occupations, as telephone operator, saleswomen, and various positions in factories. Four are taking advanced training for teaching domestic arts, and hospital training for nursing.

While previously we had graduated students only after they had been working successfully part of the time after the school course had been completed, this year and hereafter we shall graduate each class in June, as we think the tests given during the last year in school are sufficient to prove the value of the course. This year fourteen girls will be gradu-

ated.

The Lunch Room has been conducted this year by two graduates of the Vocational School with an undergraduate assistant training especially for lunch room work. All the food not prepared in the regular classroom lessons has been prepared in the lunch room by these helpers, with the exception of the bread and ice cream.

The number of students and teachers who are served each day remains about the same as last year: from five to six hundred students in the large lunch room, and fifty-six teach-

ers in the small room.

The service has been changed to allow for greater speed in serving and for distributing the crowd. This arrangement, with the lunch period lengthened to half an hour, seems to be

working out well.

Although the cost of food materials has steadily increased, in some instances as much as fifty per cent., we have not yet advanced the selling price of the food served, and we hope we shall not be obliged to do so for the rest of the year at least.

The value of this lunch room as a training school has been proven by the satisfactory reports that have come from those employing the girls to whom this opportunity was given.

Domestic Arts in the High School.

The elective courses in Domestic Arts and Science in the High School have been well attended. One student, having completed the course in dressmaking, was placed in a high class dressmaking establishment for practical trade experience preparatory to teaching the subject, and there are openings for others who wish to specialize along this line.

The progress made by the students electing this course

has been excellent. All parts of dressmaking have been taught, and the result has been many gowns of difficult construction. Some members of the class made their graduation dresses, and put much fine hand work upon them. As this department is in charge of a skillful dressmaker who is also a competent instructor the work of the classes has the professional appearance that is desired.

In the Domestic Science classroom the individual equipment has been replaced by ranges of family size, and large work tables, so that with greater facilities better results can be obtained. It is desired to give the students in these classes the opportunity to work in family quantities and to repeat processes often enough to gain skill in making a product that will have a distinct commercial value.

The lesson period is hardly long enough for some foods to be prepared, and it is to be regretted that often one class must finish what another has begun, the student thus losing the value to be gained by assuming the full responsibility for a finished product, and its ultimate value to the consumer. With this work in cooking are lessons in food values, their costs, and combinations for a balanced diet.

Sewing in the Elementary Schools.

The sewing in the elementary schools is progressing along the lines established last year. Wherever it is possible to change the prescribed course of study to meet the needs of either physical training in the schools or sewing and cooking in the Junior High Schools, it has been done. In the Junior High Schools where it has been necessary to make towels, holders, cooking caps and aprons for the classes this has been substituted for the underwear of the grades, and where physical training is taught and bloomers and middy blouses have been worn, these have been made in the higher grades.

We have been so fortunate as to secure another teacher in addition to the four we had, and we have also had the opportunity to use as a substitute teacher one who has been trained at the Vocational School, and another who is giving her time for the sake of the experience. This shows progress, and should mean, as far as large classes are concerned, more efficiency in dealing with them. While we have installed one sewing machine in each school, and while in some schools we are so fortunate as to have special rooms for sewing, there is still the problem to be solved of overcrowded rooms, one-half occupied by a study class. It is hoped that this will be remedied in time and that we shall be able to give to sewing the dignity and seriousness of purpose that it

merits, by having it conducted in classrooms equipped for that purpose.

Evening Practical Arts Classes.

The evening classes closed on March 15th with an exhibition and reception to the students and their friends. The results of the year's work have been gratifying, not only because of the quality and quantity of the work accomplished, but also because of the enthusiasm and good attendance of the students.

Classes were held in dressmaking, millinery, and cooking. Many dresses were shown, those of cotton materials from the elementary class, and of wool and silk from the advanced class.

Winter and spring hat making were taught in the respective units and the new flowers and trimmings for the individual hats.

The cooking differed from the last year. Instead of a group of the same kinds of food making a unit, the unit comprised the more general family meals, adapted to the need of

this particular class.

During the course each member of the class learned to prepare those foods she wished to know about, and in small family quantities that could be taken home. This proved so much more satisfactory than serving what had been prepared during the school hour, that we shall probably conduct next year's classes in the same way. All the members hope to return next year and have asked that one lesson a week be devoted to cooking and the other to the study of food costs and their nutritive values.

Respectfully yours,

MARY HENLEIGH BROWN.

December 31, 1916.

SOMERVILLE PLAYGROUNDS ASSOCIATION.

Comparative Statement of Receipts and Expenditures.

Receipts:	1914.		1915.		1916.	
Balance from previous account S	\$46 71		\$51 06	\$	180 76	
Donations and subscriptions . 4 Interest on de-	130 71	1	,347 17	1,	058 38	
posit in bank .		¢477 49		\$1,398 23	82	\$1,239 96
Expenditures:—		φ411 42		φ1,000 20		φ1,200 00
Instructors . \$	293 90	•	\$554 60		237 00	
Supplies Printing	14 00		120 25 29 35		260 52 57 25	
Expressing .	11 00		20 00		30 50	
Rent of land for garden	18 46		16 00			
Labor	10 10		10 00		19 92	
Stamps, envelopes, etc			.15 62			
Catering			20 02		49 30	
A. E. McCarthy House	50 00					
Tuition of teach-						•
ers Membership in	50 00					
Somerville Fed-						
eration for Civic Service			1 00			•
Gustavus T. Kirby						
for services ren- dered by Row-						:
land Haynes .			327 00			
Gustavus T. Kirby for Survey of Rec	_					
reation Problem in	n		153 65			
Somerville . Expense of dele-			199 09			
gates to Recrea-						
tion Congress at Grand Rapids					160 00	
Balance .		\$426 36 51 06		\$1,217 47 180 76		\$814 49 425 47
Datance .						
		\$477 42		\$1,398 23		\$1,239 96

SUMMER PLAYGROUNDS.

Comparative Statement of Receipts and Expenditures.

	1913.	1914.	1915.	1916.
Appropriation	. \$2,500 00	\$2,000 00	\$1.700 00	\$2,300 00
Salaries of supervisors and	1 ' '	. ,	, ,	, ,
instructors	. 1,689 00	1,598 00	1,292 20	1,538 00
Equipment:—	,	,	,	_,
Śwings	. 422 00			
Jumping standards, etc.				86 00
Trees	. 15 48			
Tent				55 00
Hose	. 14 35			12 00
Labor and teaming .	. 76 52	2 70		
Repairing			18 38	6 27
Athletic supplies:—				
Baseballs, bats, etc	. 218 50	107 27	134 87	251 44
Medals, etc	6 00	13 75	15 45	
Miscellaneous supplies, etc.:-	-			
Printing	. 24 50	6 25		12 00
Labor	. 37 88	10 50	20 00	45 00
Teaming and expressing	. 21 50	9 50	10 85	12 80
Sand	. 5 00	10 75	33 23	37 80
Band	•	61 60		61 60
Handwork supplies .	•	44 84	52 00	7 40
Various	. 14 10	61 00	43 82	83 49
Baths:—				
Salary of attendant .	. 204 00	35 00	79 20	91 20
Supplies and laundry.	. 140 86	15 25		
School gardens:—				
Supplies	. 13 00	17 67		
Labor	15 50	5 55		
Balance unexpended .	65	37		
· ·				
	\$2,918 84	\$2,000 00	\$1,700 00	\$2,300 00
Expended by Somerville Play-	•			
grounds Association	1,446 52	426 36	1,217 47	814 49
Grand total of all money ex				
pended for playgrounds		\$2,426 36	\$2,917 47	\$3,114 49

REPORT OF THE SCHOOL SAVINGS BANKS.

November 1, 1915, to October 31, 1916.

The School Savings Bank system has now been in operation in our schools since March, 1912. That it has met with the approval of both teachers and parents is shown by the results obtained. The details that at first were troublesome have been gradually eliminated until now the system is on a good working basis.

The aims of the School Savings Banks are to instill in the minds of children the necessity of laying aside something today for the needs of tomorrow; to teach them to spend money wisely; to discriminate between the essential and non-essential; in short, to form character, which is the object of education.

Thrift is not only saving money; it is also using to the best advantage all one's resources, mental and physical as well as financial. Money spent for a good book, healthful recreation, or anything that will make for increased efficiency is as truly invested and will return dividends as surely as money put in the Savings Bank.

A child trudging to school with a nickel for his savings account clutched in his fist, and bravely passing the store wherein candy and toys dear to the childish heart are temptingly displayed, is creating will-power that will enable him to resist the greater temptations of later life.

Through the courtesy of Ray R. Rideout, treasurer of the Somerville Institution for Savings, the following information

relative to the School Savings Bank is furnished:-

The comparison of the School Savings Bank in Somerville with the statistics of the School Savings Banks in the State shows that while we are below the average per cent. of enrolled depositors we are well ahead of the average per cent. deposited. On October 31, 1915, the last date for which the figures for the State are obtainable, the School Savings Bank system was in operation in sixty-one cities or towns with an enrollment of 140,012 scholars. Of this number 68,780 were depositors, or 49.12%. On that date Somerville had 12,813 enrolled scholars, of whom 4,361 were depositors, or 34.04%.

The total number of depositors in Somerville was 6.34% of the total number of depositors in the State. The total amount deposited in Somerville for the year ending October 31, 1915, was 10.18% of the total deposited in the School Savings Banks of the State, while the amount of withdrawals for the same period was only 4.85% of the total amount withdrawn in the State, and the amount transferred to pass-books was

12.39% of the total amount transferred from the School Sav-

ings Banks of the State to individual pass-books.

The average amount saved by each depositor in the Somerville School Savings Banks for that period was \$4.04, while the average amount saved by each depositor in the School Savings Banks of the State for the same time was \$2.52. The teachers certainly deserve the credit for this remarkable showing as it is due to their interest and enthusiasm that the School Savings Banks in Somerville are so successful.

Below is a tabulation of the deposits, withdrawals, and transfers each year since the system was established, also a detailed report of each school for the year ending October 31, 1916:—

					•	0	•	
				Balance				Balance
				Nov. 1,	Amount	Amount	Amount	Oct. 31,
				1915.	Deposited.	Withdrawn.	Transferred.	1916.
Prescott				\$139 65	\$907 35	\$232 20	\$814 80	
Hanscom				67 68	916 56	83 79	872 73	\$29 67
Bennett			•	50 45	385 78	132 42	330 16	
Knapp				153 97	797 95	136 52	747 29	68 11
Perry				79 95	499 70	43 00	499 90	36 75
Baxter				83 50	487 26	89 96	418 07	62 73
Cummings			•	56 65	$299 \ 51$	43 40	273 30	39 46
Pope				130 85	692 85	$153 \ 65$	573 00	97 05
Bell .				166 90	706 75	234 60	580 25	58 80
Edgerly	•			181 80	999 11	90 99	982 63	107 29
Glines				81 25	1,138 95	43 00	1,079 20	98 00
Forster		•		402 61	1,594 46	121 50	1,625 76	249 81
Bingham	•			291 68	1,706 69	301 50	1,530 17	166 70
Carr .				82 35	766 34	126 09	678 40	44 20
Morse				95 94	749 08	88 81	720 56	35 65
Burns		•		114 55	590 50	24 00	609 20	71 85
Proctor				30 85	578 05		607 90	1 00
Brown				303 04	1,212 18	120 21	1,128 00	267 01
Highland				130 22	1,009 50	53 85	1,004 25	81 62
Hodgkins				150 60	1,241 95	103 15	1,120 55	168 85
Lowe				98 00	735 35	68 95	654 55	109 85
Cutler				$297 \ 02$	1,580 31	109 62	1,435 63	332 08
High Scho	01			73 80	320 90	$69\ 25$	$225 \ 25$	100 20
Girls' Voc		na1		65				65

 $\$3,263 \ 96 \ \$19,917 \ 08 \ \$2,470 \ 46 \ \$18,511 \ 55 \ \$2,227 \ 33$

				hdrawals.	Tranfers to Number Somerville Pass Inst. for Books Savings, Issued.	
March 18, 1912,						
October 31, 1912		\$3,917 16	306	\$442 85	\$1,554 30	404
November 1, 1912, 1		# 050 #0	1 110	1 000 00	F F00 01	
October 31, 1913		7,852 79	1,113	1,823 00	5,536 81	827
November 1, 1913, t October 31, 1914		19.860.42	1 690	1 700 77	10,480 10	1,607
November 1, 1914, 1		12,000 40	1,000	1,790 77	10,400 10	1,004
October 31, 1915		17.638 69	1.779	2.179 40	15.197 88	1.520
November 1, 1915, 1		,	_,,,,	_,_,	10,101 00	_,=_
October 31, 1916	. 62,960	19,917 08	1,979	2,470 46	18,511 55	1,484

REPORT OF THE SCHOOL DENTIST For the School Year Ending June 28, 1916.

Month.	No. Children Treated.	No. First Appointment.	No. Re-appointment.	Teeth Extracted.	No. Treatments.	No. Teeth Filled.	No. Cleansings.	No. Having Brush.	No. Not Having Brush.	Amount of Fees Collected.	Incidental Expenses.
September . October . November . December . January . February . March . April . May . June .	93 137	99 87 93 106 79 132	6 24 38 28 23 22 26 24 32 42	49 59 40 42 47 48 138 42 75 84	14 34 62 32 41 30 32 27 31 38	25 62 44 58 55 28 57 53 72 61	31 40 34 33 42 18 37 30 38 32	78 84 113 105 110 90 144 82 117 140	7 39 12 16 19 11 14 11 20 10	\$7.95 13.20 12.99 12.71 15.34 12.00 16.39 10.69 14.31 26.30	\$.47 2.78 .62 .80 1.66 1.88 7.80 2.70 3.84 4.85
Totals .	1222	957	2 65	624	341	515	335	1063	159	\$141.88	\$27.40

Comparative Financial Statement.

Receipts:— Cash on hand at beginning	1914-1915.	1915-1916.	
of school year From fees	\$12 78 123 48	\$141 88	
From sale of tooth brushes and powder	128 75	\$265 01	\$274 38
Expenditures:— For supplies	\$265 01	\$220 02	φ
Cash on hand at close of school year		\$265 01	\$274 38

REPORT OF SCHOOL NURSE FOR YEAR ENDING JUNE 28, 1916.

					School			-			PUPI	LS E		RTED	то	CLI	NICS			_	Ę		er- ons	*Cont	agion d in	Ho		
		- 1	No Pu _l		s in S		ection or		Eye	E	ar	Thro	at *	Medica	Sur	gical	Ski	n I	Dental		Visio							R E M A R K S
DATE	Visits to School of Hospita	or al	New	Old										New				PIO		Optician	Corrected	Tonsils	Adenoids	School	Ноше	New	Old	
September .	Schools	60	322	188	65	96	6					1 .				1			1					1		10	32	Assisted doctors in medical inspection.
October	Hospitals Schools	73	231	335	108	114	11		. 1	1		1	1 .		. 1	1	1					. 2	2	2		18	34	One child taken to Psycopathic, rospital for physical and physical greatest. One child taken to hospital for an operation. Assisted doctors in medical insection. One child taken to Boston Disponent for none and threat operation. One child taken to Boston Disponent for none and threat operation.
	Hospitals Schools	67	287	321	131	89	6	3	3	·	2		2	1	. 1		2			. 3	1	1	1	2	2	28	34	Assisted doctors in medical inspection. Treated a child for a bad but. Secured aken for a child out of school for the lack of them. Clothing secured for needy children
December .	Hospitals Schools	ŏ5	110	261	122	83	9		. 1								1			. 2	1			4	5	18	22	Assisted doctors in medical inspection. Six children taken to Boston Dispensary for treatment.
January	Hospitals Schools Hospitals	69	181	215	115	39	4	5	4											. 6	6					16	28	One child sent to Maspital for Examination. Two children supplied with glasses by Associated Charles. One shild sent to Maspital for Examination. Two Children with glasses by Associated Charles. One hold sent to Maspital for Examination. Assisted doctors in medical inspection.
February	Schools Hospitals	69	370	214	114	101	7		. 4					1	1					. 3	4			6		20	31	Arranged for twelve children to be taken to Forsyth Dental Infirmatical Inspection. One child with sentic log referred to beyond for treatment. Secured clothing and shope for needy children
March	Schools Hospitals	68	599	285	133	90	4	2	1					2				1	17 36	3	2			4		5	6	Thirteen children taken to Forsyth Dental Infirmary. One child taken to Boston Dispensary and glasses ordered. Reported condition in two homes to Board of Health. One family reported to S. P. C. C. Assisted doctors in modical increasion.
April	Schools Hospitals	46	377	188	81	79		. 3	3					1	. 1				8 26	5 5	2					13	35	Assisted doctors in medical inspection. Conditions in one home reported to Board of Health. One child taken to Eve and Ear Infirmaty. Two children taken to Roston Dispensary and glasses ordered.
	Schools Hospitals	68	127	276	89	58			. 1		j 	5 .				.			8 39	2	2			2	2	22	24	One child taken to Massachusetts General Hospital for examination. Secured glasses for two children. One child taken to Psyconathic Hospital for re-examination. Clothing secured for children in two needs families.
	Schools Hospitals	73 6	189	210	92	65	4	1	1				•••	1				1	15 39	9						24	28	Assisted doctors in medical inspection. Two children taken to Psycopathic, Hospital for physical and physiologic tests. One child taken to Homeopathic Hospital. One child taken to boston Dispensary for nose and throat operation. One child taken to Boston Dispensary for nose and throat operation. One child taken to Boston Dispensary for nose and throat operation. One child found with Inguinal Hernia. Treated a child for a bad burn. Secured shoes for a child out of school for the lack of them. Clothing secured for needy children One child found with Inguinal Hernia. Assisted doctors in medical inspection. Six children taken to Boston Dispensary for treatment. One child taken to hospital for examination. Two children supplied with glasses by Associated Charities. One child saken to hospital for reamination. Two children supplied with glasses by Associated Charities. One child sent to Massachusetts General Hospital for treatment. Neglected family reported to S. P. C. C. One boy sent to hospital for surgical operation. Assisted doctors in medical inspection. Arranged for twelve children to be taken to Forsyth Dental Infirmary. Assisted doctors in medical inspection. One child with septic leg referred to hospital for treatment. Secured clothing and shoes for needy children. Thirteen children taken to Forsyth Dental Infirmary. One child taken to Boston Dispensary and glasses ordered. Reported condition in two homes to Board of Health. One family reported to S. P. C. C. Assisted doctors in medical inspection. Assisted doctors in medical inspection. Conditions in one home reported to Board of Health. One child taken to Eye and Ear Infirmary. Two children taken to Boston Dispensary and glasses ordered. One child taken to Psycopathic Hospital for reexamination. Secured glasses for two children. One child taken to Psycopathic Hospital for reexamination. Arranged for treatment and operations at several hospitals during the vacation. One child taken to Eye and Ear Infirmary and operation found necessary.
Total	Schools Hospitals	648 2	793	2493	1050	811	51	11	19	1	2	7	3	5 1	4	2	4		19 13	24	18	3	3	21	9	174	274	

^{*}Treated by family physician or dentist.



STATEMENT CONCERNING THE ISSUING OF EMPLOYMENT CERTIFICATES, 1916.

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

Boys.—14-year-old	196 179	057
Girls.—14-year-old	123 121	375
		244
Grand total		619

The following table shows the grades last completed by these pupils:—

	Boys.	Girls.	Total.
High, graduate	1		1
High, third year	1		1
High, second year	5	18	23
High, first year	36	21	57
Ninth	114	52	166
Eighth	65	50	115
Seventh	62	49	111
Sixth	41	27	68
Fifth	23	14	37
Fourth	9	5	14
Girls' Vocational		8	8
Boys' Vocational	17		17
Special	1		1
	375	244	619

Table showing cities in which these children found employment:—

	Boys.	Girls.	Total.	
Somerville	113	46	159	
Cambridge	50	124	174	
Boston		64	270	
All others	6	10	16	
	375	244	619	

Table showing kind of work which these children entered:—

	Boys.	Girls.	Total.	
Department stores	24	29	53	
Factories:—				
Candy	5	58	63	
Rubber	4	11	15	
Jewelry	25	25	50	
Box	1	46	47	
Shoe	2	11	13	
Miscellaneous	42	47	89	
Errands and office	180	4	184	
Industries	17	4	21	
Miscellaneous	7 5	9	84	
	375	244	619	

SOMERVILLE TEACHERS' ASSOCIATION.

Officers, 1916.

President, Harry L. Jones.

Vice-President, Arthur L. Doe.

Secretary-Treasurer, Mary F. Osborne.

Executive Committee:—

Superintendent Charles S. Clark, ex-officio.

Sarah H. Christie, Prescott. Frances E. Robinson, Hanscom. Alice C. Ray, Morse. Cara M. Johnson, Burns.

Mary S. Richardson, Proctor. Annie G. Smith, Brown. Mrs. Nellie G. Stewart, Highland. Minnie A. Perry, Knapp.

L. Gertrude Allen, Perry.
Sue A. Fitzpatrick, Baxter.
Mrs. Stella M. Hadley, Cummings.
George M. Wadsworth, Pope.
Ruth E. Clarke, Glines.
Elizabeth J. Mooney, Bingham
Alice C. Ray, Morse Leila L. Rand, Carr. Grace E. Packard, Durell.

The meetings held under the auspices of this association in the year 1916 were as follows:—

April 14—Business meeting and lecture by James P. Haney of New York City on "Industrial Art." May 11—Social, "Old English Festival."

SOMERVILLE TEACHERS' CLUB.

Officers, 1916-1917.

President, Miss Elizabeth M. Collins.

Vice-Presidents, { Miss Alice W. Cunningham, Miss M. Eva Warren.

Recording Secretary, Miss Lucia Alger.

Corresponding Secretary, Miss G. Marion Lovering.

Treasurer, Miss Mary L. Johnston.

Auditor, Miss Elizabeth Hersey.

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 25—Readings from "Pickwick Papers"......Frank Speaight February 15—Bungalow party. Hereford Musical Club, entertainers. March 29—Annual meeting.

Reading, "The French Canadian Habitant".. Mabel Austin Gannet

May 16-Benefit night.

Mrs. Grace Bonner Williams, Soprano. Mr. Carl Webster, 'Cellist. Mr. Carl Lamson, Accompanist.

December 20—Christmas party. Concert by Hereford Club.

HIGH SCHOOL ATHLETIC ASSOCIATION.

Report of Treasurer, January 1, 1917.

Receipts:-	-										
Balance	on har	nd Sep	tembe	er 1,	1916	•		•		\$14	53
From Se	omervi	lle Hi	gh Sc	chool	Ath	letic	Ass	ocia:	tion		
	bershi									105	50
From ga				•						3,995	
From m	iscella:	neous		•							15
2 10111 111			·	•	·	Ť	·	·	4		
То	tal red	eipts		•	•		•			\$4,122	18
Disbursem	ents:-	_									
Police				•	•			•		\$320	00
Visiting	teams								•	1,150	78
Officials										255	00
Miscella										276	33
Supplies			•							1,070	
Ticket so			•		·		•				00
Printing				·	•			Ť	·		75
Track			•	·	·	·		·			71
Salaries		•	•	•	•	•	•	•	•	670	
Salaries	•	• •	•	•	•	•	•	•	•	0.0	00
То	tal di	sburser	nents	•				•		\$3,840	95
To	tal re	ceipts		•	•	•		•	\$4,122		
То	tal exp	penses	•	•	•	•	•	•	3,840	95	
Ra	lance								\$281	23	
Balance or		Ianua	rv 1	1917	•	į	Ţ,	•	7-01	\$281	23
Daiance Of	i mamo	Janua	, i y i,	1011	•	•	•	•	•	7-0-	

Respectfully submitted,

AUGUSTUS B. TRIPP,

Treasurer.

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31.

SUMMARY OF STATISTICS.

1.—POPULATION	AND S	СНО	OL CENS	SUS.	
Population, state census, 1895 Population, United States cen Population, state census, 1905 Population, United States cen Population, state census, 1915 Children between five and six 1915, by school census	sus, 1906 sus, 1916 teen yea	0 0 ars o	f age, Oc	 tober,	52,200 61,643 69,272 77,236 86,854 15,156
2SCHO	OL BUI	LDII	NGS.		
Number of school buildings Number of classrooms in use in Valuation of school property	n June	•	1915. 27 308 01,714 \$1,9	1916. 27 313 901,700	Change. 0 +5
3.—1	TEACHE	RS.	1018	1010	G.
In high schools			1915. 76 172	1916. 77 35 152	Change. +1 +35 20
In primary schools	•••••		100 8 280 6	105 8 265 7	+5 0 15 +1
Vocational school for girls Atypical classes Cadet teachers Special	• • • • • • • • • • • • • • • • • • • •		9 2 7 14	9 2 5 12 412	$\begin{array}{c} 0 \\ 0 \\ -2 \\ -2 \\ +18 \end{array}$
Total		7O.D	394	412	₹18
4.—ATTEND Entire enrollment for the yea Average number belonging Average number attending Per cent. of daily attendance High school graduates Grammar school graduates	r	, 1 1	YEAR. *1915. .4,505 2,903 2,189 94.5 311 789	*1916. 14,647 13,191 12,323 93.4 348 781	Change. +142 +288 +134 -1.1 +37 -8
5.—COST OF SC	HOOL 1	MAIN	TENAN	CE.	
Salaries of teachers Salaries of officers Cost of books and supplies Cost of light Cost of janitors' services Cost of fuel Telephones	\$349,98 7,600 29,07 5,75 32,67 18,36	0 00 8 41 5 42 3 32	*1 \$356,198 7,750 25,378 6,232 34,576 20,196 810	00 63 57 78 92	Change. +\$6,216 98 +150 00 -3,699 78 +477 15 +1,903 46 +1,830 92 +286 57
Total cost of day and even- ing schools	443,97	7 69 4 41	451,142 34	99	+7,165 30 0 21
tion Per capita cost		1 90		05 98	+654 53 0 92
*School year.	11				

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1916.

rten.	Total.	Administrative.	Books.	White Paper.	Manila Paper,	Blank Books.	Pencils, Pens, etc.	Bookbinding.	Seat Work and Kindergarten Supplies.	Manual Training Supplies.	Drawing Supplies.	Laboratory Supplies.	Bookkeeping Blanks.	Domestic Science Supplies.	Printing.	Travel.	Graduation;	Postage.	Tuition and Board of Truants.	Miscellaneous.	Equipment.	Tele Se
	\$83,980 72		\$2,241 09	\$802 66	\$118 00	\$558 38	\$378 13	\$358 08		\$572 57	\$560 29	\$647 68	\$786 57	\$5 17	\$335 51	\$5 85	\$195 71	\$74 00		\$561 04	\$1,851 07	5
	1,637 14		414 85	3 60	1 50		8 33	13 10	•••••	37 90	37 83		38 26	7 40	8 00					17 18	631 00	
	5,948 35		618 63	6 79	19 70		4 10	10 50	*****	3 10	34 62		41 86	34 66	8 63	15 40	*11*11	1 25		6 47	402 55	
	10,861 89		140 56	36 40	44 12	7 83	20 16		5 25	2 96	22 71	• • • • • •	• • • • •	• • • • •		75	13 77	• • • • • •		24 42	90	
00	10,342 86		148 82	38 12	49 46	8 61	20 83	• • • • •	50 93	99	44 50	• • • • •	•••••	• • • • •			• • • • •	• • • • •	• • • • • •	4 89	62	
62	10,185 30		101 05	47 23	39 55	8 51	33 08		76 99	60 26	36 05		• • • • • •	• • • • •	• • • • •	0.00	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	185 30	63	
00	5,435 44		42 81	24 38 70 10	14 35	3 66	9 83	45	28 47	01.00	3 59	• • • • •	•••••		• • • • • •	3 20	10.00	• • • • •		3 70		
	13,024 39		394 73	79 16 26 72	81 27	28 55	60 67	33 50	4 55 1 87	24 38	20 97	• • • • •		• • • • •	• • • • •	3 80	18 22	*****		18 73	2 69	
	5,077 21		23 36 209 78	69 53	27 71 54 58	1 50 9 84	18 79 30 26	36 60	6 32	99 16 82	ន 66 19 74	• • • • •	• • • • • •	•••••	• • • • • •		14 11	• • • • • •		4 72	71	
	11,397 98		107 24	52 87	41 57	14 63	35 95	43 85		28 43	25 96	* * * * * *	*****	• • • • • •	• • • • •	3 67	14 05	*****		$\begin{array}{ccc} 32 & 29 \\ 22 & 52 \end{array}$	2 85	
•	9.770 24 3,287 67		40 37	11 73	10 45		10 15		34 51		10 45			•••••				•••••	• • • • •	9 65	21 09	
• • •	12,723 44	* * * * * *	365 86	85 65	56 41	• • • • • •	23 45	46 20	1 88	3 94	25 73		• • • • •		*****	3 57	16 92	• • • • •		17 59	5 55	
12	13,922 64		145 22	58 35	39 16	7 17	27 70	23 20	97 53	2 96	16 65		• • • • • •				8 89		• • • • • •	15 21	90	
10	13,009 89		150 94	106 08	68 13	12 87	41 95	5 25	2 02	199 08	29 33			89 14	15 20	12 93	22 38	5 40		14 09	90 90	
	15,123 88		290 38	75 18	44 55	14 62	35 25	16 65	5 57	2 96	19 19			• • • • •		4 45	15 37			21 61	11 34	
	16,236 23		153 32	66 20	57 36	15 00	40 07	12 60	56 19	24 42	17 51		••••	•••••		6 90	14 38			22 23	35 50	
	12,213 76	••••	193 36	65 63	48 35	16 78	23 48	19 15	59 65	14 14	31 40					8 78	12 64	• • • • •		20 02	2 70	
	6,283 63		S0 82	23 02	27 15	8 61	15 45		5 17	3 04	10 18				• • • • •			• • • • •	• • • • •	6 25		
	3,270 14	••••	46 48	7 22	10 87	3S	2 05		3 81		6 25						• • • • •			1 82		
	7,698 17		194 98	34 35	40 41	6 35	21 92	• • • • •	20 80	1 97	13 31					3 10				10 16	• • • • •	
	10,778 67		153 33	64 20	28 55	9/25	38 99	22 30	12 31	26 45	14 72					6 11	9 70		• • • • •	11 33	6 56	
	12,504 90		179 55	63 29	32 93	3 93	28 04	63 60	* *****	64 79	7 61	• • • • •	• • • • •		• • • • • •	3 70	25 89		• • • • •	14 49	11 06	
	12,762 86	• • • • •	361 62	78 96	69 64	6 94	57 35	18 10	12 05	33 87	19 74					3 50	8 25	*****		10 87	41 92	
٠	14,364 12		365 49	76 73	32 77	19 82	42 02	63 15	12 76	39 01	56 46					4 40	8 91	54	• • • • •	95 11	56 32	
	3,131 23	• • • • •	39 43	12 65 28 58	17 30		1 28	99.05	15 38	• • • • •	19 13		• • • • •	• • • • •	•••••	• • • • • •	* * * * * *	• • • • •		2 67	•••••	1
• - •	6,501 20		111 17	28 98 71	32 83		33 50	23 85	21 02		9 31		• • • • •	• • • • • •			• • • • •	• • • • •	•••••	8 26	• • • • •	
• • •	1,695 75 7,476 00	* * * * * *	1 00	41 93	1 83 3 70	9 65	12 16 48	•••••	1 44	1 11	4 26	• • • • •	• • • • • •	•••••	40.07	41.71	8 82	1 00		$\frac{27}{14}$	161 23	
	7,592 65		1 38	40		3 00	4 12		* * * * * *	72 55	89 01 2 43	• • • • • •	• • • • • •	39 89	40 27 32 11	41 71 5 00	25 42	14 00		47 77	41 48	
	4,074 00			52 57	4 96	9 41	44 62			3 42	2 43 97 82	• • • • •	105 88		60 95	3 50	5 88	4 50	*****	11 24		
• • •	2,307 00		3 75	11 81	6 39		9 76				97 52 33	*****			10 80		7 10	9 83	• • • • • •	96	* * * * * *	
	883 50			6 86	5 S5	75	80		• • • • • •	• • • • •		• • • • •			7 53	• • • • •			• • • • • •		• • • • • •	
	259 00								• • • • • •				• • • • • •		7 00						•••••	
		\$7,900 00	35 13	6 22		2 11	8 30			• • • • •	09				163 20	†400 63		199 68		188 58	56 65	1
	•••••		23 13	119 45	38 55	18 33	7 57	45 75	47 82		22 69			4 38	410 25	3 40	50	08	\$1,200 73	282 95	57 24	
•••	810 00	• • • • •	••••			• • • • •	• • • • • •		•••••	•••••	• • • • • • • • • • • • • • • • • • • •		••••							••••	• • • • • •	1
75	\$359,602 15	\$7,900 00	\$7,379 63	\$2,284 63	\$1,109 95	\$806 48	\$1,154 55	\$855 88	\$584 29	*\$1,212 11	\$1,333 55	\$647 6S	\$972 57	\$180 64	\$1,092 45	\$544 35	\$446 91	\$310 28	\$1,200 73	‡\$1,707 78	\$3,492 86	\$6
											; hardware, \$253.70	0				†Includes main	tenance of automobi	ile, \$261.64	1	Includes maps and a Typewriter supplie	charts	\$130.49 82.14

 ypewriter supplies
 82.1

 xpressage
 109.4

 taino tuning
 38.2

 aths
 118.0

 ardens
 72.6

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED

	ع	<u> </u>	TEACHERS—	ARIES-		7							Seat Work and	Manual		
SCHOOLS.	Pagular	Substitute.	Special,	Kindergarten.	Total.	Administrative.	Books.	White Paper.	Manila Paper.	Blank Books.	Pencils, Pens, etc.	Bookbinding.	Kindergarten Supplies.	Training Supplies.	Drawing Supplies,	Laboratory Supplies.
	Regular.		\$420 22		\$83,980 72		\$2,241 09	\$802 66	\$118 00	\$558 38	\$378 13	\$358 08	•••••	\$572 57	\$560 29	\$647 68
High	\$83,509 50	\$51 00 1 50	110 64		4,637 14		414 85	3 60	1 50	,,,,,,	8 33	13 10		37 90	37 83	φονι οσ
East Somerville Junior High	4,525 00		110 64		5,948 35		618 63	6 79	19 70		4 10	10 50		3 10	34 62	•••••
Winter Hill Junior High	5,828 75	9 00	554 64		10,861 89		140 56	36 40	44 12	7 83	20 16		5 25	2 96	22 71	• • • • • •
Prescott	10,255 00	52 25 99 00	214 24	\$1,145 00	10,342 S6		148 82	38 12	49 46	8 61	20 83		50 93	99	44 50	
Hanscom	8,884 62	99 00 60 00	150 43	\$1,145 00 1,173 62	10,185 30		101 05	47 23	39 55	8 51	33 08		76 99	60 26	36 05	
Bennett	8,801 25	30 00	138 44	1,173 02	5_435 44		42 81	24 38	14 35	3 66	9 83	45	28 47	00 20	3 59	*****
Baxter	4,042 00	100 50	720 14	,	13,024 39		394 73	79 16	81 27	28 55	60 67	33 50	4 55	24 38	20 97	• • • • • •
Knapp	12,203 75		187 96	* * * * * *	5,077 21		23 36	26 72	27 71	1 50	18 79		1 87	99	3 66	
Perry	4,845 50	43 75 51 00	666 98		11,397 98		209 78	69 53	54 5S	9 84	30 26	36 60	6 32	16 82	19 74	
Pope	10,680 00	39 00	751 54		9.770 24		107 24	52 87	41 57	14 63	35 95	43 85		28 43	25 96	• • • • • •
Bell	8,979 7 0	39 00 30 50	84 42	• • • • •	3,287 67		40 37	11 73	10 45		10 15		34 51		10 45	•••••
Cummings	3,172 75		589 57	• • • • •	12,723 44		365 86	85 65	56 41	• • • • •	23 45	46 20	1 88	3 94	25 73	• • • • • •
Edgerly	12,052 37	81 50	553 26	1 917 19	12,723 44 13,922 64		145 22	58 35	39 16	7 17	27 70	23 20	97 53	2 96	16 65	• • • • • •
Glines	12,104 00	$\frac{48}{28} \frac{25}{75}$	348 89	1,217 13			150 94	106 08	68 13	12 87	41 95	5 25	2 02	199 08	29 33	*****
Forster	12,632 25			•••••	13,009 89		290 38	75 18	44 55	14 62	35 25	16 65	5 57		19 19	
Bingham	14,422 50	83 00	618 38	• • • • •	15,123 88		153 32	66 20	57 36	15 00	40 07	12 60	56 19	2 96		• • • • • •
Carr	15,360 00	67 00	809 23	• • • • •	16,236 23		193 36	65 63	48 35	16 78	23 48	19 15	59 65	24 42	17 51	• • • • • •
Morse	11,618 45	67 00	528 31	• • • • •	12,213 76			23 02						14 14	31 40	• • • • • •
Proctor	5,972 01	77 75	233 87	• • • • •	6,283 63		80 82		27 15	8 61	15 45	• • • • •	5 17	3 04	10 18	
Durell	3,170 00	16 00	84 44	•••••	3,270 14		46 48	7 22	10 87	38	2 05	• • • • •	3 81	1.08	6 25	
Burns	7,422 25	86 00	189 92	• • • • • •	7,698 17		194 98	34 35	40 41	6 35	21 92	90.90	20 80	1 97	13 31	• • • • •
Brown	10,145 19	99 00	534 48		10,778 67		153 33	64 20	28 55	9 25	38 99	22 30	12 31	26 45	14 72	• • • • •
Highland	11,601 50	12 50	890 90	• • • • •	12,504 90		179 55	63 29	32 93	3 93	28 04	63 60	10.05	64 79	7 61	• • • • •
Hodgkins	12,060 51	107 75	594 60		12,762 86		361 62	78 96 76 79	69 64	6 94	57 35	18 10	12 05	33 87	19 74	
Cutler	13,582 89	184 75	596 48		14,364 12		365 49	76 73	32 77	19 82	42 02	63 15	12 76	39 01	56 46	
Lincoln	3,020 00	44 75	66 43		3,131 23		39 43	12 65	17 30		1 28		15 38	• • • • •	19 13	• • • • •
Lowe	6,302 50	84 00	114 70		6,501 20		111 17	28 58	32 83		33 50	23 85	21 02		9 31	•••••
Atypical	1,695 75				1,695 75			71	1 83		12		1 44	1 11	4 26	
Boys' Vocational	7,476 00			• • • • • •	7,476 00		1 00	41 93	3 70	9 65	16 48			72 55	89 04	
Girls' Vocational	7,580 15	12 50	• • • • •		7,592 65		1 38	40		3 00	4 12				2 43	
Evening, High	4,074 00				4,074 00			52 57	4 96	9 41	44 62			3 42	97 82	
Evening, Bell	2,307 00				2,307 00		3 75	11 81	6 39		9 76				33	
Evening, Highland	883 50				883 50			6 86	5 85	75	80					
Evening, Practical Arts	289 00				289 00							••••				
Administration						\$7,900 00	35 13	6 22		2 11	8 30		•••••	•••••	09	
Miscellaneous						• •	23 13	119 45	38 55	18 33	7 57	45 75	47 82		22 69	
Dental	810 00				810 00		• • • • •						••••			
Dental																
Totals	\$342,309 64	\$1,668 00	\$10,863 76	\$4,760 75	£359,602 15	\$7,900 00	\$7,379 63	\$2,284 63	\$1,169 95	\$806 48	\$1,154 55	\$855 88	\$584 29	*\$1,242 11	\$1,333 55	\$647 68

*Lumber, \$988.41; hardware, \$253.70

ROLLED BY THE SCHOOL BOARD FOR THE YEAR 1916.

Laboratory Supplies.	Bookkeeping Blanks.	Domestic Science Supplies.	Printing.	Travel.	Graduation.	Postage.	Tuition and Board of Truants.	Miscellaneous.	Êquipment.	Telephone Service.	Electric Service. (Power.)	Totals.	śćnooùś.
\$647 68	\$786 57	\$5 17	\$335 51	\$5 85	\$195 71	\$74 00		\$561 04	\$1,851 07	\$72 04	\$153 00	\$10,276 24	····· High
	38 26	7 40	8 00		•••••			17 18	631 00	4 77	4-50-00	1,223 72	East Somerville Junior High
	41 86	34 66	8 63	15 40		1 25		6 47	402 55	4 18	*****	1,212 44	Winter Hill Junior High
				7 5	13 77			24 42	90	28 67		348 50	Prescott
					,			4 89	62			367 77	Hanscom
					• • • • • • • • • • • • • • • • • • • •			185 30	63	1 20		589 85	Bennett
				3 20				3 70				134 44	Baxter
				3 80	18 22			18 73	2 09	22 36		792 98	Knapp
								4 72	71			110 03	Perry
					14 11			32 29	2 85	20 45		523 17	Pope
				3 67	14 05			22 52	21 09	19 95		431 78	Bell
								9 65				127 31	Cummings
				3 57	16 92			17 59	5 55	22 88		675 63	Edgerly
					8 89			15 21	90	19 82		462 76	Glines
		89 14	15 20	12 93	22 38	5 40		14 09	90 90	28 57		894 26	Forster
				4 45	15 37			21 61	11 34	20 03		577 15	Bingham
				6 90	14 38			$22 \ 23$	35 50	24 86		546 54	Carr
				8 78	12 64			20 02	2 70	19 82		535 90	Morse
								6 25		22 72		202 41	Proctor
								1 82				78 88	Durell
				3 10				10 16				347 35	Burns
				6 11	9 70			11 33	6 56	21 72		425 52	Brown
				3 70	25 89			14 49	11 06	20 75		519 63	Highland
				3 50	8 25			10 87	41 92	19 82		742 63	Hodgkins
				4 40	8 91	54		95 11	56 32	24 67		898 16	Cutler
								2 67	• • • • •		• • • • •	107 84	Lincoln
• • • • •								8 26			• • • • • •	268 52	Lowe
	• • • • • •						• • • • •	27			0.40	9 74	Atypical
	• • • • •		40 27	41 71	8 82	1 00		14 29	161 23	45 79	349 43	896 89	Boys' Vocational
• • • • •		39 89	32 11	5 00	25 42	14 00	• • • • •	47 77	41 48	32 69	• • • • • •	249 69	Girls' VocationalEvening, High
	105 88		60 95	3 50	5 88	4 50	• • • • • •	11 24	• • • • •		• • • • • •	404 75	Evening, Ingit
• • • • •	• • • • •	• • • • •	10 80		7 10	9 83	• • • • •	06	• • • • • •	•••••	• • • • • •	59 83 21 79	Evening, Highland
• • • • • •	• • • • •		7 53				• • • • •	• • • • •	• • • • • •		• • • • •		Evening, Practical Arts
• • • • •	• • • • •	• • • • •								******	•••••	1,257 57	Administration
• • • • • •	•••••	*****	163 20	†400 63		199 68		188 58	56 65	196 98	•••••	2,283 02	Miscellaneous
	• • • • •	4 38	410 25	3 40	50	08	\$1,200 73	282 95	57 24	20	• • • • •		Dental
•••••	• • • • •		• • • • • •	• • • • • •	• • • • • •	• • • • •	• • • • • •						Dental
\$647 68	\$972 57	\$180 64	\$1,092 45	\$544 35	\$446 91	\$310 28	\$1,200 73	‡\$1,707 78	\$3,492 86	\$694 94	\$502 43	\$28,604 69	Totals
			··· «/3		tenance of automobi			† Includes maps and Typewriter supplie Expressage Piano tuning Baths Gardens	S	82.14 109.41 38.25 178.06	For supplies For salaries Total spent from Co	······ <u>·</u>	900,00



6.—MISCELLANEOUS.

	*1915.	*1916.	Change.
Paid for new school buildings	\$9,745 09	\$81,183 73	+\$71,438 64
Repairs and permanent im-	•		
provements	28,211 77	21,634 32	-6,57745
Total school expenditures	481,934 55	553,961 04	+72,02649
Number of dollars spent to	·		·
maintain schools out of			
every \$1,000 of valuation	5 75	5 69	-0 06
Valuation of city	77,153,500 00	79,304,329 00	+2,150,82900
Number of dollars spent for	•	, ,	
all school purposes out			
of every \$1,000 of valua-			
ation	6 24	6 98	+0.74
¥C 1 1			

^{*}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, 1916, is \$451.142.99.

This includes the sums spent for care of school buildings. including janitors' services, fuel, lights, 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 of school buildings is wholly in

charge of the City Government.

The amount paid for janitors is	\$34,667 43
The cost of fuel is	20,196 92
The cost of light is	6,232 57
_	
A total cost of	\$61,096 92
The cost per capita	4 63
Cost of repairs	\$21,634 32

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:-

		DAY So	CHOOLS.	EVENING	Schools.
Expenditures.	Total.	High and Vocational.	Elementary.	High and Vocational.	Elementary
Officers' Salaries Office Expenses Textbooks Stationery and Supplies Other Expenses	\$7,750.00 1,932.07 7,359 63 13,886.56 694.83 2,224.92	\$3,028.69 6,897.22 188.36 561.27	\$4,285 94 6,664.85 502.97 1,451.85	\$45.00 262.25 3.50 204 70	\$62.24 7.10
Total	\$33,848.01	\$10,675.54	\$12,905.61	\$515.45	\$69.34

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:—

						DAY S	CHOOLS.	Evening	Schools.
Exp	endi	tur e s.			Total.	High and Vocational.	Elementary.	High and Vocational.	Elementary.
Supervisors Principals Teachers		•	•	•	\$5,520.26 35,737.00 314,940.80	\$418.70 6.586.00 92,938.10	\$5,101,56 27,890,00 216,360,20	\$462.00 3,162.00	\$799.00 2,480.50
Total .				•	\$356,198.06	\$09,942.80	\$249,351.76	\$3,624.00	\$3,279.50

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

The total outlay for the school year ending June 30, 1916, is as follows:—

\$61,096	92
33,848	01
356,198	
\$451,142	99
21.634	32
81,183	
\$553,961	04
	33,848 356,198 \$451,142 21,634 81,183

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

	1911.	1912.	1913.	1914.	1915.	1916.
Janitors' salaries	\$0.071	\$0.071	\$0.082	\$0.079	\$0.074	\$0.077
Heat and light	0.053	0.054	0.055	0.060	0.054	0.059
Administration	0.019	0.020	0.018	0.018	0.017	0.017
School supplies	0.068	0.076	0.065	0.065	0.067	0.058
Teachers' salaries	0.789	0.779	0.780	0.778	0.788	0.789
T-4-1	\$1,000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000
Total	φ1.000	\$1.000	φ1.000	φ1.000	Ψ1.000	φ1.000

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

	Hi	igh Schoo	ols.	Grammar and Primary Schools.			All Day Schools.			
	1915.	1916.	Change	1915.	1916.	Change	1915.	1916.	Change	
Instruction Supplies Care	\$42 66 5 81 5 30	\$41 71 4 84 6 11	-\$0 95 -0 97 +0 81		\$23 19 1 27 4 05	+\$0 09 -0 19 +0 12	\$26 16 2 14 4 14	\$26 11 1 84 4 38	-\$0 05 - 0 30 + 0 24	
Total	\$53 77	\$ 52 66	\$1 11	\$28 49	\$28 51	+\$0 02	\$ 32 44	\$32 33	-\$0 11	

THE PER CAPITA COST OF DAY SCHOOLS FOR 1915 AND 1916.

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

	1912.	1913.	1914.	1915.	1916.
Cost of instruction Cost of supplies Cost of care	2 12	1 91	1 89	2 03	1 78
Total	\$29 72	\$30 63	\$30 71	\$30 85	\$31 41

An examination of these tables shows that we have paid ninety-five cents less for the instruction of each pupil in the High School than in 1915, and ninety-seven cents less per pupil for supplies.

The grammar and primary schools have cost nine cents more per pupil for instruction, and nineteen cents less for supplies.

The amount spent for the school year 1916 was \$5.69, or six cents less than was spent in 1915. The amount yielded for each child in the average membership of the schools for 1916, not including the vocational schools, was \$31.41.

Comparative Per Capita. According to the annual report of the State Board of Education for 1915-16, the amount yielded for each child in the average membership of the public schools was \$34.49, giving to Somerville the rank of 151 among the cities and towns of Massachusetts. In 1914-15 the rank was 116. By the same report it is shown that Somerville appropriated to the support of the public schools \$5.82 for each thousand dollars of valuation, and had the rank of 155. The year before the amount spent was \$6.08 and the rank 152.

Teachers' Salaries.

The	salaries	paid	to	teachers	in	January,	1917,	are	as
follows:-	_								

10110 115.			
1 man	\$3,200 2,400	13 women	\$875
1 man	2,400 $2,250$		850 825
I man		7 women	
l man	2,100	1 man, 198 women	800
11 men, 2 women	2,000	1 man, 11 women	750
3 men	1,900	1 man, 16 women	700
1 man	1,850	5 women	650
1 woman	1,800	12 women	600
5 men	1,700	1 woman	550
1 man, 1 woman	1,500	9 women	525
1 man	1,400	5 women	500
3 men	1,300	3 women	475
1 man	1,250	4 women	450
3 women	1,200	3 women	425
2 men	1,150	1 woman	400
3 men, 1 woman	1,100	2 women	360
2 men, 4 women	1,050	5 women	350
3 men, 8 women	1,000	1 woman	300
1 man, 7 women	OF0	8 women	200
	000	O WOINCH	200
2 men, 23 women	. 300		

SIGHT AND HEARING.

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

Tested	1916. 11,869 1,536 12.9 1,052 152	1915. 12,028 1,691 14.1 1,016 212	Change1591551.2 +-3660
EARS.			
m 1	1916.	1915.	Change. +20
Tested Defective	$12,492 \\ 271$	12,472 284	—13
Per cent. defective	2.2	2.3	-0.1
Notices sent to parents	177	154	+23
Professionally treated	24	27	-3

TABLE 1.—SCHOOLHOUSES.

	Enlargements,	8 rooms added 1906 30 rooms added 1913 11 rooms added 1916 4 rooms added 1894	{ 4 rooms added 1882 } 4 rooms added 1892	5 rooms added 1896 6 rooms added 1899	4 rooms added 1894 8 rooms added 1904		4 rooms added 1891		6 rooms added 1915	4 rooms added 1907	
	When Built.	1895 1871 1867 1889 1891 1874	1871	1891 1866	1886	1898	1880	1896	1912	1902 1897	
	Valuation, including Furniture.	\$390,000 105,200 55,500 83,600 48,900	48,000	93,400 102,000	78,000	56,000	71,600	98,700	107,700	48,000 70,500	\$1,516,100
	How Ventilated.	Fan Fan Fan Gravity Gravity	Gravity	Gravity Gravity	Gravity	Gravity	Gravity	Gravity	Fan E	Gravity Fan	
	How Heated.	Steam Steam Steam Steam Steam Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	
	Material.	Brick Brick Brick Brick Brick Brick	Brick	Brick Brick	Brick	Brick	Brick	Brick	Brick	Brick Brick	
-	Size of Lot, includ- ing Space Occupied by Build- ing.	* 49,310 24,517 27,236 29,860	24,000	28,800 30,632	35,586	20,450	23,260	35,034	53,729	21,964 16,767	
	No. of Sittings.	1,786 941 617 577 503	572	672 817	770	705	582	809	748	499 482	11,449
-	No. of Classrooms.	a43 13 12 12	12	14 23	16	17	22	14	18	20	263
	NAME.	High West School East HPrescott Knapp Bell Bell	Edgerly	Glines	Bingham	Carr	Highland	Hodgkins	Cutler	Bennett	Carried forward .

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

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

TABLE 1 (Concluded).—SCHOOLHOUSES.

Enlargements.	4 rooms added 1907 4 rooms added 1899	
When Built.	1901 1905 1905 1903 1901 1901 1884 1884 1884 1884	
Valuation, including Furniture.	\$1,516,100 44,000 42,000 48,000 48,000 34,300 9,000 9,000 14,600 21,900	\$1,901,700
How Ventilated.	Gravity Gravity Gravity Gravity Gravity Gravity Furnace Furnace Gravity Gravity	
How Heated.	Steam Steam Steam Steam Steam Steam Furnace Furnace Furnace Steam	
.lsirətsM	Brick Brick Brick Brick Brick Wood Wood Wood	
Size of Lot, includ- ing Space Occupied by Build- ing.	26,733 ** 16,080 21,650 11,000 46,080 8,850 30,155 11,300 11,300 11,662	
No. of Sittings.	11,449 484 484 404 298 298 298 196 196 189	$\overline{14,342}$
No. of Classrooms.	263 100 888888 6644444	331
МАМ Е.	Brought forward. Brown Proctor Burns. Lowe Baxter Perry Girls' Vocational Cummings Durell.	Total

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

* State property.

TABLE 2.—COST OF MAINTAINING SCHOOLS

FOR SCHOOL YEAR 1915-16.

Schools.	FROM SCHOOL A	PPROPRIATION.	SPENT BY CITY GOVERNMENT.	Total.
	Instruction and Supervision.	Supplies.	Care.	
High	\$85,873 97	\$9,969 06	\$12,585 35	\$108,428 38
Prescott	13,008 78	638 25	2,314 05	15,961 08
Knapp	13,455 68	749 49	1,943 30	16,148 47
Pope	11,843 56	715 00	2,050 13	14,608 69
Bell	9,962 19	554 55	1,587 80	12,104 54
Edgerly	13,441 37	730 27	1,645 27	15,816 91
Glines	14,462 43	695 53	2,411 99	17,569 95
Forster	17,742 99	1,475 44	3,447 49	22,665 92
Bingham	15,887 14	717 50	2,179 58	18,784 22
Carr	16,617 03	733 11	2,418 91	19,769 05
Morse	12,613 16	660 91	1,734 78	15,008 85
Brown	10,838 36	595 47	1,563 16	12,996 99
Highland	12,835 04	812 01	2,045 89	15,692 94
Hodgkins	13,164 94	740 18	1,608 14	15,513 26
Cutler	13,981 30	1,049 79	3,149 44	18,180 53
Bennett	10,292 66	695 19	2,296 89	13,284 74
Hanscom	11,235 24	535 82	1,563 93	13,334 99
Proctor	6,398 17	291 29	1,624 94	8,314 40
Burns	7,890 84	412 44	1,450 08	9,753 36
Lowe	6,835 65	315 04	1,448 05	8,598 74
Baxter	5,588 42	193 11	1,201 77	6,983 30
Perry	5,300 88	252 17	1,319 21	6,872 26
Cummings	3,351 25	154 38	1,225 21	4,730 84
Durell	3,349 72	109 60	971 62	4,430 94
Lincoln	3,195 29	130 30	1,125 89	4,451 48
Atypical	1,741 32	$50 \ 42$	264 67	2,056 41
Boys' Vocational .	7,683 69	1,195 52	1,250 08	10,129 29
Girls' Vocational .	8,217 45	391 32	1,133 98	9,742 75
Evening	7,139 54	534 85	1,535 32	9,209 71
Total	\$363,948 06	\$26,098 01	\$61,096 92	\$451,142 99

TABLE 3.—PER CAPITA COST OF MAINTAINING SCHOOLS
FOR SCHOOL YEAR 1915-16.

Schools.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$41 71 23 83 26 18 23 83 24 05 24 43 24 07 22 22 24 37 21 06 24 58 25 57 25 32 22 02 22 82 18 91 21 12 22 29 19 31 22 00 21 64 20 69 22 18 22 34 58 04 10 58	\$4 84 1 17 1 46 1 44 1 33 1 31 1 17 2 00 1 00 1 07 1 10 1 35 1 62 1 42 1 65 1 54 90 96 1 17 89 76 1 03 95 73 91 1 68 79 1 27 1 88	\$6 11 4 24 3 78 4 12 3 80 2 94 4 07 4 68 3 05 3 55 2 90 3 54 4 08 3 09 4 96 5 09 2 63 5 36 4 10 4 09 4 73 5 38 7 56 6 43 7 87 8 82 2 27 4 05 4 41	\$52 66 29 24 31 42 28 39 28 96 28 30 29 67 30 75 26 27 28 99 25 06 29 47 31 27 29 83 28 63 29 45 22 44 27 44 27 56 24 29 27 49 28 05 29 20 29 34 31 12 68 54 13 64 28 51 32 54
Boys' Vocational . Girls' Vocational .	134 80 106 72	20 97 5 08	21 93 14 73	177 70 126 53

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.

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

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

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

TABLE 5.—ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.
[Based on the average membership.]

Supervision Expenses Light Lig					8		
1887 16 68 1 45 2 37 20 50 27,469,300 .00388 1888 16 21 1 36 2 54 20 11 28,756,400 .00384 1889 16 20 1 66 2 24 20 10 30,004,600 .00399 1890 16 06 1 60 2 18 19 84 32,557,500 .00395 1891 17 54 2 14 2 71 22 39 36,843,400 .00395 1892 17 66 1 84 2 56 22 06 38,093,100 .00407 1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898	Year.	and	Supply	Water, Heat, and	Total.		
1887 16 68 1 45 2 37 20 50 27,469,300 .00388 1888 16 21 1 36 2 54 20 11 28,756,400 .00384 1889 16 20 1 66 2 24 20 10 30,004,600 .00399 1890 16 06 1 60 2 18 19 84 32,557,500 .00395 1891 17 54 2 14 2 71 22 39 36,843,400 .00395 1892 17 66 1 84 2 56 22 06 38,093,100 .00407 1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898	1886	\$ 16.76	\$ 1 3 <i>4</i>	\$1.04	\$20.03	\$26,002,200	00204
1888 16 21 1 36 2 54 20 11 28,756,400 .00384 1889 16 20 1 66 2 24 20 10 30,004,600 .00399 1890 16 06 1 60 2 18 19 84 32,557,500 .00395 1891 17 54 2 14 2 71 22 39 36,843,400 .00395 1892 17 66 1 84 2 26 22 90 44,142,900 .00407 1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 14							
1889 16 20 1 66 2 24 20 10 30,004,600 .00399 1890 16 06 1 60 2 18 19 84 32,557,500 .00395 1891 17 54 2 14 2 71 22 39 36,843,400 .00395 1892 17 66 1 84 2 56 22 06 38,093,100 .00407 1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898 20 80 1 70 3 28 25 78 51,202,350 .00478 1900 21 67 1 60 3 24 26 51 52,513,400 .00496 1901							
1890 16 06 1 60 2 18 19 84 32,557,500 .00395 1891 17 54 2 14 2 71 22 39 36,843,400 .00395 1892 17 66 1 84 2 56 22 06 38,093,100 .00407 1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898 20 83 1 65 3 22 25 70 50,739,700 .00460 1899 20 80 1 70 3 28 25 78 51,202,350 .00478 1900 21 67 1 60 3 24 26 51 52,513,400 .00521 1902							
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1893 17 84 1 40 2 70 21 94 41,773,600 .00379 1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898 20 83 1 65 3 22 25 70 50,739,700 .00460 1899 20 80 1 70 3 28 25 78 51,202,350 .00478 1900 21 67 1 60 3 24 26 51 52,513,400 .00496 1901 22 67 1 87 3 56 28 10 53,924,200 .00521 1902 22 52 1 86 3 19 27 57 55,485,370 .00517 1903 22 67 1 95 3 84 28 46 56,981,360 .00535 1904							
1894 18 43 1 51 2 96 22 90 44,142,900 .00374 1895 18 92 1 98 2 86 23 76 46,506,300 .00390 1896 20 00 2 18 3 17 25 35 49,013,050 .00418 1897 20 98 1 73 3 29 26 00 50,173,775 .00444 1898 20 83 1 65 3 22 25 70 50,739,700 .00460 1899 20 80 1 70 3 28 25 78 51,202,350 .00478 1900 21 67 1 60 3 24 26 51 52,513,400 .00496 1901 22 67 1 87 3 56 28 10 53,924,200 .00521 1902 22 52 1 86 3 19 27 57 55,485,370 .00517 1903 22 67 1 95 3 84 28 46 56,981,360 .00535 1904 23 03 1 93 3 52 28 48 58,056,700 .00544 1905							
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1904	23 03	1 93	3 52	28 48		
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1908 24 21 2 17 3 65 30 03 63,158,400 .00578 1909 24 06 1 76 3 66 29 48 63,659,210 .00575 1910 23 05 2 03 3 59 28 67 66,376,338 .00559 1911 23 50 1 95 3 62 29 07 67,284,066 .00552 *1912 23 61 2 12 3 99 29 72 69,632,540 .00556 *1913 24 54 1 91 4 18 30 63 71,848.811 .00559 *1914 24 55 1 89 4 27 30 71 74,887,800 .00568 *1915 24 90 2 03 3 92 30 85 77,153,500 .00575	1906	22 63	1 92	3 45	28 00	60,371,500	.00546
1909 24 06 1 76 3 66 29 48 63,659,210 .00575 1910 23 05 2 03 3 59 28 67 66,376,338 .00559 1911 23 50 1 95 3 62 29 07 67,284,066 .00552 *1912 23 61 2 12 3 99 29 72 69,632,540 .00556 *1913 24 54 1 91 4 18 30 63 71,848.811 .00559 *1914 24 55 1 89 4 27 30 71 74,887,800 .00568 *1915 24 90 2 03 3 92 30 85 77,153,500 .00575	1907	22 93	2 04	3 65	$28 \ 62$	61,527,750	.00554
1910 23 05 2 03 3 59 28 67 66,376,338 .00559 1911 23 50 1 95 3 62 29 07 67,284,066 .00552 *1912 23 61 2 12 3 99 29 72 69,632,540 .00556 *1913 24 54 1 91 4 18 30 63 71,848.811 .00559 *1914 24 55 1 89 4 27 30 71 74,887,800 .00568 *1915 24 90 2 03 3 92 30 85 77,153,500 .00575	1908	24 21	2 17		30 03	63,158,400	.00578
1911 23 50 1 95 3 62 29 07 67,284,066 .00552 *1912 23 61 2 12 3 99 29 72 69,632,540 .00556 *1913 24 54 1 91 4 18 30 63 71,848.811 .00559 *1914 24 55 1 89 4 27 30 71 74,887,800 .00568 *1915 24 90 2 03 3 92 30 85 77,153,500 .00575	1909	24 06	1 76		29 48	63,659,210	.00575
*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	1910	23 05	2 03	3 59	28 67	66,376,338	.00559
*1913		23 50	1 95			67,284,066	.00552
*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	*1912	23 61	2 12			69,632,540	.00556
*1915 24 90 2 03 3 92 30 85 77,153,500 .00575	*1913	24 54	1 91				.00559
	*1914	24 55					.00568
*1016 96 95 1 99 4 41 29 54 70 204 220 00560							.00575
1910 20 25 1 65 4 41 55 54 19,504,525 .00509	*1916	26 25	1 88	4 41	32 54	79,304,329	.00569

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

TABLE 6.—AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

			1	
YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes.
1886	\$ 15,515	\$8,706	\$99,865	\$114,086
1887	14,839	13,636	106,563	135,038
1888	4,996	13,994	110,354	129,344
1889	20,167	14,225	119,703	154,095
1890	75,775	19,168	128,684	223,627
1891	84,902	14,847	145,588	245,337
1892	12,679	17,734	155,183	176,001
1893	22,809	12,440	158,333	193,582
1894	82,206	44,764	165,155	292,125
1895	87,680	15,651	180,951	284,282
1896	61,016	33,240	204,743	298,999
1897	46,621	20,507	$223,\!273$	290,400
1898	49,983	21,274	233,465	304,722
1899	72,516	15,637	244,915	333,068
1900	51,232	21,745	260,403	333,380
1901	49,203	11,000	280,796	340,999
1902	56,501	13,079	286,747	356,327
1903	59,822	12,261	304,946	377,029
1904	23,703	18,209	315,904	357,816
1905	51,987	8,306	321,677	381,970
1906	38,457	11,951	329,346	379,754
1907	31,804	18,008	340,852	390,664
1908	18,271	17,792	365,151	401,214
1909	828	21,195	366,149	388,172
1910		21,864	371,222	393,086
1911	7,149	18,911	371,579	397,639
*1912	35,527	14,163	389,431	439,121
*1913	34,866	19,341	402,092	456,299
*1914	120,913	19,700	425,165	565,778
*1915	9,745	28,212	443,978	481,935
*1916	81,184	21,634	451,143	553,961

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

Total in school

TABLE 7.—POPULATION AND SCHOOL CENSUS.

1842		•	1,01	3	1895	•	•	-52 ,	200		1909			75,500	
1850			3,54	0	1900			61,	643		1910			77,236	
1860			8,02	5	1901			63,	000		1911			78,000	
1865			9,36	6	1902			65,	273		1912	•		80,000	
1870			14,69	3	1903			67,	500		1913	•		81,000	
1875			21,59	4	1905	•		89,	272		1914			85,000	
1880			24,98	5	1906			70,	875		1915			86,854	
1885			29,99	2	1907			72,	000		1916			88,000	
1890			40,11	7	1908	•		75,	500						
					Scl	hoo	1 (Cens	us.						
									1914		1915.			1916.	
				s (school ols (scho					10.98 1,9		11,867 1,981			$11,115 \\ 2,057$	
То	tal				•				12,92	 25	13,848			13,172	
Numbe	er o	f c	ompu	lsory sel	hool aş	ge,	7 to	o 13	inclu	sive:	_				
				egistrations, males	• ,	•		•	•	4,305 4,332	}	a=	•		
In pr	iva	te	schoo	ols, male female		•		•		717 758		37			

1,475

10,112

TABLE 8.—ATTENDANCE OF THE PUBLIC SCHOOLS FOR THE SCHOOL YEAR 1915-16.

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.	Average No. to Classroom in June.					
44	High	2,130	2,059	1,930	93.7	2,091	1,999	26*					
12	Prescott	639	546	514	94.1	550	530	45					
12	Hanscom	693	594	551	92.8	571	553	46					
12	Bennett	513	451	420	93.1	436	463	39					
6	Baxter	277	254	215	84.6	221	223	37					
13	Knapp	567	514	490	95.3	505	512	39					
6	Perry	280	245	231	94.3	240	245	41					
12	Pope	567	497	471	94.8	513	472	39					
10	Bell	449	418	394	94.3	405	400	40					
4	Cummings .	199	162	149	92.0	166	157	39					
12	Edgerly	627	559	526	94.1	566	537	45					
13	Glines	675	592	552	93.2	577	593	46					
17	Forster	820	737	684	92.8	729	732	4 3					
16	Bingham	798	715	668	93.4	725	705	44					
18	Carr	756	682	641	94.0	685	668	37					
12	Morse	620	599	563	94.0	560	556	46					
7	Proctor	341	303	282	93.1	292	300	43					
4	Durell	180	151	140	92.7	163	154	38					
8	Burns	413	354	333	94.1	365	358	45					
10	Brown	502	441	415	94.1	441	439	44					
12	Highland .	529	502	479	95.4	514	494	41					
1 3	Hodgkins .	621	520	495	95.2	504	527	41					
16	Cutler	661	635	597	94.0	586	574	36					
4	Lincoln	193	143	131	91.6	167	139	35					
8 2	Lowe	395	354	308	87.0	348	325	41					
2	Atypical	30	30	26	86.7	28	30	15					
4	Boys' Vocational	65	57	53	93.0	55	44	• • • •					
6	Girls' Vocational	107	77	65	84.4	75	63	• • • •					
313	Total	14,647	13,191	12,323	93.4	13,078	12,792						
308	Total for 1914-15	14,505	12,903	12,189	94.5	12,911	$\frac{-}{12,574}$						
			1	1]	1							

Per teacher.

TABLE 9.—STATISTICS OF HIGH SCHOOL FOR SCHOOL YEAR SEPTEMBER 8, 1915, TO JUNE 28, 1916.

Number of teachers, including head	ma	ster	•	•	•	75
Number of days school kept .		•	•			187
Number enrolled		•		•		2,130
Average number belonging .		•				2,059
Average daily attendance						1,930
Average daily attendance Per cent. of attendance						93 8
Tardiness						4,540
Tardiness	Ĭ.	Ť	•	·	Ť	683
In Class 1920-A February, 1916	•	•	•	•	•	276
June	•	•	•	•	•	236
Per cent, of loss	•	•	•	•	•	
	•	•	•	•	•	14.5
In Class 1919-B September, 1915	•	•	•	•	•	538
June	•	•	•	•	•	464
Per cent. of loss	•	•	•	•	•	13.8
In Class 1919-A February, 1915.	•	•	•			226
June	•					173
Per cent, of loss						23.5
In Class 1918-B September, 1915						388
June						342
Per cent. of loss	Ĭ		Ť	·	•	11.9
In Class 1918-A September, 1915	•		•		•	154
June	•	•	•	•	•	123
Per cent. of loss	•	•	•	•	•	
	•	•	•	•	•	21.1
In Class 1917-B September, 1915	•	•	•	•	•	295
June	•	•	•	•	•	258
Per cent. of loss	•	•	•	•		12.5
In Class 1917-A September, 1915			•		•	108
June	•					97
Per cent. of loss						10.2
In Class 1916-B September, 1915						265
June						$26\overline{5}$
Per cent. of loss	Ĭ			•	·	0
In Class 1916-A September, 1915	•	•	•	•	•	88
February	•	•	•	•	•	85
Per cent. of loss	•	•	•	•	•	
	•	•	•	•	•	3.4
Special students, September, 1915	•	•	•	•	•	15
June Total, September, 1915	•	•	•	•	•	45
	•	•	•	•	•	2,077
June	•	•	•	•		1,999
Per cent. of loss			•	•		3.8
Number of graduates, male . Number of graduates, female .						150
Number of graduates, female.						198
Total						348
Average age, male graduates .					-	18 yrs.2 mos.
Average age, female graduates	Ĭ.			·	•	18 yrs.3 mos.
Number entering college	•	•	•	•	• •	71
Number entering college	ion1	cohoo	ıle.	•	•	
Number of graduates entering techn	ol a	obool	12	•	•	9
Number of graduates entering norm	al S	CHOOL	э.	•	•	20
Cost of instruction	•	•	•		•	\$84,379 05
Cost of supplies	•	•	•	•		9,125 87
Total cost		•	•	•		93,504 92
Per capita cost of instruction .	•	•				40 98
Per capita cost of supplies						4 43
Total cost per capita						45 41
•						

TABLE 10.—PUPILS BY GRADES, JUNE, 1916.

		TE	ACHE	RS.	1	Pupils.		Neve First	
6	Grade.		Wor	nen.				Befo	ore.
School.	GRADE.	Men.	Regular.	Assistants.	Boys.	Girls.	Total.	Sept.	Feb.
High	Special Thirteenth Twelfth Eleventh Tenth				24 153 183 205 332	21 205 198 310 368	45 358 381 515 700		
	Total	24	52		897	1,102	1,999		
Grammar	Ninth Eighth Seventh Sixth Fifth Fourth	11	22 27 26 27 26 30	1 1	380 508 542 505 563 641	432 525 596 502 514 656	812 1,033 1,138 1,067 1,077 1,297		
	Total gram- mar · · ·	11	158	2	3,139	3,225	6,364		
Primary	Third Second First		33 33 32	2 2 3	661 631 738	680 683 655	1,341 1,314 1,393	957	460
	Total pri- mary		98	7	2,030	2,018	4,048		
	Total gram- mar and primary .	11	256	9	5,169	5,243	10,412		
	Kindergarten.		4	4	96	104	200	1	
	Specials Cadets	6	13 6 2 9		28 12 44	16 18 63	30 44 63		
	Grand Total .	45	342	13	6,246	6,546	12,792		

TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS, 1915—1916.

	High School.	Grammar and Primary Schools.	Kinder-	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment	2,130	12,012	303	65	107	30	14,647
Average membership	2,059 1,930	10,767 10,063	201 186	57 53	77 65	30 26	13,191 12,323
Per cent. of attendance	93.7	94.3	92.5	93.0	84.4	86.7	93.4
Number cases of tardiness	4,540	4,139		28	629	37	9,373
Number cases of dismissal	6 83	2,466		2		12	3,163
Number cases of punishment		186				••	186
Membership, October, 1915	2,091	10,617	212	55	75	28	13,078
Membership, June, 1916	1,999	10,456	200	44	63	30	12,792

TABLE 12.—NUMBER OF PUPILS ADMITTED TO GRADE I IN SEPTEMBER AND FEBRUARY.

	Cal	nool.			1913	3-14.	1914	-15.	1915	-16.
	SCI	1001.			Sept.	Feb.	Sept.	Feb.	Sept.	Feb.
Prescott					33	13	58	11	45	23
Hanscom					81	24	82	24	66	2 0
Bennett					76	21	65	9	73	26
Baxter .					40	14	$\parallel 32$	17	31	15
Knapp.					31	14	9	15	27	14
Perry .	•				43	1	33	12	64	12
Pope .					29	11	42	6	36	8
Bell .										
Cummings			•		50	9	61	15	51	13
Edgerly					35	. 15	33	10	26	17
Glines.					41	17	42	31	43	26
Forster					60	21	42	21	44	33
Bingham					64	21	57	27	51	25
Carr .					50	21	55	16	56	21
Morse .					52	21	44	23	61	23
Proctor					44	10	43	8	25	16
Durell .					24	16		8	23	11
Burns .					47	25	58	27	16	17
Brown .					16	16	47	20	47	22
Highland						••				
Hodgkins		•			54	14	50	25	19	23
Cutler .		•			55	26	0	0	43	0
Lincoln							45	30	44	18
Lowe .	•	•	•	•	43	22	65	12	64	77
Total					968	352	966	367	955	460
Grand Tota	1				1,8	320	1.8	333	1,4	115

TABLE 13.—GRAMMAR SCHOOL GRADUATES, 1916.

											Diplomas.	Certifica	nber ated for School.	Number Entering High School.		
			Sc	нос)LS.							Number receiving	Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
Prescott .				•	•							53	9	44	5	37
Knapp .												69	1	67	0	53
Pope .											•	55	16	38	8	25
Bell							٠			•	•	56	9	47	7	41
Edgerly .												64	3	55	2	41
Glines .									•			36	3	29	2	24
Forster		•							•			90		86		70
Bingham.		•	•				•					60	4	51	2	35
Carr .		•	•	•		•	•	•		•	•	55	6	40	6	38
Morse .		•	•	•	•		•		•	•		46	4	42	$\begin{bmatrix} 2\\3\\7 \end{bmatrix}$	32
Brown .		•	•			•	•	•	•	•	•	38	3	34	3	32
Highland	•	•	•	•	•	•	•	•	•	•	•	96	8	7 9		71
Hodgkins			•	•	•	•			•	•	•	29	4	25	4	25
Cutler .		•		•	٠	•	•	•	•	٠	•	34	19	15	15	12
Total .	•	•	•	•	•	•		•	•		•	781	89	652	63	536

TABLE 14.—COMPARATIVE STATISTICS OF THE ATTEND-ANCE DEPARTMENT FOR THE SCHOOL YEAR 1915—1916.

	1915.	1916.	Change.
Niverban of wigits to the geheald			
Number of visits to the schools	823	819	_4
Number of cases investigated	1,455	1,250	—205
Number of cases found to be truancy or	1,562	1,357	-205
absenteeism	40=	0.00	4~
Number of different pupils who were tru-	405	360	—4 5
ants or habitual absentees	014	050	E =
Number who were truants for the first time	311	256	-55 5 c
Number who were truants for the second	, 244	188	— 56
time	4.	40	. ~
Number who were truants for three or	44	49	+5
more times	00	10	
Number of girls who were truants or ab-	23	19	-4
sentees			_
Number of cases of parental neglect of	52	45	7
children found and reported to charitable			
institutions			
Number of cases of removal of children	6	5	-1
from the custody of parents by order			
of the court			
Number of visits to mercantile or manufac-	3	2	-1
		O. bree	
turing establishments	58	37	—21
without employment certificates	66	56	-10
Number of employers fined for working			
boys during school hours	• •	1	• •
Number of employment certificates issued		o b	
to boys	210	357	+147
Number of employment certificates re-		0	
issued to boys	115	202	+87
Number of employment certificates issued			
to girls	103	258	+155
Number of employment certificates re-			
issued to girls	64	131	+67
Number of educational literate certificates			
issued to minors over 16 years of age	1,158	1,390	+232
Number of newspaper licenses issued to			
boys 12 to 16 years of age	194	185	9
Number of transfer cards investigated .	1,401	1,449	+48
Number of truants in the County Training			
school at the close of the year	16	18	+2
Amount paid for board of truants	941.86	885.26	-56.60
Salary of Attendance Officer, Benjamin			
R. Jones	1,350.00	1,350.00	
	4		7

TABLE 14 (Continued).—COMPARATIVE STATISTICS OF THE ATTENDANCE DEPARTMENT.

For School Year 1915-1916.

Disposition of truancy and absenteeism cases:—	
Warned and returned to school	149
Transferred to other schools	10
Obtained certificates (14 to 16 years)	30
Left school (over 16 years)	11
Removed from city	16
Brought before court and returned to school	14
Brought before court and sent to Training School	8
Appealed to Superior Court and sent to Training School	1
Returned to Training School for breaking parole	1
Parents brought before court for keeping children out of	0
school (convicted)	$\frac{2}{5}$
Sent to Lyman School	5
Sent to State School for Boys	Ţ
Sent to Concord Reformatory	1
Given in charge of State Board of Charity	1
Given in charge of Society Prevention of Cruelty to Children	1
Given in charge of Home for Destitute Catholic Children	4
Pending, 1 absentee	1
	256
	200

TABLE 14-A.—TRUANCIES AND ABSENTEEISM BY AGES AND GRADES.

Grade.			BY AGES.								BY AGES.							T-4-1
		6	7	8	9	10	11	12	13	14	15	16 or Over	Totals.					
I II		2 1	$egin{array}{c} 3 \\ 12 \end{array}$	$\frac{2}{9}$	7				••				7					
III	٠		$\begin{bmatrix} 12 \\ 2 \end{bmatrix}$	$\frac{3}{4}$	9	$\begin{array}{c c} 5 \\ 1 \end{array}$	3	1	•••	• •		• •	34					
IV	•	• •		4	7	10	6	9	9	• •		• •	20					
V		• •	• •		1	4	9	5	3	2	$\frac{\cdot \cdot}{2}$		45					
vi		• •	• •	• •	_	1	6	20	16	7	4	1	$\frac{26}{55}$					
VII		• •	• •	• •	• •	_	1	10	24	18	6	1 1	55					
VIII		• •	• •	• •	• •	• •	_	1	13	16	12	1	60					
IX		• •	• •	• •	• •	• •	••		1	6	11	1	43					
X		• •	• •	• •	• •	• •	• •	• •	1	6	8	$\frac{1}{3}$	19					
XI		• •	• •	• •	• •	• •	• •	• •	_	1	1	4	18					
XII						• •		•••	••		1	5	$\frac{6}{6}$					
XIII		• •						• •	••	••		$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$	$egin{array}{c} 0 \\ 2 \end{array}$					
Vocational 1st	17.	• •						• •	••	6	3	1	10					
	yr.	• •						• •	••									
Ungraded.	y1.		i	1	2	1			2	1	1		9					
										1			9					
Total		3	18	20	26	22	25	46	69	63	49	19	360					

TABLE 14-B.—TRUANTS AND ABSENTEES BY SCHOOLS.

School. No. of 1r	uants.
High	31
Prescott	22
Hanscom	10
Bennett	8
Baxter	0
Knapp	15
Perry	14
Pope	24
Bell	20
Cumming's	12
Edgerly	18
Glines	3
Forster	2
Bingham	21
Carr	13
Morse	17
Proctor	2
Durell	5
Burns	3
Brown	1
Highland	5
Hodgkins	4
Cutler	7
Lincoln	1
Lowe	7
Vocational School for Boys	9
Vocational School for Girls	2
St. Joseph's Parochial	34
Not attending school; found on street	50
Total	360

TABLE 15.—ATTENDANCE IN ELEMENTARY EVENING SCHOOLS FROM OCTOBER, 1915, TO MARCH, 1916.

		Bell.	Highland.	Total.
Enrolled	Male Female	421 124	90 39	511 163
	Total	545	129	674
Ave. membership	Male Female	141 67	54 26	195 93
	Total	208	80	288
Ave. attendance	Male Female	101 53	39 19	140 72
	Total	154	58	212
Per cent. Att. out of No. belonging		74.0	72.5 45.0	73.6
Ave. No. of teachers	Male Female	1 14	2 3	3 17
	Total	15	5	20
No. of sessions		77	77	
Teachers, cost of		\$2,396.00	\$883.50	\$3,279.50
cost of		458.51	276.52	735.03
	Total	\$2,854.51	\$1,160.02	\$4,014.53
Cost per pupil per evening . Cost per evening Cost per pupil in ave. membership Cost per pupil in ave. attend- ance		\$0.178 37.07 13.72	\$0.188 15.07 14.52 20.00	\$0.180 52.14 13.94

TABLE 15 (Concluded).—Evening High School, Season of 1915—1916.

	Male. F	emale.	Total.
Enrolled	464	309	773
Average membership	232	155	387
Average attendance	181	137	318
Number of teachers	10	10	20
Number of sessions	 .		58
Cost of instruction		24 00	
Cost of janitors, fuel, supplies and light		48 36	
Total cost,		72 36	
Cost per pupil per evening		\$0 204	
Average attendance: October, 511; Novem 357: January 261: February 244: March 318	ber, 418	; Dece	ember,

TABLE 16.—GRAMMAR SCHOOL GRADUATES FOR A SERIES OF YEARS.

Per cent. Entering of those Graduating.	57.86 67.23 61.62 60.30 65.04 68.18	76.00 74.19 73.56 73.72	75.90 74.80 70.40 71.68 76.40 77.410	74.26 73.68 70.12 75.65	79.21 78.45 76.70	72.95
Entered High School.	184 199 228 240 253 253	281 273 281 345	312 372 350 367 463 474 561	551 546 521 609 538	587 619 599	10,900
Per cent. of Aver- age Membership Graduating.	5.24 5.90 5.97 5.89 7.87	5.13 4.84 5.60 6.60	4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	7.13 7.00 7.10 7.97 7.96	7.32	6.22
Average Membership of Grammar and Primary Schools.	6,062 6,035 6,525 6,674 6,600 6,955	7,201 7,602 8,029 8,351	8,689 8,811 9,328 9,739 10,298 10,209	10,410 10,582 10,451 10,101 9,806	9,901 10,098 10,765 10,998	40,085
Total.	318 296 370 398 389 374	368 382 468	484 497 4884 512 606 640	742 741 743 805 781	781	14,942 240,082
Cutler.				S	35 30 34	138
Brown.				942344	51 51 38	407
Bingham.			8 8 1 3 3 1	36 38 39 47 47	46 51 58 60	509
Carr.		88		80 00 00 00 00 00 00 00 00 00 00 00 00 0	61 655	897
Glines.		22 22 23 24 24 25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	62 4 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4485588	28 67 86 36	797
.eniAgboH		45 39	6.0 4 5.2 5.2 4 5.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6	623251	22 23 28 28	949
Knapp.	32 32 32 44	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25 6 4 8 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	88 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	59 58 70 69	1,241
Pope.	3 5 5 6 3 5 5 6	30 30 30 47 30 30	4 4 6 8 8 8 4 4 8	485288	55 55	1,057
Edgerly.	39 49 46 41 42	46 29 40	44454448	028 88 88 07 88 07	65 67 64	1.359
Highland.	54 64 68 68 73	70 41 49	43 67 65 109 126	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	113 85 105 96	2,057
Morse.	55 63 63 63 63 63	88 84 84 84 84 84	2 4 4 8 4 4 4 4 1 8 7 8 9 4 4 4	17 4 4 8 8 8 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	44 38 29 46	1,303
Forster.	24 14 15 16 16 17 18 18 18	72 50 31 62	43 62 62 62 64 74 64 75 75 75 75 75 75 75 75 75 75 75 75 75	1282321	66 77 80	1,770
Bell.	106 73 36 60 29 32	34 39 50 50	4 8 8 4 4 8 4 7 5 6 4 7 5 6 4 7 5 6 4 7 5 6 4 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	50 50 50 50 50 50 50 50 50 50 50 50 50 5	34 72 61 56	1,399
Prescott.	54 44 40 39 39	88 88 98 72 73	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	24 2 8 8 9 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	41 62 40 53	1,059
YEAR.	1890 1891 1892 1893 1894	1896 1897 1899	1900 1901 1902 1904 1905 1906	1908 1909 1910 1911 1912	1913 1914 1915 1916	

TABLE 17.—ATTENDANCE STATISTICS

FOR A SERIES OF YEARS.

December.	Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Number of Tardinesses.	Ratio of Tardiness to Average Attendance.
1886	6,350	4,985	4,678	93.8	2,834	0.606
1887	6,605	5,198	4,879	93.8	2,699	0.553
1888	7,262	5,488	5,174	94.0	2,938	0.549
1889	7,757	5,956	5,585	93.8	2,780	0.498
1890	7,878	6,485	6,075	93.6	3,133	0.516
1891	8,510	6,502	6,091	93.7	3,182	0.522
1892	9,120	7,035	6,608	93.9	3,181	0.481
1893	9,632	7,217	6,790	94.1	3,375	0.497
1894	9,387	7,212	6,840	94.8	3,000	0.419
1895	9,913	7,617	7,255	95.2	2,736	0.377
1896	10,582	8,077	7,663	94.9	2,743	0.358
1897	11,293	8,589	8,144	94.8	2,486	0.305
1898	11,577	9,085	8,636	95.1	2,941	0.341
1899	11,975	9,502	8,965	94.3	2,566	0.286
1900	12,345	9,823	9,174	93.4	2,759	0.300
1901	12,499	9,991	9,350	93.6	2,937	0.294
1902	13,116	10,402	9,733	93.5	3,335	0.343
1903	13,475	10,719	10,056	93.9	3,428	0.342
1904	13,804	11,094	10,422	93.9	3,887	0.373
1905	14,296	11,543	10,897	94.4	3,746	0.344
1906	14,551	11,762	11,069	94.1	4,046	0.366
1907	14,802	11,909	11,166	93.8	4,170	0.373
1908	15,105	12,159	11,458	94.2	3,882	0.344
1909	15,363	12,423	11,666	93.9	4,422	0.379
1910	14,481	12,131	11,435	94.3	4,320	0.378
1911	14,301	11,871	11,186	94.2	6,017	0.538
*1912	13,272	11,710	11,083	94.6	6,307	0.569
*1913	13,491	11,903	11,216	94.2	7,354	0.655
*1914	13,932	12,320	11,610	94.2	7,380	0.635
*1915	14,505	12,903	12.189	94.5	8,000	0.656
*1916	14,647	13,191	12,323	93.4	9,373	0.761

^{*}June.

TABLE 18.—MEMBERSHIP, ETC., OF HIGH SCHOOL

FOR A SERIES OF YEARS.

		OK K BEKIL			
YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1867	2,157	119	5.51	7	0.32
1868	2,285	141	6.17	17	0.75
1869	2,480	158	6.37	$\frac{11}{25}$	1.01
		165			
1870	2,639		6.25	16	0.65
1871	2,549	161	6.31	33	1.29
1872	2,799	186	6.64	21	0.75
1873	3,217	190	5.91	28	0.87
1874	3,265	198	6.06	26	0.79
1875	3,515	213	6.06	31	0.88
1876	3,712	226	6.09	33	0.81
1877	3,788	227	5.91	37	0.98
1878	3,992	250	6.26	31	0.78
1879	4,169	246	5.90	34	0.82
1880	4,278	254	5.93	27	0.63
1881	4,064	256	6.29	34	0.84
1882	4,263	280	6.57	33	0.77
1883	4,438	278	6.26	43	0.97
1884	4,804	315	6.55	46	0.96
1885	4,904	385	7.85	46	0.94
1886	4,985	374	6.70	56	1.12
1887	5,198	387	7.44	53	$1.12 \\ 1.02$
1888	5,488	435	7.92	60	
1889	5,956	444	7.45	67	1.09
1890	6,485	487	7.51	60	1.12
1891	6,502	535	8.23	68	0.93
1892	7,035	577	8.20	80	1.05
1893	7,217	626	8.67	82	1.14
1894	7,274	691	9.50		1.14
1895	7,617	775	10.17	111	1.52
1896	8,077	858	10.62	92	1.21
1897	8,589	885	10.02	119	1.47
1898	9,085	890	9.80	121	1.59
1899	9,502	985	10.70	130	1.43
1900		1,031	10.49	137	1.49
1901	$9,823 \\ 9,991$	1,098	10.49	131	1.33
1902	10,402	1,138	10.99	152	1.52
1902	10,402	1,208	11.27	164	1.58
1904	11,094	1,286	11.60	181	1.70
1904	11,543	1,372		179	1.61
1906	11,762	1,473	$\begin{array}{c} 11.89 \\ 12.52 \end{array}$	211	1.83
1907	11,702	1,614	13.55	208	1.77
1908	12,159	1,707	14.04	223	1.87
1909		1,828		235	1.93
1909 1910	12,423	1,796	14.71 14.80	265	2.13
1910	12,131	1,836	14.80 15.47	266	2.20
*1912	11,871	$\frac{1,830}{2,023}$		277	2.33
	11,710	2,023	17.28	296	2.53
*191 3	11,903	2,081 $2,111$	17.48	296	2.48
*1914 *1915	11,610	$2,\overline{111}$ $2,\overline{258}$	18.18	273	2.35
*1916	12,903 1 3 ,191	2,288 $2,288$	$17.50 \\ 17.35$	311	2.41
1910	10,191	2,200	11.00	348	2.64

For school year ending June 30.

TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING JANUARY 28, 1916.

Grade.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted More than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I III IV V VI VII VIII IX	1,513 1,443 1,378 1,265 1,063 1,065 1,149 1,025 780	1,200 1,223 1,131 1,013 779 758 789 668 593	55 69 96 136 163 191 235 226 127	242 128 117 83 109 95 95 113 38	16 23 34 33 12 21 30 18 22	3 7 10 8 3 5 11 3 11	$egin{array}{c} 1 \\ 4 \\ 9 \\ 6 \\ 1 \\ 5 \\ 1 \\ 0 \\ 1 \\ \end{array}$
Total	10,681	8,154	1,298	1,020	209	61	28

Percentage of Promotions for Semester Ending January 28, 1916.

Grade.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted More than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I III IV V VI VII VIII IX	100 100 100 100 100 100 100 100	79.3 84.7 82.1 80.0 73.3 71.2 68.7 65.2 76.0	3.6 4.8 7.0 10.8 15.3 18.0 20.5 22.1 16.3	16.0 8.9 8.5 6.6 10.3 8.9 8.1 11.0 4.9	1.1 1.6 2.4 2.6 1.1 1.9 2.7 1.7 2.8	$egin{array}{c} 0.2 \\ 0.5 \\ 0.7 \\ 0.6 \\ 0.3 \\ 0.5 \\ 1.0 \\ 0.3 \\ 1.4 \\ \end{array}$	1.3 3.7 7.8 5.2 6.0 2.7 0.5
Average	100	76.3	12.2	9.6	1.9	0.6	2.2

TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING JUNE 26, 1916.

GRADE.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted more than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I II III IV V VI VII VIII IX	1,416 1,354 1,328 1,318 1,091 1,033 1,134 1,042 824	1,110 1,138 1,101 1,057 848 759 836 756 650	68 80 106 150 147 179 199 192 129	204 91 93 96 71 83 76 88 37	34 45 28 15 25 12 23 6 8	25 20 8 11 3 0 8 	$egin{array}{c} 0 \\ 4 \\ 6 \\ 5 \\ 5 \\ 1 \\ 4 \\ \cdots \\ 2 \\ \end{array}$
Total	10,540	8,255	1,250	839	196	83	27

Percentage of Promotions for Semester Ending June 26, 1916.

Grade.	On Promotion List.	Unconditionally Promoted One-half Grade.	Promoted on Trial.	Retarded One-half Grade.	Promoted more than One-half Grade.	Special Promotions during the Semester.	Promotees Dropped Back after Two Months' Trial.
I III IV V VI VII VIII IX	100 100 100 100 100 100 100 100 100	78.4 84.1 82.9 80.2 77.7 73.5 73.7 72.6 78.9	4.8 5.9 8.0 11.4 6.5 17.3 17.6 18.4 15.6	14.4 6.7 7.0 7.3 13.5 8.0 6.7 8.4 4.5	$\begin{array}{c} 2.4 \\ 3.3 \\ 2.1 \\ 1.1 \\ 2.3 \\ 1.2 \\ 2.0 \\ 0.6 \\ 1.0 \end{array}$	1.8 1.5 0.6 0.8 0.3 0.7	5.8 6.3 3.7 3.1 0.5 1.7
Average	100	78.3	11.9	7.9	1.9	0.8	2.1

TABLE 19-A.—DISTRIBUTION OF PUPILS BY AGES, NOVEMBER 1, 1916.

Per cent.		.52	3.79	7.42	10.76	13.57	16.47	18.56	12.37	9.49	5.07	4.87	3,93	86.	2.48				
Above	Age.	1	28	86	149	181	202	193	126	66	42	35	21	4	∞	:			
Total.		192	1,530	1,321	1,385	1,334	1,245	1,040	1,019	1,043	829	719	534	407	323	16	12,937		
	20 or over	:	:	:	:	:	i	:	:	:	:	1	61	-	∞	က	15	12	80.00
	19	:	:	:	i	i	:	:		1	:	1	:	အ	27	-	33	5	15.15
	18	:	:	i	:	:	:	-	:	:	4	4	19	33	66	∞	168	28	16.67
	17	:	i	:	:	:	:	:	:	i	4	29	29	112	125	က	340	33	9.71
	16	:	:	i	į	i	H	-	C1	14	34	08	163	178	58	-	532	52	9.77
	15	:	:	i	:	÷	4	∞	24	84	691	221	190	75	9	:	781	120	15.36
	14	:	:	i	2	t•	15	44	100	218	255	286	78	ಬ	:	:	1,010	168	16.63
	13	:	1	:	63	14	42	1 9	252	348	294	06	15	:	:	:	1,197	198	16.54
三	12	:	-	:	က	41	143	227	364	323	63	9	:	:	:	i	1,171	188	16.05
AGE.	11	:	1	61	34	119	274	444	244	55	9	-	:	:	:	i	1,180	156	13.22
	10	:	63	18	108	341	553	162	31	:	:	:	:	:	:	:	1,215	128	10.53
	6	:	9	78	353	657	204	14	2	:	:	:	:	:	:	:	1,314	84	6:39
	∞		47	340	746	150	6	i	:	:	:	:	:	:	:	i	1,293	48	3.71
	7	:	295	780	135	20	i	:	:	i	:	:	:	:	:	:	1,215	:	
	9	က	1062	103	7	:	:	:	:	:	:	i	:	÷	:	:	1,170		rade
	10	164	115	:	:	i	i	:	:	:	i	:	:	:	:	i	279	rade	ormal C
	4	24	:	:	:	:	:	:	:	:	:	:	:	:	:	:	24	mal G	nder N
	GRADE.	Кgп	1	2	 	4	6	6	7		9	10	11	12	13	P. G	Total.	Under Normal Grade	Per cent. under Normal Grade

TABLE 19-B.—DISTRIBUTION OF PUPILS, 14 BUT NOT 15, NOVEMBER 1, 1916.

							NUM	BER C	F GR	ADES					
		1	2	3	4	5	6	7	8	9	10	11	12	13	Total
				1											
	1														
High	. .										206	78	5		289
Prescott				1			3	12							16
E. S. Jr. High									26	34	27	• •		٠.	87
Hanscom															0
Bennett						2	• •				••			• •	2
Baxter		• •	••		1	• •	• •	1	::		••	••		• •	1
Knapp		• •	••	••	•••		5	5	13	26	• •	••	• • •	• •	49
Perry		• •	••	••		••	• • •	1 · <u>·</u>		••	· · ·	••		• •	0 9
Pope		• •	••	• •	••	•;	2	7			••	••	•••	••	_
Bell	• •	••	••	[••	•••	1	3	8	21	36	••	••	•••	••	69
Cummings		• •	••	••	i	i	3	1 : 1	••	••	••	••	••	••	6
Edgerly		••	••	••		1	3	1 6	••	••	• •	••	•••	••	10
Forster		••	••	•••	$\begin{vmatrix} & \cdot & \cdot \\ 2 & \end{vmatrix}$	_		1	•••	••	•••	••		••	3
W. H. Jr. High		••	•••	••		••	•••		53	47	53	••		••	153
Bingham		•	••	•••		2	6	6				••	::	• •	14
Carr		• • •			::	ĩ	5	7	17	13				••	43
Morse				i	3	4	3	8	9	19				•	47
Proctor								2		•••	::				2
Durell															ō
Burns													.,		0
Brown]	4	4	18					26
Highland							7	15	5 1	39					112
Hodgkins						2	4	5	10	9					30
Cutler		••				1		13	14	14					42
Lincoln				٤١	• •	• •					••	••	••		0
Lowe			• •	••	••										0
*Specials	25	•••		••	••	•••	••		••	•••	••	••		• •	25
Total by grades	25	0	0	2	7	15	44	100	218	255	286	78	5	0	1,035
P. C. by "	.024	Ŏ	Ö		.007			.097				.075	.005	0	100

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

TABLE 20.—RESIGNATIONS OF TEACHERS, 1916.

School.	Teacher.	Resignation Took Effect.	In Service.
High	Mabel Williams	March 27, 1916	
	Lillian B. Treadwell John M. Nichols	June 30, "	2 years
	Mabel G. Curtis		3 years
• • • •	Frances C. Hall		13 years
• • •			1 year 5 mos.
	Helen J. Coffin Bessie L. Forbes		2 yrs. 5 mos.
	Albert W. Hopson		17 years
• • • •			2 years
	Joseph I. Horton	Sont 20 "	8 years
	Walter I. Chapman Angie M. MacRitchie	Sept. 30,	5 yrs. 1 mos.
Prescott	Annie E. Robinson	June 30, "	3 yrs. 8 mos.
Knapp Morse	Clara A. Ball		40 years
			10 years
Burns	Mary C. Buck Katherine T. McMahon	march 21,	16 yrs. 7 mos.
Brown	Nellie G. Stewart	June 30, "	3 years
Highland		., ,,	8 yrs. 4 mos.
• •	Bessie M. Royce		1 year 6 mos.
Hodgkins	Augusta M. Harris		2 yrs. 4 mos.
	Nellie F. Wright	November,	4 yrs. 3 mos.
Cutler	J. Elsie Macdonald	may,	2 yrs. 5 mos.
Lowe	Eleanor J. Homer	June 30, "	2 years
Girls' Vocational	Helen G. Leitch		3 years
	Margaret J. Sullivan		2 yrs. 9 mos.
Dental Dispensary	Richard H. Norton		4 yrs. 7 mos.

TABLE 21.-TEACHERS ELECTED IN 1916.

			1	
School.	Teacher.	Coming From.	Began Service.	Salary.
High	George E. Pearson Jean H. Congdon Charles A. Dickerman Alfreda Veazie Florence Towne Gladys L. Swallow Helen M. Stevens Lydia A. Jones Mary C. Smith Grace A. Houlder Margaret M. Kneil Arthur N. Small John J. McLaughlin Florence C. Bowen Mary L. Guyton Mary A. Whitney Anna J. Dolan Helen B. Parker George H. Lusk Gertrude Chaffin Lillias T. Lawton	Newton Not teaching "" Everett Barre Norwalk, Conn. Nashua, N. H. North Andover Fall River Not teaching Olean, N. Y. Philippines Not teaching "" Malden Lynn Somerville Vineyard Haven Not teaching "" Somerville	Feb. 1915 " 1916 Sept. 1916 " " " " May 1916 Oct. 1916 " " Dec. 1916 Sept. 1916	\$1,100 800 800 650 750 650 800 800 400 1,500 900 600 750 700 650 700
Knapp Glines Bingham Morse Brown Brown Highland Highland Hodgkins Cutler Cutler Boys' Vocational Dental Dispensary	Winifred I. Macdonald Florence W. Schroeder Lillian F. Commins Helene H. Parker Bessie Thorpe Persis A. Richardson Ethel M. Park Helen I. Stearns Helen M. Farr Georgie B. Collins Bessie A. Mirfield Reginald Webster William H. Hoyt	Malden Somerville Somerville Hopedale Somerville Wakefield Beverly Lynn Somerville Stoneham Ludlow Saylesville, R. I. Somerville	Feb. 1917 Sept. 1915 Sept. 1914 Sept. 1916 Sept. 1916 Oct. 1916 Sept. 1916 May 1916 Sept. 1916 Oct. 1916 Mar. 1916	750 450 450 750 450 750 650 750 450 700 700 900 700

^{*}Temporary teacher.

TABLE 22.—LEAVE OF ABSENCE OF TEACHERS.

Clarance L. Foster, for school year 1916-1917.

Elizabeth H. Hunt, for school year 1916-1917.

M. Eva Warren, from October, 1916, to close of school year 1917. Pearl F. Dame, for school year 1916-1917.

Helen G. Leitch, from April, 1916, to June 30, 1916.

Helen C. French, from November, 1916, to close of school year 1917.

Ruth L. Whitehouse, for school year 1916-1917.

Richard H. Norton, from March, 1916, to June 30, 1916.

Cadets.

Anna E. McCully Mary T. Gurvin Marion Donnelly Lucy S. Hardy

Carolyn E. Armitage.

TABLE 23.—TRANSFER OF TEACHERS.

TEACHER	s.		 From	То	
Mary J. Dewire Carrie N. Frost Blanche G. North Hazel N. Friend Louise V. Richardson Elizabeth S. Brown Anna R. Canfield Anna J. Dolan Catherine Heagney Mary F. Mead Elizabeth J. Mooney Herbert L. Gregory Francis A. Ryan		•	•	Hanscom Pope Edgerly Glines Forster "" Bingham "" Boys' Vocational	Pope E.Som.Jr.High Bell Prescott W. H. Jr. High Bingham E.Som.Jr.High Prescott W. H. Jr. High Frescott W. H. Jr. High E.Som.Jr.High

TABLE 24.—NUMBER OF TEACHERS.

FOR A SERIES OF YEARS.

YEAR.	High School.	Grammar School.	Primary School.	Special Teachers.	Assistants not in Charge of Room.	Men.	Women.	Total.
1886	9	62	48	1	0	9	111	120
1887	10	64	48	ī	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	7 3	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	3 2	112	87*	7	1 3	23	229	252
1899	36	119	92*	7	9	23	240	263
1900	40	127	96*	7	6	24	249	273
1901	44†	130	94*	7	8	26	257	283
1902	45†	140	91*	7	9	26	266	292
1903	46†	143	96*	7	14	25	281	306
1904	48‡	152	98*	7	9	27	285	312
1905	48‡	153	100*	7	7	27	288	315
1906	54‡	157	99*	7	9	29	297	326
1907	57‡	160	97*	9	14	32	305	337
1908	58‡	164	97*	10	1 6	34	311	345
1909	59‡	166	99*	10	16	36	314	350
1910	63‡	165	87*	1 3	11	41	298	339
1911	62‡	164	86*	20	11	40	303	343
1912	66‡	168	84*	22	9	40	309	349
1913	68‡	166	91*	28	12	39	326	365
1914	75‡	167	99*	30	20	44	347	391
1915	76‡	172	100*	31	15	45	349	394
1916	77‡	189	101*	30	15	46	366	412

[•] Including four kindergartners. † Including two secretaries. ‡ Including one secretary.

TABLE 25.—BOOKS AUTHORIZED FOR USE, 1916.

TABLE 25.—BOOKS AUTHORIZED FOR USE, 1916.
As text-books.
Beginning German, Bierwirth
As reference books. Primer of Sanitation, RitchieWorld Book Company
For Elementary Schools.
As text-books.
The Wide Awake Series of ReadersLittle, Brown & Co. Edson-Laing SeriesBenjamin H. Sanborn Company Baldwin Bender SeriesAmerican Book Company Essentials of Geography, Brigham and McFarlane, American Book Company The Young and Field Literary ReadersGinn & Co. The Story Hour Series, Coe and Christie. American Book Company History Stories of Other Lands (Books one through six), Row, Peterson & Co. Gods and HeroesGinn & Co. The Story of the RomansAmerican Book Company The Story of the GreeksAmerican Book Company Collodi Pinocchio in AfricaGinn & Co. Old Mother West WindLittle, Brown & Co. Sunbonnet Babies in HollandLittle, Brown & Co. Sunbonnet Babies in HollandLittle, Brown & Co. Surbonnet Babies in HollandLittle, Brown & Co. Spring of the Year, SharpHoughton Mifflin Company Fall of the Year, SharpHoughton Mifflin Company Winter, SharpHoughton Mifflin Company Winter, SharpHoughton Mifflin Company Little People Everywhere (four volumes)Little, Brown & Co. Peter and Polly Series (four books)American Book Company Cherry Tree ChildrenLittle, Brown & Co. Arabian NightsGinn & Co. The Playtime PrimerHoughton Mifflin Company Little Blue BirdHoughton Mifflin Company The Irish Twins, PerkinsHoughton Mifflin Company The Irish Twins, PerkinsHoughton Mifflin Company The Irish Twins, PerkinsHoughton Mifflin Company The Mexican Twins, PerkinsHoughton Mifflin Company The Mexican Twins, Perkins
The Japanese Twins, Perkins Houghton Mifflin Company The Eskimo Twins, Perkins Houghton Mifflin Company The Dutch Tvins, Perkins Houghton Mifflin Company
Reynard the Fox, Smythe
In the Animal World. Work-a-Day Doings, Serl and EvansSilver, Burdett & Co. In Fable Land, Serl and EvansSilver, Burdett & Co. As reference books.
The Stars and Stripes, a history of the United States flag, Boylston Publishing Company

TABLE 26.—GRADUATION EXERCISES.

High School.

The January graduation exercises of the High School were held in the High School Hall on Friday, January 28, 1916, in the presence of a large audience of parents and friends.

Order of Exercises.

George E. Whitaker, Chairman of the School Committee, presiding.

1. Overture.

Schauspiel, High School Orchestra, Wilhelm T. Hedlund, Leader.

2. Prayer.

Rev. Hendrik Vossema, Pastor of the Winter Hill Universalist Church.

Singing.

Praise the Lord."

St. Saëns

Address.

"Our Debt to Conventionality," Janet A. MacLellan.

5. Violin Solo. "Romance."

Edward Siegel

Beethoven

6. Oration.

"Our Responsibility to the Future," Russell E. Cole.

7. Solo.

"The Nightingale's Song."

Nevin

Marion A. Wheeler

8. Presentation of Diplomas to Girls.

9. Orchestral Selection. "Apple Blossoms"

Roberts

High School Orchestra.

10. Presentation of Diplomas to Boys.

11.

Singing.
"The Two Grenadiers." Postlude.

Schumann

1:

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

LIST OF GRADUATES.

January, 1916.

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

Elsa Marie Aitken Marjorie Louise Aldrich Ellen Phyllis Anderson
Louise Knight Berry
June Arielle Burns
Ruth Margaret Stella Colleran Dorothy Wentworth Conway Mary Collette Cotter
*Doris Wilmot Coyle
Mabel Louise Danehy
Annie Veronica Donovan
Gladys May Fletcher
Mera Louise Flint
Frances May Felor Frances May Foley Mary Ellen Foley

Catherine Elizabeth Giles
Charlotte Isabelle Halpin
Agnes Elizabeth Heavern
Edith Lillian Higgins
Marjorie Gladys Higgins
Lilia Edana Hill
Helen Hobart
Evelyn Catherine Kelley
Helen Jeanette Komenda
Gertrude Elizabeth Macdonald
*Janet Anne MacLellan
Mary Margaret MacLellan
Mabel March
Helen Adelaide McCoubrey
Helen Rosalind Milne
Geneva May Mugford
Amelia Elizabeth Ohse
Nora Theresa O'Neill
*Mildred Ilda Russell
Olive Linnell Sharp
Reta Angeline Pray Slack
Marion Cornelia Strom
Eileen Modesta Sullivan
Alice Belle Swasey
Alice Tutein
Marjorie Elizabeth Walker
Mildred Melbourne Weldon
Marion Angier Wheeler
Edna Virginia White
Ruth Edith Yeaton
Estelle Julia Young

John Henry Abbott, Jr. James Alexander Adam Samuel Baker *Gerald Ruggles Barrett
Henry Wilhelm Benson
*Frederick Mason Carey
Harold Goodrich Carper
*Russell Eliot Cole
Earl Lewis Cragin
Stuart Cragin
Raymond Bolton Davison
William Edgar DeWitt
John Wetherbee Dunham
Howard Alden Ellis
*Wyman Parkhurst Fiske
Edward William Fudge
George Wesley Gardiner
*Ramon French Gustin
Otis Cowell Hale
Cyril James Heffernan
Warren Freeman Horsman
Elmer Lawrence Johansen
James Bryden Kellock, Jr.
*Ernest Merle Mills
Elmer William Moffatt
*Carl Elbridge Newton
James Joseph Pollard, Jr.
Alfred Melville Pride
William Harold Quinlan
Melvin Thomas Ross
Edward Siegel
Joseph Walter Sullivan
Russell Hopkins Sutcliffe
Crawford Kenneth Sweeley
Charles Thomas Taglino
Nathaniel Chester Wiley
*Wendell Phillips Wood

Number of graduates, 84; boys, 37; girls, 47.

The June graduation exercises of the High School occurred on Monday, June 26, 1916, in the High School Hall.

Order of Exercises.

George E. Whitaker, Chairman of the School Committee, presiding. 1. Overture.

Selection from "Tannhauser." Wagner High School Orchestra, Wilhelm T. Hedlund, Leader.

2. Prayer.

Rev. Francis W. O'Brien, D. D.

3. Singing.

(a) Chorale. Bach (b) Roman War Hymn. Wagner

4. Address.

5. Waltz.

"The Three R's," Enna Bella Weisman.

"Faun."
High School Orches

Andreefe

High School Orchestra.

6. Address to Graduates.

His Honor, Mayor Cliff.

7. Singing.
"America the Beautiful."

MacFarlane

8. Oration.

"Compensation," Arnold H. Murray.

Singing.

Class Ode. (Written by Ruth E. Arrington.)

Presentation of Diplomas to Girls.

11. Violin Solo. "Souvenir."

Drdla

Russell A. Cook.

12. Presentation of Diplomas to Boys.

13.

Singing.
The Sextet from "Lucia." Donizetti

Presentation to the School of a portrait in oil of S. Henry

Frank M. Hawes, Chairman of Committee.

15. Postlude.

Minuet.

Paderewski

High School Orchestra.

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

LIST OF GRADUATES.

June, 1916.

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

Marion Abbott Dorothy Waldo Archer Ruth Marie Armstrong *Ruth Evelyn Arrington
*Winifred Welden Arrington Ethel Mary Baker Theresa Louise Baldwin *Lois Keith Bateman *Marjorie Johnson Beers Gladys Eleanor Belding Mary Katherine Bennett *Pearl Berman Lillian Dorothy Bianconi Dora Louise Bormann Barbara Enola Brainard *Carolyn Lucie Brainard Mary Gertrude Buckley Mary Lourdes Cabral Gertrude Hazel Cameron Margaret Charlotte Cameron Margaret Charlotte Cameron
Anna Mae Carlin
Margaretta Regina Chisholm
Hazel Isabelle Clark
Helen Phylis Colley
Lelia Belinda Conway
Ethel Mae Cook
Elizabeth Agnes Costello
Elizabeth Creighton
Beatrice Bonta Cresto
Blanche Bonta Cresto
Marguerite Gertrude Cronin Marguerite Gertrude Cronin Estelle May Crowe

Dorothy Genevieve Cudmore Hazel Mae Davis Emeline Maria Dean Gertrude Madeline Dewire Ruth Agnes Doherty Ruth Donovan Esther Armor Dupee Mabel Etta Eldridge *Helen Gertrude Farrar
Ruth May Ferguson
Mildred Isabel Fisher
Mildred Battelle Fitz
Margaret Mary Fitzpatrick
Mary Elizabeth Flynn
Mary Elizabeth Ford Marjorie French Mathilda Fuhrman Blanche Borden Fuller Mary Clara Fulton Alice Teresa Garrity Mildred Givan Ina Belle Gould
Elizabeth Marie Haggie
Martha Helen Hannon
Bertha Mae Hanson
Helen Louise Hayden Martha Gibson Henderson Dorothy Whitney Hersey Marion Frances Hersey Mary Chadwick Hilton Helen Frances Holahan *Emma Holden

Emily Caroline Hood *Marjorie Hopkins Viola Louise Howard Sarah Boardman Ingham *Maude Charlotte Jaques Georgiana Colby Jones Jessie Marion Jones *Margaret Veronica Lamb Lucy Marshall Lanigan Nellie Elizabeth Leighton Alice Adelaide Libbey Gertrude Edith Lincoln
*Helen Esther Linegar
Ethel Catharine Lomasney Mabel Bell Lounsbury Elizabeth Jennings MacLachlan Veronica Cecilia Madigan Mildred Alice Marsh Edna Gertrude Marston Dorothy Matthews Derry May Sarah Hooker McAleer Veronica Catherine McCarthy Kathleen Ann McGrath Gladys Abegail McLane Alice Claire McLaughlin Ethel Muriel Michaud Marion Grace Minton Gwendolyn Isabel Mitchell Marian Moore Helen Agnes Moran Dorothy Kathryn Morgan Florence Marie Murphy Ethel Marion Nelson Grace Gertrude Newman Evelyn Hapgood Nichols Anna Marie Nolan Lillian Elizabeth Payette Leah Elizabeth Pearlman Lila Amelia Pearson Angela Marie Perron Sara Ruthena Phippen Thelma Holt Plumer Hazel Estelle Plummer Gertrude Elizabeth Prichard *Dorothy May Rankin
Hélen Cordelia Redfield
Annie May Reilly
Jessie Marie Roberts
Bertha MacQueen Robertson
Marie Elizabeth Robinson
Mary Genevieve Ronan
Lottie Martha Roundy
Dorothy May Saltmarsh Dorothy May Saltmarsh Edith Eugenie Scriven Margaret Mary Sharry
*Isabelle Henrietta Slafsky
Florence Gertrude Smallwood Evelyn Gertrude Smith *Sarah Specter Marguerite Genevieve Stanton

Gertrude Ethel Starks Alice Augusta Tassinari Dorothy Taylor Ada Amelia Tehan Claire Louise Treat Evelyn Dorothy Truesdale Gladys Louise Vannah Mildred Mary Van Ummersen Doris Gwendolyn Veinotte Marion Alice Waltz Agnes Ellen Weir *Enna Bella Weisman Marion Carolyn Wells Gertrude Tomlinson West Louise Alice Wetherbee Stella Marie Whelan Lulu Asahel Whitcomb *Carol Whiting Madelene Stewart Wiley June Lusylvia Wilson Selena Gibson Wilson Virginia Gwendolyn Wilson Hildegard Elizabeth Wood Lillian Maude Woodman Mary Magdalen Woods Minnie Leontine Yeaton

Clarence Rogers Baxter Carroll Hilton Beers Aurel Joseph Bensaia Carl Benjamin Bohlin David Cummings Bowen Arthur Lawrence Bradley Frank Merton Bradley Harold Benjamin Brinig John Joseph Brosnahan John Willis Brower Carroll Wooster Bunker Arthur Grant Burtnett *Ralph Hunter Card John Joseph Carroll
*George William Caspar John Daniel Chequer John Haggett Clarke George Francis Clements Arthur Gilbert Cohen Russell Wallace Conklin Russell Ames Cook William Patrick Corbett Joseph Francis Cox Walter Ambrose Cremen George Warren Cronin Francis Joseph DeCelles Walter Cnarles Downs Harry Orville Dudley, Jr. Hugh Perrins Duffill Carolus Levon Eksergian Roscoe Osborne Elliott George Ludvig Erickson Harry Benjamin Field *Philip Fine

Willard Ames Fleming Charles Desmond Fletcher Raymond Carroll Gage Frederick Morton Gay Frank Ralph Giannone George Frederick Giles
Horace Edward Gillmore, Jr.
Archie Ralph Giroux
James Alexander Givan
Adolphus Richard Gleitsman Charles Edward Goddard Herman Albert Godendorf Emil Goduti Webster Hall William Mark Hanna John Edward Harding Francis Clement Hart Elmer Russell Hayes *Wilhelm Theodor Hedlund
John Aloyious Heiser
William John Hickey
Arthur Wilson Horton
Samuel Nathan Hozid
Henry Leo Hurwitz
Maxwell Charles Hyde
Richard Edward Keating
Francis Joseph Kelley Francis Joseph Kelley James Alphonsus Kelley James William Kelley Ralph Wilkinson Lamont Anthony LaTerza James Francis Leahy John Joseph Leahy Philip Merritt LeGallee Maurice Levison
*Reuben Lipkind
Donald Lewis Macdonald
Ronald Scribner Macdonald
Norman Joseph MacLeod
Charles Colville Malton, Jr.

Donald Leslie Marshall Abbott Claxton Martin Edward George Martin Lloyd Albert Mason *Thomas Francis McNulty
*Thomas Francis Meskill
Elmer Forrest Mitchell
Charles Mason Morse
William Martin Murphy
*Arnold Howatt Murray John Ernest Murray Lawrence Earl Nichols Donald Edgar Nickerson Philip Fisk Norcross Roy Earl Patterson Earle Wallace Perkins Leo Ezra Phillips Francis Mitchell Prendergast Clyde Everett Reick Henry Lawrence Rice Charles Edward Riley Russell Frederic Riley John Dennis Ring Donald Edward Rockwell Laurence Cedric Saunders Thomas Francis Scanlan Russell Thurston Shay Ross Almore Shepardson Max Sherman John Francis Smith Joseph Peter Smith John Joseph St. Angelo Frank Alliston Tibbetts Frank Clarence Traverse, Jr. William Otho Tuttle Americo Benedict Ventura Raymond Caswell Vinal Edwin Melvin Walker Howard Whitaker Arthur Frederic Williams

Total number of graduates, 265; boys, 114; girls, 151.

Note.—The pupils named below have completed the four-year high school course in less than the prescribed time.

In 31/2 years, 1917-A.

Estelle May Crowe Mary Chadwick Hilton Helen Cordelia Redfield Jessie Marie Roberts Evelyn Dorothy Truesdale

In 3 years, 1917-B. Marjorie Beers

TABLE 27.--VOCATIONAL SCHOOL GRADUATES.

Boys' Vocational School, June, 1916.

Herbert Bohlin Guy E. Cross John E. Fay Herbert G. Gordon Clinton J. Hart Joseph E. Hemmerlin Donald J. McDonald Fred A. Mahoney George G. Oberbeck Milton H. Smith Algine B. Steele Thomas B. Sullivan Hector J. Tremblay Ludwig Weckbacher William Rock

Girls' Vocational School, June, 1916.

Charlotte A. Andrews
Ruth F. Bacon
Ruth L. Bidmead
Margaret L. Blanchard
Florence M. Brine
Julia Carney
Margaret Conway
Evelyn Dodd
Mildred Durgin
Alice R. Elkins
Marie Fitzpatrick
Agnes L. Foley
Eleanor F. Gabry
Mildred Garey
Margaret T. Gilligan
Amelia G. Graham
Edith J. Henderson
Marion G. Head
Frances E. Hicks

Clothilda F. Hillman
Grace Invernizzi
Gertrude C. Koschwitz
Esther M. Ramsdell
M. Pauline Rogers
Mary Mazzuckelli
Elsa E. Larson
Florence V. McMahon
Marian M. McConaghy
Marguerite R. McFarland
Hazel W. Montgomery
Martha Nash
Ruth Olson
Josephine Powers
Anna T. Saunders
Lena K. Schwarz
Geraldine Shea
Esther Soderberg

GRAMMAR SCHOOL GRADUATES.

Grammar school graduations occurred in the several grammar school buildings on January 28 and on June 26:—

January, 1916.

Prescott

Rosa J. Aberle
Grace Thelma Burke
Louise Angelina Cardinal
Mary Josephine Fitzgerald
Walter D. Hammond
Helen Margaret Hartnett
Alice A. Hayden
Robert Irving Hayes
Lillian E. Hubbard
Katherine V. Kelleher
Mary B. Lindsey
Katherine Mary Mahood

Margaret Ethelbirt Mayhew Grace G. Morrison Mary Agnes Newman Chester O'Brien Merton Howard Pierce John J. Ronayne Grace Louise Small Grenville Taylor Francis G. Whelan Christine L. White Clara Louise Wilson James W. Young

Knapp

Albert Edward Lally Charles King Lehan Mildred C. MacArthur Kathleen Gertrude Payette Grace Louise Reynolds Margaret Virginia Riley Albert Clifton Southwick Eugene Joseph Sheehan Henry Edward Tassinari Morris Samuel Weinstein

Max J. Andelman
May Charlotte Berman
Willoughby Douglas Burns
Leo Patrick Cody
Jefferson Paul Donahue
Mollie Fine
Thomas Leo Hafford
Agnes M. D. Holmes
Thomas Joseph Hart
William J. Heise

Pope

Arthur H. Dean
Ethel A. Ferris
Charles R. Gray
J. Russell Gullage
Samuel A. Hayes
Albert F. Hoffman
H. Vivian Hunter
John B. Lazzaro
Margaret T. Linehan
James J. McGann
Helen Teresa McKenna
Marion Esther Mellett

Margaret C. Murray Eileen M. O'Brien Timothy F. O'Connell Mary C. Ryan Theresa A. Sinserella Doris H. Taylor Edward W. Taylor Burpee H. Wagner Bernice L. Watt Matilda V. Westlin Pearl P. Yavner

Gertrude Frances Barker Grace Jane Campbell Genevieve Walker Chase Kuth Elizabeth Chequer Mildred Brown Codding Raymond Joseph Dawson Gladys May Deckoff Eleanor Margaret Donovan Angieline Arabelle Emerson Ralph Waldo Emerson Marion Elizabeth Fudge Albert Irving Hamilton Mary Gertrude Louise Hogan

Bell

Charles William Irving
Frederick Jillett
Beatrice Lillian MacDonough
Margaret Agnes Mahoney
Gertrude Evelyn Miller
Catherine Josephine Murphy
Mary Catherine Murphy
Winthrop Hegeman Root
Joseph Leo Sliney
George Arthur Sullivan
Sidney Taylor
Florence Williamson

Donald S. Blanchard Roland Stanley Bruneau William H. Canfield Walter H. Cook Elvira E. Covert Mary V. Cronin Theresa M. De Mita Marian Louise Dow Harry R. A. Frost Harry Crosby Hayes O. Dana Hilton Albro L. Hodgdon

Edgerly

Helen Gertrude Jenkins George H. Maines David Joseph Meaney Helen F. Miller Anna E. O'Neil Harold J. Ronco Elmer F. Walsh Alfred Clifton Walton Adelbert Thomas Walton Joseph A. Wright Charles W. Adams Miriam E. Tyler

Esther Evelyn Haskell Marion Isabelle Huff Victoria Newman Helen Gladys Priebe Dorothy Marie Sutherland Dorothy J. Trefry Mary Ruth Vercellini Matthew James Campbell Walter P. Cordeiro

Glines

George H. Jaques
John J. Judge
Charles Alvah Mitchell
David Alexander Morrison
Vincent Kenneth Reardon
Ralph O. Silva
John E. Stephens
Paul R. Wetherbee

Naomi Atkins Walter G. Bakin Samuel A. Bent

Forster

Helen M. Campbell John W. Carey Frederick S. Copeland Marian H. Doherty
Lillian Evadell Edwards
Marion G. Fermoyle
William E. Fermoyle
Lawrence A. Fisher
Edward J. Foley
William J. Geary
John Stewart Gullion
Alice Louise Hession
Sylvester C. Hilton
Blanche Louisa Hofman
Francis Nickerson Howland
Harold Keating
Ethel Mae Kimball

Gustav W. Anderson Irene M. Babineau Francis W. Carroll Albert Celata Albert L. Englund Anna L. Galvin Edward P. Hughes Walter J. Hynes Walter A. Latimer Margaret M. McAdam

Joseph A. Bellini
Mildred Gordon Carter
Lillian A. Cotter
George H. Cox
Mary Frances Dolan
Anna G. Donahue
Esther A. Donini
Albert Dyson
Joseph B. Fitzpatrick
Gertrude M. Goodwin
Florence Loraine Govang
J. Francis Greene
Lillian Edith Griffiths
William R. Kilty

Ada I. Benedetti Philip T. Clements David L. Donaldson Arthur F. Hopkins E Ruth Lacey

Dorothy Antoinette Burgess Francis Gardner Chase Ethel Marie Coffey Fortis E. Merrill Hart Kathleen Jane Hitchcock Lillian Celia Jacobs Dorothy Cameron MacKay Theodore McElroy
Margaret Whitney McGill
Harold Fifield Price
Gladys Alma Reynolds
Helen Ruff
Lorenzo Spates
Margaret M. Sullivan
Ruth Cecily Swift
M. Audrey Traver
Mildred Elizabeth Walsh
Irene G. Wedder
Madeline Margaret Whalen
Anna Gertrude Whiton

Bingham

William G. McCarthy Hortense M. Montier Florence A. Nixon Mary A. O'Gara Gladys M. O'Neil Loretta L. E. Randall J. Francis Ronan George E. Surette Mary L. Wharf Florence M. Whitcomb

Carr

Martha Harriett Lacey
J. Ellsworth Lundgren
John S. Luurtsema
Arthur Lawrence McAvoy
Gertrude V. McCallum
Katherine G. McDonnell
Donald McKeown
Charlotte A. MacMaster
Charles Edward Marshall
Evelyn F. R. Reidy
Adella Frances Smith
Isabelle Sorensen
M. Louise Tracey
Dorothy Trueman

Morse

John P. Mahoney Elmer Lewis Perron Albert W. Plummer Francis X. Rooney George W. Truesdale

Brown

Eunice M. Malaney Choate Miner Pauline Leah Nemser Payson B. Palmer Alice Gorham Peak Dorothy Gibson Winter V. Everett York

Highland

Kathryn Apel
Henry Joseph Billings
Roger Blanchard
Edward Raymond Bradshaw
Doris May Campbell
Charles Bishop Frederick Cord
Dorothy Davis
Fenwick W. Demone
Janet Marion Fairbairn
Martha Torborg Fallgren
Wilhemina Mildred Flemming
Marion Saloma Fowler
Melvin A. B. Frost
G. Elbert Gage
Winifred Anna Henehan
Ruth Isabel Hanna
Frank Hodgkins

Helen Gertrude Bormann Josephine A. Talamona Dorothy Mary Wellman

Erving Lloyd Farquharson Frederick Johnson Drew Horace K. Dearborn C. Raymond Carlson Harold R. Jones Albion Frederick Carlson Waldo A. Johnson
Helen Aldegone Kilcoyne
Mildred Louise Lambert
Reginald A. Langell
Adele Martin
Eleanor Mary McNamara
Edward Henry O'Donoghue
Timothy Leo O'Keefe
Elsa Viola Quarnstrom
Lloyd Edwin Smith
Alice Maude Talbot
Gladys Warburton Talbot
Grace Tutein
Roland Elmer White
Dorothy Wilbur
Alice Mae Waugh

Hodgkins

Ruth May Moore Albert C. Dearborn Helen Beatrice Smith

Cutler

Raymond C. Parsons J. Miles Toulouse Miriam L. Cook Mary A. Ahern Edwin H: Blomquist

GRAMMAR SCHOOL GRADUATES.

June, 1916.

Prescott

George W. Arnold
Alice J. R. Belyea
Elodie M. Blakeney
Charles Wilbert Campbell
Isabel F. Carpenter
Helen Agnes Carroll
Richard M. Connor
Arthur John Dallmer
John F. Delaney
Helen Ford
William Francis Goddard
Clarence Willis Gray
Joseph Lee Herlihy
John Howard
Lena Leveen

Charles Beattie
Mildred May Boggs
Henry Lester Bryant
Blanche Elena Catanzano
Timothy Francis Coakley

Theodore A. Lynch
Irene Elizabeth Mason
J. Franklin McAloney
Mary E. McCarthy
Mary J. Pacheco
Elmer Stuart Ricker
Harry F. Ross
James Birmingham Ryan
James Howard Shay
Vera Viola Spence
Harold Joseph Stackpole
Richard B. Sullivan
John William Thomas
John Thornton

Knapp

Frederick Joseph Collins Mildred Dorothy Dewire Michael Bernard Dewire Florence P. Donahue James Charles Donahue William Joseph Donnelly
Mary Margaret Duffy
Karl Henrik Erickson
John Ferretti
Fannie Bessie Fishlin
James Francis Fitzpatrick
Margaret Louise Garrity
Robert Goldman
Harold H. Goldenberg
Ida Sophie Graustein
Theodore V. Hill
David Joseph Lane
Alice Theresa Leyden
Edward H. Heanue
Leonard Haley
Katherine Gertrude Hastings
Alice Leona Hastings
Edith Matilda Gulbranson
Walter Henry Grimes

Ada Dorothie Alden Charles J. Ardito Mabelle L. Backus Joseph M. Barry J. Josephine Bowe Ruth M. Boynton Loretta Colbert William P. Crowe Ethel C. Daley Stephen J. Doherty Mary Dornan Alice Josephine Duffy Joseph Ellison George E. Ferris Frieda Fisher Ethel F. Greeley

Philip Joseph Carrigan
Anna Louise Córliss
Ruth Cornell Cutler
Dulcie Mertice Davis
Anthony Doherty
Agnes G. C. Dornan
Edith Frame Dorren
Alice Louise Hancock
George R. Harlow
Ellsworth S. Irwin
Martha Frances Jackson
William Jennings Mackey
Florence Marie MacLachlan
Frank Martin
Hugh F. McGrath
William P. F. McQueston
Dorothy Tufts Miller

Shepherd T. Albohn Frederick W. Beck Josephine N. Bonanno Joseph Warren Goddard Flora Martin
Alice Marie McFarland Fannie F. Myerson
Helen Veronica Murphy Alice Louise Orr
Hazel May Parker
Francis Michael Quinn Stephen Patrick Quinn George Henry Reilly Lena Roderick
Thelma Grace Robertson Harry J. Seymourian Edward Augusto Tosi John Christopher Tobin Edwin J. Watts
Alice Norris Weymouth Marie Anna Weyand Hyman Weiner

Pope

Frank L. Griffin
Alfred R. Hyde
Evelyn L. Macgillivray
Irene A. Mahoney
Richard R. Marcy
Dorothy H. McQuinn
Katharine Louise Meyer
Leo Francis Molan
Lucy E. Noreau
Margaret Helen Raymond
Paul B. Rice
Lillian M. Seasley
Helen B. Shea
Elvia Arline Spaulding
Wesley I. Taylor
Gertrude Walsh

Bell

Manuel Miller
Eva A. Moore
Ruth Eleanor Newman
Helen Gilson Northrup
Ernest Gustav Pihl
Frederick Winslow Pollock
Elizabeth Louise Putney
Ruth M. Ramsay
Martha Ruth Spillard
Francis Tansey
Stewart F. Thompson
Earl B. Walker
Harriet B. Watson
Harry George Williams
Charles Davis Wilson
Benjamin A. Young

Edgerly

Arthur Thain Buckwell Arthur J. Burns Caroline M. Comey Ruth E. Dawes
Dorothy Flavilla Durgin
Rose Augusta Fiske
Arthur L. Haff
Chester T. Hammond
Charles C. Harding
Winefred M. Hofmann
William J. Holland
Margaret Helen Johnson
Ermyn C. Laffee
Adeline LaTerza
Mildred LaTerza
Franklin B. Lovering
Viola M. McCloud
George G. McLain
Mabel Edna Morehouse
Gladys J. Nugent

Lester George Barrett
Lleanor Brown
Elizabeth Mae Charlesworth
Madelyn Vanessa Dodge
Hilda M. French
Olga Vera Gleitsman
Philip Forest Holmes
Louise Rita Kane
William Herbert Kelley
Percival Leroy Lowell

Charles Edward Ames
Marguerite Gertrude Ames
Dorothy Phyllis Baker
Roland Barker
Sylvia Bateman
Evelyn B. Calhoun
Frances M. Carey
Victor M. Carnes
Frank A. Chapman
Ruth C. Cronin
Pauline Davenport Dodge
Miriam Rogers Ewart
Doris Elizabeth Flint
Marie Elizabeth Flynn
Madeline C. Geaton
George W. Goddard
Maxine M. Griffith
Charles E. Gould
Gratia M. Grisim
Arline Parker Hall
Gertrude N. Hill
Stanislaus C. Hilton
Harold F. Hellberg
Marguerite F. Heughins
Ruth Evelyn Hopson
Helen Wilder Hudson
Florence Elizabeth Johanson
Thomas A. Kelley
Maria T. Kelly

Margaret A. O'Donnell
Frederick Towle PenDell
Sarah T. Pickering
Mabel F. Preston
Allen M. Rideout
William Henry Robinson
Clarence A. Ronco
Marguerite J. Ryan
John Robert B. Scully
Doris A. Sears
Marion Shaw
William Joseph Silk
Katherine Maitland Simpson
Adeline Marie Tobin
Rose Lillian Travaglia
Edna M. Tuttle
Leafy H. Wright

Glines

Donald Kelly McLean Margaret B. McKenna Leon Ward Mooers Helen C. Nichols Kenneth E. Northrop Ruth Evelyn Pray Richard G. Shea Sven Oscar Swangren Claircy Blanche Trahan

Forster

Elsie May Lincoln
Dana E. Lincoln
Eldridge L. Macnair
Charles F. Maguire
Etta Muriel March
Walter A. Mayer
Margaret M. McDonnell
Eleanor Marie McElroy
Georgia Merriam
Jean Isabell Murray
Helen Mulligan
John H. Murphy
Gertrude P. Nangle
Lillian Grace Norris
Lena Pearl Peck
Eleanor Alice Randall
Viola F. Richardson
Angeline Ida Riddell
James F. Ronan
Harold E. Smith
F. Wilton Smith
George Edward Stokes
John B. Sullivan
Evelyn G. Sutherland
Mildred Elizabeth Teakles
Evelyn Toppan
Howard Simpson Tochterman
Jenny Underwood

Bingham

Fred J. Anderson
Edgar A. Briand
Lorenzo A. Briand
Isabel C. Brown
James F. Bullen
Mona C. Burke
Rosalie C. Carlson
Mamie C. Cerussi
Margaret M. Conners
Francis T. Delaney
Lea O. DeLorme
Dorothy Dodge
Jessie E. Dods
Lester J. Donerty
Thomas J. Dunn
Grace C. Falvey
Esther M. Filadoro
Anna F. Finn
Daniel V. Foley
George P. Gallen

Horace G. Bianconi
Daniel Gordon Boyce
Eleanor Folsom Carr
Marguerite P. Clements
Agnes Elizabeth Conwell
Winifred Dorothea Crowne
Thomas M. Doonan
Barbara V. Douglas
James E. Fitzmaurice
Henry H. Holmes
Walter S. Holmes
Sabra Wyman Hood
Antoine A. LeBlanc
Bernice Florence Lutes

Ethel M. Armstrong
Helen E. Caley
Marie DiBenedetto
Marion Garside
Bertha Gorsun
Sarah A. Grady
Dorothy F. Gustafson
Alice W. Hamilton
Mildred M. Harkins
E. Elizabeth Haskell
Florence Hurwitz
Dorothy E. McGuire
Alice E. Morrison
Alice I. Murphy
Melba S. Sampson
Margaret D. Taylor
Helen E. Tierney
Harry W. Bickford

Emma C. Henderson
Eleanor E. Kearns
James P. Kennedy
Frances G. Kenney
Rose E. Kiley
Lawrence F. Lewis
Ethel M. McCormack
Francis E. McGoldrick
Mildred G. McHugh
Charles E. Moore
Marie E. Moore
Theresa J. Ronayne
Arthur E. Sandberg
Russell H. Searle
John D. Sexton
James W. Shea
Frances M. Stephenson
Elizabeth M. Sullivan
Margaret Vigneau
Gertrude L. Harrow

Carr

Susie C. McAllister
Edward John McCarthy
Mary L. McQueeney
Mary K. Moran
Dorothy Perkins
Harold C. Richards
Helen L. Rosengren
Dorothy M. Sutherland
John F. Thompson
Mary E. Thornton
Alexander P. Tosi
Ambrose West
Nelle K. Wilder

Morse

Earl E. Bolton
Elmer A. Carter
Grant K. Chisholm
Kobert W. Cronin
George F. Dondale
Walter J. Gaddis
Amando Ghelfi
James F. Keating
Robert J. Keating
Chester R. Kennedy
William M. Kuhn
Albert J. Locatelli
Malcolm M. MacLeod
Herbert F. McGuire
Gerald N. O'Brien
John H. Rose
George G. Salsman
C. Clifton Tarbox

Brown

Gladys Elizabeth Ayers
Everett Windfield Blaisdell
Eleanor Gilchrist Buswell
Herrick Wrightson Farren
Francis Joseph Gannon
Constance Marie Geraghty
Gladys May Hatton
Birger Richard Headstrom
Elva Gladys Hutchins
William H. Knox
Mildred Loretta Kodad
Herbert Francis Lawrence

Angela M. Anita Marchesi Hobart Henry Mowers James J. Murray, Jr. Louise Viola Newcomb Arthur Herman Pohl Helen Blaisdell Powers Warren Philip Riley Esther M. Skilton Alice C. Smith Paul D. Tinkham A. Gordon Wier Helen Wilson

Highland

Frederick Lawrence Bacigalupo
Ernest Bales Bearisto
Marion Alice Blood
Alfred Edward Bourgess
Myrtle Alberta Burnside
Alice Louise Callahan
Joseph Neville Callahan
Lawrence Stewart Carr
Miriam Goodspeed Cobb
Norman Coolbrith
Herbert O. Clark
Edna Lillian Crovo
Earl Ogden Cruikshank
Madeline Agnes DeWitt
Doris Ernestine Donovan
George M. Dyer
Charles Austin Earl, Jr.
Dorothy May Fellows
Harriette Roberts Ford
Adolphus Carl Gnecco
Harriet Esther Hammond
Lewis Richard Hanson
Ruth Vesta Hanson
Inez Ruth Harmon
Lillian S. Pierce
Ruth L. Harrington
Clara Madeline Hammerlin
Doris Henderson
Leslie Roderick Innis
Ruth T. Iris
Dagmar Elizabeth Lindequist
Edith Gertrude Lovequist

Elsie Dorothy Lundberg
Charles B. MacDonald
Marjorie Grace MacPhee
Laurence Beckley Maddison
Emily Hazel Mathews
Annie Kathleen McGowan
James Andrew McNamara
Elmer Frederick Milliken
Julian Ives Milliman
Arthur Hugh Murphy
Ida May Moore
Louise Addie Moulton
Guy Hosford Northrup
Carl O. Olson
Franklin Andrew Phoenix
Merritt Adams Powers
Velma Louise Pincus
Marieta Frances Russell
Reginald J. Simpson
Roland Greely Snow
Rose Mary Still
Ruth Mary Stack
Helen Ames Steere
Franklin Louis Sutton
Ralph Edmund Tibbetts
Pauline Elizabeth Thiel
Olive Margaret Tinker
Albert William Travers
Raymond Earle Whitney
Louis Vernon Waltz
Nathalie Mildreth Warner

Hodgkins

John T. Beaver, Jr.
Weston Taft Bennett
Walter O. Blanchard
Edna Alice Dawson
Dwight Foster Evans
June Carol Evans
Helen Katherine Foster
Marion Emma Foster

Donald Joseph Fuchs Allene Lucine Holman Pearl Katherine Honold Edna May Ludwig Robert Bruce MacPhail Walter W. Martin Harry McDonald Miller Mary Ellen Murray William Joseph Murray Robert Anthony Repetto Arthur T. Roche Mary Catherine Shea

Byron Griffin Boyd Winfield Sears Brooks Charles Joseph Burns Herbert Carl Engborg Doris M. C. Goldstrass Roy Y. Gordon Ethel Dean Graham Lola G. Hamilton Cyril Vaughn Hunter Esther R. M. Johnson Robert Evans Lindner William Mahan Leslie Baden Stahl Helen Constance Tooker Doris Evelyn Ward

Cutler

Evelyn B. A. Peterson Norwood A. Robinson M. Grace Ryan William Edwin Smith Ada Elizabeth Snyder Esther Ruth Taylor Berenice Louise Tedford Violet J. Tellier Frank Herbert Townsend Louise Whall Gracie Wright

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1917.

School Committee.

GEORGE E. WHITAKER . HERBERT CHOLERTON .		•		•		· Chairman Vice-Chairman
	Mer	nbera	3.			
	EX-O	FFICI	IS.			Term expires January
ZEBEDEE E. CLIFF, Mayor, WARREN C. DAGGETT, Pre-	siden t]	29 Board	Power	ler I Alde	House rmen	terrace 1918
· ·					street	
	WA R	D ON	E.			
JAMES J. RUDD DR. WINNIFRED P. DAVIS			A Fr Pea:		in str eet	eet 1918 1919
	WAR	D TW	0.			
Daniel H. Bradley, Christopher J. Muldoon,		19 88	Conc Conc	ord ord	avenu avenu	1918 e 1919
	WARD	THR	EE.			
GEORGE E. WHITAKER, OSCAR W. CODDING,		$\begin{array}{c} 75 \\ 21 \end{array}$	Waln Pleas	ut s ant	treet avenu	1918 1919
	WARI	FOU	JR.			
HARRY A. STONE, FRANK H. HOLMES,		$\begin{array}{c} 254 \\ 22 \end{array}$	Bro: Walt	adwa er st	y reet	1918 1919
	WAR	D FIV	E.			
HARRY M. STOODLEY, Mrs. Julia R. Aldrich,					l aver	nue 1918 1919
	WAR	D SI	ĸ.			
GUY E. HEALEY, GEORGE E. WARDROBE					street venue	1918 1919
	WARD	SEVI	EN.			
Frank E. Porter, Herbert Cholerton,			Ossip Colle		oad v <mark>enue</mark>	1918 1919

Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

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

Office telephone, 314; house telephone, 12.

Superintendent's office force:-

Justin W. Lovett, 29 Cambria street. Mary A. Clark, 42 Highland avenue. Mildred A. Merrill, 26 Cambria street.

Board Meetings.

January 29.	April 30.	September 24.	December 28.
February 26.	May 28.	October 29.	January 4, 1918
March 26.	June 25.	November 26.	
water of			
		8.15 o'clock.	

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1917.— Concluded.

STANDING COMMITTEES, 1917.

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

District I.—Rudd, Dr. Davis, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Muldoon, Codding.

KNAPP, PERRY, BAXTER.

District III.—Whitaker, Codding, Dr. Davis.
POPE, BELL, CUMMINGS.

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

EDGERLY, GLINES.

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

District VI.—Healey, Wardrobe, Stoodley.

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

District VII.—Porter, Cholerton, Healey.
HIGHLAND, HODGKINS, CUTLER, LINCOLN, LOWE.

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

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

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

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

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

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

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

Rules and Regulations.-Muldoon, Healey, Holmes.

TABLE 29.—TEACHERS IN SERVICE, JANUARY, 1917.

NAME AND RESIDENCE.	Salary.	Began Service.
HIGH SCHOOL.		
Central Hill.		
JOHN A. AVERY, Head Master, 22 Dartmouth Street	\$3,200	1895
Everett W. Tuttle, Master, 62 Highland Avenue	2,250	1895
Frank M. Hawes, Master, 257 School Street	2,000	1879
Frank H. Wilkins, Master, 93 Raymond Avenue	1,900	1906
John L. Hayward, Master, 242 School Street. Harry F. Sears, Master, 44 Orris Street, Melrose Highlands.	1,960	1913
William W. Obear, Master, 86 Belmont Street	$\begin{array}{c c} \cdot & 1,900 \\ \cdot & 1,850 \end{array}$	1901 1906
George M. Hosmer, Sub-Master, 13 Arlington Street	1,700	1901
Laurence A. Sprague, Sub-Master, 17 Perkins Street, West Newton .	1,700	1906
John M. Jaynes, Sub-Master, 131 Summer Street	1,700	1901
Guy C. Blodgett, Sub-Master, 16 Monument Street, West Medford	1,700	1910
Arthur N. Small, Sub-Master, 311/2 Dwight Street, Boston	1,500	1916
Fred W. Carrier, Sub-Master, Wilmington	1,300	1915
Augustus B. Tripp, Sub-Master, 67 Wallace Street	1,400	1909
S. Thomas Hall, Junior Sub-Master, 62 Highland Avenue *Clarance L. Foster, Junior Sub-Master, 32 Central Road	1,300 1,300	1910 1911
Irving P. Colman, Junior Sub-Master, 151 Central Street	1,150	1915
Stephen H. Mahoney, Sub-Master, 16 Parker Street	1,100	1914
Lester W. Dearborn, Junior Sub-Master, 61 Lowden Avenue	1,050	1914
George E. Pearson, Junior Sub-Master, 325 Highland Avenue	1,100	1914
A. Marion Merrill, Assistant, 24 Central Road	1,200	1895
Frances W. Kaan, Assistant, 133 Central Street	1,200	1882
Helen L. Follansbee, Assistant, 40 Vinal Avenue	1,200	1900
Mrs. Lena Gilbert, Assistant, 7 Kingston Street	1,000	1892
Harriet E. Tuell, Assistant, 40 Vinal Avenue	1,050	1899
A. Laura Batt, Assistant, 24 Central Road ·	1,050 1,050	1902 1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington	1,050	1895
Clara A. Johnson, Assistant, 177 Central Street	1,000	1897
*Elizabeth H. Hunt, Assistant, 121 St. Stephen Street, Boston	1,000	1908
Blanche S. Bradford, Assistant, 163 Summer Street	1,000	1903
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge,	1,000	1908
Mrs. Lucy I. Topliff, Assistant, 57 Cypress Street, Brookline	1,000	1914
Eudora Morey, Assistant, 121 St. Stephen Street, Boston	900	1874
Ella D. Gray, Assistant, 147 Walnut Street	900	1901 1904
Bertha A. Raymond, Assistant, 147 Highland Avenue	900	1900
F. Gertrude Perkins, Assistant, 21 Highland Avenue	900	1906
Mabel Butman, Assistant, 49 Boston Street	900	1906
Grace Gatchell, Assistant, 6-A Pleasant Avenue	900	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge	1,000	1908
Edith L. Hurd, Assistant, 125 Central Street	900	1910
Julia T. Connor, Assistant, 59 Church Street	900	1910
Esther Parmenter, Assistant, Lynnfield Centre	900	1911
Annie C. Woodward, Assistant, 2 Madison Street	1,000	191 4 1906
Alice A. Todd, Assistant, 82 Munroe Street	900	1913
Hattie M. Baker, Assistant, 24 Sunset Road	900	1911
Mary F. Osborne, Assistant, 67 Boston Street	900	1911
Ella W. Bowker, Assistant, 2 Hillside Avenue	900	1911
Mrs. Ellen A. Patten, Assistant, 46 Mass. Avenue, Cambridge	900	1913
Florence L. McAllister, Assistant, 23 Wallace Street	900	1913
M. Belle Preston, Assistant, 84 Packard Avenue	900	1914
Edith R. Macurdy, Assistant, 28 Chester Street, Watertown	900	1911
Laura R. Cunningham, Assistant, 62 Highland Avenue	900	19 13 191 4
Ruth A. Davis, Assistant, 15 Evergreen Avenue	900	1914
Mary L. Johnston, Assistant, 14 Fellsway West	900	1914
Bessie N. Page, Assistant, 106 Summer Street	850	1911

[•] Leave of absence.

TABLE 29.—Teachers in Service January, 1917.—Continued.

Name and Residence.						Began Service.
Tulia A. Haley, Assistant, 88 Prospect Street				_	800	191
Lydia A. Jones, Assistant, 40 Vinal Avenue					800	191
Mary C. Smith, Assistant, 117 Prospect Street					850	191
Florence Towne, Assistant, 15 Pleasant Avenue					750	191
Fladys L. Swallow, Assistant. 15 Pleasant Avenue .					650	191
Alfreda Veazie, Assistant, 193 Linden Street, Everett .					650	191
Helen M. Stevens, Assistant, 43 Sargent Avenue					800	191
Jean H. Congdon, Assistant, 106 Summer Street					800	191
Charles A. Dickerman, Assistant, 163 Summer Street .					800	191
John J. McLaughlin, Assistant, 84 Inman Street, Cambridge					900	191
Mrs. Grace Houlder, Assistant, 75 Belmont Street					800	191
Florence C. Bowen, Assistant, 30 Walnut Street					600	191
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue					600	191
B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury					600	. 191
Ruth E. Low, Assistant, 44 Tennyson Street					850	19:
M. Genevieve Smith, Assistant, 44 Tennyson Street					800	191
lene C. Ritchie, Assistant, 15 Willoughby Street .			•		700	19:
Helen F. Lyon, Assistant, 392 Broadway					600	19:
Margaret M. Kneil, Librarian, 44 Tennyson Street .					400	19:
Mabell M. Ham, Clerk, 41 Boston Street					800	19

^{*} Part-time.

TABLE 29.—Teachers in Service January, 1917.—Continued.

Name and Residence.	Salary.	Began Service.
EAST SOMERVILLE JUNIOR HIGH SCHOOL		
Pearl Street		
Joseph A. Ewart, Head Master, 11 Bigelow Street	\$100	1916
Samuel A. Johnson, Master, 83 Thurston Street	2,000	1916
Elizabeth M. Warren, 8 Aldersey Street	. 875	1897
Mary L. Norton, 20 Watts Street, Malden	800	1914
*Sarah H. Christie, 61 Pearl Street	800	1914
Edyth M. Grimshaw, 1919 Hyde Park Avenue, Readville	. 800	1909
Euphemia K. Potts, 13 Langmaid Avenue	. 800	1913
Edith L. Laycock, 43 Franklin Street	. 800	1913
Elizabeth J. Mooney, 168 Summer Street	825	1904
Anna J. Dolan, 27 Hancock Street, Dorchester	700	1915
Anna J. Coll, 65 Newton Street	200	1946
*Charlotte Holmes, 24 Cambria Street	400	1913
Ellen G. Hopkins, 37 Brastow Avenue	425	1916
Francis A Ryan Canton	1.000	1913
Herbert L. Gregory, 18 Forster Street	950	1915
*Ruth E. Kingman, 11 Westwood Road	350	1913
Helen E. Linegar, 38 Broadway	200	1916
Carrie M. Frost, 87 Highland Road	800	1912
	1	
WINTER HILL JUNIOR HIGH SCHOOL.		
Forster Building, Sycamore Street and Evergreen Avenue.		
	\$0,200	1019
Forster Building, Sycamore Street and Evergreen Avenue.	\$2,300	1913
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street	875	1895
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston	875 825	1895 1902
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston	875 825 750	1895 1902 1916
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway	875 825 750 800	1895 1902 1916 1909
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street	875 825 750 800 525	1895 1902 1916 1909 1914
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street	875 825 750 800 525 750	1895 1902 1916 1909 1914 1915
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford	875 825 750 800 525 750 800	1895 1902 1916 1909 1914 1915 1899
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street	875 825 750 800 525 750 800 800	1895 1902 1916 1909 1914 1915 1899
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street Alice E. Wright, 12 Evergreen Avenue	875 825 750 800 525 750 800 800 600	1895 1902 1916 1909 1914 1915 1899 1907
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue	875 826 750 800 525 750 800 800 800	1895 1902 1916 1909 1914 1915 1899 1907 1915
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading	875 826 750 800 525 750 800 800 600 800 600	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading *Sarah H. Christie, 61 Pearl Street	875 825 750 800 525 750 800 800 600 800	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905 1916
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street †Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading **Sarah H. Christie, 61 Pearl Street Gertrude W. Chaffin, 4 Copeland Terrace, Malden	876 826 750 800 525 750 800 800 600 800 600 800 600	1895 1902 1916 1909 1914 1915 1899 1907 1915 1906 1916
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street May I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street †Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading *Sarah H. Christie, 61 Pearl Street Gertrude W. Chaffin, 4 Copeland Terrace, Malden Edith E. Neylan, 88 Rogers Avenue	875 826 750 800 525 750 800 600 800 600 800 650 600	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905 1916
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street May I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street † Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading *Sarah H. Christie, 61 Pearl Street Gertrude W. Chaffin, 4 Copeland Terrace, Malden Edith E. Neylan, 88 Rogers Avenue Arthur J. Marchant, 110 Bartlett Street	875 826 750 800 525 750 800 800 600 800 600 800 600 800	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905 1916
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street Mary I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street †Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading *Sarah H. Christie, 61 Pearl Street Gertrude W. Chaffin, 4 Copeland Terrace, Malden Edith E. Neylan, 88 Rogers Avenue Arthur J. Marchant, 110 Bartlett Street Joseph S. Hawthorne, 40 Pearson Avenue	875 826 750 800 525 750 800 800 600 800 600 800 650 600 1,100	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905 1916 1914
Forster Building, Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street Irene S. Nightingale, 12 Court Street, Arlington Emma G. Blanchard, 146 Massachusetts Avenue, Boston George H. Lusk, 44 Saratoga Street, East Boston M. Edna Merrill, 228 Broadway Anna R. Walsh, 27 Avon Street May A. Daly, 437 Medford Street May I. Bradish, 112 Magoun Avenue, Medford Louise V. Richardson, 61 Heath Street † Alice E. Wright, 12 Evergreen Avenue Mary F. Mead, 35 Kidder Avenue Helen B. Parker, 40 Chute Street, Reading *Sarah H. Christie, 61 Pearl Street Gertrude W. Chaffin, 4 Copeland Terrace, Malden Edith E. Neylan, 88 Rogers Avenue Arthur J. Marchant, 110 Bartlett Street	875 826 750 800 525 750 800 800 600 800 600 800 600 800	1895 1902 1916 1909 1914 1915 1899 1907 1915 1905 1916 1914 1916

^{*}Part-time teacher.

[†]Temporary teacher.

TABLE 29.—Teachers in Service January, 1917.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
	(WILLIAM H.) PRESCOTT SCHOOL.		
	Pearl and Myrtle Streets.		
7. 7. 7. 6. 5. 4. 3. 2.	SAMUBL A. JOHNSON, Master, 83 Thurston Street Mary L. Guyton, 34 Cross Street, Malden Catherine Heagney, 32 Sewall Street Mary L. Abbott, 32 Alaska Street, Roxbury Hazel N. Friend, 128 Rowe Street, Melrose Mary A. Whitney, 10 Dow Street Clara Taylor, 36 Flint Street Elizabeth L. Marvin, 17 Summit Street Louise E. Pratt, 40 Greenville Street A. Louise Bean, 9 Hamlet Street	75 0 800 800 800 750 800 800 800 800 800	1893 1916 1912 1910 1915 1916 1871 1898 1889
}	SANFORD HANSCOM SCHOOL. Webster and Rush Streets.		
4. 3. 3. 2. 2. 1. 1. Kind'n. Asst.	ELIZABETH M. COLLINS, Principal, 2 Madison Street Mrs. Agness M. Travis, 98 Park Avenue, Winthrop Highlands Jennie M. Twiss, 67 Berkeley Street Maude A. Nichols, 166 Highland Avenue Florence M. Shaw, 44 Tennyson Street Frances E. Robinson, 43 Franklin Street Marion A. Viets, 170 Lexington Street, Waltham Mrs. Nellie W. McPheters, 163 Summer Street Martha L. Littlefield, 65 Glen Street Alice M. Saben, Jason Terrace, Arlington Elizabeth J. Baker, 78 Boston Street, Frances L. McGann, 45 Putnam Street	\$1,500 850 800 800 650 800 750 800 800 700 475	1901 1908 1903 1906 1909 1908 1912 1914 1897 1903 1907
	VOCATIONAL SCHOOL FOR BOYS (Day).		
	Davis Bldg., Tufts Street.		
	Harry L. Jones, Principal, 137 Powder House Boulevard . Nehemiah E. Gillespie, 28 Worcester Square, Boston . Charles A. Kirkpatrick, 27 Sewall Street Fred P. Carter, 43 Auburn Avenue Arthur E. Gordon, 45 Columbus Avenue Reginald Webster, 12 Oxford Street Edna E. Marsh, Secretary, 82 Liberty Avenue	\$1,900 1,300 1,150 1,000 1,000 900 \$9 per wk.	1914 1911 1913 1914 1914 1916 1917
}	CLARK BENNETT SCHOOL.)	
	Poplar and Maple Streets.		
5. 4 3. 2. 2. 1. 1. Kind'n.	ELIZABETH M. COLLINS, Principal, 2 Madison Street Kate B. Gifford, 29 Robinson Street S. Ellen Brown, 8 Aldersey Street Mrs. Nettie L. Fay, 12 Grand View Avenue Nellie F. Eaton, 15 Pleasant Avenue Isadore E. Taylor, 36 Flint Street Eleanor W. Nolan, *8 Highland Avenue Alice M. Hayes, 8 Aldersey Street Mary L. Gallagher, 81 Benton Road Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston Caroline G. Baker, 40 Benton Road	\$850 800 800 800 800 800 800 600 800 700	1912 1902 1913 1901 1906 1833 1909 1913 1913 1906 1896
Asst. Ungraded Non-Eng.	Helen Harrington, 28 Hurlburt Street, Cambridge Julia M. Riordan, 165 Albion Street	525 525 700	1912 1914 1913

TABLE 29.—Teachers in Service January, 1917.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
	GEORGE L. BAXTER SCHOOL.		
	Bolton Street.		
5. 4. 3. 2. 1. Kind'n. Asst.	MARY G. BLACKWELL, Principal, 45 Ibbetson Street Etta R. Holden, 30 Warren Avenue Margaret M. Breen, 461 Somerville Avenue Sue A. Fitzpatrick, 451-A Somerville Avenue Maria D. McLeod, 1 Highland Park, Cambridgeport Eleanor A. Connor, 59 Church Street Martha W. Delay, 48 Beacon Street	\$875 800 650 800 800 700 525	1900 1908 1916 1912 1906 1903 1911
	OREN S. KNAPP SCHOOL.		
	Concord Avenue.		
9. 9. 8. 8. 7. 7. 6. 6. 5. 4. 3.	John Sherburne Emerson, Master, 3 Preston Road Clara M. Burns, Ayer Marion F. Orne, 43 Fairmount Avenue Nellie Theresa McCarthy, Woburn Minnie A. Holden, 30 Warren Avenue Clara B. Parkhurst, 22 Highland Avenue Clara B. Sackett, 91 Summer Street Edith Hersey, 287 Medford Street Florence M. Hopkins, 65 Chandler Street Nona E. Blackwell, 45 Ibbetson Street Winifred I. Macdonald, 43 Babcock Street, Brookline Olivia H. Norcross, Wilmington Minnie Alice Perry, 77 Walnut Street M. Edith Callahan, Woburn	\$2,000 875 800 800 800 800 800 800 800 80	1894 1914 1912 1909 1906 1889 1891 1899 1907 1906 1917 1914 1891
	ALBION A. PERRY SCHOOL.		
	Washington Street, near Dane Street.		
6. 5. 4. 3. 2.	CATHERINE E. SWEENEY, Principal, 633 Broadway Mary A. Mullin, 27 Shawmut Street Irene Vincent, 47 Vinal Avenue L. Gertrude Allen, 230 Washington Street Mrs. Sarah E. Murphy, 21 Fountain Avenue Grace R. O'Neil, 347 Washington Street	\$875 800 800 800 800 700	1901 1910 1903 1884 1906 1913
	CHARLES G. POPE SCHOOL.		
}	Washington and Boston Streets.		
7. 7. 7. 6. 6. 6. 5. 4. 4. 3. 3. 2. 2. 1.	GEORGE M. WADSWORTH, Master, Whitman Florence A. Chaney, 56 Boston Street Alice I. Norcross, 90 Russell Avenue, Watertown Harriet M. Clark, 10 Vernon Street, West Medford M. Abbie Tarbett, 11 Washington Street, Stoneham Edith L. French. 17 Aldersey Street Emma J. Kennedy, 50 Vinal Avenue Lizzie W. Parkhurst, 22 Highland Avenue Annie G. Sheridan, 57 Stanley Avenue, Medford M. Katherine Davis, 9 Harvard Place Florence E. Locke, 22 Linden Street, Needham Mary J. Dewire, 384 Washington Street Alice B. Frye, 44 Stevens Street, Malden	\$2,000 950 800 800 800 800 800 800 800 800 800 8	1891 1892 1885 1893 1906 1912 1912 1885 1886 1904 1899

TABLE 29.—Teachers in Service January, 1917.—Continued.

Grade.	Name and Residence.	Salary.	Began Service.
	LUTHER V. BELL SCHOOL.		
	Vinal Avenue.		
9. 9. 8. 8. 7, 6. 6. 6, 5. 5, 4.	GEORGE M. WADSWORTH, Master, Whitman Alice L. Davis, 40 Vinal Avenue Rena S. Hezelton, 51 Wellington Road, Medford Esther L. Small, 17 Pleasant Avenue Mrs. Blanche G. North, 24 Warren Avenue Eva R. Barton, 33 North Street, Stoneham Ada G. Macdonald, 44 Babcock Street, Brookline Mrs. Mabel T. Totman, 17 Pleasant Avenue Lillian E. Haskell, 41 Putnam Street Julia A. Simmons, 11 East Newton Street, Boston M. Eunice Young, 209 Washington Street, Winchester	\$950 825 800 800 800 800 800 800 800 800 800	1912 1895 1909 1914 1898 1904 1914 1893 1913 1911 1912
	(JOHN A.) CUMMINGS SCHOOL.		
	School Street, near Highland Avenue.		
3. 2. 2, 1. 1.	GEORGE M. WADSWORTH, Master Whitman FANNIE L. GWYNNE, Principal, 65 School Street Angeline Cann, Hotel Woodbridge	\$850 800 800 750	1912 18×6 1897 1896 1914
	(JOHN G.) EDGERLY SCHOOL.		
	Cross and Bonair Streets.		
7. 6. 6. 5. 4. 5. 4. 4. 3. 2. 2. 1.	CHARLES E. BRAINARD, Master, 82 Munroe Street *M. Eva Warren, 21 Highland Avenue Annie L. Dimpsey, Hotel Woodbridge Mary E. Richardson, 35 Auburn Avenue Isabelle M. Gray, 25 Webster Street Mabel C. Mansfield, 35 Auburn Avenue Edith M. Snell, 4 Vine Street, Melrose Berta M. Burnett, 1619 Massachusetts Avenue, Cambridge G. Hortense Pentecost, 4 Walter Terrace J. Louise Smith, 196 Washington Street, Lynn Lillian Nealley, 109 Glen Street Alice W. Cunningham, 62 Highland Avenue Martha M. Power, 37 Gleason Street, West Medford	\$2,000 875 \$00 800 800 800 800 800 800 800	1889 1906 1891 1893 1897 1893 1900 1915 1905 1896 1882 1901
	JACOB T. GLINES SCHOOL.		
	Jaques Street, near Grant Street.		
7. 7, 6. 6. 5. 4. 4. 3. 3. 2. 2. 1. Kind'n.	MARY E. NORTHUP, Master, 9 Forster Street Mary E. Stiles, 9 Forster Street Lilla M. Marble, 85 Heath Street Ruth E. Clarke, 35 Montrose Street Margaret A. Orr, 146 Massachusetts Avenue, Boston Harriet F. Ward, 18 Forster Street Mary A. Goddard, 9 Winter Hill Circle Mrs. Carrie Armitage, 57 Madison Street Florence E. Baxter, 49 Hudson Street Anna G. Welch, 22 Fenwick Street Edith M. Dow, 2 Pleasant Avenue Florence W. Schroeder, 268 Summer Street Leslie Caverly, 9 Wildwood Street, Winchester Isabel J. Tifft, 37 Madison Street Mrs. Etta D. Ellsworth, Trinity Court, Boston Ida M. Kane, 28 Fellsway West	\$2,000 875 800 800 800 800 800 800 800 80	1878 1883 1902 1915 1890 1895 1893 1899 1891 1897 1914 1915 1908 1892 1897

^{*}Leave of absence.

TABLE 29.—Teachers in Service January, 1917.—Continued.

(CHARLES) FORSTER SCHOOL. Sycamore Street and Evergreen Avenue. JOSEPH A. EWART, Master, 11 Bigelow Street	Began Service.	Salary.		RESIDENCE	Name and Re	Grade.
Lowell Street, near Vernon Street \$2,000 7.	1913 1903 1884 1881 1909 1893 1900 1892	800 800 800 800 800	 Avenue. et lford . ford . Boston .	Evergreen Bigelow Str Street, Me Avenue et reen Avenu venue, Me tts Avenue	Sycamore Street and E JOSEPH A. EWART, Master, 11 Bi Mrs. Mina P. Bickford, 216 Park S Elizabeth F. Clement, 29 Kidder A Annie S. Gage, 32 Marshail Stree Mrs. Annie J. Ireland, 62 Evergre Carrie T. Lincoln, 65 Ashland Ave Cora J. Demond, 146 Massachusett	7, 6. 6, 5. 5, 4. 4, 3. 3, 2.
HARRY F. HATHAWAY, Master, 29 Albion Street 7. Elizabeth J. O'Neil, 61 Central Street					`	
4, 3. Anna R. Canfield, 205 Cedar Street	1890 1894 1900 1913 1912 1903 1903 1905 1902 1897 1914 1904 1912 1885 1913 1894 1914	950 800 800 800 800 800 800 800 525 800 800 800 800 800	oston .	treet . Malden al Street, I reet, Brook t . Street et . enue . venue reet .	Elizabeth J. O'Neil, 61 Central St Jane Batson, 15 Florence Street, M Maude M. Cunningham, 61 Central Cora E. Crawford, 247 W. Newton Helen L. Galvin, 1870 Beacon Street Eva M. Barrows, 76 Boston Street Bessie J. Baker, Malden Clara L. Griffiths, 39 Ames Street Elizabeth S. Brown, 58 Thurston S Anna R. Canfield, 205 Cedar Street Harriet M. Bell, 62 Highland Ave Lynda V. Merrill, 26 Brastow Av Priscilla A. Merritt, 96 Oxford Stre G. Marion Lovering, 27 Flint Street Mabel E. Mansir, 77 Albion Street	7, 6. 6. 6. 5, 4. 5. 4. 4. 3. 3. 2.
MARTIN W. CARR SCHOOL.			OL.	RR SCH	MARTIN W. CAR	
Atherton Street.				Street.	Atherton S	
CHARLES G. HAM, Master, 20 Washburn Street, Watertown May E. Berry, 14 Billingham Street Clara D. Eddy, 71 Central Street Susie L. Luce, 21 Francesca Avenue Harriet A. Hills, 14 Billingham Street Leila L. Rand, 47 Norfolk Road, Arlington Marie T. Smith, 19 Day Street Grace T. Merritt, 47 Cherry Street L. Alice Grady, 9 Felton Street, Cambridge Elizabeth S. Foster, 10 Cambria Street Mrs. Mary B. Soule, 39 Walnut Street Katherine Pike, 24 Cambria Street Eva S. Bent, 6 Steeves Circle Bessie I. Berry, 38 Wyllis Avenue, Everett Annie B. Russell, 14 Kidder Avenue *Pearl F. Dame, 1 Ellsworth Street Mabel Ingham, 27-B Summer Street Asst. Mary L. McKenna, 294 Lowell Street Mary L. McKenna, 294 Lowell Street 350 Mary L. McKenna, 294 Lowell Street 360 875 880 880 880 880 880 880 88	1898 1884 1900 1891 1877 1906 1898 1897 1912 1906 1915 1901 1906 1908 1912 1915	875 825 800 800 800 800 800 800 800 800 800 80	 	reet	May E. Berry, 14 Billingham Street Clara D. Eddy, 71 Central Street . Susie L. Luce, 21 Francesca Aven Harriet A. Hills, 14 Billingham Str Leila L. Rand, 47 Norfolk Road, A Marie T. Smith, 19 Day Street . Grace T. Merritt, 47 Cherry Street L. Alice Grady, 9 Felton Street, Ca Elizabeth S. Foster, 10 Cambria Str Mrs. Mary B. Soule, 39 Walnut St Katherine Pike, 24 Cambria Street Eva S. Bent, 6 Steeves Circle Bessie I. Berry, 38 Wyllis Avenue, Annie B. Russell, 14 Kidder Avenue *Pearl F. Dame, 1 Ellsworth Street Frances E. Welch, 303 Highland A Mabel Ingham, 27-B Summer Street Dorothy Lundgien, 50 Harrison St	8. 8. 7. 7. 6. 6. 5. 5. 5. 4. 3. 8. 2. 2. 1. Asst.

^{*}Leave of absence.

TABLE 29.—Teachers in Service January, 1917.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
20/12/12/10/10	GIRLS' VOCATIONAL SCHOOL.		
	41 Atherton Street.		
	Mary Henleigh Brown, Principal, 64 Commonw'lth Ave., Boston *Helen C. French, 60 Adams Street	\$1,600 700	1911
	Mary Donoghue, 10 Miller Avenue, Cambridge	800	1911 1911
	Theresa Morrison, 174 Broadway	700	1912
	Lucy Dorr, 96 Oxford Street Marion P. Crawford, 58 Central Street	700 900	1911 1911
		600	1916
	Mrs. Vernie Neily, 96 Heath Street †Gertrude Zeiss, 94 Mehoiden Road, Waban Emma M. Damon, 64 Vinal Avenue Elora F. Stevens, Secretary, 45 Kidder Avenue	300 800	1916
	Flora E. Stevens, Secretary, 45 Kidder Avenue	\$9 per wk.	1908 1915
	(ENOCH R.) MORSE SCHOOL.		
	Summer and Craigie Streets.		
	MINA J. WENDELL, Master, 211-A Summer Street	\$2,000	1882
9. 9, . 8.	Mrs. Harriette C. Hamilton, 135 Lowell Street	875	19 00
8, 7.			4.000
7.	Lennie W. Bartlett, 10 Cambria Street	800 750	1893 1916
6. 5.	Helene H. Parker, 26 Gibbens Street	800	1906
5, 4.	Catherine Faircloth, 26 Lowden Avenue	800	1914 1911
4, 3.	Mrs. Elva A. Cutler, 36 Powder House Boulevard Mrs. Agnes C. Rice, 34 Highland Avenue	800 800	1900
3, 2.	Lena Munroe, 211-A Summer Street	800	1913
2. 1.	Alice C. Ray, 26 Lowden Avenue	800	1914 1912
Asst.	Marguerite Stetefeld, 34 Radcliffe Road	425	1914
Asst.	Eleanor Lundgren, 50 Harrison Street	475	1915
	GEORGE O. PROCTOR SCHOOL.		
	Hudson Street.		
	HARRY F. HATHAWAY, Master, 495 Broadway Nora F. Byard, Principal, 27 College Avenue	\$950	1912 1884
7, 6. 6, 5.	Alice G. Hosmer, 42 Boston Street	800	1906
5, 4.	Abbie A. Gurney, 88 Belmont Street	800	1888
4, 3.	Ella P. McLeod, 163 Summer Street	800 800	1888 1894
3. 2.	Edith L. Hunnewell, 23 Milton Street Mary S. Richardson, 347 Boston Avenue, Medford	800	1906
1.	Lucia Alger, 10 Cambria Street	800 350	1889 1915
Asst.			2010
	GEORGE W. DURELL SCHOOL.		
	Beacon and Kent Streets.	C 050	1902
4. 3.	ABIGAIL P. HAZELTON, Principal, 36 Central Street Grace E. Packard, 12 Carlisle Street, Roxbury	\$850 800	1912
2.	Mary Winslow, 23 Hall Street	800	1887
1.	Alice M. Dicker, 82 Marion Street, East Boston	750	1912
	MARK F. BURNS SCHOOL.		
	Cherry Street, near Highland Avenue.		
6.	LAURA J. BROOKS, Principal, 31 Stevens Street, Stoneham .	\$950	1883
Asst.	Margaret Beattie, 401 Washington Street	525 800	1914 1897
5. 4.	Lizzie E. Hill, 11 E. Newton Street, Boston	800	1890
4, 8.	Mrs. Margaret D. Hellyar, 786 Main Street, Greenwood Annie L. Brown, 4 Saginaw Avenue, North Cambridge	1 800	1909
3. 2.	Mary E. Lacy, 63 Cherry Street	800	1885 1890
2, 1.	Ardelle Abbott, /I Craigie Street	800	1896
1.	Alice E. Morang, 114 Belmont Street Louise Deady, 84 Bay State Avenue	800 350	1893 1915

^{*}Leave of absence. † Part-time.

TABLE 29.—Teachers in Service January, 1917.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
9. 8. 7. 6. 5, 4. 4, 3. 2. 1.	BENJAMIN G. BROWN SCHOOL. Willow Avenue and Josephine Avenue. GEORGE I. BOWDEN, Master, 92 Monument St., West Medford . Annie G. Smith, b9 Maple Street, Malden . Martha R. Taylor, 26 Simpson Avenue . Ida M. Record, 8 Aldersey Street . Gladys Stimson, 26 Lowden Avenue . Annie Sanburn, 11 East Newton Street, Boston . Mary T. Ford, 154 Elm Street, Cambridge . Anna N. Johnson, 33 Everett Avenue . Alice M. Dorman, 159 Morrison Avenue . Mrs. Grace H. Bliss, 33 Whitfield Road . Persis A. Richardson, 363 Broadway . Bessie Thorpe, 16 Park Place	\$2,000 875 800 800 800 800 800 700 800 800 750 450	1908 1901 1914 1899 1914 1906 1911 1913 1903 1900
9. 9. 8. 8. 8. 7. 7. 6. 6. 5.	HIGHLAND SCHOOL. Highland Avenue and Grove Street. FRANK W. SEABURY, Master, 18 Winslow Avenue Grace M. Clark, 10 Vernon Street, West Medford Marguerite Burns, 73 Hancock Street, Boston Sarah E. Pray, 58 Liberty Avenue Mary L. Bryant, 24 Hall Avenue Helen I. Stearns, 106 College Avenue Mary H. Joyce, 76 Boston Street Elsie M. Ross, Ipswich Ethel M. Park, 48 Electric Avenue Lillian F. Richardson, 129 Mount Auburn Street, Cambridge Marie Clifford, 35 Langdon Street, Cambridge Marion Allen, Danvers Eva E. Perkins, 48 Astor Street, Boston	\$2,000 875 825 825 800 750 800 800 650 800 800 800 800 800	1911 1893 1907 1877 1903 1916 1891 1908 1916 1904 1907 1911
9. 9, 8. 7. 7. 6. 5, 5. 4. 4, 3. 3, 2. 2, 1.	WILLIAM H. HODGKINS SCHOOL. Holland Street. ARTHUR L. DOE, Master, 27 Spruce Street, Malden Edith W. Emerson, 135 Central Street Alice S. Hall, 185 Central Street Mrs. Augusta H. Bergin, 80 Porter Road, Cambridge Mrs. Gertrude W. Leighton, Abington Helen M. Farr, 8 Atherton Street Isabel M. Brunton, 33 Walnut Street Flora A. Eurgess, Arlington Heights Catherine A. Burden, 10 Wallace Street Genieve R. Barrows, 52 Westland Avenue, Boston Katherine M. Fox, Stoneham Inez Prentiss, 54R College Avenue May V. Powell, 47 Centre Street, Malden	\$2,000 875 800 800 800 450 750 800 800 800 800	1896 1896 1896 1914 1895 1915 1910 1894 1902 1905 1896 1913
9. 8. 8. 7. 7. 6. 6. 5. 4. 3. 3. 2. 1. Asst.	S. NEWTON CUTLER SCHOOL. Powder House Boulevard, near Raymond Avenue. HARLAN P. KNIGHT, Master, 22 Hamilton Road N. Irene Ellis, 29 Newbury Street Elizabeth R. Henderson, 83 Ossipee Road Lilla E. Mann, 50 Curtis Street Katherine A. Breen, 81 Avon Street Edith A. Maxwell, 43 Whitfield Road Bernice J. Andrews, 10 Locke Street Ella H. Bucknam, 1105 Broadway Georgie B. Collins, 1137 Massachusetts Avenue, Cambridge Hazel McMillan, 7 Columbus Avenue Olevia M. Woods, 116 Powder House Boulevard Mary L. Ennis, 785 Broadway Bessie A. Mirfield, 62 Raymond Avenue Almena J. Mansir, 77 Albion Street Inez M. Rodgers, 30 Conwell Avenue Annie H. Hall, 97 College Avenue Mrs. Katie L. Harmon, 187 Elm Street Agnes Riley, 451 Somerville Avenue	\$2,000 875 800 800 800 800 800 700 550 800 700 700 800 800 800 475 350	1897 1903 1912 1902 1912 1906 1914 1897 1916 1906 1915 1919 1915 1906 1916

TABLE 29.—Teachers in Service January, 1917.—Concluded.

Grade.	Name and Residence.	Salary.	Began Service.
2. 3. 1.	LINCOLN SCHOOL. Broadway, near Teele Square. HARLAN P. KNIGHT, Master, 22 Hamilton Road Eliza H. Lunt, Principal, 50 Curtis Street Mrs. Lillian M. Wentworth, 248 Highland Avenue Hortense F. Small, 91 Electric Avenue	\$850 800 800	1914 1889 1911 1912
4. 4. 3. 3. 2. 2.	MARTHA PERRY LOWE SCHOOL. Morrison Avenue, near Grove Street. FRANK W. SBABURY, Master, 18 Winslow Avenue MAY E. SMALL, Principal, 17 Park Avenue Stella M. Holland, 32 Hall Avenue Maude C. Valentine, 1098 Broadway Mrs. Jane M. Taaffe, 159 Morrison Avenue Katherine E. Hourahan, 15 Summit Street Clara G. Hegan, 100 School Street Martha A. Jencks, 33 Chester Street Mildred Archibald, 21 Warner Street	\$950 800 800 800 800 800 800 800	1912 1900 1903 1901 1888 1892 1897 1898
	EVENING SCHOOL PRINCIPALS. HARRY L. JONES, High	\$6.00 5.00 4.00	
	Anna E. McCully, 12 Francis Street	\$200 200 200 200 200 200	1916 1916 1916 1916 1916
	SPECIAL TEACHERS. MUSIC.		
13-7. 6-1.	James P. McVey, 29 Hammond Street, Cambridge Mrs. Charlotte D. Lawton, 11 East Newton Street, Boston	\$1,700 1,000	1915 1898
9-1.	Clara M. Gale, 7 Westwood Road	1,100	1911
8-5. 8-5. 8-5. 8-5.	Mary H. Brown, Supervisor, 64 Commonwealth Ave., Boston . Mary L. Boyd, 74 Heath Street	*200 800 800 \$400 500	1913 1888 1900 1913 1913
‡ 9-1 .	PENMANSHIP. Ruth L. Whitehouse, 333 Broadway	750	1915
9, 8. 9, 8.	MANUAL TRAINING. Harry L. Jones, Supervisor, 137 Powder House Boulevard . Kathinka Fessman, 1126 Boylston Street, Boston Eva G. Hardy, 64 Avon Street	†200 850 850	1911 1912 1912
9-1.	PHYSICAL INSTRUCTION Ernst Hermann, 9 Humboldt Street, Cambridge	1,250	1914
	Mary A. Holt, 72 Boston Street	850 850	191 0 1913

^{*}Additional to salary as Principal of Girls' Vocational School.
†Additional to salary as Principal of Boys' Vocational School.
‡ Leave of absence.
§Part-time.

TABLE 30.—OFFICERS, ETC., IN SERVICE JANUARY, 1917.

Name and A	ADDR	ESS.	•						Salary
SUPERINTENDENT A	AND	SE	CRE	ETAF	RY.				
Charles S. Clark, 75 Munroe Street .	•			•			•		\$3,500
CLERI	ζS.								
Justin W. Lovett, 29 Cambria Street Mary A. Clark, 42 Highland Avenue Mildred A. Merrill, 26 Cambria Street								.	1,400
Mary A. Clark, 42 Highland Avenue		•	•						900
Mildred A. Merrill, 26 Cambria Street	•	•	•	•	•	•	•		750
ATTENDA	NCE	Ol	FFIC	ER.					
Benjamin R. Jones, 25 Loring Street .								.	1,350

TABLE 31.—SCHOOL JANITORS, JANUARY, 1917.

School.	Name.	Residence.	
High School, S High School, assistant High School, fireman East Somerville J. High, S, 11 Prescott, S, 12 Hanscom, S, 10 Boys' Vocational, F, 4 Bennett, S, 12 Baxter, S, 6 Knapp, S, 12 Perry, S, 6 Pope, S, 12 Bell, S, 12 Cummings, F, 4 Edgerly, S, 12 Glines, S, 14 Forster, S, 12 Winter Hill Junior High, S, 11 Bingham, S, 16 Carr, S, 16 Morse, F, 12 Proctor, S, 8 Durell, S, 4 Burns, S, 8 Brown, S, 10 Highland, S, 12 Hodgkins, S, 14 Cutler, S, 12	John H. Kelley Andrew R. Burke Jeremiah M. Brennan John N. Quirk Nicholas J. Lacey Charles Hoyt James M. Quirk George A. McGunnigle Charles F. Rose George H. Clapp Michael Mullaney Jeremiah J. Sullivan Maurice T. Mullins George B. Phillips John J. Kilty William Meskill Lewis G. Keene Charles P. Horton Roy C. Burckes George W. Coombs Michael A. Mullin John F. O'Brien John H. Lane John W. Cremen James F. Flynn Ellsworth C. Lundgren Daniel E. Cunningham James J. Cooper E. Parker Cook Chauncey B. Phelps Daniel Campbell	Residence. 7 Madison St. 337 Lowell St. 482 Medford St. 202 Somerville Ave. 85 Franklin St. 18 Trull St. 153-A Somerville Ave. 88 Glen St. 15 Brastow Ave. 35-A Franklin St. 467 Somerville Ave. 60 Newton St, 13 Fremont Ave. 3 Emerson St. 662 Somerville Ave. 53 Partridge Ave. 56 Prescott St. 22 Everett Ave. 298 Broadway. 73 Bonair St. 16 Bowdoin St. 347 Lowell St. 5-A Belmont St. 69 Oxford St. 31 Linden St. 50 Harrison St. 23 Fitchburg St. 105 Willow Ave. 103 Willow Ave. 25 Joseph Street 85 Lexington Ave.	#30.00 17.00 16.00 16.00 16.00 17.00 19.00 17.00 19.00 17.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 17.00 19.00 17.00 19.00 17.00 20.00 17.00 17.00 17.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00
Cutler, Assistant Lincoln, S, 4 Lowe, S, 8 Girls' Vocational, F, 6 .	Walter M. Burns Thomas F. O'Day John F. Richardson Thomas G. Pullen	23 Avon St. 134 Lowell St. 190 Morrison Ave. 6 Madison St.	17.00 15.00 17.00 15.00

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

The high school is heated from the Central heating plant.

LIST OF AUTHORIZED TEXT-BOOKS IN THE HIGH SCHOOL.

English. Composition and Rhetoric Scott and De

Composition and Rhetoric, Scott and DenneyAllyn & Bacon
English Composition Book 2. Brooks American Book Company
English Humorists, Thackeray
Enlarged Practice Book in English Composition, Hitchcock,
Lessons in English, Lockwood
Lessons in English, Lockwood
Studies in English Composition, Keeler and DavisAllyn & Bacon
Addison, MacaulayAllyn & Bacon
Alhambra, IrvingAmerican Book Company
Ancient Mariner, Coleridge
American Poems, Scudder
As You Like It, ShakespeareSibley & Ducker
Browning, Selections from
Bunker Hill Orations, WebsterSibley & Ducker
Burke on ConciliationGinn & Co.
Burns, Representative Poems of, with Carlyle's Essay, Burns,
Byron, Selections from
Byron, Selections from
Constituta Carlott Dickens
Cranford, Gaskell
David Copperfield, Dickens
Deserted Village, Goldsmith
Essays of Elia, Lamb
Essays, Selected, EmersonAllyn & Dacon
Essay on Burns, Carlyle
Essays on Milton, MacaulaySibley & Ducker
Essays on Culture, etc., EmersonHoughton Mifflin Company
Essays on the Choice of Books, CarlyleHoughton Mifflin Company
Evangeline, Longfellow
Franklin's Autobiography
Golden Treasury, Palgrave
Goldsmith, Life of, Irving
Hamlet, Shakespeare
Homer's Iliad, PopeAmerican Book Company
House of Seven Gables, Hawthorne Houghton Mifflin Company
Henry Esmond, ThackerayGinn & Co.
Henry V., ShakespeareGinn & Co.
Idylls of the King, TennysonGinn & Co.
Inland Voyage, Stevenson
In Memoriam, Tennyson
Introduction to American Literature, PainterSibley & Ducker
Ivanhoe, ScottGinn & Co.
Joan of Arc, DeQuinceyGinn & Co.
Johnson, Life of, MacaulaySanborn & Co.
Julius Caesar, ShakespeareAmerican Book Company
L'Allegro, MiltonGinn & Co.
Lays of Ancient Rome, MacaulayD. C. Heath & Co.
Lady of the Lake, Scott
Last of the Molicans, Cooper
Lorna Doone, Blackmore
Lyrics, Milton
Merchant of Venice, Shakespeare
Midsummer Night's Dream, ShakespeareGinn & Co.
Palamon and Arcite, DrydenGinn & Co.
Paradise Lost, MiltonGinn & Co.
Pilgrim's Progress, BunyanGinn & Co.
THE THE TOO PAN DAN DAN DAN DAN DAN DE TOO D

Princess, Tennyson
Sohrab and Rustum, Arnold
Tales of a Traveler, IrvingAmerican Book Company Tale of Two Cities, DickensGinn & Co. Twelfth Night, ShakespeareAmerican Book Company Twice Told Tales, HawthorneHoughton Mifflin Company
Treasure Island. Stevenson
Travels with a Donkey, Stevenson
Washington's Farewell AddressSibley & Ducker Woodstock, ScottAmerican Book Company
History and Civics.
American History, Muzzey
Community and the Citizen, DunnD. C. Heath & Co.
Eastern Nations and Greece, MyersAmerican Book Company English History, MontgomeryGinn & Co. General History, MyersAmerican Book Company
Government of the United States, Guitteau, Houghton Mifflin Company
History of England, AndrewsAllyn & Bacon
History of Greece, Bury
History of Rome, Morey
History of Greece, MyersAmerican Book Company
Mediaeval and Modern History, MyersAmerican Book Company
Outlines of European History, Part I, Robinson and Breasted
Outlines of Mediaeval and Modern European History,
Plutarch's Lives
Rome, Its Rise and Fall, MyersAmerican Book Company Selected Readings in English History, Tuell & HatchGinn & Co.
Short History of Roman People, Allen
Story of the Ancient Nations, WestermanD. Appleton & Co. Student's American History, MontgomeryGinn & Co.
Student's History of the United States, Channing, Macmillan Company

Tales from Herodotus, HavellCrowell Publishing Company
Mathematics.
Academic Algebra, Wells
Shop Problems in Mathematics, Breckinridge, Mersereau
and Moore
Commercial.
Accounting and Business Practice, Moore and MinerGinn & Co. Business Arithmetic, Moore and MinerGinn & Co. Business Speller, EldridgeAmerican Book Company Commercial Correspondence, AltmaierMacmillan Company Commercial Geography, BrighamGinn & Co. Commercial Law, Williams and RogersAmerican Book Company Elements of Business Law, HuffcuttGinn & Co. Essentials of Business Arithmetic, Van Tuyl,
American Book Company Expert Typewriting, Fritz-EldridgeAmerican Book Co. Modern Business Punctuation, without exercises, Campbell,
Modern Business Speller, Mayne
New Illustrated Banking, Williams and Rogers,
American Book Company Practical Course in Touch Typewriting, Smith, Isaac Pitman & Sons
Practical Shorthand, Chandler
Elocution.
Evolution of Expression, Vol. I. Evolution of Expression, Vol. II. Evolution of Expression, Vol. III. Evolution of Expression, Vol. IV.
Science.
Elementary Applied Chemistry, Allyn

Essentials of Chemistry, with laboratory exercises, Hessler and Smith
How the World is Housed, F. G. Carpenter, American Book Company
Laboratory Manual in General Science, Clark, American Book Company
Laboratory Manual (Physics), Adams American Book Company Laboratory Physics, Miller
German.
Anno 1870. Silenkron
Ballads, Schiller, Ed. Henry Johnson. D. C. Heath & Co. Beginning German, Bierwirth. Henry Holt & Co. Das Lied von der Glocke, Goethe, Ed. Otis Henry Holt & Co. Der Prozess, Benedix. Henry Holt & Co. Der Neffe als Onkel, Schiller (Raddatz). Allyn & Bacon Der Fluch der Schonheit, Riehl, Ed. Thomas. D. C. Heath & Co. Der Zerbrochene Krug, Schokke. D. C. Heath & Co. Die Journalisten, Freytag (Gregor)Ginn & Co. Der Schwiegersohn, Baumbach. D. C. Heath & Co. Die Schonsten Deutschen Lieder, Wenckebach. Henry Holt & Co. Dichtung und Wahrheit, Goethe (Bushheim). D. C. Heath & Co. Eingeschneit, Frommel. D. C. Heath & Co. Essentials of German, Vos. Henry Holt & Co. German Reader, Brandt. Allyn & Bacon German Grammar, Wesselhoeft. D. C. Heath & Co. German Composition (New), Pope. Henry Holt & Co. German Composition, Harris. D. C. Heath & Co. German Dictionary, Heath. D. C. Heath & Co. German Dictionary, Heath. D. C. Heath & Co. German and French Poems, Selected. Henry Holt & Co. Germelshausen, Friedrich Gerstacher, Ed. Carl Osthaus,
German Selections for Sight Translation, Georgina F. Monde, D. C. Heath & Co.
Geissbub von Engelberg, Lohnmeyer
Hoher als die Kirche, Hilheim, Ed. S. W. Clarry,
Immensee, Storm, Ed. Bernhardt

L'Arrabbiata, Paul Heyse, Ed. William Bernhardt,	
	. C. Heath & Co.
Leberecht Huhnchen, Seidel	C Heath & Co
marchen und Erzanlungen, H. A. GuerberD	. C. Heath & Co
Minna von Barnhelm, Lessing, Ed. PrimerD.	.C. Heath & Co.
Practical German Grammar, Thomas	enry Holt & Co.
Robinson, der Jungere, Campe	C. Heath & Co.
Syllabus, Bierwirth	eury Holt & Co
Wilhelm Tell, Schiller (Carruth)	millan Company
Wilhelm Tell, Schiller (Deering)D.	C. Heath & Co.
French.	
Athalie, RacineD.	C. Heath & Co.
Beginner's French, FrancoisAmerican	Book Company
Causeries en France, PattouD.	C. Heath & Co.
Complete French, Chardenal	.Allyn & Bacon
Contes et Nouvelles, LazarreD. Contes et Légendes, GuerberAmerican	C. Heath & Co.
Contes et Legendes, GuerberAmerican	Book Company
Colomba, Merimee	.C. Heath & Co
Contemporary French Authors, Mellé	Ginn & Co.
Conversational Reader, Bierman and Frank	.Allyn & Bacon
Dix Contes Modernes	Ginn & Co.
Elements of French, Aldrich and Foster	
Exercises in French Syntax and Composition, Bouvet	· •
Exercises in French Composition, Koren	C. Heath & Co.
Exercises in French Composition, Koren	enry Holt & Co.
Fleurs de France, Fontaine	C. Heath & Co.
French Composition, GrandgentD.	
French Dictionary, HeathD.	C. Heath & Co.
French Newspaper Reader, edited by Felix Weill,	D 4 0
French Reader, SuperD.	Book Company
French Reader, Super	C. Heath & Co.
French Grammar, Frasier and Squair	D. C. Heath Co.
French Reader, Aldrich and Foster	Ginn & Co.
First Scientific Reader, Bowen	C. Heath & Co.
Guy de Maupassant, Selections from	Ginn & Co.
Histoire de la Littérature Française, DuvalD.	C. Heath & Co.
Introductory French Prose Composition, François,	D. 1. C
L'Abbé Constantin, HalevyD.	Book Company
L'Abbe Constantin, Halevy	C. rieatii & Co.
L'Avare, Molière	enry noit & Co.
L'Abbé Daniel, Theuriet	Pack Company
L'Enfant de la Lune, MairetAmerican	C Heath & Co
L'Evasion du Duc de Beaufort, DumasD.	C. Heath & Co.
La Bataille des Dames, Scribe et LegouvéD.	C. Heath & Co.
La Belle Nivernaise, DaudetD.	C. Heath & Co.
La Chute, HugoD. La Cigale Chez les Fourmis, Legouvé and Labiche,	C. Heatin & Co.
	C. Heath & Co.
Le Français et la Patrie, TalbotB. H	
La Mare au Diable, SandD.	C Heath & Co.
La Mère de la Marquise, AboutJo	enkins Company
La Mère Michel et Son Chat, Bedolliére	Ginn & Co
La Petite Fadette, Sand	C Heath & Co.
La Poudre aux Yeux, Labiche et Martin	enry Holt & Co.
La Tache du Petit Pierre, MoiretAmerican	Book Company
La Tulipe Noire. Dumas	C Heath & Co
Le Bourgeois Gentilhomme, Moliére	Hachette
Le Cid, CorneilleD.	C Heath & Co
Le Livre de Mon Ami, Anatole FranceHo	enry Holt & Co.
Lectures Historiques, Emma MoffettD.	C Heath & Co.
Lectures Historiques, Emina Monett	c. Heath & co.

Le Malade Imaginaire, Moliére	
Le Main Malheureux, Anonymous	D C Heath & Co
Le Main Maineureux, Anonymous	D. C. Heath & Co.
Le Petit Chose, Daudet	D. C. Heath & Co.
Le Roi des Montagnes, About	D. C. Heath & Co.
Le Siège de Berlin et Autres Contes, Daudet	Lenkins Company
Le Cière de Denie Conces, Dandetti.	D C Handle 9 Ca
Le Siège de Paris, Sarcey	D. C. Heath & Co.
Le Tour du Monde en Quatre-Vingts Jours, V	erne,
~	D'C Heath & Co
Le Violon de Faience, Champfleury	D. C. Heath & Co.
Le violon de Faience, Champheury	D. C. Heath & Co.
Le Voyage de M. Perrichon, Labiche et Martin	1,
	D. C. Heath & Co.
Les Contes de Fées, Joynes	D. C. Heath & Co.
Les Contes de Fees, Joynes	D. C. Heatii & Co.
Les Misérables, Hugo	
Les Oberlé, Rene Bazin	Henry Holt & Co.
Les Précieuses Ridicules, Molière	D. C. Heath & Co.
Les Trecleuses Ridicules, Monere	D. C. Heath & Co.
Les Premiéres Lectures, Lazare	Ginn & Co.
Les Trois Mousquetaires, Dumas	Ginn & Co.
Madame Thérèse, Erckmann-Chatrian	
Madame Increse, Elektratin Chatrania of Come	
Madame de Sévigné, Selected Letters of, Syms,	
Amer	ican Book Company
Mademoiselle de la Seiglière, Sandeau	Henry Holt & Co.
Monte Cristo, Dumas	D. C. Heath & Co.
Monte Cristo, Dunas	D. C. Heatii & Co.
Michel Strogoff, Verne	Henry Holt & Co.
Modern French Lyrics, Bowen	D. C. Heath & Co.
Napoléon, Fortier	Ginn & Co
D 1 17	Taralia Caras
Peppino, Ventura	
Quatre-Vingt Treize, Hugo	Ginn & Co.
Readings from French History, Super	Allyn & Bacon
Sans Famille, Malot	D C Heath & Co
Sans Pannie, Maiot	D. C. Heath & Co.
Simplicité, TuckermanAmer	ncan Book Company
Selections for Sight Translation, Bruce	D. C. Heath & Co.
Selections for Sight Translation, Bruce	D. C. Heath & Co. Henry Holt & Co.
Selections for Sight Translation, Bruce Simple French, François and Gibraud	D. C. Heath & Co. Henry Holt & Co.
Simple French, François and Gibraud	D. C. Heath & Co. Henry Holt & Co.
Simple French, François and Gibraud Latin.	D. C. Heath & Co. Henry Holt & Co.
Simple French, François and Gibraud Latin. Caesar's Gallic Wars, Harkness and Forbes,	Henry Holt & Co.
Simple French, François and Gibraud Latin. Caesar's Gallic Wars, Harkness and Forbes,	Henry Holt & Co.
Simple French, François and Gibraud Latin. Caesar's Gallic Wars, Harkness and Forbes, Amer	Henry Holt & Co.
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First Greek Book, WhiteGinn & Co.
Greek Grammar, Goodwin
Greek Reader, Goodwin
Greek Composition, WoodruffSibley & Co
Hellenica, Xenophon, ManattGinn & Co.
Iliad. Seymour. Books I-III. I-VI
Iliad, Benner, Selections
Lexicon, Siddell and ScottAmerican Book Company
Spanish.
All Spanish Method, First and Second Books, Guillermo Hall,
World Book Company
A Spanish Grammar, Hills and FordD. C. Heath & Co.
A Spanish Reader, Bransby
Introduccion a la Lengua Castellana, Des Garennes,
D. C. Heath & Co.
Modelo de Cartas Comerciales, L. OliverF. Granado Y. C'a
Spanish Commercial Reader, HarrisonGinn & Co.
Spanish Composition, Crawford
Spanish Grammar, complete, Olmsted and Gordon,
Henry Holt & Co.
Spanish Prose Composition, UmphreyAmerican Book Company
Spanish Tales for Beginners, Hills
Gil Blas de Santillano, Geddes and JosselynD. C. Heath & Co.
Marianela, Geddes and Josselyn
A Trip to South America, WaxmanD. C. Heath & Co.
Spanish Correspondence, Harrison
Miscellaneous.
Bible
Classical Atlas
Collegiate Dictionary
Euterpean, TuftsSilver, Burdett & Co.
Glee and Chorus Book
International Dictionary, Webster
Laurel Song Book, Tomlins
Mechanical Drawing, Tracy
Standard Dictionary
School Song Book, Students' Edition
Textiles, Dooley
Worcester's Dictionary (small)
Webster's Dictionary (small)
AUTHORIZED BOOKS FOR GRAMMAR AND PRIMARY SCHOOLS.
Arithmetic.
First Journeys in Numberland, Harris, Waldo. Scott, Foresman & Co.
First Lessons in NumbersB. H. Sanborn & Co.
First Lessons in NumbersB. H. Sanborn & Co. Progressive Mental Arithmetic, Gifford, Books I, II,
Thompson, Brown Company
Walton and Holmes' Arithmetic, Books I-IV,
American Book Company
Commercial.
Single Entry Bookkeeping, MeserveyThompson, Brown Company
Dictionaries.
ClarendonAmerican Book Company
Concise StandardFunk & Wagnalls
New International, WebsterG. C. Merriam Company
Standard

Students' Dictionary Webster's New School DictionaryAmerican Book Company Worcester's School Dictionary
Geographies.
Elementary Commercial, Adams
Histories.
American Explorers, Gordy
History of the United States, Eggleston. American Book Company History of the United States, Fiske Houghton Mifflin Company History of the United States, ThomasD. C. Heath & Co. History of the United States, Gordy Charles Scribner's Sons Introductory American History, Bourne and Benton. D. C. Heath & Co.
Leading Facts of United States History, MontgomeryGinn & Co. Our Country's Story, TappanHoughton Mifflin Company School History of the United States, McMasters,
School History of the United States, Mace,
School History of the United States, Mace, Rand McNally Company
Language.
Aldine First Language Book, Bryce and SpauldingNewson & Co. English Spoken and Written, Emerson and Bender, Macmillan Company
New Webster-Cooley Course in English, Books I, II, Houghton Mifflin Company
Music.
Cecilian Music Reader, Books I-IV, TuftsSilver, Burdett & Co. Congdon Music Primer
Normal First Music Reader, Tufts and HoltSilver, Burdett & Co. Normal Second Music Reader, Tufts and Holt, Part I. Silver, Burdett & Co.
Normal Second Music Reader, Tufts and Holt, Part II, Silver, Burdett & Co.

Normal Second Music Reader, Tufts and Holt, Parts I and II,
Silver, Burdett & Co. Silver, Burdett & Co. Silver, Burdett & Co.
Spellers.
Champion Spelling Book, Books I, II, Hicks, American Book Company
Graded School Spellers Series, Books I-VII, Spaulding and Miller
Harrington Speller, Parts I, II American Book Company Harrington Speller, Complete
Physiologies.
Child's Book of Health, Blaisdell
The Body at Work, Gulick
Reading and Literature.
Aldine Primer, Spaulding and Bryce
Aldine That's Why Stories, Spaulding and BryceNewson & Co. Art Literature Readers, Primer, Books I-V, Grover, Atkinson, Mentzer & Grover
Baldwin, Bender Readers, Books I-VIII. American Book Company Busy Brownies at Work. Newson & Co. Cyr's Primer. Ginn & Co. Cyr's Reader by Grades, Books I-VIII. Ginn & Co. Cyr's Dramatic Reader. Ginn & Co. Edson-Laing Readers, Books I-V. B. H. Sanborn & Co. Graded Literature, Books I-VIII, Judson and Bender, C. E. Merrill & Co.
Literary Readers, Books I-VI, Young and FieldGinn & Co. Progressive Road to Reading, Plan of Work and Books I-IV, Burchill, Ettinger and ShimerSilver, Burdett & Co. Reading-Literature Series, Free and Treadwell,
Sprague Classic Readers, Books I-V,
Sprague Classic Readers, Book IV, Part I, II,
Sprague Classic Readers, Book V, Part I, II, Educational Publishing Company Educational Publishing Company
The Beginners' Primer, BryceHoughton Mifflin Company

Story Hour Readers, Books I-III, Cook, Christie, American Book Company Wide Awake Series, Murray.....Little, Brown & Co. Supplementary Reading. A Dramatic Reader, Books I, III, IV, Stevenson, Houghton Mifflin Company Action, Imitation and Fun Series, Pratt and Chadwick, Educational Publishing Company Bow-Wow-Mew-Mew Hop o' My Thumb Jack and the Beanstalk Jack the Giant Killer Little Red Riding Hood Puss in Boots The Little Peoples' Sound Primer The Little Red Hen The Three Pigs
The Three Bears
The Three Little Kittens Aesop's Fables, Stickney......Ginn & Co. North America, South America Europe Asia Africa Australia The Irish Twins The Japanese Twins The Mexican Twins

Geographical Readers, Books I-IV, Carroll....Silver, Burdett & Co.

Geographical Readers, I. O. WinslowD. C. Heath & Co.
Europe Distant Countries
The Earth and Its People
Our American Neighbors The United States
Gods and Heroes, FrancillonGinn & Co.
Heroic Bailads, Montgomery
History Reader for Elementary Schools, Nilson. Macmillan Company History Stories of Other Lands, Books I-VIRow, Peterson & Co.
In Fable Land, Serl and EvansSilver, Burdett & Co.
In the Animal World, Emilie PoulssonMilton Bradley Company
Little Betty Marigold
Little Blue Bird
Little Daffydowndilly, HawthorneHoughton Mifflin Company Little People Everywhere, Books I-IVLittle, Brown & Co.
Little Plays for Little People, Noves and Ray
Masterpieces of American LiteratureHoughton Mifflin Company
Men of Old GreeceLittle, Brown & Co. Merry Animal Tales, BighamLittle, Brown & Co.
Nature Readers, Sharp
The Fall of the Year Winter
The Spring of the Year
Summer Noble Deeds of Our Fathers, Watson,
Lothrop, Lee & Shepard Company
Old Mother West WindLittle, Brown & Co.
Peter and Polly, Books I-IVAmerican Book Company Reynard, the Fox, SmytheAmerican Book Company
Riverside Readers, Primer and Books I-IV, Van Sickle and
Seegmiller
Stories of American Life and Adventure, Eggleston,
American Book Company Stories of New England History, Hawthorne,
Houghton Mifflin Company
Stories of the English, GuerberAmerican Book Company
Sunbonnet Babies Primer, GroverRand McNally Company Sunbonnet Babies in HollandLittle, Brown & Co.
Sunshine Primer, Noyes and GuildGinn & Co.
The Playtime Primer
The Story of the Romans
The World and Its People Series, DuntonSilver, Burdett & Co.
Book I., First Lessons. Book II., Glimpses of the World
Book III., Our Own Country
Book IV., Our American Neighbors Book V., Modern Europe
Book VI., Life in Asia
Book VII., Views in Africa
Book VIII., Australia and the Islands of the Sea Book IX., Hawaii and Its People Book X., South American Republics
Book X., South American Republics
Book XI., Story of the Philippines Wonder Book, Hawthorne
Work-a-Day Doings, Serl and EvansSilver, Burdett & Co.

AUTHORIZED BOOKS FOR EVENING SCHOOLS.

Civics for Foreigners, Plass
First Book for Non-English Speaking People, Cunningham,
D. C. Heath & Co.
Second Book for Non-English Speaking People, Harrington
and Moore
Reading and Language Lessons for Evening Schools, Chan-
cellorAmerican Book Company
Spanish Without a Master, Vol. I., M. D. Berlitz
Standard Short Course for Evening Schools, Chancellor,
American Book Company
The New American Citizen, MintzMacmillan Company

MISCELLANEOUS.

Bible
Progressive Steps in Writing, Farley, Whitehouse and
GunnisonSilver, Burdett & Co.
School and Home Gardens, MeierGinn & Co.

PUBLIC LIBRARY.

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Drew B. Hall	•	•	•	•	•	•	Secretary	and Librarian

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Buildings and Grounds—The President and the Vice-President.

REPORT OF THE TRUSTEES.

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

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

Very respectfully,

The Board of Trustees, by
Thos. M. Durell,
President.

Adopted at the Annual Meeting March 6, 1917.

THE PUBLIC LIBRARY.

Central Building, Highland Avenue.

Week days, holidays excepted, 9 a. m. to 9 p. m. Sundays, reading and reference only, 3 to 6 p. m. Children's room, school days, 3 to 8 p. m.; other week days, 9 a. m. to 8 p. m.

Branches.

Week days only, holidays excepted. WEST SOMERVILLE, 40 College Avenue-1 to 9 p. m. Saturday, 9 a. m. 10 1 p. m., also.

EAST SOMERVILLE, 153 Perkins Street, 2 to 9 p. m.

UNION SQUARE, Washington Street and Bonner 2 to 9 p. m. SOUTH AGENCY, 518 Somerville Avenue.

THE STAFF

GRADED—PROFESSIONAL.

Drew B. Hall, Librarian. (May 1, 1917.) LUCY B. CRAIN, Assistant Librarian, in charge of circulation, of staff personnel, and of "Central," and supervising children's work. (February 1, 1917.) NELLIE M. WHIPPLE, Assistant Librarian, in charge of West Somer-

ville Branch.

Edith B. Hayes, Chief Cataloguer. (On leave.)

Alice G. Higgins, Special Assistant in the Children's Room. (March

Margaret M. Kneil, High School Librarian.

Helen Luitwieler, Acting Cataloguer.

Esther M. Mayhew, Reference Librarian.
Lucinda F. Spofford, Branch Librarian, Union Square.
Carrie L. Williams, Branch Librarian, East Somerville.
Mabel Williams, High School Librarian. (March 31, 1916.)

Mabel E. Bunker, Assistant Branch Librarian, West Somerville. Hazel M. Graham, Librarian's Assistant and Secretary. (March 3, 1917.) Anna L. Stone, Cataloguing. Mary S. Woodman, Classification.

Senior Assistants.

Susan W. Curtis, West Somerville. Juliana Donovan, Union Square. Nectar M. Eksergian, West Somerville. Ruth S. Fales, East Somerville. Rose Greenberg, Intermediate. Myrtle Nicholson, Circulation. Ethel M. Nute, Union Square. Esther W. Shaw, Registration and Binding. (January 27, 1917.)
Helen P. Smith, Cataloguing.
Anna B. Truesdale, Children, West Somerville.
Elsie K. Wells, West Somerville.
Edna C. Woodbury, Children. (September 9, 1916.)

Junior Assistants.

Bertha F. Kerner (July 22, 1916) M. Hope Carpenter Frances E. Haggens

UNGRADED—CLERICAL.

Typewriters.

Marion L. Fall

Pages.

James D. Blackall Frank Dion Mae L. Gormley Lillian McGowan Bernard L. Maxwell

High School Attendants and Pages on Part Time.

Gladys M. Allingham Bessie Berman Helen Boyd Olive B. Briggs Elizabeth Carlin L. Eugenia Carter Hazel Cloyes Lawrence W. Codding Doris B. Cresto Roger Estey
Gertrude French
Donald P. Geddes
James G. Geddes
Lucy M. Lannigan
Ronald A. Moore
Evelyn G. Smith
Leone Warren
Anna M. Wright

(Figures after the names are dates of leaving the service.)

ANNUAL REPORT OF THE LIBRARIAN.

To the Trustees of the Public Library of the City of Somerville:—

Gentlemen,—The forty-fourth annual report of the Librarian is herewith submitted, being that for the year 1916.

Buildings.

Early in the year the move to provide a better building in East Somerville was brought to a successful ending when the Carnegie Corporation offered the city, upon the usual terms, \$18,000 for that purpose. This sum was determined by facts concerning the city, shown in the 1915 State Census. During the summer a lot upon Broadway was purchased; and during the fall plans were matured and estimates taken which assure the erection of a building 34x74 feet, with all modern library conveniences and equipment and of first-class fireproof construction.

During the year attention also has been successfully given to the Union Square building. The six rooms of this former schoolhouse are now all assigned to the use of the public library; and the whole lower floor will be remodeled for the public use of the branch. This will treble the present floor area and introduce suitable work and staff room accommodations.

Circulation.

The lengthening of the loan period to one month and the better fitting of each book to the reader's needs have reduced the number of or prevented entirely renewals and early returns; these facts, together with the tremendous revival of business and manufacturing, have resulted in an eight per cent. decrease in the count of circulation. This decrease has been particularly marked in the sections of the city occupied by citizens engaged in the industries. This condition is paralleled in all towns and cities having like circumstances and is, if anything, an indication of healthy conditions. The bottom has been reached, however, and the tendency is now toward an increase; as the figures for various places and months are now exceeding those of the year previous.

The liberalization begun in 1911 and completed last year makes the lending rules of this library among the most liberal and wise in the country. They are continually commented upon with favor by our readers and comparisons are often drawn to our advantage. Other communities have watched this process and many of them have taken similar action based

upon this practice and experience.

Three thousand six hundred eighty-seven persons registered for borrowers' cards for the first time; this brings the number of names entered on the new register (beginning October, 1912) to 27,627. Of these, 19,022 registered before

December 31, 1914, have expired under the two-year limitation, but of them 10,749 have been renewed; this makes valid, on December 31, 1916, 14,436 borrowers' cards.

In General.

The several departments have continued their work, building upon the foundations laid in the last few years, developing and perfecting it along the previous lines. have been no radical changes. Many desirable developments and extensions of the service have not been possible because of changes in the staff and resulting shortage of time and readjustment. Miss Edith B. Haves, cataloguer, began, the first of October, a year's leave of absence for rest and study after continuous and admirable service for seventeen years; the assistant cataloguer, Miss Helen Luitwieler, is serving at the head of the department with ability. Miss Mabel Williams accepted a position attractive in promise and for experience in the New York Public Library. Miss Edna C. Woodbury resigned the first of September for the purpose of adding, to her college experience and four years in this library, two years of study in the library schools of Simmons College and the New York Public Library, with the intention of specializing in children's work.

These and several minor withdrawals have been partly offset by the accession, in May, of Miss Margaret M. Kneil to become High School librarian, and in August, of Miss Louise Hoxie, both graduates of Simmons College, and with some experience; and, the very last of December, by four apprentices from our own training class, the Misses Hastings and Miller of Wellesley and Mount Holyoke Colleges and the

Misses Carter and Kelly of the local high schools.

My statements in previous reports, both formal and informal, concerning the justness and desirability of increasing various salaries are receiving added support from the present conditions of business and general livelihood. Both justice and necessity, in my opinion, call for action on the recommendations which I have so carefully and heartily made. The organization of this library is well developed, well recognized and highly appreciated; the unit cost of issuing books and performing the various elements of library service is less than for service of similar quality in any other library whose figures, reckoned upon the same basis, have come to hand; the workers who are responsible for this situation surely merit recognition and more adequate compensation.

Very respectfully,

DREW B. HALL,

December 31, 1916,

Librarian.

THE PUBLIC LIBRARY OF THE CITY OF SOMERVILLE.

APPENDIX A.

Statistical Report for 1916.

77 1 ' 1'1 /T 1	Central.	West.	East.	Union.	Total.
Volumes in library (January 1, 1916)	93,545 6,807	10,425 1,334	2,124 560	2,755 698	108,849 9,399
Volumes transferred to	460	6	33	61	560
Volumes transferred from .	100	430	0	30	560
Volumes withdrawn	3,115	465	297	649	4,526
Volumes gained	4,052	445	296	80	4,873
Valumas in library (Dagam					
Volumes in library (December 31, 1916)	97,597	10,870	2,420	2 835	113,722
<i>,</i> , , , , , , , , , , , , , , , , , ,	· ·		· ·	2,000	110,122
Adjustments o	f Kecor	ds, 1906-	LOSSE	•0	
"Unaccounted" as shown by 1912-1916 inventory finals of September 12, 1916, by E. B. Hayes and November 27,			LOSE	<i>.</i>	
1916, by H. Luitwieler "Withdrawn" (legitimate losses)	674	290	112	97	1,173
not fully recorded Transferred to Branches, January to February, 1912, but	2,041	169	••••	3	2,213
not charged to Branch accounts	1,514	• • • •			1,514
	4,229	459	112	100	4,900
Deposits of above to Branch			GAINS.		
accounts			1,022	492	1,514
Net losses	4,229	459			4,683
Net gains			910	392	1,302
Volumes in library (December					
31, 1916)	97.597	10,870	2,420	2,835	
Less net losses	4,229	459			4,688
					109,034
Plus net gains			910	392	1,302
Thus net games					
Volumes in library (January	00.	10.111	0.053	6.001	110.000
1, 1917)	93,368	10,411	3,330	3,227	110,336
	Central.	West.		Union.	
Volumes circulated, adult	130,795	86,130	34,092		281,789
Volumes circulated, juvenile.	39,821	30,316	17,098	21,441	108,676
Total circulation (A. L. A. rules)	170 616	116,446	51,190	52,213	390,465
Estimated circulation, "old	110,010	110,110	01,100	02,210	000,100
basis"					94,927
Total circulation, "old					
basis"	1 ×=1	1 1 40	41.4	~~ 4	485,392
New borrowers registered .	1,571	1,148	414	554	3,687
Valid borrowers' cards, i. e. registered or renewed within					
two years					14,436
- Cho yourd					

APPENDIX B.

CLASSIFIED EXPENDITURES-MAINTENANCE.

JANUARY 1 TO DECEMBER 31, 1916.

City Appropriations-Trustees.

Total. \$23,938 87	\$8,426 42 1,231 83 91 19 1,751 82		\$559 16 326 90 224 57	399 12 629 72		\$2,558 46	\$14,059 77	37,998 64	\$35,000 00 37,998 64	\$1 36
Union. \$2,045 83	\$655 85 128 50 196 51			101 69		\$172 70	\$1,153 56	3,199 39	\$3,200 00 3,199 39	\$ 61
East. \$2,022 51	\$635 90 112 81 - 179 26	1	\$19 45 1 75 30 19	93 31	00 c	\$149 70	\$1,076 77	3,099 28	\$3,100 00 3,099 28	\$ 72
West. \$4,469 96	\$1,361 91 308 65 10 96 345 02				7 00	\$203 50	\$2,230 04	8,700 00	\$6,700 00 60,6700 00	00 \$
Central. \$15,400 57	\$5,773 66 681 92 80 23 1,031 63	1 ~		102 45 629 72	97 34 42 38 256 12	\$2,032.56	\$9,599 40	24,999 97	\$25,000 00 24,999 97	\$ 03
•		•				•	•	•	• •	•
•		•		• •		•	•	•		
•	• • • •	•	• • •		• • •	•	•	. 6		•
•	• • • •	•	• • •		• • •	•	•	•		
•			• • •			•	•	•	• •	•
•		•			٠	•	•	٠	٠.	
No. 1, services (power)	Books	No. 2 (material) .	Stationery and postage Printing and advertising Telephone	Express	General supplies Agency	No. 3 (tools)	Bill roll No. 2 and 3 .	No. 1, 2 and 3	Appropriation Expended	Balance reverting .

City Appropriation-Building Commissioner.

Total. \$7,271 09	\$45,269 73		Bal. to 1917	\$119 74	2,202 77		550 60	103 53	6 49	15 96	\$3,148 38
Union. \$855 15	\$4,054 54		Charges.	•	\$200 00		125 52			•	\$1,022 87
East. \$687 40	\$3,786 68		Cr.	\$119 74	2,702 77	252 64	676 12	322 83	81 19	15 96	\$4,171 35
West. \$1,745 14	\$8,445 14	t Accounts.	Receipts.	\$43 86	•	149 14	494 77	175 16	43 90	4 04	\$910.87
Central. \$3,983 40	\$28,983 37	Endowment Funds-Current Accounts	Bal. from 1916.	\$75 88	2,702 77	103 50	181 35		37 39		\$3,260 48
	•	nt F		•	•	•	•	•	•		•
	•	wme		•	•	•	•	•	•		•
o	•	Endo		•	•	•	•	•	•		
	•			•	•	•	•	•	•	•	•
	•			•	•	•	•	•	•		•
	•			•	ď	•	•	•	•	•	•
	٠			•	•	•					•
	Total from city			S. Newton Cutler	Hunt Art, principal	Hunt Art, interest	Hunt Book	Pitman Art	Pitman Poetry .	Wilder Children's	Totals

APPENDIX C.

American Library Association Form for Uniform Statistics.

Annual report for year ended December 31, 1916. Name of Library, The Public Library. City or town, Somerville; State, Massachusetts. Population served (State Census in 1915) Terms for use—Free for lending. Free for reference. Total number of agencies:— Consisting of—Central Library 3 Branches (separate buildings) 1 Station 40 Other agencies; 23 school buildings, and 17 institutions, etc. Number of days open during year (Central library) 304	86,854
for lending, 356 for reading. Hours open each week for lending (Central library) Hours open each week for reading (Central library) Number on staff (library service adding part "timere"	72 75
Number on staff (library service, adding part "timers" to make whole units) Number of volumes at beginning of year Number of volumes added during year by purchase Number of volumes added by gift or exchange Number of volumes added during year by binding material not otherwise counted Number of volumes withdrawn during year	37 108,849 9,106 157 136 4,526
Total number at end of year	113,722
Number of volumes of fiction lent Adult. Juvenile.	Total.
for home use	268,096
home use	390,465
Number of borrowers registered during year Total number of valid cards December 31 (used within	3,687
two years)	14,436
Registration period two years. Number of newspapers and periodicals currently received, 205 titles, 561 copies.	
Receipts From	
Regular:— Local taxation Endowment funds: Income balance from 1916 Endowment funds: Income of 1916 *Fines *Other sources: Dog licenses	\$41,015 72 3,260 38 910 87 1,422 61 2,831 40
Extraordinary:-	\$49,440 98
From taxes for site of East Somerville Branch	4,500 00
	\$53,940 98

^{*}These items are covered into the treasury of the city, which figures its appropriation to include them.

Payments For

i dymento i or	
Maintenance:—	
Books	\$8,737 18
Picture collection from funds	247 30
Periodicals	1,231 88
Binding	1,751 82
Salaries, library service	23,938 87
Library service "tools"	2,558 46
Maintenance of buildings by Commissioner	7,271 09
Total maintenance	\$45,736 60
Extraordinary:—	
Memorial bronze tablet: Sam Walter Foss: Hunt	
Art Fund	\$556 00
Site for East Somerville Branch building	4,500 00
Balances on Endowment Funds Income to 1917	3,148 38
	\$53,940 98
4 99 99 97 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	

APPENDIX D.

Information for Readers and Borrowers.

HOME USE. Books and periodicals may be taken from the library only when charged on a borrower's card, which must also be presented when the books are returned, so that the charge may be

BORROWER'S CARD. Any resident upon registering by signing the required application and agreement is entitled to a borrower's card. The parents of minors (juveniles) under eighteen must signify their consent in writing by endorsing the application.

Immediate notice in writing of a change of address must be given, and of the loss of a card. The registered owner of a card is in all cases responsible for books taken and charges incurred on

his card. Cards should not be loaned.

"Special" and "Teachers" cards are not issued and all borrowers enjoy the service ordinarily rendered only to "Specials."

ISSUE OF BOOKS. Each adult may have on his card at one time:

ONE SEVEN-DAY BOOK, due within one week;

ONE UNBOUND PERIODICAL, due within one week; ANY REASONABLE NUMBER OF OTHER BOOKS, adult books due within one month, juvenile books due within two weeks.

Each juvenile (minor) borrower may have on his card at one time:

ONE JUVENILE FICTION, due within two weeks;
ONE JUVENILE NON-FICTION, due within two weeks;
ONE UNBOUND PERIODICAL, due within one week;
ONE SEVEN-DAY BOOK (adult) due within one week;
ANY REASONABLE NUMBER OF OTHER BOOKS (adult) due

within one month.

A yellow dating slip in the back of a book indicates that it is a seven-day book; a white dating slip indicates that the book is due within two weeks; a pink dating slip indicates that the book is due within one month.

The borrower agrees to return any book immediately after the fourteenth day on recall notice from the library that it is needed by

another borrower.

FINES. A fine of two cents a day, including Sundays and holidays, is charged for each volume or number over-detained.

RESERVES. Other than seven-day books and unbound periodicals may be reserved by the filling of the required form.

RESPONSIBILITY cannot be assumed by the library for errors in executing telephone or verbal messages from borrowers, or for their failure to receive notices.

BOARD OF HEALTH.

1916.

Jackson Caldwell, Chairman. Ralph F. Hodgdon, M. D. Robert M. Lavender.

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD.

Agent.

CALEB A. PAGE, Resigned October 21, 1916.

GEORGE I. CANFIELD, Appointed October 23, 1916.

Medical Inspector.

FRANK L. MORSE, M. D.

Inspector of Animals and Provisions.

CHARLES M. BERRY, V. S.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN, Ph. G.

Milk Collector.

GEORGE E. PLIMPTON.

Plumbing Inspector.

DUNCAN C. GREENE.

REPORT OF THE BOARD OF HEALTH.

Office of the Board of Health, City Hall Annex, January 1, 1917.

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

Gentlemen,—We respectfully submit the following as the thirty-ninth 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, 1916.

Nuisances.

Till to the till t	•	•	•	•	•	10
Blacksmith shops whitewashed	•	•	•	•	•	13
Cellar, water in	•	•	•	•	•	22
Cellars filthy	•	•	•	•		23
Cesspools removed			•		•	2
Defective garbage houses .						10
Dirty milk utensils						9
Factories unsanitary		•	•	•	•	10
	•	•	•	•	•	2
Fish box unsanitary	•	•	•	•	•	$\frac{2}{2}$
Fish, foul odors from	•	•	•	•	•	
Garbage thrown in yards .	•	•	•	•	•	7
Hens being kept without permit	•	•	•	•	•	16
Hens running at large		•	•		•	8
Manure heaps, foul odors from			•			15
Milk rooms, screens not on.						5
Plumbing unsanitary						26
Privy vaults, foul odors from		•	•	•	Ť	4
	•	•	•	•	•	11
Roosters crowing	•	•	•	•	•	44
Rubbish on vacant land.	•	•	•	•	•	
Stables offensive	•	•	•	•	•	15
Stables whitewashed		•	•	•	•	125
Stables ventilated		•	•	•	•	5
Stores (bakeries) whitewashed						11
Stores and utensils dirty.						26
Tenements unsanitary						19
Unlicensed animals		•	•	Ť		16
Unclassified	•	•	•	•	•	48
	•	•	•	•	•	26
Water-closets, foul odors from		•	•	•	•	
	•	•	•	•	•	6
Water pipes burst	•		•	•	•	3
Water turned off, house not te	nanta	able	•	•	•	2
Yards filthy						157
,					_	
Total						690
		·				6
Complaints referred from 1915	•	•	•	•	•	•
Complaints received during 1916	•	•	•	•	•	684
					_	
						690
Complaints referred to 1917.						63
00222p 200-1102						
Nuisances abated 1916						627
Second, third and fourth notices	cent	011	กเนื่อวา	nces	•	50
Second, third and round notices	3011	OII	nuisai	1003	•	
Tital matines sent						734
Total notices sent	•	•	1	•	•	104
•						

In addition to the above, 244 dead animals have been removed from the public streets, and many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

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

Permits.

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

Cows.—Eight applications were received for permits to

keep ten cows, which were granted.

Swine.—Twelve applications were received for permits to keep twenty-six swine, eleven of which were granted to keep twenty-four swine. The fee is one dollar for each swine.

Goats.—Eleven applications were received for permits to keep fifteen goats, ten of which were granted to keep four-

teen goats. The fee is one dollar for each goat.

Hens.—Ninety-three applications for permits to keep 1,618 hens were received. Seventy-two permits to keep 1,260 hens were granted, and twenty-one permits were refused.

Grease.—Fifteen applications were received for permits for sixteen 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.—Fourteen persons have been licensed to practice massage and manicure. The fee is one

dollar for each license.

Pedlers.

Two hundred and seventy-four certificates of registration were issued to hawkers and pedlers during the year under the provisions of ordinance number fifty-two. Each pedler is required to present a statement from the sealer of weights and measures, showing that his measures and scales have been properly sealed, before a certificate is issued to him. Pedlers are also required to present their vehicles at the police station the first Monday of each month for inspection by the agent of the board, that he may see if they

are kept in a clean condition, and are properly marked with the owner's name and number. A fee of one dollar is charged for each registration.

Stables.

Under the provisions of sections 69 and 70 of chapter 102 of the revised laws of 1902 the following regulations were passed:—

In Board of Health, Somerville, April 17, 1916.

Voted: On and after this date all licenses issued by this Board for the erection, occupancy and use of any building as a stable shall be subject to the following conditions for a violation of any of which the license may be revoked by the said Board:—

All requirements of law and of the ordinances of the City and of the rules and regulations of said Board shall be complied with at all times.

The stable shall be at all times open for inspection by

said Board and its agents.

The manure pit to be constructed of brick or stone laid in cement and maintained in good condition at all times.

The stable to be ventilated through every floor to the

roof and drained to the sewer.

Between the floors (if constructed of wood) of stables erected under a license issued by this Board there shall be four thicknesses of tarred paper, the same to be saturated with hot tar. Gutters must be placed behind each stall and drained to the sewer and maintained in good condition at all times.

A true copy. Attest:

LAURENCE S. HOWARD, Clerk.

The agents of the Board of Health were instructed to inspect all the stables in the city, to ascertain the name and address of the occupant, and if the said occupant has no license to occupy to require that an application be filed immediately. The agents were also instructed to ascertain if the stables inspected complied with the regulations of the board and report on blanks provided. The greater part of the city has been inspected as shown by the following report:—

Stable buildings inspected	•	•	•	•	590
Not occupied at time of inspection	•	•	•	•	190
Occupied at time of inspection .		•		•	400

Number of licenses already g	granted for	r occupai	ncy .	80
Number not licensed . Number occupied by same		cinca 1	· · ·	320
May 4, 1895, to whom li	censes we	re grante	ed .	87
Applications received for sta Additional applications rec				233 26
Total applications received				259
Licenses granted			. 132	
Licenses refused		•	. 6	400
				138
Applications pending .				121
Applications peliuring .		•		141

Board of Infants.

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

Deaths.

There were 1,081 deaths and seventy-two stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of seventy-eight.

88
00
59
41
19
38

DEATHS BY AGES.

		Ac	GES.					Total.	Male.	Female.
Under one .		•					•	132	7 3	59
One to two .								25	14	11
Two to three .		•						12	7	5
Three to four .								11	5	6
Four to five .		•						6	3	3
Five to ten		•						28	11	17
Ten to fifteen .		•						8	6	2
Fifteen to twent	V							17	6	11
Twenty to thirty	,							53	24	29
Thirty to forty								79	33	46
Forty to fifty								83	40	43
Fifty to sixty								137	72	65
Sixty to seventy								201	86	115
Seventy to eight			•					193	83	110
Eighty to ninety		•				·	·	87	28	59
Ninety and over		_		·	·	·		9		9
		•		•	•	•	•			0
Total		•		•	٠.			1,081	491	590

Mortality in Somerville in 1916.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. GENERAL DISEASES. (A. Epidemic Diseases.)													
Scarlet fever Diphtheria Typhoid fever Measles Cerebro-spinal meningitis Pertussis Anterior Poliomyelitis	3	3 1 3	1 4 1 	1	1 	1	1	3	1	1 2	1	2 1	2 21 1 2 4 6 9
(B. Other General Diseases.) Septicæmia Pernicious anæmia Cancer breast Cancer intestines Cancer intestines Cancer rectum Cancer rectum Cancer uterus Cancer other forms Diabetes Tuberculosis pulmonary Tuberculosis other forms Abscess Erysipelas Neuritis Purpura hemorrhagica Syphilis Rachitis La grippe Acidosis II. Diseases of the Nervous	1 4 1 1 1 4 4 1 2 1 1	3 3 6 2 13 3 1 1	1 1 7 3 2 7 3 	1 1 2 14 2 1	1 2 1 2 3 3 2 2 2	6 3 1	1 2 3 1 1 1 1 1 1	1 1 1 1 1 1 1 6 2 6 2 1		2 7 1	1 1 9 1	1 2 1 2 6 1 1 2	9 12 11 10 18 1 12 35 5 86 22 2 4 1 1 1 1 1 7
SYSTEM. Meningitis Apoplexy Paralysis Hemiplegia Eclampsia Locomotor ataxia Myelitis	5 2 1	6	11 1 			5		1	1 	4 2		10 1 2	68 9 3 3 3
III. DISEASES OF THE CIRCULATORY SYSTEM. Heart disease	14 1 5 1	10	14 4 3 	18 3 1 1	9 6 3 1	11 1	1 3 2 2	$egin{array}{c} 2 \\ 1 \\ 2 \end{array}$	4 4 5 2	5	9	3 3	107 24 36 3 2 14 1
IV. DISEASES OF THE RESPIRATORY SYSTEM. Pneumonia	40 4 1 1 5	23 2 1 1	13 3 2 	19	15	7 1 2 		6 1 1	5	6	12 1 1 1 	13 1 1	161 13 8 2 7 2

12.01

Mortality in Somerville in 1916.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISBASES OF THE DIGESTIVE										[<u>'</u>
System. Acute indigestion						1						1	
Colitis	1			1		1			1	1			6
Gastritis	1	··i	2		1		·i·	···i			1	$ \cdots_2 $	3 9
Diarrhœa · · · · · ·	ļ						• • • •	1	1				2
Gastric ulcer				1		1		5	7	4	1	4	25 25
Gall stones									1				1
Intestinal obstruction	j::::	2		$\frac{\cdots}{2}$		i		1		1	1	1	5 4
Intestinal toxemia					1				1				3
Cirrhosis liver	1		i					١	1	2	1	1	5
Ptomaine poisoning VI. DISEASES OF GENITO-URI-	1		_					1			• • • •	• • • •	1
NARY SYSTEM.							1	1	i				2
Bright's disease	3			1		2	3	l	; 4	1	1	2	14
Nephritis	3	0	3	3	6	4		1	$\begin{vmatrix} 3 \\ \dots \end{vmatrix}$	3	8	7	45
Cystitis													1 1
VII. CHILDBIRTH. Placenta previa]						
Childbirth	••••	• • • •		••••				••••	• • • •				
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene		2			1								3
IX. MALFORMATIONS.											••••	••••	
Hydrocephalus							1		1				
•									•		••••	••••	2
X. EARLY INFANCY.													
Malnutrition	1	1	1	• • • •	• • • •	1	• • • • •	1	• • • •	1	1		7
Premature birth and congenital debility	4	6	3	1		4	1	2	3	8	5	4	45
debility		- • • •	••••	• • • •	1		• • • •	1	1		1		4
XI. OLD AGE.									- 4		٠		
Senile dementia			1		1	i			1		1		4
Arterio-sclerosis	6	11	9	6	9	1	4	8	10	9	4	10	87
XII. VIOLENCE.							1						
Accidental strangulation	 						1						
Railroad			1	1							2	i	1 5
Accidental burns from hot water		1			1.			••••	1		2	1	5
Accidental gas poisoning					î		i			1			2
Fracture of skull Surgical shock	2	••••	1	•••					• • • •				3
Accidental poisoning				• • • •			1			1		1	2
Accidental fall		• • • • •	2	1	2		3			2	1		10
Accidental burns	2	1					1	1	1	2	$\begin{vmatrix} 2\\1 \end{vmatrix}$	1	7
Homicide		• • • •		1			1						6 2
Exposure				1					••••	1		••••	ī
Total	129	120	105	99	93	6 6	49	63	86	89	84	98	1081

Death rate per thousand.....

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as actinomycosis, anterior poliomyelitis, anthrax, Asiatic cholera, cerebro-spinal meningitis, chicken-pox, diphtheria, dog-bite (requiring anti-rabic treatment), dysentery, German measles, glanders, hookworm disease, infectious disease of the eye, leprosy, malaria, measles, mumps, pellagra, plague, rabies, scarlet fever, septic sore throat, smallpox, 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 superintendent of schools, 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.

Scarlet Fever.—One hundred nineteen cases of scarlet fever have been reported during the year, two of which resulted fatally. In 1915 there were 313 cases, four of which resulted fatally.

Diphtheria.—One hundred fifty-nine cases of diphtheria have been reported during the year, twenty-one of which were fatal. In 1915 there were 237 cases, eighteen of which proved fatal. Anti-toxin has been provided by the state board of health, and placed by this board in central locations for use by physicians. Culture tubes, for diphtheria, and sputum bottles for suspected tuberculosis are obtainable at the same stations.

Warning cards are used in dealing with scarlet fever and diphtheria. An inspection is made by the agent of the board of the premises where diphtheria is reported, and all sanitary defects discovered are required to be remedied as soon as possible.

Tuberculosis.—One hundred sixty-six cases of pulmonary tuberculosis have been reported during the year with eighty-six deaths, and twenty-one cases of other forms of tuberculosis with twenty-two deaths during the year.

Typhoid Fever.—Sixteen cases of typhoid fever have been reported during the year, one of which has proved fatal. In 1915 there were thirty-one cases reported, eleven of which were fatal.

Number of persons with diphtheria or scarlet fever taken in ambulance to hospital by agent.

Number of cases of scarlet fever and diphtheria for which houses were placarded.

142

136

TABLES.

The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1916 is shown by the following table, and in the table next following is given the number of deaths from these three diseases, by months, during the last ten years:—

Scarlet Fever, Diphtheria and Typhoid Fever Reported in 1916.

	Sca	RLET FE	VER.	D	IPHTHER	I A •	Түрн	ioid Fev	ER.
Months.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.	Cases Reported.	Number of Deaths.	Percentage of Deaths.
January February	19 18 24 14 10 10 8 1 3 3 1 8	0 0 1 0 0 0 0 0 0 0	4.1	11 11 12 14 23 9 4 3 14 14 15 29	3 3 4 1 2 1 1 2 2	27.1 27.1 33.3 7.1 8.7 11.1 7.1 20.0 6.9	1 2 1 7 1 2 1 1	1 	50.0
Total	119	2	1.7	159	21	13.2	16	1	6.2

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

		5	SCA	RL	ET.	F	εV	ER					Ι)IP	нт	ΗE	RI	۸.				-	Γγ:	РН	DID	F	EVI	ER.		
Months.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1916.
January February	1 1 2 -	1 1 1 1 1 	::::	1 2 	······································	··· 1 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	1 1 	1 3 2 1 1 1 · · · · · · · · · · · · · · · ·	-	:: :: :: :: ::	1 1 1 1 1 1 4 -	1 1 2 1 1 1 2 2 2	3	3 2 2 2 2 2 1 2 	4 1 1 1 1 1 2 1 1 	3 1 1 1 4 3	1 .1 1 .1 .1 -	 4 4 1 1 2 3 3 4	2 1 3 5	1 2 1 1 1	1 1 4 3		··· ·· ·· ·· 4 2 1	1 1 1 	1 1 2 2 6	···	1 2 1 1 1	1 · · · · · · · · · · · · · · · · · · ·	1 · · · · · · · · · · · · · · · · · · ·	··· i ·· ·· ·· · · 1

Table of Deaths During the Last Ten Years.

											No. of	Rate per
Year.											Deaths.	1,000
1907		•	•	•					•	•	997	13.47
1908				•					•		903	11.96
1909			•	•							988	13.08
1910	•		•		•						1,043	13.45
1911			•		•	•					1,035	12.93
1912			•						•		983	12.13
1913					•				•		993	12.11
1914			•	•		•				•	990	11.65
1915					•						1,003	11.55
1916					•						1,081	12.01
Averag	e d	eath	rate	per	1,000	for	ten	years		•	,	12.43

Table Showing the Five Principal Causes of Death in Somerville in 1916.

PNEUMONIA.	Tuberculosis. All Forms.	HEART DISEASE.	Cancer.	ARTERIO SCLEROSIS.
Number of Deaths. 10,000 of Pop.	Number of Deaths. Number per 10,000 of Pop.	Number of Deaths. Number of 10,000 of Pop.	Number of Deaths. Number per 10,000 of Pop.	Number of Deaths. Number per 10,000 of Pep.

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 chil-

dren and to co-operate with the parents in keeping the chil-

dren in as normal a condition as possible.

It is extremely desirable that one or more additional school nurses should be employed to supplement and make more effective the work of the inspectors, and it is to be hoped that funds will be available to carry out this project. One nurse has been employed since September, 1913.

In accordance with the provisions of the statute, tests of

sight and hearing are made by the principals or teachers.

During the year, 8,068 children have been referred to the inspectors during their daily visits, and 465 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.

Measles Whooping cough Chicken pox Mumps Scarlet fever Total Diseases of the nose and throat:— Enlarged tonsils and adenoids Inflammatory diseases Other abnormal conditions Total Diseases of the eyes:— Inflammatory conditions of the eyes and lids	14 42 31 137 2 226 499 260 18 777
Chicken pox	31 137 2 226 499 260 18 777
Mumps Scarlet fever Total Diseases of the nose and throat:— Enlarged tonsils and adenoids Inflammatory diseases Other abnormal conditions Total Total Diseases of the eyes:— Inflammatory conditions of the eyes and lids	137 2 226 499 260 18 777
Scarlet fever	2 226 499 260 18 777
Total	226 499 260 18 777
2. Diseases of the nose and throat:— Eniarged tonsils and adenoids Inflammatory diseases Other abnormal conditions Total	499 260 18 777
Enlarged tonsils and adenoids	260 18 777
Inflammatory diseases	260 18 777
Inflammatory diseases	18 777
Total	777
3. Diseases of the eyes:— Inflammatory conditions of the eyes and lids	
3. Diseases of the eyes:— Inflammatory conditions of the eyes and lids	
Inflammatory conditions of the eyes and lids	
Inflammatory conditions of the eyes and lids	
	33
Foreign bodies and injuries	3
Other abnormal conditions	54
7D + 1	
Total	90
4. Diseases of the ears:—	
Inflammatory conditions	16
Other abnormal conditions	$\frac{24}{24}$
Total	40
5. Diseases of the skin:—	
Pediculosis	534
Impetigo	71
Scabies	17
Eczema	56
Tinea	2
Herpes	23
Miscellaneous conditions	164
Total	867

6.	Miscellaneous	s diseases:—
U.	WITSCULLOUICOU	o uiscases.

Constitutional diseases			97
Diseases of the digestive system .			32
Diseases of the respiratory system.			191
Diseases of the circulatory system.			5
Diseases of the lymphatic system.			$\overset{\circ}{2}$
Diseases of the nervous system .			$2\overline{5}$
Diseases of the urinary system .			E
Wounds and injuries			18
Diseases of teeth			137
Other conditions		•	873
		•	
Total	•		1,385
Total number of diseases report	ed .		3,385
Vaccinations performed			141
Examinations for vaccinations .			1.100

The districts and inspectors are as follows:—

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

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

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

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

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

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

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

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

Bacteriological Department.

The work of this department was performed by Frank L. Morse, M. D., medical inspector of the board, whose report is appended to this report.

Specimens will be received at the laboratory at the city hall annex daily, including Sunday, at any time, and they will be examined and reported upon the morning following their reception.

Specimens and Anti-toxin.

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vac-

cine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:—

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.

After the specimen is collected, it must be taken to the culture station or sent directly to the laboratory at the city hall annex.

Undertakers.

Under the provisions of Section 44 of Chapter 78 of the Revised Laws of 1902, twenty-one 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.

Agent of Board.

On October 21, 1916, Mr. Caleb A. Page, after twenty-eight years of service, severed his connection with this board by resignation. This board desires to express its sincere appreciation of his faithful, conscientious and valuable service rendered to the city. Major George I. Canfield was appointed his successor and assumed his duties October 23, 1916.

FINANCIAL STATEMENT FOR 1916.

Health Department.

	CRE	DIT.					
Appropriation	:-	•	•	•		•	\$11,350 00
Transferred from Contagious	Hos	spital	•	•	•	•	447 21
Total credit		•		•	•		\$11,797 21
	DEI						
Salaries	•	•	•		\$5,454	27	
Books, printing, etc		•	•		254	01	
Telephones		•			193	35	
Care of tuberculosis in other	hosp	itals	•		3,553	40	
Care of other diseases .					1,106	21	
Maintenance of vehicles .					888	31	
Other expenses	•	•	•		347	66	
Total debit							\$11 797 21

Contagious Hospital.

CR	10	\mathbf{r}	т	7
v r		1,		

Appropriation	ment	•	•	•	· ·	•	\$20,575 130	00 72 93
Amounts transferred:— Health Department Sanitary Department Support of Poor, miscellaneo	· ous .	•	•		\$447 200 1,727	00	\$20,706 2,375	
Net credit						•	\$18,331	53
	DEI	BIT.						
Salaries and wages Groceries and provisions . General supplies Other expenses	•	•	•		\$8,845 7,148 1,458 367	52 10		
Total debit	•	•	•	•	•	•	17,820	33
Balance unexpended .	•			•	•		\$511	20
Inspection of	Anim	als a	nd P	rov	isions	•		
,	CRE	DIT.						
Appropriation	DEI	· RIT	•	•	•	•	\$1,350	00
Salary	•	•			\$1,300 26			
Total debit	•	•		•	•	•	\$1,326	38
Balance unexpended .			•	•	•		\$23	62
Inspection	of M	ilk a	nd Vi	ine	gar.			
	CRE	DIT.						
Appropriation Transferred to inspection of	schoo	ol chi	1dren		•	•	\$3,125 2	00 65
Net credit		•		•	•	•	\$3,122	35
Salaries	DEI	•			\$2,222 254 475 29 92 45	55 86 91 20		
Total debit			•	•	•	•	\$3,120	84
Balance unexpended .	•		•		•	•.	\$1	51

Inspection of School Children.

CREDIT.

Appropriation Transferred from	m	inspec	tion.		milk	and	vine	egar	•	\$2,430 0 2 6	
Total credit	•	•				•	•		•	\$2,432 6	_ 55
				D	EBIT.						
Salaries . Other expenses	•	•		•		•		\$2,380 52	00 65		
Total debit			•	•			•		•	\$2,432 6	55

Jackson Caldwell, Chairman, Ralph F. Hodgdon, M. D., R. M. Lavender,

Board of Health.

Attest:

LAURENCE S. HOWARD, Clerk.

REPORT OF THE MEDICAL INSPECTOR.

Somerville, January 1, 1917.

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

Gentlemen,—I herewith present the report of the medical inspector for the year 1916, including the statistics of the contagious disease hospital and the bacteriological laboratory.

Scarlet Fever. During the year 119 cases of this disease were reported in the city, a decrease of 194 in number from the previous year. Each case has been inspected before release from quarantine and 100 visits were made at residences to determine when desquamation was complete.

Diphtheria. During the year 159 cases of diphtheria were reported in the city, a decrease of 78 in number from the previous year. Before patients are released from quarantine two successive negative cultures must be obtained, and during the year 152 visits were made at houses for this purpose.

Typhoid Fever. During the year sixteen cases of this disease were reported, a decrease of fifteen cases from the previous year.

Tuberculosis. During the year 166 cases of this disease were reported, an increase of twenty-five cases over the previous year.

Ophthalmia Neonatorum. During the year forty cases of this disease were reported, a decrease of three cases from the previous year. An investigation was made of all these patients.

Infantile Paralysis. During the year there were forty-eight cases of this disease with nine deaths. All of these cases were quarantined under the same restrictions as scarlet fever or diphtheria, but there is no evidence to show that these measures in any way prevented the spread of the disease.

Contagious Disease Hospital.

During the year 373 visits were made at the hospital.

Scarlet Fever. During the year forty-nine cases were admitted, two of which proved fatal. The average stay in the hospital was thirty-five days.

Diphtheria. During the year 115 cases were admitted, eighteen of which proved fatal. The average stay in the hospital was sixteen days.

Tuberculosis. During the year seventy-six cases were admitted, thirty-one of which proved fatal. The average stay in the hospital was seventy-five days,

Other Diseases. Two cases of measles were admitted, six cases of erysipelas, one of tooth abscess, and nine cases of infantile paralysis, four of which were fatal.

The daily average of patients was 10.57 in the contagious department and 15.76 in the tuberculosis department, a total

of 26.33.

Bacteriological Department.

During the year 815 examinations were made of diphtheria cultures, 260 examinations of sputum, and eighty-one examinations of blood for typhoid fever.

Respectfully submitted,
FRANK L. Morse,
Medical Inspector.

REPORT OF INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass., January 1, 1917.

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

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

Articles Condemned.

Meats.

Hamburg steak, 121 pounds; tripe, 33 pounds; liver, 142 pounds; pigs' feet, 1 keg; common sausage, 65 pounds; fresh pork, 116 pounds; poultry, 369 pounds; veal, 274 pounds; lamb, 292 pounds; corned beet, 267 pounds; fresh beef, 412 pounds; whole swine, 16.

One man fined thirty dollars for selling meat unfit for food.

Fish.

Salt fish, 17 pounds; haddock, 219 pounds; halibut, 143 pounds; pollock, 87 pounds; salmon, 51 pounds; fresh herring, 212 pounds; (whole) fresh mackerel, 182; clams in shell, 1½ bushel; clams, 37 quarts; oysters, 5 gallons.

Fruit.

Plums, 19 baskets; oranges, 11 boxes; lemons, 2½ boxes; strawberries, 393 quarts; blackberries, 45 quarts; raspberries, 184 cups; grape fruit, 6 boxes; grapes, 41 baskets; bananas, 134 dozen; cantaloupe melons, 11 crates; peaches, 47 baskets; apples, 16 bushels; pears, 9 bushels.

Vegetables.

Cauliflower, 51 heads; rhubarb, 11 boxes; yellow turnips, 5 barrels; asparagus, 33 bunches; squash, 9 barrels; sweet potatoes, 5 baskets; common potatoes, 29 bushels; greens, 19 bushels; lettuce, 17 dozen; green corn, 7 bushels; cucumbers, 2 bushels; cabbage, 3½ barrels; onions, 4 barrels; tomatoes, 14 baskets; green beans, 6 bushels.

Groceries.

Macaroni, 267 boxes; flour, 1,900 pounds; salt, 300 pounds.

Eggs.

Eggs, 81 dozen.

Inspected for 1916.

The following table shows the number of inspections made on slaughter houses, markets, grocery stores and street pedlers, over which there is a constant supervision to safeguard the consumer.

Retail pedlers and hawkers						1,853
Retail fish markets		•				867
Retail markets and stores .	•	•	•	•	•	4,924
Wholesale market and packing				•		187

Slaughter House Inspection.

During the year weekly inspections have been made at all slaughtering establishments. Inspections have also been made of all animals for infectious disease. The slaughtering houses have been enlarged, stock yards have been improved, new quarters for the help have been provided and the slaughtering business in this city has increased thirty-three per cent. Somerville is one of the largest slaughtering centres in the United States.

Cattle					•		. 29,565
Sheep				•			. 285,840
Calves			•				. 91,818
Swine	•			•	•	•	1,245,131
							1 652 354

Animals.

There has been a steady decrease of glanders in this city for the past three years, and I believe it is due in part to discontinuance of public drinking fountains for horses, and a thorough disinfection of stables and blacksmith shops. Each stable and shop is now in first class sanitary condition. In 1913 there were sixty odd horses killed for glanders; 1914, only thirty odd; 1915, ten odd, and 1916, thirteen killed, but eight were in one stable—in all making a large decrease in the disease.

			Inspected.	Quarantined	. Killed	Released.
Horses (glanders)			3,461	22	13	9
Cows			17			
Goats			14			
Swine (hog cholera)		221			
Dogs (rabies) .			11	4		4
Total			3,724	26	13	13

There have been many more lunch carts, restaurants and bakeries doing business in the city and each has been inspected weekly.

Barber shops are required to be kept in a sanitary condition all the time and to properly sterilize their utensils, also that the barbers are in first class shape.

Factories.

The conditions in ice cream and candy factories are greatly improved—all factories in the city have had monthly inspection.

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

Respectfully submitted,

CHARLES M. BERRY,

Inspector.

REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

LABORATORY OF INSPECTOR OF MILK AND VINEGAR. City Hall Annex, Somerville, Mass., January 1, 1917.

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

Gentlemen,—I herewith present my annual report for the

year ending December 31, 1916.

On the above date there were in this city licensed to sell milk, four hundred ninety-six stores and sixty-nine pedlers, and twenty-six stores to sell oleomargarine.

Of the sixty-nine pedlers thirty-seven are located in this

city and thirty-two in the neighboring cities and towns.

There are approximately 6,000 gallons of milk distributed in Somerville daily, and thirty-two dealers selling pasteurized milk supply over eighty per cent. of this amount.

Table 1.

Mon	ths.	Licenses Issued.	License Fees.	Analytical Fees.	Cash paid City Treas.	Analyses on Account.	Total Income for Dept.
January . February . March . April . May June . July August . September October . November December.		12 9 17 63 397 35 20 8 8 9	\$6.00 4.50 8.50 31.50 198.50 17.50 10.00 4.00 4.00 4.50 4.00 2.50	\$2.00 1.50 13.50 2.50 2.50 8.50 2.00 3.00 1.00	\$8.00 6.00 8.50 45.00 201.00 20.00 10.00 4.00 12.50 6.50 7.00 3.50	\$18.50 43.00 18.50 41.50 23.50 36.50 19.00 60.50 12.00 16.50 10.00 19.00	\$26.50 49.00 27.00 86.50 224.50 56.50 29.00 64.50 24.50 23.00 17.00 22.50
Tot	al	591	\$295.50	\$36.50	\$332.00	\$318.50	*\$6 50.50

^{*}In addition to above fines imposed amounted to \$515.00 and two cases continued for sentence.

Table 2.

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

Month	s.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples left at Office.	Total Examina- tions.
January . February March . April . May June July August . September October . November December		198 148 162 166 243 127 197 272 186 197 189 215	98 88 64 80 40 70 87 103 120 80 112 88	17 8 16 27 84 111 22 25 150 178 84	313 244 242 273 367 308 306 400 306 427 479 387	35 82 35 73 45 57 22 103 34 25 26 35	348 326 277 346 412 365 328 503 340 452 505 422
Total		2,300	1,030	722	4,052	572	4,624

Table 3.

Mont	hs.	Chem. Notices.	Bact. Notices.	Sanitary Notices.	Total Notices.	Inspections.	Infected Samples.
January . February . March . April . May . June . July . August . September October . November December		5 5 4 32 46 19 32 37 17 8 12	13 15 1 16 12 14 26 31 29 6 7	15 6 12 24 47 29 8 9 11 32 89 8	33 26 17 72 105 62 66 77 57 46 108 20	60 42 35 40 155 76 43 141 118 22 83 40	0 0 0 0 0 0 0 0 0
Tota	al	227	172	290	689	855	0

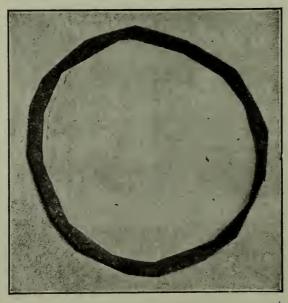
City Inspection.

The department work in the city proper covers the supervision of milk at the receiving stations, the taking of temperatures, examination of utensils and wagons, examination of milk from dairies for visible dirt and bacteriogical standard, inspection of milk plants and stores and the taking of samples of milk at railroad stations, teams, stores, lunch rooms and hotels.

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

Milk dealers are urged to see that the bottles distributed by them are free from particles of dirt which settle to the bottom of the bottle, and consumers are requested to notify this department when any such conditions are noticed. The following cuts show the condition of a cotton disc after a pint of milk has been strained through it.





It is needless to elaborate further as these cottons tell their own story. Dealers are further urged to see that their

producers ship only clean milk to them.

During this year the Boston and Maine Railroad has built at the East Somerville yards a receiving station for the milk cars coming to Greater Boston. These cars are known as the open cars, that is, cars in which any producer may ship milk. This was done to comply with the ruling of the Interstate Commerce Commission.

Somerville is now the largest receiving centre for milk in New England, about forty cars arriving daily, bringing in 312,375 quarts of milk to forty (40) dealers.

There were twenty-seven court cases during 1916.

Prosecutions in court were as follows:—

Twenty-three for milk below standard. One for tasting milk contrary to law. Three for watered milk.

Six cases were appealed and two cases were placed on probation. Fines to the amount of five hundred and fifteen dollars were imposed.

I desire to express my appreciation of the very efficient assistance rendered this department by the city solicitor, as convictions were obtained in each instance.

Table 4.

MILK INSPECTION—CITY.	1912	1913	1914	1915	1916
Samples of milk and cream,					
ice cream and vinegar for					
chemical analysis Number found below grade .	1,001	876 106	787	3,008	4,624 399
Samples of milk and cream	140	100	10	014	599
for bacteriological analysis	740	820	752	1,143	1,030
Number found above 500,000 bacteria per C.C	102	66	58	47	172
Temperatures of milk and					
cream taken	1,500	1,690	1,599	2,006	1,775
T				<u> </u>	
Inspections.				ĺ	
Number of stores and depots handling milk	559	480	517	610	591
Number of inspections made	1,002	753	1,004	1,227	855
Number of re-inspections made	120	687	190	162	101
Number found contrary to	120	001	190	102	101
regulations on 2d insp.	118	98	25		2*
Average number of inspec- tions per store, including					
re-inspections		3	2.35	• • • • •	
Licenses.					
Number of licenses for					
wagons issued	98	78	72	69	69
Number of licenses for stores issued (milk)	461	480	517	528	496
Number of licenses refused.	2	2	0	2	100
Number of licenses revoked.	1	0	0	0	
Number of licenses for stores issued (oleomargarine).					26
LEGAL CASES.					
Suits instituted	9	7	11	17	27
Convictions	8	6	11	16	27
Pending	0	0	2	1	12:2.
Fines imposed	\$100	\$62	\$105	\$205	\$515†
MISCELLANEOUS MILK DATA.					
	c 000	<i>a</i> 000	E 00E	C 050	0.000
Total daily supply (gals.) . Per cent. of milk pasteurized	6,000 44	6,200 56	5,665 60	$6,250 \\ 80$	$9,000 \\ 82$
Average price of milk, winter	9	9	9	9	10
Average price of milk, summer Letters or orders sent. (See	8	8	8	8	10
Letters or orders sent. (See sanitary notices.)					
Total daily cream supply			400	450	
(gals.)	• • • •	• • • •	420	450	560
	,				

^{*}This work has been taken over by the Sanitary Inspectors.

[†] Two defendants were placed on probation for 6 months.

Table	5.—	Infantile	Morta	lity.
-------	-----	-----------	-------	-------

Year.	Births.	Deaths under 1 year, all causes.		Enteric Death Rate per 10,000 population under 1 year.	Population.
1912	1839	142	45	5.84	77,000
1913	1861	166	45	5.48	82,000
1914	1992	147	33	3.92	84,000
1915	1898	142	25	2.90	86,000
1916	Birth re- turns in- complete		23	2.58	89,000

For several years I have tried to impress upon all concerned the desirability of pasteurizing all the milk offered for sale in Somerville.

I believe pasteurization is an absolute necessity and that every large city should have the necessary authority to enforce pasteurization in its entire supply. Table five is one of the most eloquent arguments for pasteurization that can possibly be presented, showing, as it does, the steady decrease in mortality of children under one year of age.

Note should be made of the fact that the population and

amount of milk consumed has steadily increased.

I should like to recommend at this time that the Somerville Board of Health support some legislation having as its object the enforcing of pasteurization in the larger cities and the control of the process by the local authorities.

New Legislation.

Chapter 744 of the Acts of 1914 was amended by Chapter 228 of the Acts of 1916, to include the inspection of the milk as well as the premises, as follows:—

Chapter 228. Acts 1916.

It shall be unlawful for any producer of milk or dealer in milk to sell or deliver for sale in any city or town in the commonwealth any milk produced or dealt in by him without first obtaining from the Board of Health of such city or town a permit authorizing such sale or delivery. Said Boards of Health are hereby authorized to issue such permits after an inspection, satisfactory to them, of the milk and of the place in which and of the circumstances under which

such milk is produced and handled, has been made by them or by their authorized agent. Any permit so granted may contain such reasonable conditions as said board may think suitable for protecting the public health and may be revoked for failure to comply with any of such conditions. No charge shall be made to the producer for said permit or for said inspection.

Chapter 134 of the Acts of 1916 extends the duties of collectors and inspectors of milk as follows:—

Chapter 134. Acts 1916.

Inspectors of milk and collectors of milk samples shall have authority to take samples from milk, intended for sale in their respective cities or towns, wherever, within the commonwealth, such milk is produced, stored or transported, but this act shall not be construed to permit of any interference by such inspectors or collectors with milk in the course of interstate commerce.

Country Inspection.

There are at present about four hundred dairies, sending milk to this city, who have a permit in accordance with Chapter 744, Acts of 1914, as amended by Chapter 228, Acts of 1916. Four producers were prosecuted for selling watered milk and each paid a fine of fifty dollars.

I wish to advise producers of milk to have their milk tested for butter fat. I mean by this, to have each cow tested

separately.

Many cows do not pay for their keep and the earlier this fact is discovered the better for the producer. All producers are urged to weigh the milk from each cow at each milking. It only takes a moment and it is of the greatest importance if milk is to be produced at a profit.

I wish to express my appreciation to my co-workers in the board of health for the assistance they have rendered this department during the past year, and to remind the citizens of Somerville that the department is at their service at all times upon any matter with which we can consistently deal.

Respectfully submitted,
HERBERT E. BOWMAN,
Inspector of Milk and Vinegar.

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

HENRY F. CURTIS, M. D., President.
ALBERT W. EDMANDS, Vice-President.
PHILIP KOEN.
MICHAEL COLL.

Committees.

On Finance, Investigation and Relief, and City Home—Dr. Curtis, Mr. Edmands, Mr. Koen and Mr. Coll.

Secretary.

CORA F. LEWIS.

Clerk.

JEANNETTE M. HUTCHINS.

General Agent.

CHARLES C. FOLSOM.

City Physician.

C. CLARKE TOWLE, M. D.

Warden and Matron, City Home.

Mr. and Mrs. J. Foster Colquhoun.

Office.

City Hall Annex, Highland Avenue.

REPORT OF OVERSEERS OF THE POOR.

Somerville, Mass., December 31, 1916.

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

Gentlemen,-The reports of the general agent and the warden of the City Home, with tables showing the work, are herewith submitted. Philip Koen, a valued member of the board for some years, resigned late in the fall, owing to his removal from the city, and the Mayor appointed in his place Michael Coll, otherwise the members of the board, agent, clerks and warden and matron of the City Home remain the same as last year. Our Home Hospital has been well patronized and is nearly full at the present time. somewhat handicapped at the beginning of the year at the City Farm owing to the wet weather, and later by scarcity of farm labor, but the good prices helped out so that the revenue from the Home and Farm amounted to \$5,491.74, only about \$100 less than last year. We now have forty-three inmates in the Home. We have had during the year eightyfour. We are aiding at the present time under the Mother's Aid Law, fifty-four families, containing 287 children; the amount given is from \$3.00 to \$11.00 per week, according to the number of children and the conditions. We are paying out under this law about \$1,500 per month in cash, besides groceries and fuel. The friendly law suit between Somerville and the Commonwealth referred to a year ago in our report has been decided in the Supreme Court of the State in favor of Somerville. The total collections for the department were \$27,581.18; the total expenditures for the department were \$63,353.03; the net cost to the city for charity during the year was \$35,771.85.

Respectfully submitted,

HENRY F. CURTIS,
A. W. EDMANDS,
MICHAEL COLL,

Overseers

of the
Poor.

REPORT OF THE GENERAL AGENT.

Somerville, Mass., December 31, 1916.

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

Gentlemen,—The following is a brief report of the work of the department for the year 1916. There has been quite a falling off in the number of families and persons aided during 1916 from that of the year previous, owing I suppose to the fact that business has been good and work opportunities plenty. Very few families have been aided where there was a man at home. The Mother's Aid cases continue to influence larger amounts in other cases. I wish to thank the members of the board and all connected with the department for their universal courtesy and help during the year. Tables showing our work are herewith submitted.

Sincerely,

C. C. Folsom,
General Agent.

Table No. 1.

FULL SUPPORT	(During	the	year)	١.
--------------	---------	-----	-------	----

In	city home (men 53, women 31)					84
In	city home December 31, 1916.					43
	private families					16
	hospitals for the sick in other				tate	77
In	care of state division minor wa	ards	(child	ren)		10

Table No. 2.

PARTIAL SUPPORT (Outside Relief).

Families		350
Persons aided (including hospital cases)		1,672
Burials		15
Permits to state infirmary		25
Average expense to the city for each (carriage for 8)		\$1 89

Table No. 3.

AID UNDER 1913 LAW.

Number of applications from widows or	deserted	wome	en .	77
Number of families aided at close of ye	ar .			54
Number of children				287
Amount earned by mothers and child	lren over	fou	rteen,	
each week				\$216 00
Amount allowed each family, from \$3.00		per	week	
Number of out of town families				
Number having no settlement		•		16

Table No. 4.

REIMBURSEMENTS.

Commonwealth of	Ma	.ssachi	usetts						\$9,981	97
City of Boston .	•				•				3,821	36
" " Brockton							•		280	23
" " Cambridge		•	•		•			•	4,571	78
" " Chelsea .		•	•	•	•				48	93
" " Everett .		•	•	•	•	•			411	65
" " Gloucester			•						10	00
" " Haverhili		•			•	•			20	00
" " Lawrence				•					69	00
" " Lowell .					•	•			136	67
" " Lynn .									31	43
" " Malden .		•						•	22	85
" " Medford		•		•				•	167	22
" " New Bedfo	rd								107	40
" " Newton .			•			•	•		134	45
" " Salem .									11	43
" " Springfield									15	33
" " Woburn									162	56
" " Worcester									124	29
Town of Amherst	·					Ĭ			211	33
" " Arlington									173	34
" " Burlington	·			·	i.			·	78	41
" " Concord	•	:	·		•	•	•	•	68	38
" " Duxbury			·		·		·	•	138	66
" " Easton .	•	•	•	•	•	•	•	•		45
" " Framinghan	n .	•	•	·	·	•		•	262	60
" " Lancaster		•	•	•	•	•	•	•	7	73
" " Marshfield	•	•	•	•	•	•	•	•	118	00
" " Medfield	•	•	•	•	•	•.	•	•		00
" " Northboro	•	•	•	•	•	•	•	•		66
" " Peabody	•	•	•	9	•	•	•	•		16
" " Sandwich	•	•	•	•	•	•	•	•		00
	•	•	•	•	•	•	•	•		00
" " Saugus .	•	•	•	•	•	•	•	•		00
" " Sterling	•	•	•	. •	•	•	•	•		00
" " Stoneham	•	•	•	•	•	•	•	•	_	17
wakened	•	•	•	•	•	•	•	•		
willtillall	۰	•	•	•	•	•	•	•		10
vvinchendor	1.	•	•	•	•	•	•	•		14
Individuals	•	•	•	•	•	•	•	•	47	19
									d00 110	07
No.									\$22,110	87

Table No. 5. SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS).

Patients having settlement in Somerville	133
Patients having settlement in other cities or towns .	57
Patients having no settlement (chargeable to state) .	71
Total number of patients sent to hospital	261
Money paid hospital by the city for patients settled in	
Somerville	\$7,000 00
Amount reimbursed to the city and paid to the hospital	
for patients not settled in Somerville	2,272 08
· ·	
Total paid to the hospital	\$9.272 08

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1883 TO 1916, INCLUSIVE.

				Population								11,
Year.				(Estimated).							Ex	penditures.
1883		•	•	27,000	•	•					•	\$15,959.80
1884		•	•	28,000	•	•	•	•	•		•	17,272.52
1885	•	•	•	*29,992	•	•	•	•	•	•	•	16,430.3z
1886	•	•	٠	32,000	•	•	•	•	•	•	•	14,341.83
1887	•	•	•	34,000	•	•	•	•	•	•	•	13,430.89
1888	•	•	•	36,000	٠	•	•	•	•	•	•	13,375.98
1889	•	•	•	39,000	٠	•	•	•	•	•	•	14,610.92
1890	•	•	•	*40,117	٠	•	•	•	•	•	•	15,261.14
1891	•	•	•	43,000	٠	•		•	•	•	•	15,980.49
1892	•	•	•	46,000	•	•	•	•	•	•	•	17,015.30
1893	•	•	•	48,000	•	•	•	•	•	•	•	17,799.58
1894	•	•	•	50,000	•	•	•	•	•	•	•	19,733.13
1895	•	•	•	*52,200	٠	•	•	•	•	•	•	20,755.46
1896	٠	•	•	54,000	•	•	•	•	•	•	•	21,999.79
1897	•	•	•	56,000	٠	•	•	•	•	•	•	25,681.47
1898	•	•	•	57,500	•	•	•	•	•	•	•	28,522.21
1899	•	•	•	60,000	•	•	•	•	•	•	•	28,924.39
1900				*61,643	\				\$23,	697.62)	29,226.45
1000				,	1	City	Home	е,		528.83		,
1901				62,500	1		ellane		\$29,	171.15	í	35,793.58
100-	·			,	1	City	Home	е,		622.43		
1902				63,500	-		ellane		\$28,	667.04	í	36,063.68
1002	Ť			,	1		Home		7,	396.64	\ \	,
1903				65,500	- (Misce	ellane	eous,	\$30,	470.20	í	38,018.59
1000	•	Ť		,	1	City	Home	e,	7,	548.39	· }	,
1904				69,500	Ì	Misce	ellane	eous,	\$20,	476.54	· 1	27,039.65
1001	•	·		,	1	City	Hom	e,	6,	563.11	\	_,,,,,,,,,,,
1905				*69,272	Ś	Misce	ellane	eous,	\$17,	527.88	· 1	25,002.24
1000	•	·		, - · -	1	City	Hom	e, ´	7,	474.36	; }	,
1906				72,000	(Misc	ellane	eous,	\$18,	237.53	3 1	25,044.32
1900	·	•	·	·-,·-·	1	City	Hom	e,		806.79		,
1907				74,000	Ì	Misc	ellane	eous,	\$17,	852.20) j	24,853.43
1001	Ť	·	·	· -, · · · ·	1	City	Hom	e,	7,	001.28	} }	
1908				75,500	Ì	Misc	ellane	eous,	\$17,	955.34	ŀί	24,830.90
1800	•	•	·	,,,,,,,,	1		Hom		6,	875.56	3 }	
1909				75,500	Ì	Misc	ellane	eous,	\$16,	843.17	' ĵ	24,406.00
1000	•	•	·	,	1	City	Hom	e,		562.83		
1910				*77,236	Ì	Misc	ellane	eous,	\$16,	110.42	2 1	23,806.31
1310	•	·	·	.,,	1	City	Hom	e,		695.89		_ ,
1911				78,000	Ś	Misc	ellan	eous,	\$16,	327.56	3 í	24,169.59
1011	•	•	·	, , , , , , ,	1		Hom			842.03		,
1912				81,000	- (ellane			201.38		28,200.30
1012	•	·		~- ,	\{	City	Hom	e,	8,	998.97	7	· ·
1913				82,000	Ì		ellane		\$21	,827.73	3 j	32,773.68
1010	•	•		, , , , ,	1	City	Hom	e,	10	945.95		
1914				85,000	(ellane		\$35,	619.68	3 1	46,819.93
1017					1		Hon		11,	200.25	5	
1915				88,000	1		ellane		\$45,	490.98	3 1	56,709.63
1010					1	City	Hom	e,	11,	218.65	5 }	
1916				90,000	5		ellane			759.62		63,353,03
1010	·			•	1	City	Hom	e,	11,	593.41	[
-					-	7						

^{*}Census,

Table No. 7.

EXPENDITURES, IN DETAIL, FOR THE YEAR 1916.



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	
Hon. Edward Glines		
† 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.	
† Hon. Charles G. Pope, chairman ex-officio	1889	1891 "
Nathan H. Reed (president 1893 to April,		
	1890 Apr.	1894 "
1894)		
officio † James G. Hinckley May, Albert W. Edmands May, † Herbert E. Merrill May,	1892	1895 "
† James G. Hinckley May,	1892	1894 "
Albert W. Edmands May,	1893 to	date* "
† Herbert E. Merrill May.	1894	1909 "
† Ezra D. Souther	1895 Feb.	1898 (Died)
Hon. Albion A. Perry, chairman ex-officio	1896	1898 inclusive
James H. Butler March,		
Hon. George O. Proctor, chairman, ex-		
officio	1899	
Henry F. Curtis, M. D	1910 to	date*inclusive
Philip Koen	1912 Nov.	9, 1916 "
officio Henry F. Curtis, M. D. Philip Koen Michael Coll November,	1916 to	date*inclusive

^{*}Present member.

Table No. 8.

RECAPITULATION (MISCELLANEOUS).

Appropriations and							
Reimbursements.	•	•	•	•	•	22,110 87	
Total receipts .							\$73,870 49
Total expenditures		•					51,759 62
Net expenditures							29,648 75

[†]Deceased.

REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1917.

\$3,984 41 1,507 33

\$5,491 74

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

Farm produce sold . . . Board of sundry persons .

Gentlemen,—I submit the following as the report of the warden of the city home for the year ending December 31, 1916:—

Table No. 1. REIMBURSEMENTS.

					φυ,491 /4
Ta	hla	No. 2.			
10		, 110. <u>D</u> .			
LIVIN	G I	EXPENS	E.	5.	
Salaries and wages:—					
Warden and matron .				\$1,350 00	
Domestic labor				2,037 79	
Farm labor				1,532 25	
Other expenses:—				,	
Groceries and provisions				3,407 41	
Dry goods, clothing and sho	es	•	ce.	359 25	
Drugs and medicine .		•		. 117 43	
Drugs and medicine . Kitchen utensils and supplies				67 39	
Farm equipment				428 67	
Farm equipment Live stock and feed .				137 94	
Garbage		4		375 10	
Hay, grain and straw .		•		1,056 91	
Horse shoeing			•	49 10	
Harness and horse clothing				7 50	
Telephone		•	•	61 69	
Seeds and garden expenses	•	•		167 13	
All other expenses	•	•		423 07	
					\$11,578 63
Credits:—					
Farm produce	•	•	•	\$3,984 41	
Board of sundry persons.	•	•	•	1,507 33	A* 404 M4
					\$5,491 74
Net living expenses					\$6,086 89

Table No. 3.

Number of weeks' board of in Number of males admitted du Number of females admitted of Number of males discharged Number of females discharged Number of males supported du Number of females supported Number of males died during Number of females died during Number of inmates in home, I	ring durin durin l dur uring duri 1916 g 191	1916 . g 1916 g 1916 ing 1916 . ng 1916 . 6	6 :		. 1,953-4 . 33 . 16 . 21 . 7 . 49 . 29 . 8 . 7			
City H	lome	Hospi	tal.					
Number of weeks' board . Number of patients admitted Number of patients in hospita		cembe	r 31, 1	916	. 475-4 . 29 . 9			
FAR	M A.C	No. 4.						
	BURS	EMEN'						
Produce used at home . Milk used at home	•	•		\$3,984 4 250 0 551 0	0			
ю	XPEN	ISES.						
Wages for help Feed for one horse Feed for three cows Shoeing one horse Harness and horse clothing Farm equipment Garbage			•	\$1,427 28 176 18 528 48 16 33 7 56 428 66 375 16 137 98	5 5 7 0 7 0 4			
Seeds and fertilizer	•	•	•	167 13	- \$3,264 56			
Balance	•				\$1,520 89			
Table No. 5.								
Reimbursements				\$5,491 74 6,086 89 14 78)			
					•			

Respectfully submitted,
J. Foster Colquhoun,

Warden.

REPORT OF THE CITY PHYSICIAN.

Office of the	CITY PHYSICIAN,)
	January 1, 1917.

To His Honor, the Mayor, and the Board of Aldermen:— Gentlemen,—The work of your City Physician during the year 1916 is presented in the following abstract:—

Office consultations and treat	men	ts		•	•	•	563
Total outside visits	•		•	•	•	•	1,502
Confinements	•	•	•	•	•	•	13
Vaccinations	•	•	•	•	•	•	81
Visits at City Home	•	•	•	•	•	•	146
Attended at police station	•	•	•	•	•	•	53
Examinations:—							
For legal department.	•	•	•	•	•	•	29
For highway department		•		•	•	•	17
For police department		•	•	•	•	•	58
For fire department.	•	•	•	•	•	•	24
For water department	•	•	• 0	•	•	•	3

Respectfully submitted,

C. CLARKE TOWLE,

City Physician.

REPORT OF THE PLANNING BOARD.

Somerville, Mass., December 31, 1916.

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

Gentlemen,—As required by the Acts of the Legislature of 1913, the Planning Board herewith submits its annual report for the year ending December 31, 1916.

The board met and organized with Oscar W. Codding as chairman and Waldo E. Dodge as secretary, the rest of the board consisting of David J. Kelley, Clarence D. Waterhouse,

and Charles W. Hodgdon.

Since the Acts of 1913, wherein the Planning Board was created, an ordinance has been passed providing for a Planning Board, as now composed, of five members, the term of office of one member to expire each year, and providing further that appointments to fill vacancies be made for the balance of any unexpired term. As the Planning Board was originally constituted, the majority of the members of the board were likely to change each year, and consequently the board had not the nucleus necessary to give proper study to

the problems and questions before it.

The duties of a Planning Board are to make careful studies of the resources, possibilities, and needs of the city or town, with special reference to the proper housing of its people. A complete map or set of maps should be prepared under the direction of the City Engineer for the use of the Planning Board which should embrace as many of the physical and topographical facts as possible, showing the Park and Playground system, area served by school centres, the location of industrial plants, transportation facilities, density of population, also probable fire districts and business centres. Comprehensive plans should be drawn showing the development of the city along artistic, architectural and business lines.

His Honor, Mayor Z. E. Cliff, and President Fleming of the Board of Aldermen attended one meeting of the board, as well as Superintendent of Schools Clark and Fire Chief Rich. Their advice was of the greatest assistance to this board during the past year. Henry Sterling, secretary of the Homestead Commission, addressed the board on City Planning, and his suggestions were also very helpful.

The Planning Board is always willing and is desirous of receiving suggestions from the different civic bodies in Somerville, as well as from any of its citizens, intended to assist the board in matters pertaining to the welfare of the city.

During the past year the board has spent considerable

time on the following subjects, and makes recommendations as follows:—

1. Junior High School System.—The City Government has inaugurated a system of Junior High Schools, and after holding public hearings relative to the matter and investigating the subject thoroughly, it has been decided to establish four centres for the work, two of which are already in operation, one in the Winter Hill district, one in East Somerville, and a building for one in West Somerville nearing completion, leaving the Union Square district as yet unprovided for, although the city owns a lot of land on Vinal avenue, upon which at some future time it is intended to erect a building for this purpose. This board feels, however, and recommends that immediate steps be taken to build the proposed Junior High School in order that this district be provided for and the entire system completed.

2. Fire Protection.—The City being composed almost entirely of wooden buildings, this board has considered the advisability of taking steps towards safeguarding the homes and the lives of its people. The matter of fire protection is one that has been taken up by our City Government in the past, but as yet no action has been taken. Fire districts have been established in neighboring cities, leading to a better class of building construction. This board therefore recommends that fire districts be established in and about the business

squares of the city without further delay.

3. Widening of Bridge Street.—An important matter considered by this board, together with the Cambridge Planning Board, was a proposed plan of widening Bridge street in Cambridge. Somerville avenue, together with Bridge street in Cambridge, constitutes the main artery of travel from Somerville to Boston. Thousands of passengers are carried daily over this thoroughfare. More trucking and expressing is done over these streets than any other highway of Somerville. Practically all produce from the market gardens in the outlying towns is transported to Boston by this route. Somerville avenue between Medford street and the Cambridge line has a width of fifty-one feet from curb to curb, while Bridge street is narrowed down to only thirty-three feet from curb to curb. Nearly all our congestion of passenger transportation on both the Highland avenue and Somerville avenue line of cars occurs between the Somerville-Cambridge line and Kelley square, Cambridge, on this narrow street. On one side of Bridge street we find nothing but small, dilapidated dwelling houses, mostly of wooden construction, which have long since passed their usefulness for residential purposes, many of which are now vacant, with windows either broken in or boarded up, and having but little taxable value. Not

only are they an eyesore to the thousands who view them daily, but they constitute a great fire menace to that section and especially to the lumber yards, coal pockets and manufacturing buildings which line the opposite side of the street.

We therefore recommend that our City Government immediately take steps to obtain the necessary legislation to effect this much needed improvement.

- 4. Street Car Service.—The street car service in our City is an ever present problem. This is a matter that has been taken up in past years by our City Government and civic organizations with a view of obtaining relief. The main arteries of travel to Boston are Somerville avenue, Highland avenue and Broadway, and it is a fact that there are not enough cars and the infrequent service does not care for the travel on these lines. As a means of relieving this congestion this board has, with the Cambridge Planning Board, considered the advisability of establishing a new artery from Elm street, West Somerville, through Beech street, Cambridge, with a view of diverting some of the traffic from the present overcrowded street car lines. This might eventually lead to a cross-town line, making better connection with the cities north and south of Somerville. This board therefore recommends that the City Government investigate the matter, and, if necessary, take the question up with the Public Service Commission to obtain the necessary relief.
- 5. Branch Library, Prospect Hill.—This building is in bad repair inside and out, and the grounds surrounding same are in a neglected condition. This board therefore recommends that steps be taken to improve the condition of this building as well as the grounds surrounding same.
- 6. Old Buildings.—There are numerous old and dilapidated buildings scattered around the city that are unsightly, a detriment to public health, and a fire menace to our city. Under existing statutes these buildings may be removed, and the Planning Board recommends that immediate steps be taken toward their removal, as recommended in this board's previous reports dated 1914 and 1915.
- 7. Clean-up Week.—This city, in common with other cities and towns, has held a clean-up week, the object of which is the cleaning up of the streets, premises of the householders, and vacant lots of land. Great success has attended these campaigns in the past, and this board recommends that this feature be made a semi-annual affair, one clean-up week to be held in the Spring and one held in the Fall.

As recommended in the Planning Board's report of 1915, space should be provided in the City Hall where the board may keep its maps and data collected by it in order that the

same may be accessible to the members of the board at all times.

The sum of fifty dollars was appropriated for the use of the Planning Board for the year 1916. If the Planning Board is to successfully accomplish the work for which it was originally intended, it is necessary that a sufficiently large appropriation be made for the necessary data and equipment. To effectually consummate the plans of this board for the coming year a complete survey of the City should be made and this board supplied with proper topographical maps, etc. Planning Boards in other cities and towns which have demontrated their value to those cities and towns have been provided with money with which to carry on their work. This board therefore recommended that an appropriation of at least two hundred and fifty dollars be made available for the year 1917.

OSCAR W. CODDING,

Chairman.

CHARLES W. HODGDON, CLARENCE D. WATERHOUSE, DAVID J. KELLEY, WALDO E. DODGE,

Secretary.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER, CITY HALL, Somerville, January 10, 1917.

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

Gentlemen,—In accordance with the provisions of the city charter, the following report of the work done and expense incurred for the year ending December 31, 1916, by the Engineering Department and appropriations under my charge and supervision, including the accounts of City Engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

City Engineer Account.

Statement of Expenses, 1916.

Salary of City Engineer	\$3,000 00						
Salaries of assistants (see itemized statement following)	7,363 22						
Stakes, tools and general supplies (out-	1,000						
side work)	78 17						
(inside work)	296 61						
(assistants)	193 90						
(assistants)	100 00						
sions of engineering department (new auto, \$735.00; maintenance, \$480.31)							
(new auto, \$735.00; maintenance,	1,215 31						
Telephone, postage and expressing.	110 44						
Incidentals	70 50						
		010.000.15					
Total expenditure	• • •	\$12,328 15					
CREDIT.	440 ×00 00						
Appropriation	\$12,500 00	\$12,500 00					
		φ12,500 00					
Balance unexpended (transferred to other a	accounts) .	\$171 85					
Classification of Expenses, Assist	tants' Salarie	s,					
Sewers,—comprising surveys, estimates, pr	ofiles, lines,						
grades, titles, plans, assessments and a	11 engineer-	01.000.00					
ing work relating to sewers	los profiles	\$1,020 00					
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other							
engineering work relating to the department 1,295 00							
Sidewalks,—comprising profiles, lines, grades, measure-							
ments, inspection, titles, costs and assessments . 99							
Bridges and Grade Crossings,—comprising plans, profiles, estimates, lines and grades		10 00					
plans, promes, estimates, mies and grad	400, 010.	10 00					

Water Works,—comprising lines, grades, locations of mains, gates, hydrants and services and other mat-	
ters relating to the department	495 00
estimates, profiles and grades, including laying out of parks and playgrounds and boulevard. Public Buildings,—comprising surveys, estimates, lines	415 00
and grades, and other work relating to construction and laying out of grounds	45 00
plans, and assigning street numbers Street Lines and Grades,—comprising establishing of	295 00
lines, grades, and miscellaneous data given parties for building and grading	255 00
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work	200 00
for city map, etc	590 00
abstracts from deeds and examination of titles filed at East Cambridge, also tracing of street accept-	
ance and sewer taking plans filed for record. Private Corporations, Railway, Telephone, Electric	275 00
Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles	
and conduits	120 00
ing, typewriting, bookkeeping, calculations, reports, and general draughting	1,180 70
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes	,
for different committees	$92\ 00\ 280\ 52$
Total	\$7,363 22

Office Records and Value of Instruments.

Number of survey note-books, sewer permit books, deed books, calculation books and record books—three hundred and sixty.

Number of plans, including sewers, highways, parks, house lots, etc.—seven thousand seven hundred.

Value of field instruments, tools and office instruments \$2,000 00

The number of assistants employed during the year on

engineering work varied from seven to nine.

The total cost of maintaining the Engineering Department (City Engineer Account) since it was established, 1872-1916, both years inclusive, has amounted to \$355,768.00.

General Work. Under the title of Engineering Department a varied line of city work is carried on each year, including the designing and superintending of the construction and maintenance of sewers, parks, playgrounds, boulevards, bridges, and other public works as may be authorized; the making of such surveys, plans, profiles, estimates, descriptions of property, specifications and contracts for work as the mayor, board of aldermen, or any committee or department may require; the custody of all plans and data relating

to the laving out, widening or discontinuing of streets, the computing of all sewer, sidewalk, and street betterment assessments, and the recording and indexing of all work under

the control of the city engineer.

The city ordinances require that the city engineer must be consulted on all work where the advice of a civil engineer would be of service; and no structure of any kind can be placed upon, beneath, or above any street, by any department of the city, corporation, or individual, until a plan is furnished showing the location and approved by him.

During the year the department made plans and established lines and grades for the acceptance, under the betterment act, of thirteen new public streets, a total length of 5,240 feet (0.99 mile); and plans were made of four private streets for acceptance as public ways, as ordered, but not as vet made public. There are plans for acceptance of eleven other private streets, previously made, on file in the office that for various reasons are still unaccepted as public streets.

Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench Marks" throughout the city for giving grades.

No new street bounds were set during the year 1916. There are at the present time 576 stone bounds set in the city for defining street lines. (Table showing location in 1907)

report.)

The total length of public streets in the city is 83.041 miles, and private streets 17.479 miles. (See table in this report for location, width, length, etc.)

Streets Accepted as Public Highways in 1916, Under the Betterment Act.

NAME OF STREET.	WARD.	From	То	Width in Feet.	Length in Feet.	
Burnham street Electric avenue. Hamilton road Harding street Heath street Illinois avenue Mason street Michigan avenue Mountain avenue New Hampshire av. Vermont avenue Walter terrace Willow place	7 7 7 2 5 1 7 1 6 1 1 4 2	Broadway	Pow. House Blvd. Packard avenue. North street. Northerly. Edgar avenue. Pennsylvania ave. Pow. House Blvd. Pennsylvania ave. near Linden ave. Mystic avenue Southwesterly Cambridge line	40 40 40 30 40 40 40 40 22 40 40 40 25	543 633 560 70 390 427 681 470 280 406 433 222 125	December 29 December 29 December 29 December 29 December 29 February 25 December 29 December 29 December 20 December 29 December 29 December 29 December 29 December 29
Total	••		(0.992 miles)	••••	5,240	•••••

A new map of the city on a scale of 600 feet to an inch has been compiled and 500 copies printed for general use.

Length of Public Streets in Each Ward.

									Miles.
Ward one						,			10.357
Ward two			•	•	•				9.225
Ward three	•			•		•	•	•	7.587
Ward four	•	•	•	•	•		•		9.954
Ward five	•	•	•	•	•	•	•	•	12.200
Ward six	•	•	•	•	•	•	•	•	13.392
Ward seven	•	,	•	•	•	•	•	•	20.326
775 . 4 . 4	. 4	_							
Total ler	igth	ot :	public.	stre	ets ir	ı the	city		83.041

A number of streets have been changed and plans made, showing a re-numbering of the buildings, and all old numbering plans revised, new houses plotted, and numbers as-

signed.

Some of the old main thoroughfares should be re-numbered throughout the entire length, so as to eliminate half numbers and letters now being used, as many of these old streets have outgrown their original numbering.

There are many streets, avenues, courts, and places in the city of the same or very similar name, which should be

changed to prevent the confusion now existing.

During the year 1916 approximately \$149,000.00 were spent for construction work on the improvement of city streets and about \$27,500.00 for the construction of new sidewalks.

This construction work was carried on jointly by the Engineering department and the Highway department, part of the work being done by contract, and the remainder by the

city highway department, day labor.

The contractors were James H. Fannon and Charles A. Kelley, Somerville, Hassam Paving Company, Worcester, and Simpson Bros. Corp., Boston, for street construction work and Denis I. Crimmings, Somerville, for granolithic sidewalk construction.

Sections of Broadway (Charlestown line to Garfield avenue) and Medford street (Central square to Highland avenue) have had an asphaltic wearing surface, about two inches in thickness, placed on top of the old concrete pavement, a total of 16,864 square yards, 3,700 feet in length, constructed by contract. (This old concrete roadway has been in use about ten years.)

Sections of Pearl and Medford streets (Cross street to School street) and Summer street (Bow street to School street) have been re-constructed with a "Bi-co-mac" payer

ment (concrete base) a total of 10,779 square yards, 4,090

feet in length, constructed by contract.

A portion of Union square has been re-constructed with granite blocks (re-cut) laid on a concrete base and grouted with Portland cement; 5,240 square yards were laid by contract and the remaining area will be completed early in 1917.

Four thousand ninety-seven square yards vitrified brick pavement (concrete base) have been laid in portions of Day street, Chester street, Magoun square and Washington street, a total length of 958 feet, by contract, at a cost of \$2.80 per square yard complete, and 472 square yards laid by the highway department in Meacham road, 151 yards remaining to be completed.

One thousand two hundred and thirty-one square yards bituminous macadam pavement (concrete base) have been constructed in North street (Powder House boulevard to Conwell avenue) and in Washington street (Dane street to Kingman road, excepting inclines at railroad bridge) a total length of 7,731 feet, at a contract price of \$1.36 per square

yard exclusive of asphaltic binder.

One thousand nine hundred and eight-three square yards of this kind of pavement, a length of 714 feet, was constructed in a portion of Summer street by the city highway department. day labor.

Alewife Brook Parkway in Somerville has been constructed by the state park commission with a bituminous

macadam surface, a length of about 2,400 feet.

The total length of permanent paved streets in the city

amounts to 16.3 miles.

Nine new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestone, a total length of 3,406 feet; three being done by contract and six by day labor.

The average cost of this type of construction for a forty-foot street complete, by contract was \$5.34 per linear foot, and by the city highway department, day labor, \$6.36 per

linear foot.

The total street betterment assessments amounted to \$8,938.59.

Fourteen streets were constructed by the city highway department by day labor, a total length of 14,083 feet, at a cost of \$32,918.39.

Nine thousand eight hundred forty-nine square yards of granolithic sidewalk, a total length of 2.64 miles, were constructed by contract during the year at an average cost of \$1.48 per square yard and 6,486 square yards of granolithic sidewalk, a total length of 1.88 miles, were constructed by the city highway department at an average cost of \$1,64 per square yard.

Lines and grades have been given for setting 7,448 linear feet (1.41 miles) of new edgestone, 16,335 square yards (4.52 miles) of granolithic sidewalks and measurements taken for computing assessments; 0.16 of a mile of edgestone has been reset and in addition to this 0.802 mile of granolithic sidewalk has been laid on private streets by property owners.

The total sidewalk betterment assessments and income

amounted to \$12,610.74.

In connection with setting edgestones 821 square yards of new concrete gutters have been laid by the city highway department, by day labor, at an average cost of \$2.64 per square yard.

A number of driveways and crossings have been con-

structed, all requiring lines, grades, and measurements.

(See tables for cost of new work, 1916, and total lengths of sidewalks constructed in the city to date.)

The average cost for the year has been as follows:—

And the cost of materials furnished by contract:

Edgestone (straight) delivered at work
Edgestone (circle) delivered at work
Bricks delivered at work (sidewalks)
Bricks (vitrified) on cars (paving)
Cement (Portland) on cars
Sand and gravel on cars
Trap-rock delivered on work (various size)

0.67 per linear foot
0.85 per linear foot
31.00 per M
1.47 per barrel (net)
0.70 per cubic yard
1.48 per ton (average)

From a comparison of the cost of constructing new streets, sidewalks, etc., by day labor and by contract for a number of years past, it would seem advisable to do by contract all new work, where approximately one-half of the total cost of construction is assessed on abutting property owners, and thereby making the assessments, as levied, more uniform throughout the city.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be sub-

stituted in the place of brick.

Miles of Edgestone, Granolithic and Brick Sidewalks in Each Ward.

Ward one	Edgestone. 18.584 16.043 14.258 15.142 22.053 24.410 29.621	Gravel Sidewalk. 3.795 6.308 1.040 1.558 5.160 4.759 2.847	Brick Sidewalk. 12.093 6.744 11.572 9.993 12.194 10.678 8.462	Granolithic Sidewalk. 4.256 3.050 1.646 3.605 4.887 9.922 19.796
	140.111	25.467	71.736	47.162
Table	of Street Co	onstruction.	Square	
			Yards.	Miles.
*Streets paved with grani			108,732	4.56
**Streets paved with cond		·	23,990	1.42
†Streets paved with asph			42,215	2.59
Streets paved with vitrific		• •	19,149	1.14
Streets paved with "Bi-c			10,780	0.77
Streets paved with bituli			3,911	0.11
Combination pavement (bituminous top). ‡Streets macadamized ("t Streets macadamized (was			86,107	5.73 28.14

100.52 Total

*Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

**Includes 0.42 miles state highway.

†Includes 1.16 miles of state highway.

‡Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

A considerable quantity of stone still remains on the two parcels of ledge property owned by the city, situated in West Somerville, that can be quarried and used for the foundation of streets, and on sidewalk work, to the city's advantage. By using the stone from these two ledges and purchasing trap-rock, the city will have a sufficient supply of good road material for a number of years to come.

The policy recently adopted of permanently constructing the city's main thoroughfares in perference to side streets

has shown good results.

In a few years' time, by the continuation of permanently constructing the remaining roadways, namely short sections of Broadway, Somerville avenue, Medford, Summer, Washington and Beacon streets, and some of the principal cross-town streets, the city will have main thoroughfares that will compare favorably with any city in the state.

Many times in the past, streets newly constructed, or where an improved pavement was laid, were torn up and excavations made a short time after being built, when the changes should have been made considerably in advance of

the new street construction work.

Previous notice of the city's intended street improvements should be given to the various departments and interested corporations and ample time allowed for making all extensions and repairs of underground work; and no permission should be granted to cut any newly constructed street, except for emergencies or under special conditions, where a sufficient sum of money, as determined by the city, is paid the city in advance for the restoration of the paving or other street surface.

An ordinance should be enacted whereby no street openings can be made until these conditions are complied with

satisfactorily to the city.

The Boston Elevated Railway Company has made extensive repairs in its roadbed in this city during the past year, replacing the old tracks with new and heavier rails. There are a number of miles of trackage in the city's main thoroughfares where the old granite block pavement, within the railroad location, should be relaid and grouted with Portland cement, and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms.

There are 31.9 miles of electric railroad (single track lo-

cation) laid at the present time in the city's streets.

Where double tracks have been laid in streets, leaving narrow roadways on either side, it is impossible to maintain a macadam surface, even at a heavy expense yearly, and these streets should be permanently paved with a suitable pavement, adapted to the character of the surroundings and amount of traffic and conditions encountered.

More granite block pavement should be laid in sections of certain streets in various parts of the city; this could be accomplished at a comparatively low rate of cost by relaying each year, as the appropriation would allow, sections of the old granite paved streets with modern work and using the

surplus re-cut blocks for new streets desired.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc.. have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled.

Plans have been made by the various companies and corporations, and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city,

which have been granted by the board of aldermen during the year; and the work of placing overhead wires in conduits underground and removing all poles from the streets should

be extended as rapidly as possible.

At the present time there are underground in the city's streets 16.74 miles of telephone conduits, 11.99 miles of electric light conduits, 1.4 miles of electric railway conduits and about 9.7 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown Gas Companies have extended their mains in the city's streets 0.66 mile the past

vear.

Heavy explosions have occurred in the city's streets from underground conduits, owned by private corporations. The city ordinances should be so changed that in the future all underground work constructed by these companies should be rigidly inspected by a competent man employed by the city, so as to eliminate, as far as possible, faulty construction.

A set of block plans should be made covering the entire city area, from accurate surveys made during the past twenty-five years, and carefully compared section by section with the deed dimensions and areas recorded in the assessor's department, and in this manner the correct areas of land de-

termined.

This set of plans would show the area and dimensions of each lot, all houses and other buildings, sewers, catch basins, house drains, water services, gas mains, underground conduits for wires, street lights, street railway tracks, etc., and be of great value to many city departments. Five of these sectional plans have already been made. A separate appropriation should be made for completing these plans.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute, and special plans and data prepared for the

city solicitor's use in court cases and hearings.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and the schedules of assessments made out showing the property owners. Copies have been made of all city plans where land has been taken for highways or sewers, and these have been filed and recorded at the Registry, East Cambridge, as required by law.

GRADE CROSSINGS AND BRIDGES.

No actual construction on grade crossing abolishment in this city has been done during the past year. The construction work for the elimination of these dangerous grade crossings should be continued until completed as decreed by the court. Work should be commenced at the Park street cross-

ing immediately.

The special automatic pump at Medford street installed for removing storm water from the subway under the steam railroad tracks and discharging into a city sewer at a higher elevation (this means of disposal of water being made necessary by an act of the state legislature) has not proved satisfactory to the city up to the present time.

The plans for abolishments of these crossings were described in previous annual reports, and at two streets the plan adopted is the same as proposed by the city's scheme presented to the commission; at the other three streets the plan adopted

is just the reverse of the city's scheme as presented.

Washington street bridge over the Fitchburg division of the Boston & Maine railroad near Union square has been extensively repaired by the railroad company and the sidewalks

improved and made a greater width.

Prospect street bridge over the Fitchburg division of the Boston & Maine railroad is an old narrow wooden bridge that has existed for many years and is wholly inadequate for the unusual amount of automobile travel at the present time and should be rebuilt immediately to the full width of the street. Likewise the Broadway bridge at North Somerville over the southern division of the Boston & Maine railroad should be widened to the full width of the street.

The old bridge carrying the Boston & Maine railroad tracks over Washington street (East Somerville) should be replaced with a new bridge of modern design and thereby increasing the head-room in the street about two and one-half

feet where at present the traffic is seriously impeded.

City Boundary Lines. In November, 1916, representatives appointed from the city of Somerville and the city of Boston examined the bounds defining the division line between these two cities and reported their findings in due form to the board of aldermen.

These boundary lines are perambulated every five years

as prescribed by the statutes.

A number of stone boundary markers, defining the division lines between Somerville and bordering cities, are out of

plumb and should be reset.

A contemplated change in the boundary line between Somerville and Medford has been under consideration by both cities for some time and an exchange of territory could be made that would be equally advantageous.

SEWER DIVISION.

Construction Account.

Statement of Expenses, 1916.

Constructing "separate system" sewers			
(assessments levied)	\$2,434	08	
Constructing "combined system" sewers	• ,		
(assessments levied)	2,169	86	
Constructing storm drains	3,314		
Reserve payments on sewer contracts 1915	418		
Constructing catch basins (40)	2,472		
Constructing new manholes on old sewers	501		
Charged to other departments and ac-	002	•	
counts	348	03	
Materials on hand December 31, 1916 .	1,009		
materials on hand December 52, 1020	2,000		
Total expenditure		•	\$12,667 80
CREDIT.			
Appropriation	\$20,000	00	
Balance unexpended, 1915		12	
Received from other departments and ac-			
counts, labor and materials furnished	348	03	
Total credit		•	\$20,356 15
Balance unexpended (over to 1917)			\$7,688 35
Daminee unexpended (over to 1917)	•	•	Ψ1,000 00

The greater part of the new construction work has been done by contract, and the remainder by the city employing day labor, where old structures were to be remodeled or replaced by some difficult construction work. All materials have been furnished by the city, and the prices paid for supplies for the season have been by contract with the lowest bidder as follows:—

cars
04.20
cars

A number of sewers have been constructed as petitioned for in various sections of the city, or as considered necessary for the improvement of the drainage system, and portions of the cost of construction assessed on the abutting estates under orders passed by the board of aldermen.

Short lines of storm drains and overflows from congested sewers have been constructed during the year in the most needed districts.

The "separate system" sewers (those built for house drainage only) have been extended in a number of streets in

the older districts, and this system should be extended yearly until all the flooded districts in the city have two complete systems of drainage, the old sewer to be used for storm and surface water. The city pays the entire cost of these new sewer extensions for house drainage, and wherever constructed the house plumbing should be changed where necessary; and the house drains and conductor, or surface water drains, reconnected with both systems as soon as possible.

New sewers and drains were constructed during the year varying in size from eight-inch pipe to twenty-inch pipe in

the following localities:—

"Separate system" sewers in:—

High street,—Powder House boulevard to near North street.

Mystic avenue,-Wheatland street to Temple street

(southerly sidewalk).

North street,—Medford city line to Woods avenue. Powder House boulevard,—Sewer built in 1914, at No. 305 Boulevard to High street (easterly sidewalk).

Temple street,--Mystic avenue to near Sydney street

(easterly sidewalk).

"Combined system" sewers in:-

Central street,—Cambria street to Oxford street.

Storm drains in:-

High street,—Powder House boulevard to North

North street,—Bailey street to College Hill road. Powder House boulevard,—Storm drain built in 1915 at No. 285 Boulevard to High street.

Somerville Field,—Alewife brook to Powder House boulevard (two lines) near Fairfax street and

Gordon street.

SUMMARY OF WORK.

Eleven new sewers and drains have been constructed during the year, a total length of 4,985.2 linear feet (0.944 mile) at a cost of \$7,918.27; plans have been made showing these sewers in detail, and assessments levied on a portion of them, amounting to \$2,744.06. (See tabular statement of sewers and drains for 1916, showing itemized statement of work and cost.)

The total length of the city's drainage system is 111.277 miles; 31.661 miles being on the "separate system" and 10.449 miles of storm drains, and the entire cost of construction has amounted to about \$1,331,420.00 exclusive of the amount paid to the state for assessments for the construction of the North

Metropolitan sewerage system.

TABULAR STATEMENT OF SEWERS AND STORM DRAINS BUILT IN 1916.

LOCATION.													ITI	EMS O	CONS	TRUCT	ION AN	D COS	T.						
						Sev	VER.	Sub-d	RAIN.	ck	u		holes.			Pir	e Sewer	, Cost P	er Line	AR FOOT	Γ,				
Name of Street.	FROM	То	CONTRACTOR.	MATERIAL Excavated.	erage Cut.	inches.	in feet.	inches.	in feet.	yards Ro	Price per cubic yard, Rock.	Manholes.	cost, Man	Inlets.	Excavate filling Pipe I		ncluding drain : laid.	ring and on.	neous.		ng Side- tesurfac- ets, etc.	Cost per foot.	otal Cost.	sessment.	st to City.
						Ave	Size in Size in I	Size in		Cubic	Pri	Z	Average		Main Sewer.	Sub- drain.	Price, in Sub- where	Enginee Inspecti	Miscella	Lumber.	Repavi walks, R ing Stre	Average	ř	₹	ડ
Central street, sewer	Cambria street	Oxford street	T. F. Crimmings .	· Filling and sandy loam .	8'0''	15	188.9							1	\$1.43		\$0.40	\$0.02	\$0.13			\$1.98	\$ 374.96	••••	\$374.96
High street, sewer	Powder House Boulevard	Near North street	Denis 1. Crimmings	. Sandy clay	6'9"	8	614.0	5 & 6	388.0	1	\$4.00	3	\$47.95	45	0.90	\$0.20	0.25	0.07			•••••	1.59	974.67	\$974.67	••••
High street, storm-drain North street, storm-drain	Powder House Boulevard Bailey street	North street College Hill road	Denis I. Crimmings. Denis 1. Crimmings	Sandy clay	5′9″ 6′0″	10 8	704.0					3	41.45	2	0.45		0.23	0.01	0.04			0.86	823.55		823.55
Mystic av., sewer (southerly sidewalk)	Wheatland street	Temple street	, James H. Fannon .	Filling	9'6''	8	740.4	4 & 6	396.7	8	5,00	4	53.75	22	1.48	0.20	0.22	0.09	0.03		0.03	2.30	1,700.20	501.77	1,198.43
North street, sewer	Medford City line	Woods avenue	Bartholomew Burke	. Hardpan and rock .	8'0"	8	473.2			51.4	5.00	1	61.15	34	1,15		0.20	0.04	0.01			2.07	981.33	828.22	153.11
Powder House Boulevard, sewer .	Sewer built in 1914 at }	High street	Denis I. Crimmings	. Clay	7'6''	8	290,5	5 & 6	172.0	2	4.00	1	47.95	11	0.98	0,20	0.28	0.06	0.02			1.65	478.08	221.54	256.54
Powder House Boulevard, storm drain	Storm drain built in	High street	Denis I. Crimmings	. Clay	6'6''	20	659.5				••••	1	38.20		0.65		0.68	0.02	0.05	0.02		1.54	971.95		971.95
Somerville Field, storm-drain	Alewife Brook	Powder House Blvd.	Denis 1. Crimmings	. Peat and clay	3/4//	15	496.0					1	46.91		0.92	·	0.38	0.03				1.43	1,143.87		1,143.87
Somerville Field, storm-drain	Alewife Brook	Powder House Blvd.	Denis I. Crimmings	. Peat and clay	4'0"	12	301.8					1 }		1		l								•••••	
Temple street, sewer (easterly sidewalk)	Mystic avenue	Near Sydney street .	James H. Fannon	Filling	7'6''	8	66.9	4 & 5	244.3			1	54.55	9	1.00	0.20	0.26	0.11				1.76	469.66	217.86	251.80
						1			4.985.2	(0 944 mi	les.)	1											\$7,918.27	\$2,744.06	\$5,174.21

Total length of public sewers in the city, January 1, 1917 497,624.6 feet. Total length of private sewers in the city January 1, 1917 34,748.0 feet.

4,985.2 (0 944 miles.)



Forty new catch basins have been constructed in the highways during the year, making a total of 1,803 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):— Located in streets and subways Located in city boulevard Located in parks (15) and other city lots (12)	1,737 basins 39 " 27 "
Total catch basins constructed and maintained by the city	1,803 33 basins 71 " 104
Total catch basins in the city for storm drainage purposes	1,907

Metropolitan Sewer Connections. There are within the city's limits, thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report.

Wherever the city's "combined system" sewers are connected with the Metropolitan sewer, the flow is automatically regulated so that in times of storms the connection closes and the discharge continues through the old channels to the rivers; the "separate system" connections are always in operation

under all conditions.

The city's assessment for the Metropolitan sewer system for the past year was \$44,998.20 on construction account and \$22,512.80 for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,167,777.40 (1892-1916, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

New Work. The separate system sewers should be extended in the old section of the city each year, as the appro-

priations will allow.

The construction of the storm drainage system in the vicinity of North Somerville should be extended, the outlet for this district being through the city of Medford into Mystic river; and in connection therewith, the boundary line between Somerville and Medford should be changed in the vicinity of Pearson road and Boston avenue, so that this outlet, Two Penny brook, can be improved by Somerville, and the covered channel extended to the Boston & Maine railroad, to conform with the work already done within the present city limits.

A large storm overflow drain has been contemplated for some time at the East Cambridge line, across private lands from Somerville avenue, discharging into Miller's river. The construction of this conduit would relieve, to a great extent, the flooding of certain streets and many cellars in times of excessive storms. The city of Cambridge is equally interested in this matter of improved drainage and the cities acting jointly should complete this work without further delay.

Some agreement should be made whereby a storm drain and sewers may be constructed in the valley along the location of the southern division of the Boston & Maine railroad, between Gilman square and Cedar street, this being the natural outlet for a number of the city's streets and house lots, which at the present time have either very poor or no means of drainage, and would abolish two syphons under the railroad tracks. It would be of great benefit to the railroad company as well as giving relief to sections of the city's overcharged drainage system during heavy storms by diverting through this proposed conduit the proper drainage area which is now flowing in other directions.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work

completed.

MAINTENANCE ACCOUNT. Statement of Expenses, 1916.

buttement of Enponeer,	-0-0.			
Maintenance of sewers, including cleaning				
and flushing (11.3 miles)	\$4,984	13		
Maintenance of catch basins, cleaning and	1 - 1			
flushing (1,803)	9,556	43		
Maintenance of storm water pump, Med-	2,000	- ()		
ford street	128	93		
ford street	120	00		
catch basins	275	45		
Changing line and grade and repairing	210	10		
manholog	215	04		
manholes	691			
Turnation and location of house during	289			
Inspection and location of house drains.	594			
New tools and supplies	39			
Repairs of tools and property	99	44		
Maintenance of sewer division yards and	625	99		
buildings	023	00		
Sundry expenses, telephone, expressing,		20	•	
etc	30	26		
m 4 4 4 1			Ф1 <i>Р</i> 7 49 <i>Р</i> 7	0.4
Total debit	• •	•	\$17,437	84
CREDIT.			,	
Appropriation	\$18,000	00		
Transfers from other departments and				
accounts (materials and labor fur-				
nished)	93	41		
indicate the contract of the c				
Total credit			\$18,093	41
Balance unexpended (transferred				
to other accounts)			\$655	57
to other accounts, to	-			

						М	ATERIAL.		
STREET	Ward,	Side.	From	To	WIDTH OF				
	waru,				IN FEET.	Gravel and Edge-	GRANOL	ITHIC.	Total Cost.
						stone. Lineal Feet.	Lin. Feet.	Sq. Yards.	
Albion terrace	5	Both	Albion street	Southwesterly	5.00	*194.5			
Ash avenue	5	Westerly	Meacham street	East Albion street	6.67		558.2	377.7	\$573.11
Auburn avenue	4	Both	Cross street	N'thwesterly (where not laid)		*376.5			
Auburn avenue	4	Northeasterly		No. 123 Cross street	5.00	**************************************	94.1	45.7	86.89
Beacon	$\begin{bmatrix} 7 \\ 6 \end{bmatrix}$	Both Southwesterly	Broadway	Hamilton road	6.67	*772.9	••••	54.0	77.22
Boston	3	Easterly	Washington street .	Northerly	7.50	•••••	$\frac{1}{454.8}$	334.2	565.49
Broadway	7	Northerly	Leonard street	Burnham street	11.00		244.9	277.2	407.96
Broadway	7	Northerly	In front of estates	No. 977 to 983	11.00		91.6	105.1	156.89
Carter terrace	3	Circles for	street opening at Summer		6.67	19.2		• • • • • • •	
Cedar	6	Northwesterly	Hall street	Aberdeen road	6.67	129.0	174.6	113.7	335.06
Craigie	$\frac{1}{6}$	Easterly Northwesterly	Washington street . Somer ville avenue .	Southerly	$\begin{array}{c} 5.00 \\ 7.50 \end{array}$	• • • • • •	$\begin{array}{c} 140.8 \\ 195.1 \end{array}$	68.3	$\begin{array}{c} 119.40 \\ 214.07 \end{array}$
Curtis	7	Easterly	Teele avenue	Craigie terrace	6.67	• • • • • • •	168.2	$149.7 \\ 110.1$	157.44
Eliot	2	Northeasterly	Vine street	Park street	6.67		295.0	198.9	341.06
Fountain avenue	1	Both	Glen street	Cross street	5.00	,	1,149.2	561.1	971.76
Gibbens	6	Both	Benton road	Westerly	6.67	*252.4			
Greenville	3	Southerly	Medford street	Boston street	6.67		381.6	324.5	560.99
Hamlet	3	Both	Boston street	Highland avenue	5.00		1.238.2	603.6	$1,055.29 \ 724.52$
Illinois avenue	5 1	Both Both	Broadway	Richardson and Sumner sts. Pennsylvania avenue .	$\frac{5.00}{7.50}$	*804.7	1,003.5	490.5	124.92
Tagues	5	Both	Broadway	Fenwick street	7.50	69.8	1,579.5	1,205.1	1,912.12
Kidder avenue	6	Southwesterly	In front of estates		6.67		99.6	64.2	91.81
Langmaid avenue .	5	Southeasterly	Broadway	Heath street	5.00		350.8	171.5	292.39
Lesley avenue	7	Both	Highland avenue	Lexington avenue	6.67		663.8	447.0	839.37
Line	2	Northeasterly	Washington street .	Cambr'ge line (where not laid)	5.50		1,501.9	813.1	1,218.57
Magnus avenue	$\begin{bmatrix} 7\\2 \end{bmatrix}$	Both	Broadway	Electric avenue	$\frac{6.67}{6.67}$	19.2	770.7	516.1	739.68
Morrison avenue	6	Northeasterly	opening at Washington Highland road	street	8.33	19.2	468.5	393.1	576.08
Morrison avenue	6	Southwesterly	Highland road	Willow avenue	8.33		589.6	499.1	713.71
Mystic avenue	1	Northeasterly	North Union street .	Estate of Price	10.00		260.2	271.2	460.30
Newbury	7	Easterly	Holland street	Newbury Park	6.67	157.1	1,176.7	803.2	1,502.94
North	7	Southeasterly	Broadway	Powder House Boulevard.	6.67	527.5	527.7	358.4	1,058.46
Pearson road	7 7	Northwesterly	Broadway	Powder House Boulevard.	6.67	403.7	$\begin{array}{c} 586.2 \\ 80.2 \end{array}$	$\begin{array}{c} 410.5 \\ 54.8 \end{array}$	$1,092.96 \\ 78.36$
Poplar and Maple sts.	í	Southwesterly In front		estate of Waugh	6.67 5.00		292.3	140.8	242.87
Powder House Roulev'd	7	Northeasterly		No. 189-193 inc.	8.00		123.6	121.4	211.33
Powder House Boulev'd	7	Northeasterly	In front of S. Newton		8.00	8.0 feet gran. walk on 20 ft.	236.3	244.0	442.83
Powder House Boulev'd	7	Northeasterly		estate No. 181	8.00 >	sidewalk with	47.0	45.6	79.62
Powder House Boulev'd Powder House Boulev'd	7	Northeasterly		estate No. 183	8.00	grass plot.	47.0	46.3	$80.62 \\ 107.41$
Powder House terrace	77	Northeasterly		estate No. 249	8.00	1 -	54.4 557.4	$\begin{array}{c} 57.3 \\ 354.5 \end{array}$	514.56
Powder House terrace	7	Easterly	Liberty avenue Powder House Park .	Kidder avenue	6.67		327.9	222.2	317.75
Prospect street	2	Southeasterly	Webster avenue.	Cambridge line	8.33		926.6	786.3	1,292.14
Sacramento	6	Both	Beacon street	Cambridge line	6.67	*223.5			
Simpson avenue	7	Southeasterly	Holland street	Broadway	6.67	•••••	806.9	597.7	873.40
Simpson avenue	7	Northwesterly	near Holland street .	Broadway	6.67	*960 8	696.1	491.1	702.27
Stone place	3	Both	Stone avenue	Southeasterly	5.00	*260.8	332.8	254.1	398.22
Sycamore .	$\begin{array}{c c} 6 \\ 5 \end{array}$	Northwesterly	Porter street	Maine R.R. bridge	$7.50 \\ 8.00$		31.1	25.7	40.44
Teele avenue	7	Southerly	Curtis street	Easterly	6.67		257.1	173.9	248.68
Temple	4	Southeasterly	Sydney street	Mystic avenue	11.00	377.5	365.7	342.0	1,165.59
Victoria	7	Northwesterly	Woodstock street .	Cambridge line	6.67		95.7	64.1	91 66
Victoria	7	Southeasterly	In front of estates		6.67		100.0	$67.8 \\ 492.3$	96.95 703.99
Victoria	7 7	Southeasterly Northwesterly	Broadway	No. 54	6.67		726.3 967.2	$\frac{492.5}{614.2}$	878.31
Victoria	7	Southeasterly	Broadway	estate No. 82.	6.67		41.4	28.1	40.18
Walker	7	Both	Broadway	Leonard street	6.67	*1,390.9			
Ware	7	Both	Curtis street	Russell road	6.67	*1,469.0			
Washington	1	Southerly	In front of	estate No. 80	12.00		27.4	34.7	61.85
Waterhouse	7	Southeasterly	Broadway	Woodstock street	6.67	.,	871.3	$\begin{array}{c} 589.5 \\ 559.3 \end{array}$	842.99 809.15
Willoughby	5	Southeasterly Southwesterly	Jaques street	Mystic avenue Sidewalk already laid .	6.67	,	828.1 237.5	161.0	259.93
		Southwesterry	Sycamore street	Sidewark arready laid .	0.01		101.0	10110	
						- 120	02.042	10 20	207 ING 61
						7,448.2	23,842.3	16,335.5	\$27,426.64
					<u> </u>				
			Tutal -	ggggment \$19.610.74	No	t cost to city: \$1J	815.00		

Total assessment, \$12,610.74.

Net cost to city, \$14,815.90.

Amount of edgestone, brick, granolithic and tar in front of private estates.

Totals . . Gravel sidewalks, 1.240 miles. Brick sidewalks, 0.783 miles. Granolithic sidewalks, 2.526 miles.



value of tools and property on hand used in maintenance

of sewers, \$2,000.00.

A permanent force of men and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins, etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumps.

About 7,260 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of \$1.32 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to \$130.64. There are about twenty catch basins (average) to a mile of roadway in this city and the average cost of cleaning per basin is about \$5.30 a year.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of im-

proving the system.

Many catch basins and manholes have been repaired and

grade or line changed.

Three hundred and ninety permits have been issued to licensed drain layers for connecting buildings with the main sewers, sixty-five being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

At the present time there are eight persons licensed as drain layers by the city and under bonds, for the purpose of

laying these private drains.

There are to date about 16,292 private house drain con-

nections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies, where alterations and new construction work have been required, furnishing materials and labor, and being reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

PARKS AND PLAYGROUNDS DIVISION.

At the present time there are twenty separate parcels of land located in the various parts of the city and containing about seventy-five acres, which are maintained as parks and playgrounds; also the care of about one and one-third miles of boulevard is under this division. Five of these pleasure parks are famous historically. Included in this total area are playgrounds where the land is owned by private parties, and leased to the city for use in the following localities; on

Fellsway, east, 2.5 acres; Knowlton street, 1.5 acres; Tufts College land, 4.8 acres, and the city also maintains the cemetery on Somerville avenue, containing 0.7 acre. Satisfactory arrangements have been made during the past year whereby the city has the use of Tufts College playfield during the summer vacation months, and "the artificial" during the skating season.

This area of parks and playgrounds completely developed will compare favorably with other cities, Somerville being very small in area and the most densely populated city in the state, averaging about 22,000 in population to a square

mile. (Approximately 34 per acre.)

There are eight baseball "diamonds" and three football fields in use and under the city's supervision, as well as numerous smaller playgrounds, on which are located an outdoor gymnasium, running track, tennis courts, and various kinds of athletic apparatus for recreation and rest, where children can play and enjoy themselves and are safe from the dangers of a thickly settled city. These areas are constantly in use by the many athletic teams, the games being arranged for and regularly scheduled on the various grounds throughout the season; and have been policed by regular officers from the police department, when required.

Trees and shrubs have been added on the various grounds, a Christmas tree planted on Central Hill Park, bulbs, plants, and flowers furnished in their seasons, and during the winter time, ponds and artificial areas flooded for skating when the

weather was favorable.

Tennis courts have been maintained at Mason street playground, Broadway park, Central Hill park, and Somerville

field and used continually throughout the season.

At Lincoln park one of the ball fields has been partially regraded, and the wading pool maintained during the hot weather being a source of much enjoyment to a very large number of children in the immediate vicinity. At Somerville field additional bubbler drinking fountains have been installed and an area laid out for playing girls' hockey has been used considerably. An appropriation has been made for the construction of one unit of a permanent field house; this building is to be a modern concrete structure equipped with shower baths, lavatories, dressing rooms, lockers, etc., and should be completed the coming year.

Somerville field has proven to be very popular with the various clubs and athletic teams in our city, and a number of outside school teams and associations have had the use of this field, the city receiving a small income each year. The centre sections of the grand-stand should be provided with a covering for the convenience of the public. Some progress has been made in the development of the large ungraded portion

of the field, and an appropriation should be made annually for this purpose and when the entire area is laid out and completed as originally designed Somerville will have one of the finest recreation fields owned by any city. In the 1910 report a plan was published showing the proposed laying out.

The city has become so densely populated that portions of some of the larger park areas should be utilized for public recreation and physical training purposes; on several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained for the

young men and women working in the factories daily.

Five hundred and fourteen and six-tenths square yards of granolithic sidewalks have been constructed in sections of Powder House boulevard during the past year as petitioned

for by the abutting property owners.

The northerly end of this city boulevard from near North street, a length of about 2,300 feet, has been taken over by the Metropolitan Park Commission, and connecting therewith the new Alewife Brook parkway has been constructed by the state along the Somerville side of the brook extending to Massachusetts avenue in Cambridge and making a continuous state roadway connecting with the Mystic Valley parkway.

Paul Revere park area should be enlarged by acquiring additional land, constructing a street across from Main street to Broadway separating the city's park from the adjoining land, and thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connec-

tion for travel.

An old ledge property owned by the city, located on Clarendon Hill, near the Cambridge boundary line, might be developed in the future into a pretty pleasure park, similar in nature to the Powder House park; also the Holland street ledge property, owned by the city and situated in West Somerville, could be developed by laying out a portion of the area for a connecting street with house lots on one side and the remainder for a children's playground.

There are a number of vacant lots in the city owned by private parties, large enough for the purpose of establishing recreation grounds and breathing spaces, which undoubtedly could be obtained for short-term leases by payment of the taxes to the owner of the property, and be of great benefit

to a large number in the congested parts of the city.

With all these various parcels of land, referred to, properly developed in the future as parks, playgrounds, and resting places, the city will be amply provided for in this line.

The Playgrounds Association has continued its good work in the city, and funds contributed by citizens and a sum appropriated by the city for the special equipment of grounds and supervision of playfields during the summer months have been expended under the direction of the superintendent of schools.

Certain areas (about thirty acres) were used in the city's parks, playgrounds, and school yards which have been equipped with swings, sand boxes, and various kinds of gymnastic apparatus, and supervisors were employed during the months of July and August. Many children enjoyed themselves at these outdoor kindergarten schools, while the larger boys were instructed in baseball, basket ball and other games, and in the use of gymnastic apparatus; athletic competitions were held between the various teams and interesting exhibitions were given at the close of the summer work.

Probably still better results in this city could be obtained by establishing a system with a permanent director of athletics and gymnastics, who would have charge and instruct in every form of athletics and recreation; including all sports and games for the high schools, grammar schools, and all

others using the city's playfields and buildings.

The city's assessment for Metropolitan parks and boulevards for the year 1916 amounted to \$11,494.45 on construction account, \$28,764.62 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 \$6,616.78; for the improvement of Alewife brook and maintenance of same \$1,255.23 and for the maintenance of Wellington bridge across Mystic river, \$3,087.49. The total of these assessments amounts to \$51,218.57, being Somerville's proportional payment to the state on account of the Metropolitan park system for the year 1916.

The total assessment paid to the state for parks and boulevards amounts to \$592,841.70, January 1, 1917, and the length of state boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city and extending between Broadway and Mystic river, and one and three-tenths miles bordering Mystic river and Alewife brook located in the westerly

part of the city.

PARKS AND PLAYGROUNDS.

Maintenance Account.

Statement of Expenses, 1916.

(Playgro	und	ls) Broadway Park (15.9 acres):—	(Parks)
		Maintenance of grounds, pond and gen-	
\$247	11	eral care of property, labor and teams	\$1,045 16
1.0		Removing brown tail and gypsy moths	73 75
10	35	Supplies and repairs of tools, etc	73 64 $206 00$
		Plants, flowers, bulbs, etc	200 00
\$257	46		\$1,398 55
		Broadway Parkway (2.0 acres):-	
		Maintenance of grounds, labor and	
		teams	\$68 56
		Plants, flowers, etc	100 00
			\$168 56
		Central Hill Park (13.1 acres):-	4200 00
		Maintenance of grounds and general	
\$100	39	care of property, labor and teams .	\$1,874 43
	•	Removing brown tail and gypsy moths.	21 00
2	60	Supplies and repairs of tools, etc.	46 39
		Trees, plants, flowers, bulbs, shrubs, etc. Repairing fountain, steps, etc	$\begin{array}{c} 425 \ 20 \\ 106 \ 15 \end{array}$
108	53	Constructing running track	100 15
\$211	52		\$2,473 17
		Lincoln Park (8.3 acres):-	
Albania a	4.5	Maintenance of grounds and general	4074.00
\$754	18	care of property, labor and teams.	\$874 26
125	00	Removing brown tail and gypsy moths. Supplies and repairs of tools, etc	12 00 125 40
120	0.9	Repairing fountain, steps, etc	65 38
		repairing realition, etops, etc.	
\$879	27		\$1,077 04
		Prospect Hill Park (2.6 acres):-	
		Maintenance of grounds and observa-	4004 40
\$44	15	tion tower, labor and teams	\$891 68
\$0	60	Removing brown tail and gypsy moths. Supplies and repairs of tools, etc	13 25 72 20
φυ		Supplies and repairs of tools, etc	12 20
\$44	75		\$977 13
		Tuits Park (4.5 acres):—	
		Maintenance of grounds and Old Powder	
\$4	70	house, labor and teams	\$654 24
		Removing brown tail and gypsy moths.	49 00
		Supplies and repairs of tools, etc	33 21
		Plants, flowers, bulbs, etc	270 10
\$4	70		\$1,006 55
7.		Paul Revere Park (.02 acre):-	. ,
		Maintenance of grounds, labor	\$13 19
		Plants, bulbs, etc	30 15
1			
1: 1.		the second secon	\$43 3 4

(Playground		(Parks)
	Belmont Street Park (0.4 acre):— Maintenance of grounds, labor and teams	\$294 14 3 20 128 65
	•	\$425 99
	Powder House Boulevard (1 1-3 miles long): Maintenance of roadway, walks and grass plots, labor and teams Resurfacing and repairing roadway	\$449 80 928 46
		\$1,378 26
	Powder House Square Parkway (0.2 acre):— Maintenance of area between streets, labor	\$25 34
4	Maintenance of grounds, labor and teams	\$74 87
0	Somerville Field at Alewife Brook (11.5 acre	•
\$456 62	Maintenance of field and care of property, labor and teams	\$356 13
27 70	Supplies and repairs of tools, etc Repairing seats, fence, etc	25 83 162 04
50 41	New drinking fountain	
\$534 73		\$544 00
	Playground, Cedar street and Broadway, (4.3 acres):—	
\$383 28 75 45	Maintenance of grounds, labor and teams	\$77 26 9 68
\$458 73	-	\$86 94
\$249 10 37 41	Playground, Glen street and Oliver street, (0.9 acre + 1.5 acres leased):— Maintenance of grounds, labor and teams	
\$286 51	Dt 1 17 1 1 C 211	
\$131 59 27 82	Playground, Kent street and Somerville avenue (0.8 acre):— Maintenance of grounds, labor and teams	\$52 85 16 00 86
\$159 41		\$69 71
\$5 22	Playground, Poplar street and Joy street, (0.5 acre):— Maintenance of grounds, labor and teams	\$2 94
\$24 41	teams	\$9 36 12 0 0
\$24 41		\$21 36

(Playground	Playground, Webster avenue, near Cam-	(Parks)
\$27 66	bridge line (0.2 acre):— Maintenance of grounds, labor and teams	\$25 11
	Playground, Mason street and Broadway (0.3 acre):—	
\$132 29	Maintenance of grounds, labor and	
55 27	Supplies and repairs of tools, etc.	
\$187 56		- 1
	Playground, Fellsway East (2.5 acres leased):—	
\$64 55	Maintenance of grounds, labor and teams	
13 82	Supplies and repairs of tools, etc.	
\$78 37		
	"Tufts Oval" (Summer Playground) Tufts College Land:—	
\$40 O9	Maintenance of grounds, labor and	* ['
\$48 83 1 30	teams	
\$50 13		
	"Artificial" (Skating area) Tufts College Land:—	
\$184 18	Maintenance of area, labor and teams.	+
29 80	Fencing hockey rink	
\$213 98	Total expenditure, maintenance (75 acres)	
	65.5 acres city property + 8.8 acres leased land, 0.7 acre cemetery and 1 1-3	
¢9.49.1.41	miles boulevard, and 0.54 mile park-	\$0.700.06
\$3,424 41	way roads	\$9,798 86
Playgrounds	CREDII.	n t
and Recreation		Parks
\$3,500 00	Appropriation for parks Appropriation for playgrounds	\$10,000 00
\$75 59	Balance unexpended (transferred to other accounts)	\$201 14

APPENDED TABLE.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,
ERNEST W. BAILEY,
City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

Street.	From	To	Public or	Width in	Len	GTH.
SIREEI.	r ROM		Private.	Feet.	Public.	Privat
bdell	Somerville ave	Southwesterly	Private.	25		20
berdeen road .	Cedar st	Highland ave	Public.	40	449	
berdeen road ext.	Angle	Westerly	Private. Public.	30 40		•
cadia pk	Broadway	Medford st	Public.	40	256 907	• • •
ddison pl.	Somerville ave	Southwesterly	Private.	20		18
delaide rd	Somerville ave	Northeasterly	Private.	20		13
drian	Marion st	Joseph st	Public.	40	579	
lbion pl	Albion st	Northeasterly	Private.	10	• • • • •	1
lbion ct lbion	Albion st	Southwesterly Cedar st	Private. Public.	16 40	2,742	1
lbion	Broadway	Medford line	Private.	50	2,142	i
lbion ter	Albion st	Southwesterly	Public.	25	100	
ldersey	Walnut st	Vinal ave	Public.	40	508	
ldrich	Pearl st	B. & L. R. R	Public.	40	611	
lewifeBrookpkwy	Mystic Val. pkwy	Cambridge line .	Public.		4,775	
fred	Broadway	Medford line	Private.	50 25	••••	
len len ct	Somerville ave Park st	Charlestown st Northwesterly	Private. Private.	$\frac{25}{20}$	••••	6
lpine	Park st Cedar st	Southeasterly	Public.	30	667	1
pine	Alpine st	Lowell st	Public.	40	688	
ston	Cross st	Shawmut st	Public.	40-30	757	
mes	Bartlett st	Robinson st	Public.	40	580	
opleton	Willow ave	Clifton st	Public.	40	548	
opleton	Clifton st	Liberty ave	Public.	40	120	
lington	Franklin st	Lincolu st	Public.	40	452	
mold ave mold ct	Porter st Beacon st	Southeasterly Northeasterly	Private. Private.	15 10		1
thur ct	Linden st.	Easterly	Private.	about 10	1	1
thur	Broadway	Bonair st	Public.	40	438	
sh ave.	Meacham st	East Albion st	Public.	40	554	
shave	East Albion st	Northeasterly	Private.	40		1
shland	Summer st	Sartwell ave	Public.	30	478	
herton	Central st	Spring st	Public.	40	741	
iburn ave	Cross st	B. & L. R. R	Public.	30 40	606	
ıstin	Broadway Broadway	Mystic ave Bonair st	Public. Public.	20	716 408	
von	School st	Central st	Public.	40	1,360	
von pl.	Cros's st	B. & L. R. R	Private.	25		1
ailey	North st	West Adams st	Private.	40		4
inks	Elm st	Summer st	Public.	40	639	
irtlett	Vernou st	Broadway	Public.	40	1,550	
rton	Broadway	Hamilton road	Public. Public.	40 40	382 1,237	• •
y State ave	Broadway Webster ave	Fosket st Columbia st	Private.	about 20		
acon pl	Beacon st	Northeasterly	Private.	15		
acon	Cambridge line .	Somerville ave.	Public.	66	6,007	
acon ter.	Somerville ave	Northeasterly	Private.	24		
an ter.	Cutter st	Southeasterly	Private.	16		1
ckwith circle .	Beacon st	Southwesterly	Private.	28.5	100	:
dford	South st	Cambridge line .	Public.	30 40	165	
ech	Somerville ave Broadway	Atherton st	Public. Public.	40	449	
lknap llevue ter	Albion st	Northeasterly	Private.	20	113	
lmont	Somerville ave.	Highland ave	Public.	40	2,192	
lmont pl	Belmont st	Southeasterly	Public.	25	177	
elmont sq	Belmont st	Southeasterly	Private.	30		
lmont sq	Belmont ter	No'es'ly & so'ws'ly	Private.	20		
lmont ter	Belmont st	Easterly	Private.	15 20		1
nedict ave nedict	Broadway Union st	Benedict st	Private. Public.	40	585	2
nedict	Bennett st	Austin st	Private.	10	300	';
nnett	Prospect st	Bennett ct	Private.	40 to 25		
enton road	Summer st.	Hudson st.	Public.	40	1,208	
rkeley	School st	Central st.	Public.	40	1,360	
erwick	Hinckley st	Northwesterly	Private.	20		1
gelow	Boston st	Munroe st	Public.	50 40	208 563	
llingham		William st	Public.			

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street.	From	To	Public	Width	LEN	gтн.
			Private.	Feet.	Public.	Private.
Bishop's pl	Glen st	Easterly	Private.	10		75
Blakeley ave Bleachery ct	Fellsway east . Somerville ave	Cross st Fitchburg R. R	Private.	30		630 450
Bolton	Oak st	Houghton st	Public.	40	476	
Bonair	Cross st	Walnut st	Public.	40	1,535	• • • • •
Bonner ave	Broadway Washington st	Jaques st Columbus ave	Public.	40	655	
Boston ave	Medford line .	Mystic river	Public.	60	915	• • • • •
Boston ave	Broadway Broadway	Medford line Highland road	Public.	50 65	$\begin{array}{c c} 80 \\ 287 \end{array}$	• • • •
Boston ave	Highland road .	Prichard ave	Public.	50	509	
Boston ave	Prichard ave	Easterly to angle in st.	Private.	50		146
Boston ave	Angle in st. south'ly Kidder ave	Kidder ave	Private. Public.	40	649	376
Boston	Washington st	Prospect Hill ave.	Public.	45	640	• • • •
Boston	Prospect Hill av.	Walnut st	Public.	40	1,242	••••
Bow	Union sq Wesley sq	Wesley sq Somerville ave	Public. Public.	60 50	658 570	••••
Bowdoin	Washington st	Lincoln park	Public.	40	341	• • • •
Bowers ave	Cottage ave	Elm st	Private.	24	• • • •	288
Bow St. pl Bradford ave	Bow st	Northwesterly Southeasterly	Private. Private.	40		300 150
Bradley · · ·	Pearl st	Walter st	Public.	40	762	•••
Braemore road .	Broadway	Medford line	Private.	40		9
Brastowave	Lowell st Broadway	Porter st	Public. Public.	40	686 146	
Broadway	Charlestown line	Cross st	Public.	100	2,590	••••
Broadway	Cross st	Marshall st	Public.	100 to 200	2,060	••••
Broadway	Marshall st Main st	Main st Top of hill	Public. Public.	100 100 to 90	1,570 1,030	• • • •
Broadway	Top of hill	Albion st	Public.	90	2,540	• • • •
Broadway	Albion st	Willow ave	Public.	90 to 70 70	1,030	••••
Broadway	Willow ave Paulina st	Paulina st	Public. Public.	65-60-65	$\begin{array}{c c} 3,250 \\ 3,220 \end{array}$	
Broadway pl	Broadway	Southwesterly	Private.	22		250
Brook	Warner st Glen st	Dearborn road . Cross st	Public. Public.	40 40	1,262 504	•• •
Browning road .	Sycamore st	Central st.	Public.	40	679	• • • •
Buckingham	Beacon st	Dimick st	Public.	40	292	
Buena Vista rd	Holland st Broadway	Southwesterly Powder House Blvd.	Private. Public.	35 40	543	276
Burnside ave.	Elm st	Summer st	Public.	40	720	••••
Cady ave Caldwell ave	Simpson ave Washington st	Northwesterly Southerly	Private. Private.	40 20		203 210
Calvin	Beacon st	Dimick st	Public.	40	263	
Calvin	Dimick st Central st	Washington st Benton road	Public. Public.	30 40	392 488	• • • •
Cambria Cameron ave	Holland st.	Cambridge line	Public.	60	1,065	• • • •
Campbell pk	Meacham rd	Kingston st	Public.	40	399	
Campbell Pk. pl.	Kingston st Somerville ave	Arlington Br. R.R. Lake st	Private. Public.	20 40	300	84
Carter terrace	Summer st	Southwesterly	Private.	40		214
Carver	Porter st	Northwesterly	Private.	40		156
Cedar ave Cedar ct	Cedar st Cedar st	Linden ave	Private.	22 15+		290 70+
Cedar St. pl	Murdock st	Southwesterly]	Private.	20		378
Cedar St. pl	Cedarn'r Elmst.	Southeasterly	Private.	12+	4.107	80+
Cedar	Elm st	Broadway E'ly and N'ly	Public. Private.	40	4,137	223
Central road	Central road	Sycamore st	Private.	30-15		220
Central	Somerville ave Summer st	Summer st	Public.	33 40	1,043	••••
Central	Medford st	Medford st Broadway	Public. Public.	40	2,539 1,079	• • • •
Centre	Albion st	B. & L. R. R	Private.	35		200
Chandler	Park ave College ave	Broadway	Public.	40	1,232	••••
Chapel Chapel ct	Sycamore st	Northwesterly	Private.	12	273	130
Charles	Washington st	Southerly	Public.	311	166	

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	Priva	te Streets.—Col	itinuea.			
STREET.	From	То	Public or	Width	LENGTH.	
SIRBI.	r row	10	Private.	Feet.	Public.	Private.
Charlestown	Allen st	Easterly	Private.	15	500	400
*Chelsea	Willow ave Mystic ave	Hancock st Melrose st	Public. Private.	40 50	589	1,390
Cherry	Elm st.	Highland ave	Public.	45	1,450	1,000
Cherry	Highland ave	Northeasterly	Private.	45		110
Chester	Elm st	Cambridge line .	Public.	40	885	••••
Chester ave	Medford st Angle	Angle	Public.	about 22 20	220 451	• • • • •
Chester ave Chester pl	Chester st.	Cross st	Public. Private.	40	701	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 Claremon	Broadway Holland st	Cedar st	Private. Public.	45 40	560	980
Clarendon ave.	Broadway	Mead st	Public.	40	1,217	
Clark	Newton st	Lincoln parkway .	Public.	35	552	
Cleveland	Central st	Harvard st	Public.	40	459	
Clifton	Appleton st	Morrison ave.	Public.	40	200	
Clifton	Morrison ave	Arlington Br. R.R.	Private. Public.	40 30	664	220
Clyde College ave	Cedar st	Murdock st Medford line	Public.	60	4,080	
College Cir		und to College ave.	Private.	10 and 12		284
College Hill road.	Conwell ave	North st	Private.	40	••••	449
Columbia	Webster ave.	Cambridge line .	Public.	40	816	
Columbia ct Columbus ave	Columbia st Washington st	Webster ave	Private. Public.	40	1.425	150
Concord ave	Prospect st	Walnut 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.	$\begin{array}{c} 20 \\ 40 \end{array}$	••••	200 487
Connecticut ave	Mystic ave Curtis st	Pennsylvania ave. North st	Private. Public.	40	1,346	201
Conwell	Highland ave.	Southwesterly	Public.	35	363	
Cooney	Beacon st	Line st	Private.	30		220
Corinthian road .	Broadway	Cady ave	Private.	40 40		560
Cottage ave Cottage circle .	Russell st Cottage ave	Chester st	Public. Private.	25	550	87
Cottage pl	Washington st	Southwesterly Northwesterly	Private.	about 11		150
Craigie	Somerville ave	Summer st	Public.	50	1,280	
Craigie ter	16 Craigie st	Westerly	Private.	$\begin{array}{c} 25 \\ 30 \end{array}$	• • • • •	126
Crescent	Washington st Hadley st	Hadley	Private.	30	174	402
Crocker	Hadley st Highland ave	Pearl st	Public. 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 30	••••	150 700
Crown	Porter st Fellsway	Lowell st Middlesex ave	Private. 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 40	480	170
Cutter ave Cutter pk	Summer st Cutter ave	Highland ave	Public. Private.	12	480	83
Cutter pk	Broadway	Northwesterly	Public.	40	730	
Cypress	Central st	Beech st	Public.	40	262	••••
	Panai		D., 1-1!	40	696	
Dana Dane	Bonair st Somerville ave	Pearl st	Public.	40 40	1,341	••••
Dane ave	Dane st	Washington 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 50	908 469	• • • • •
Dearborn road . Delaware	Boston ave Aldrich st	College ave	Public.	40	451	
Dell	Glen st.	Pearl st Tufts st	Public.	40	466	
Derby	Temple st	Wheatland st	Public.	40	1,031	
Dexter	Broadway	Medford line	Private.	50	770	25
Dickinson	Springfield st	Beacon st	Public.	40 40	770	271
Dickson Dimick	Broadway	Fairmount ave	Private.	40	957	
Dix pl	Linwood st	Southwesterly	Private.	10		100
Douglas ave	Edgar ave	Southeasterly	Private.	30		162
			1			

^{*}Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	1 mat	e Streets.—Con	tillaca.			
			Public	Width	LEN	GТН.
STREET.	From	То	or Private.	in Feet.	Public.	Private
		1	1	1	1	
Dover	Elm st	Cambridge line .	Public.	40	975	
Dow	PowderHouseBd.		Private.	40		257
Downer pl	Downer st	B. & L. R. R	Private.	20		125
Downer Dresden circle .	Nashua st Cutter ave	Southeasterly Westerly	Private. Private.	20 30	• • • • •	120 133
Durant	Washington st.	Southerly	Private.	20		$\frac{100}{200}$
Durham	Beacon st	Hanson st	Public.	40	423	
Dynamo	Willow ave	Whipple st	Private.	30		255
Earle	South st	Fitchburg R. R.	Private.	30		322
East Albion	Mt. Vernon ave.	E. of Moreland st.	Private.	25	• • • •	188
East Albion Eastman road	E. of Morelandst.	Medford line Southwesterly	Private. Public.	40 40	296	490
Edgar ave	Highland ave Main st	Meacham st	Private.	50	250	800
Edgemere st		112000111111111111111111111111111111111	11111101			
(Magnus ave.)	Washington st	Southerly	Private.	40		509
*Edgeworth	Mystic ave	Melrose st	Private.	50	270	1,380
Edmands Edmonton ave	Broadway	near Bonair st Fellsway east	Public. Private.	$\begin{array}{c c} 40 \\ 40 \end{array}$	376	630
Electric ave	Cross 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 18	230	70
Elm ct Elm pl	Villa ave Harvard st	Northwesterly Westerly	Private. 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	Beech st	Public. Public.	60 to 77.5 77.5 to 60	290 570	•• •
Elm	Tenney st	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 Endicott ave	Everett st Broadway	Newton st	Private. Private.	30 40		170 800
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	1 200	350
Evergreen ave Evergreen sq	Marshall st Porter st	Sycamore st	Public. Private.	$\begin{array}{c c} 40 \\ 22 \end{array}$	1,320	179
Exchange pl	Washington st	Southerly	Private.	4.5	:::.	70
*Fairfax st Fairlee	North st	Powder House Blvd Northwesterly	Private. Public.	40 30	144	915
Fairlee	Curtis st	Northwesterly	Public.	40	679	
Fairview ter	Sycamore st	Southwesterly	Private.	15		173
Farragut ave	Broadway	Woodstock st.(Ext'n)	Public.	40	905	
†Fellsway	Mystic ave	Mystic river	Public.	70 to 130	2,500	• • • •
†Fellsway east . (Winthrop ave.)	Broadway	Mystic ave	Public.	50	1,222	
†Fellsway west .	Diodundy	in your ave	I done.		1,222	••••
(Chauncey ave.)	Broadway	Mystic ave	Public.	50	1,324	
Fenwick	Broadway	Jaques st.	Public.	40	601	• • • •
Fisk ave	Hinckley st	Lowell st	Public.	$\begin{array}{c c} 20 \\ 10 \end{array}$	484	90K
Fitchburg ct	Fitchburg st Linwood st	Southeasterly B. & L. R. R	Private. Private.	40	- : : :	225 400
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	117	90
Forest	Beacon st Sycamore st	Cambridge line . Central st	Public. Private.	30	117	430
Fosket	Willow ave	Liberty ave.	Public.	40	668	100
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	••••
* Proposed.						

^{*} Proposed.
† Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

			Public	Width	Length.	
STREET.	FROM	То	or Private.	in Feet.	Public.	Private.
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 Fremont	Main st	Near E. Albion st. Mystic ave	Public. Private.	40 40	1,11 2	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 Cityof Camb.	Public.	40	460	200
Garrison ave		Woodstock st.(Ext'n)	Private. Public.	40 30	275	390
Gibbens	Broadway Central st	Lincoln ave Benton road, 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	0 272	124
Glen	Broadway	Tufts st	Public.	40	2,373	
Glendale ave	Cameron ave	Yorktown st	Public. Public.	40 40	1,524	
Glover circle	Meacham road .	Broadway	Private.	20	1,021	110
*Gordon st	North st	Powder House Blvd		40		1,245
Gorham	Holland st	Howard st	Public.	40	763	·
Gould ave	Porter st	Southeasterly	Private.	16	• • • •	150
Gove ct	Cedar st	Southeasterly	Private.	15		140
Grand View ave.	Walnut st	Vinal ave	Public.	40	542	
Granite	Somerville ave.	Osgood st	Public.	40	1,405	••••
Grant Greene	Broadway Summer st	Mystic ave	Public. Public.	40	555	
Greenville	Medford st	Laurel st	Public.	40	660	
Greenville ter.	Greenville st.	Northerly	Private.	20		250
Greenwood ter	Beacon st	Northeasterly	Private.	25		16
Gritter way Grove	College ave Elm st	Bromfield rd Morrison ave	Private. Public.	4 40	996	160
		Willison ave				
Hadley ct	Franklin st	Westerly	Private.	16	000	9
Hall ave	College ave	Liberty ave	Public.	40	926	• • • •
Hall	Cedar st	Cherry st	Public.	30	456 616	• • • • • • • • • • • • • • • • • • • •
Hamlet	Highland ave Russell road	Boston st.	Public.	40	560	
Hammond	Dickinson st.	North st	Public.	40	267	:::
Hancock	Elm st	Concord ave	Public.	40	1,349	
Hancock	Highland ave	Lexington ave.	Public.	50	376	
Hanson ave	Hanson st	Easterly	Private.	30		25
Hanson	Washington st	Skehan st	Public.	30	469	
Hanson	Skehan st	Vine st	Public.	35	347	
Hardan road	Powder House Bd.		Private.	20 and 40 30	465	28
Harding Harold	North of Ward st. Dimick st	0	Public.	40	316	
Harrison	Ivaloo st	Marion st Kent st	Public.	40	644	
Harrison	Elmwood st.	Southeasterly	Private.	40		21
Harvard pl	Harvard st	Westerly	Private.	35	*1:1	20
Harvard	Summer st	Beech st	Public.	40	717	
Hathorn	Broadway	Arlington st	Public.	40	339	
Hawkins	Somerville ave	Washington st	Public.	40 30	330 807	• • • •
Hawthorne	Willow ave	Cutter ave	Public.	20		12
Hayden ter Heath	Linden ave Temple st	Easterly	Private. Public.	45	1,043	1
Heath Heath	Bond st.	Bond st	Public.	40	754	
Henderson	Richardson st.	B. & L. R. R.	Public.	20	569	
Hennessy ct	Medford st	Fisk ave.	Private.	20	••••	25
Henrietta ct	Somerville ave	Northerly	Private.	8 and 20.		16
Henry ave	Highland ave	Lexington ave	Public.	40	290	
Herbert	Chester st	Day st	Public.	40	337	23
Hersey	Berkeley st	Oxford st	Private.	16		14
Higgins ct	Mt. Vernon st	Westerly	Private.	40		67
High.	North st	Powder House Bd.	Private.	60	9,135	
Highland ave			. FIIIIII.			
Highland ave Highland p'th, east		Davis sq	Private.	10		10

Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	Privat	e Streets.—Con	illinuea.			
STREET.	From	То	Public	Width in	Len	GTH.
SIREEI.	FROM		or Private.	Feet.	Public.	Private.
†Highland road .	Morrison ave	Boston ave	Public.	30(70 wide)		
Hill	Broadway Conwell ave	Fairmount ave Sunset rd	Public. Private.	40 40	284	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 Hodgdon pl	Broadway Dane ave	B. & L. R. R Northeasterly	Public. Private.	30 and 35 about 20	1,081	150
Holland	Davis sq	Broadway	Public.	60	2,696	
Holt's ave	Oak st	Southeasterly	Private.	10		100
Holyoke road	Elm st. around to		Public.	40	$\frac{637}{200}$	
Homer sq Horace	Bonner ave South St	Northwesterly	Public. Public.	30+	$\frac{200}{222}$	
Horace	Ward st	Fitchburg R. R.	Private.	30		265
Houghton	Springfield st	Cambridge line	Public.	40	653	
Howard Howe	Thorndike st Marshall st	Gorham street	Public.	40	431 445	
Hudson	Central st	Cedar st	Public.	40	2,760	
Hunting	South st	Cambridge line .	Private.	30	••••	125
Ibbetson	Somerville ave.	Lowell st	Public.	40 `	802	
Illinois ave	Broadway	Pennsylvania ave.	Public.	40	427	• • • •
Indiana ave Irving	Broadway Holland st	Pennsylvania ave. Broadway	Public. Public.	40 40	384 1,180	• • • •
Irving 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	Bond st	Public. Private.	45 40	1,005	378
Jaques Jasper pl	Walnut st	Edgar ave	Private.	20	••••	80
Jasper	Pearl st	Gilman st	Public.	40	283	
Jay	Holland st	Howard st	Public.	40	534	150
Jerome ct Jerome	Sycamore st Montrose st	Jerome st Jerome ct	Private. Private.	$\begin{array}{c c} & 10 \\ 20 \end{array}$		150 125
Jerome	Lawrence rd.	Mystic Valley Park'y	Private.	40		495
Joseph	Newton st	Lincoln parkway .	Public.	40	458	
Josephine ave	Morrison ave	Broadway	Public.	45	1,718	
Joy Joy St. pl	Washington st Joy st	Poplar st Southwesterly	Public. Private.	30 30	1,121	175
Kenneson road .	Broadway	Walnut road	Private.	30		338
Kensington ave	Broadway	Blakeley ave	Public.	40	455	4.450
*Kensington ave. Kent ct.	Blakeley ave Kent st	Middlesex ave Northerly	Private. Private.	40 about 25	••••	1,150 420
Kent ct Kent	Somerville ave	Northerly Fitchburg R. R	Public.	40	292	120
Kent	Fitchburg R. R.	Beacon st	Public.	25	386	••••
Kenwood	College ave	Billingham st	Public.	40	$\frac{322}{2,554}$	
Kidder ave Kilby	College ave Somerville ave	Boston ave Southwesterly	Public. Private.	$\frac{40}{20}$	2,554	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.	$\begin{array}{c} 25 \\ 40 \end{array}$	647	400
Kingston Knapp	Meacham road . School st	Cambridge line Granite st	Public. Public.	40	379	
Knowlton	Tufts st	N'E'y line Est. 37	Public.	40	461	
Knowlton	End of above	Oliver st	Private.	40	• • • •	464
Lake	Hawkins st	Church st	Public.	40	840	970
Lamson ct Landers	Linwood st School st	Poplar st Westerly	Private. Public.	$\begin{array}{c c} 20 \\ 40 \end{array}$	228	370
Langmaid ave.	Broadway	Heath st.	Public.	30	353	••••
Latin way	Talbot ave	Professors row	Private.	60		250
Laurel ave	Laurel st	Northwesterly	Private.	18 40	083	125
Laurel Lawrence road .	Medford line	Summer st	Public. Private.	40	983	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	

^{*}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.

Leon							
Leon	Sanna	From	To			LEN	GTH.
Leonard pl. Joy st. Northeasterly Private. 13+ 13+ 13+ 14- 1	SIRBEI.	I ROM	10			Public.	Private.
Leonard	Leon		Dickinson st	Public.	40	155	
Leslie pl. Highland ave. Lexington ave. Public. 40 333 1.	Leonard pl						98
Lestie pl. Highland ave. Lester ter. Meacham road Northwesterly Private. 20 190 190 120							• • • •
Lestington ave Willow ave Hancock st. Public 50 624 147							
Lexington ave. Hancock st. Public. 50 624 124 124 125 126 126 126 127 126							
Lexington ave							-
Lexington ave. Angle Cedar st. Public. 40		Hancock st			45 to 40		
Liberty rd. Morrison ave. Liberty ave. Private. 16	Lexington ave						
Lincoln parkway Lincoln st. Lincoln parkway Lincoln parkway Lincoln parkway Lincoln ave. Linden ave. Linden ave. Summer st. Public. 40 550 20 Linden ave. Linden ave. Southeasterly Private. 45 Linden ave. Linden ave. Southeasterly Private. 24 Linden ave. Linden ave. Southeasterly Private. 24 Linden ave. Linden ave. Southeasterly Private. 20 Linden ave. Linwood st. Cambridge line Public. 33 Linden ave. Linwood st. Linwood st. Linwood st. Cambridge line Public. 33 Linden ave. Linwood st. Cambridge line Public. Linwood st. Linwood st. Cambridge line Public. Linwood st. Linwood							
Lincoln parkway Lincoln ave Perry st Public 40 1,520 120 1500 1500 120 1500							ž.
Lincoln pl. Lincoln ave. Northerly Private. 9 120 Linden ave. Elm st. Summer st. Public. 45 1,083 Linden ave. Summer st. Public. 45 1,083 Linden ave. Linwood st. Londen Linw							
Lincoln Broadway Perkins st. Public 40 550							
Linden ave. Summer st. Public. 45 1,083 1,084 1,084 1,085 1,							_
Linden Linden ave. Linden ave. Northwesterly Private. 20		Elm st	Summer st	Public.	45	1,083	
Linden pl. Linden ave. Northwesterly Private. 20 33 587						• • • •	250
Linden							120
Line							
Linehan ct. Linwood st. Chestnus st. Private. about 12 200 150							
Linwood st. Somerville ave. Washington st. Public. Somerville ave. Westerly Private. 13 90 Washington st. Public. 40 1,247 10 Westerly Private. 13 90 Washington st. Public. 40 1,247 10 Westerly Private. 14 Westerly Private. 15 Westerly Private. 15 Westerly Private. 16 Westerly Private. 17 Westerly Private. 17 Westerly Private. 18 Westerly Westerly Private. 18 Westerly Private. 18 Westerly Westerly Private. 18 Westerly Westerly Private. 18 Westerly Westerly Private. 18 Westerly Westerly Westerly Private. 18 Westerly Weste							200
Linwood st. Linwood st. S. & L. R. R. Private. 40		Linwood st		Private.	about 12		150
Loring						2,114	
Autumn st. Easterly Private. 13 90							340
Dovell							
Dowden ave. Broadway Somerville ave. Summer st. Public. Somerville ave. Summer st. Public. Additional Summer st. Medford st. Public. Additional Public. Additional Additional Public. Additional Additional Public. Private. Additional							-
Lowell Summer st. Medford st. Public. Medford st. Private. Medford st. Public. Medford st. Private. Medford st. Public. Medford st.							
Lowell circle Lowell st.			Summer st	Public.	36	1,259	
Madison School st. Sycamore st. Public. 40 891						3,472	
Madison School st. Sycamore st. Public. 40 891 Main Broadway Medford line Public. 50 966 Maine ave. Mystic ave. Pennsylvania ave. Private. 40							143
Main . Broadway Medford line Public. 50 966 Maine ave. . Mystic ave. Pennsylvania ave. Private. 40 379 *Malden . Mystic ave. Melrose st. Private. 32 205 *Mallog ct. Somerville ave. Melrose st. Public. 40 657 Mallog ct. Somerville ave. Merriam ave. Public. 40 410 255 Malvern ave. Cameron ave. Merriam ave. Public. 40 410 255 Malvern ave. School st. Southeasterly Public. 40 410 265 265 </td <td>Lowell ter</td> <td>Lowell st</td> <td>Northwesterly</td> <td>Private.</td> <td>20</td> <td>••••</td> <td>100</td>	Lowell ter	Lowell st	Northwesterly	Private.	20	••••	100
Maine ave. Mystic ave. Pennsylvania ave. Private. 40	Madison	School st					••••
Maine ter. Maine ave. Southéasterly Private. 32 205 *Malden Mystic ave. Melrose st. Private. 50 1,360 Mallet Willow ave. Liberty ave. Public. 40 657 Mallet Somerville ave. Merriam ave. Private. 30 255 Mallet Somerville ave. Washington st. Public. 40 410 255 Mansfield Somerville ave. Washington st. Public. 40 410 255 Maple ave. School st. Marshall st. Maple ave. Private. 5 300 Maple ave. Southeasterly Private. 5 125 Maple ave. Southeasterly Private. 5 300 Maple ave. Southeasterly Private. 5 125 Maple ave. Poplar st. Medford st. Public. 40 1,1 1 Marianion Broadway							
*Malden Mystic ave. Melrose st. Private. 50 1,360 Mallet Willow ave. Liberty ave. Public. 40 657 1,360 Malloy ct. Somerville ave. Merriam ave. Private. 30 255 Malloy ct. Somerville ave. Merriam ave. Public. 40 410 Marshall Somerville ave. Southeasterly Private. 40 300 Maple ave. School st. Southeasterly Private. 40 300 Maple pl. Marshall st. Maple ave. Private. 5 125 Mardel circle Spring st. Northwesterly Private. 8 120 Marion Concord ave. Dimick st. Public. 40 1,1 Masple. Broadway Pawder HouseBlvd. Public. 40 1,650 May pl. Clyde st. Easterly <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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. Yorktown st. Public. 40 735 Maple ave. School st. Southeasterly Private. 40 300 Maple ave. School st. Marshall st. Maple ave. Private. 5 300 Maple ave. Southeasterly Private. 40 300 125 Maple ave. Southeasterly Private. 5 125 125 125 125 125 126 125 125 125 125 125		3.6					
Malloy ct. Somerville ave. Cameron ave. Merriam ave. Private. Public. 30 10 255 Malvern ave. Somerville ave. Somerville ave. Washington st. Public. 40 410 Maple ave. School st. Southeasterly Private. 40 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>							•
Malvern ave. Cameron ave. Yorktown st. Public. 40 410 Mansfield Somerville ave. Washington st. Public. 40					30		
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 Marshall Spring st. Northwesterly Private. 8 140 Marshall Broadway Dimick st. Public. 40 1,1 1 Marshall Broadway Powder HouseBlvd. Public. 40 1,650 Marshall Broadway Powder HouseBlvd. Public. 40 1,650 Marshall Broadway Powder HouseBlvd. Public. 40 1,650 Mason Broadway Powder HouseBlvd. Public. 40 1,650 Maystic ave. Easterly Private. 12 100 McGrerol ct. Wigglesworth st. Walnut st. Private.	Malvern ave	Cameron ave		Public.			
Maple pl. Marshall st. Maple ave. Private. 5 125 Maple Poplar st. Medford st. Public. 30 699 Marshall Spring st. Northwesterly Private. 8 140 Marshall Dimick st. Public. 40 1,1 1 Marshall Broadway Pearl st. Public. 40 1,650 Mason Broadway Parivate. 12 100 Mason Broadway Parivate. 12 100 Mason Broadway Parivate. 12 100 Mason Broadway Private. 12 100 McCaroll ct. Clyde st. Southwesterly Private. 12 100 McCaroll pt. Medford st.	Mansfield						
Maple							
Mardel circle Marion Concord ave. Marshall . , Broadway . Pearl st Public. May pl							
Marion Concord ave Dimick st Public 40 1,1 1 1,650 Marshall , Broadway							
Marshall , Broadway Pearl st. Public. 40 1,650 Mason Broadway Powder HouseBlvd. 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. 10 100 McGregor ave. Wigglesworth st. Dover st. Cambridge line Private. 13 302 Meacham road Dover st. Cambridge line Public. 40 1,060 Meacham Mt. Vernon ave. Medford line Public. 40 1,060 Meadford Cambridge line Central st. Private. 40 340 Melorose Mystic ave. Fellsway Private. 50	37 '						
May pl Medford st	Marshall ,	Broadway	Pearl st	Public.			
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 Meadona Medford line Public. 40 777 Meadona Cambridge line Private. 40 340 Medford Cambridge line Central st. Public. 50 8,047 Medford Central st. Broadway Public. 50 1,985 Melvin Mystic ave. Fellsway Private. 50 2,310 Merriam ave. Merriam st. Malloy ct. Private. 15 255 Merriam . Somerville ave. Somerville ave. Public. 40 360	Mason						
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 Mead Cameron ave. Medford line Public. 40 Medford Cambridge line Public. 50 8,047 Medford Central st. Public. 50 8,047 Medford Central st. Public. 50 8,047 Meloria Broadway Public. 50 2,310 Merriam ave. Merriam st. Malloy ct. Private. 15 255 Merriam Somerville ave. Public. 40 360 Merriam Somerville ave. Public.							
McGregor ave Wigglesworth st. Dover st							
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 Merriam ave. Merriam st. Malloy ct. Private. 15 255 Merriam Washing ton st. Somerville ave. Public. 40 360 Michigan ave. Broadway Pennsylvania ave. Public. 40 470 Milk pl. Somerville ave. Fellsway Public. 40 2,304 Milk pl. Somerville ave. Southwesterly Pri							
Meacham Mt. Vernon ave. Cameron ave Medford line Public. Private 40 777 340 Medford Cambridge line Central st Public 50 8,047 340 340 340	Meacham road .						
Medford Cambridge line . Central st Public. 50 Hollorse	Meacham	Mt. Vernon ave.	Medford line			777	••••
Medford	Mead						340
Melrose	Medford						
MelvinBroadwayBonair stPublic.40487Merriam aveMerriam stMalloy ctPrivate.15255MerriamSomerville avePublic.40360Michigan aveBroadwayPennsylvania ave.Public.30510Middlesex aveMystic aveFellswayPublic.40470Milk plSomerville aveSouthwesterlyPrivate.about 30100MillerSacramento stBeacon stPrivate.33465							
Merriam ave Merriam st Malloy ct Private. 15 Merriam Washington st Somerville ave Charlestown st Public. 30 Michigan ave Broadway Pennsylvania ave. Public. 40 Mystic ave Fellsway Public. 60 Milk pl Somerville ave. Southwesterly Private. About 30 Miller Sacramento st Beacon st Private. 33 Malloy ct Private. 15 Public. 40 40 470 2,304						487	
MerriamWashington stSomerville avePublic40360MerriamSomerville aveCharlestown stPublic30510Michigan aveBroadwayPennsylvania avePublic40470Milk plSomerville aveSouthwesterlyPrivateabout 30100MillerSacramento stBeacon stPrivate33465	Merriam ave.				15		
Michigan ave Broadway Pennsylvania ave. Public. 40 470 Middlesex ave . Mystic ave Fellsway Public. Public. Private. About 30 Milk pl Somerville ave. Southwesterly Private. About 30 Miller Beacon st Private. 33 465	Merriam		Somerville ave				
Middlesex ave . Mystic ave Fellsway Public. Bomerville ave. Southwesterly Private. Sacramento st Beacon st Private. 33	Merriam · · ·						
Milk pl Somerville ave. Southwesterly Private. about 30 100 Miller Sacramento st Beacon st Private. 33 465	Michigan ave						
Miller Sacramento st Beacon st Private. 33 465							
		_					

^{*}Proposed.

[†]State Highway.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	Ilivat	e bireets.—Con	itiliucu.			
			Public	Width	Len	GTH.
STREET.	From	То	or Private.	in Feet.	Public.	Private
Milton	Orchard st	Cambridge line .	Public.	40	223	
Miner	Vernon st	Ames st	Public.	40	244	
Minnesota ave	Broadway	Pennsylvania ave.	Private.	40		525
Mondamin ct	Ivaloo st	Harrison st	Private.	25		250
Monmouth	Central st	Westerly	Public.	40	267	900
Montgomery ave.	End of above .	Harvard st	Private.	35 40	265	200
Montrose ct	Broadway	Wellington ave B. & L. R.R	Private.	12	200	110
Montrose	School st	Sycamore st	Public.	40	886	
Montvale (Lewis)	Edgemere st.	Easterly	Private.	40		416
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 Morrison pl	Willow ave Morrison ave	College ave Northerly	Public. Private.	$\begin{array}{c c} 40 \\ 20 \end{array}$	1,690	100
Morrison pl	Morrison pl	Easterly	Private.	15		190 17 5
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	near Linden ave.	Public.	22	280	
Mountain ave	End accepted part	Linden ave	Private.	22	• • • •	30
Mousal pl Mt. Pleasant ct.	North Union st. Perkins st.	B. & M. R. R.	Private. Private.	20 40	• • • • •	200
Mt. Pleasant	Broadway	Southwesterly Perkins st	Public.	33	584	260
Mt. Vernon ave.	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 . Cedar st	Boston st	Public. Private.	50 30	1,214	
Murdock Murray	Washington st.	Southerly	Private.	30	••••	900 250
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	Charlestown line	Union st	Public.	$\begin{array}{c c} 60 \\ cc \end{array}$	378	
† Mystic ave Mystic	Union st Benedict st	Medford line	Public. Public.	66 40	6,938	• • • •
† Mystic Val. Pky.	Medford line	Arlington line	Public.	60	336 2,530	••••
#1/1/0010 Tull 1 11/1		Timigton mic	i abiic.	00	2,000	* * * *
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 Newbury st	Arlington Br. R.R. Southeasterly	Private. Private.	40 55	• • • • •	173
Newbury	Holland st	Cambridge line .	Public.	40	1,260	68
N. Hampshire ave.	Mystic ave	Pennsylvania 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 Webster ave	Concord ave Cambridge line .	Public.	40+	637	• • • •
North	Broadway	Medford line b. 17	Public.	40	283 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		25
Oak	Prospect st	Angle	Public.	40	665	35
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 Olive ave	Marshall st	School st	Public.	40	440	
Olive sq	Linden ave Lake st	Peterson ter Southerly	Private. Private.	25 about 15	••••	155
Oliver	Franklin st.	Cross st.	Public.	40	1,085	100
10				j	1,000	

^{*}Proposed.
†State Highway Austin St. to Medford line.
‡Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

S	12	m	Public	Width	LEN	GTH.
STREET.	FROM	То	or Private.	in Feet.	Public.	Privat
Orchard	Cambridge line .	Meacham road	Public.	40	1,567	
Sgood	Granite st	Easterly & west'ly	Private.	40		4
Ssipee road	Mason st	Curtis st	Public.	40	1,375	• • •
Otis	Cross st	Wigglesworth st	Public.	40 35	1,200	• • •
Oxford	School st Beacon st	Central st Cambridge line	Public. Public.	50	1,361	• •
ackard ave	Broadway	Professors row .	Public.	60	1,758	
Packard ave Palmer ave	Professors row . Franklin st	Medford line Northwesterly	Private. Private.	60 20		20
Park ave	College ave	Wallace st	Public.	40	467	
ark pl.	Laurel st	Easterly	Private.	30		5:
Park pl. • • •	Park pl	Northeasterly	Private.	20		1:
Park , · · ·	Somerville ave	Beacon st	Public.	50	1,238	
Parkdale Parker pl	Washington st Porter st	Montvale st Northwesterly	Private Private.	40 20		18
Parker	Washington st	Fremont ave	Public.	35	203	
artridge ave	Vernon st	Broadway	Public.	40	1,467	
atten ct	Cutter st	Southeasterly	Private.	8		1
Paulina	Broadway	Holland st	Public.	40	769	• •
earl	Crescent st Mt. Vernon st	Mt. Vernon st Franklin st	Public. Public.	37 50	341 957	• • •
earl	Franklin st	Cross st	Public.	40	1,060	• • •
earl	Cross st	Medford st	Public.	50	2,447	
earl St. pl	Pearl st	Northeasterly	Public.	20	166	
earl ter	Pearl st	Northerly	Private.	23		1
earson ave	Morrison ave	Boston ave	Public.	45	1,320	• •
earson road	Broadway Pembroke st	Dearborn road Southwesterly	Public. Private.	40 25	1,713	i
embroke	Central st	Sycamore st	Public.	40	430	
ennsylvania ave.	Broadway	Wisconsin ave	Public.	50	1,112	
ennsylvania ave.	Wisconsin ave	Cross st	Private.	40		3
erkins pl	Perkins st	Northeasterly	Private.	20	1.000	2
erkins	Franklin st	Charlestown line.	Public.	40 40	1,336	• • •
erry eterson ter	Washington st Porter st	Lincoln parkway . Olive ave	Public. Private.	7.5		i
hilips pl	Spring st	Westerly	Private.	15+		î
inckney pl	Pinckney st	Southeasterly	Private.	24		1
inckney	Washington st	Perkins st	Public.	40	1,186	
iper ave	Cedar st	Westerly	Private.	20	••••	4
itman	Beech st	Spring st Belmont st	Private.	$\begin{array}{c} 30 \\ 26 \end{array}$	••••	3
leasant ave.	Walnut st	Vinal ave	Public.	40	543	
oplar ct	Poplar st	Southeasterly	Private.	10		
oplar	Somerville ave.	Linwood st	Public.	30	351	
oplar	Linwood st	Joy st	Public.	35	315	• •
oplar · · · ·	Joy st	B. & L. R. R	Private.	$\begin{array}{c} 35 \\ 20 \end{array}$		2
orter ave	Porter st Elm st	Northwesterly Mountain ave	Private. Public.	45	1,622	
orter	Mountain ave.	Highland ave	Public.	40	415	
owder house	Powder house	Alewife Brook .				
boulevard	square	Parkway	Public.	80	4,660	
owder house ter.	Kidder ave	Liberty ave	Public.	40 35	585	i
rentiss	Beacon st Summer st	Cambridge line . Highland ave	Private. Public.	50	1,110	
eston road	School st	Summer st	Public.	40	839	
richard ave	Morrison ave	Boston ave	Public.	40	1,191	
rinceton	Alpine st	Lowell st	Public.	40	648	• •
inceton · · ·	Lowell st	Centre st	Private.	40	0.000	5
ofessors row .	College ave Fellsway	Curtis st	Public.	40 40	2,000	1
oposed	Fellsway	Middlesex ave Middlesex ave	Private. Private.	40		3
oposed	Fellsway	Middlesex ave.	Private.	40		3
ospect	Washington st	Cambridge line .	Public.	50	2,071	
ospect Hill av.	Medford st	Munroe st	Public.	40	597	• •
rospect Hill p'k'y	Munroe st	Stone ave	Public.	40 20	400	i
rospect pl	Prospect st Summer st	Newton st Highland ave	Private. Public.	50 50	1,262	
uincy	Somerville ave.	Summer st	Public.	40	781	
adcliffe road	Walnut st	Bradley st	Public.	35 40	392	
adcliffe road	Bradley st	Marshall st	Public.	40 15	261	2
andolph pl . aymond ave. .	Cross st	Westerly	Private. Public.	40	1,345	

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	A 11 V C.	te bireets.—co	iitiiiucu.	-		
STREET.	From	To	Public or	Width	LEN	СТН.
SIRBAI.	rkom		Private.	Feet.	Public.	Private
Record ct	Broadway	Southwesterly	Private.	10	1	110
Reed's ct	Oliver st	Southwesterly	Private.	20		105
Remick ct	Cutter st	Southeasterly	Private.	10		100
Renfrew (Rose)	Washington st	Montvale st.	Private.	40 40	460	450
Rhode Island ave.	Mystic ave Lowell st	Pennsylvania ave. Hinckley st	Public. 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 45	582	• • • • •
Rogers ave Roland	Morrison ave Waverly st	Boston ave Boston line	Public. Private.	40	1,682	109
Roseland	Beacon st.	Cambridge line	Public.	40	121	100
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 Hamilton rd. Northerly	Public. Private.	40 40	559	75
Russell rd Russell	Elm st	Cambridge line .	Public.	40	700	75
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40 40	80	
Sacramento	Fitchburg R. R. Beacon st	Beacon st	Public. Public.	40	290 154	• • • • •
Sacramento 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 Somerville ave.	Curtis st	Private. Public.	40 40	1,901	690
School	Highland ave.	Highland ave Broadway	Public.	50	2,500	• • • • •
Sellon pl	Marshall st	Northwesterly	Private.	12	-,000	120
Seven Pines ave.	Cameron ave	Cambridge line .	Public.	40	92	
Sewall ct	Sewall st	Southwesterly	Private.	25	015	190
Sewall	Grant st	Temple st	Public. Public.	40 40	615	••••
Shawmut 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	1.010	100
Simpson ave	Broadway Dane st	Holland st	Public. Public.	40 30	1,018 306	••••
Skehan	Dane st	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	4.005	120
Somerville ave.	E. Camb. line .	Union sq	Public. Public.	75 70	4,325	• • • • • • • • • • • • • • • • • • • •
Somerville ave South	Union sq Medford st	N. Camb. line Water st	Public.	30	6,793	• • • • • • • • • • • • • • • • • • • •
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 Highland ave	Cambridge line .	Public. Private.	40 20	788	
Spring Hill ter Stanford ter	Beacon st	Belmont st	Private.	20		670 2 00
Steeves circle.	Cherry st	Easterly	Private.	15		120
*Sterling st	North st	Powder House Bd.	Private.	40		800
Stickney ave	Marshall st	School st	Public.	. 40	458	
St. James ave.	Elm st	Summer st	Public. Public.	40 30	488 125	
St. James ave. ext. Stone ave	Union sq	Columbus ave	Public.	40	676	••••
Stone ave	Columbus ave.	Prospect Hill p'k'y	Public.	38	107	
Stone pl	Stone ave	Southeasterly	Public.	30	142	
Strathmore road.	Broadway	Medford line	Private.	40	7.000	15
Summer	Bow st	Elm st	Public. Public.	45 45	7,900 532	• • • •
Summit ave	College ave	Billingham st	Public.	40	262	• • • •
Sumner	Hinckley st	Northwesterly	Private.	20	••••	175
Sunnyside ave	Walnut st	Wigglesworth st	Public.	25 to 35	306	
Sunset rd	Curtis st	Hillsdale road	Private.	40	1.075	658
Sycamore	Broadway	Medford st	Public.	45	1,275	•••

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

	_		Public	Width	LEN	GTH.
STREET.	From	То	or Private.	Feet.	Public.	Private
Sycamore	Medford st	B. & L. R. R	Public.	40	667	<u> </u>
Sycamore Sydney	B. & L. R. R Grant st	Highland ave Temple st	Public. Public.	35 40	722 679	••••
Talbot ave.	Packard ave	College ave	Private. Private.	50 40	••••	1,409
*Tannery (Ext'n) Taunton	Cambridge line . Wyatt. st	Woodstock st. (Ext'n) Easterly to angle.	Private.	30	••••	160 170
Taunton	Angle	Marion st	Private.	20	••••	98
Taylor pl Taylor	Somerville ave	Southerly	Private. Public.	15 40	309	200
Teele ave	Packard ave.	Curtis st	Public.	40	685	
Temple	Broadway	Mystic ave	Public.	66	1,637	
Tenney ct Tennyson	Mystic ave Forster st	Northeasterly Pembroke st	Private. Public.	30	922	400
Thorndike	Holland st	Arl'ngt'n Br. R. R.	Public.	40	465	
Thorndike	Arl'gt'n Br. R.R.	Kingston st	Public.	40	115	
Thorpe Thurston	Highland ave Broadway	Southwesterly Richdale ave	Public. Public.	30	468 1,660	••••
Timmins pl	Dane st	Westerly	Private.	3.5	1,000	97
Tower ct	Tyler st	Northeasterly	Private.	25	****	150
Tower	Crown st Tremont st	Highland ave Southeasterly	Public. Private.	40 about 10	559	75
Tremont	Webster ave.	Cambridge line	Public.	40	589	
Trull	Vernon st	Medford st	Public.	40	1,050	
Trull lane Tufts parkway .	Highland ave College ave	Oxford st	Private. Public.	15 22	900	200
Tufts	Washington st	College ave	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 20	• • • •	100
Upland Park	Main st	Southwesterly	Private.	20		175
Vermont ave	Mystic ave	Pennsylvania ave.	Public.	40	433	
Vernon	Central st Glenwood road .	Glenwood road . Partridge ave	Public. Public.	40 40 to 30	76 1 190	
Vernon	Partridge ave.	Lowell st.	Public.	30	434	
Victoria	Broadway	Cambridge line .	Public.	40	1,036	
Village	Winslow ave	Arlington Br. R. R.	Private. Private.	35 25		200 37 0
Village Vinal ave	Dane st Summer st	Vine st	Public.	45	1,425	
Vinal	Richardson st	Northeasterly	Private.	20		200
Vine ct	Vine st	Northwesterly	Private. Public.	25 40	5 4 0	140
Vine	Somerville ave. Fitchburg R. R.	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	277 287	• • • •
Waldo Walker	Highland ave Broadway	Hudson st Leonard st	Public. Public.	40	718	••••
Wallace	Holland st.	Broadway	Public.	40	1,342	••••
Walnut	Bow st	Broadway	Public.	40	3,948	• • •
Walter terrace	Walnut st Walter st	Kenneson road .	Public. Public.	40	$\begin{bmatrix} 270 \\ 222 \end{bmatrix}$	••••
Walter terrace . Walter		Southwesterly (about 100 ft. N.)	Public.	40	548	••••
Ward	Walnut st	of Bradley st.	Public.	30	433	
Ward Ware	Medford st Curtis st	Harding st Russell rd	Public.	40	749	
Warner	Powder House sq.	Medford line	Public.	60	500	••••
Warren ave	Union sq	Columbus ave	Public.	40	663	••••
Warren	Medford st Warwick st	Cambridge line .	Public. Private.	30 to 40 15	109	150
Warwick place	Cedar st	Northeasterly Warwick pl	Public.	40	665	
Washington ave	Washington st	Northerly	Private.	18		350
Washington pl	Washington st	Southerly	Private.	about 7.5		114

^{*} Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Washington Charlest'n line Washington Franklin ave. Washington Franklin ave. Fitchburg R. R. Cambridge line Public. Cambridge line 75 1,060 2,344 2,344 3,977 2,344 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,977 3,660 2,344 3,977 3,660 2,344 3,977 3,977 3,660 3,977 3,660 2,344 3,977 3,660 3,977 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,937 3,660 3,61 4,01 3,03 3,02 3,02 3,02 3,02 3,02 3,02 3,02 3,02 3,02 3,02<		1 IIVa	te Streets.—Co	iitiiiucu.			
Washington Charlest'n line Franklin ave. Washington Fitchburg R. R. Waterhouse Broadway Fitchburg R. R. Waterhouse Broadway Fairmount ave. Waverly Washington st. Qambridge line Public. 25 366 Watson Waterhouse Broadway Fairmount ave. Private. 40 987	Street.	From.	To .	or	in	LEN	GТН.
Washington Franklin ave. Fichburg R. R. Water Pitchburg R. R. Cambridge line Public. Of the public. 60 to 100 3,977 Waterhouse Broadway Farmount ave. Public. 25 366 366 Watson Broadway Fairmount ave. Public. 25 366 Waverly Washington st. Cambridge line Private. 40 987 Webster Union sq. Canbridge line Private. 40 2 Weslington ave. Montgomery ave. Easterly Public. 40.5 1,935 12 Wesliey sq. Montgomery ave. Easterly Public. 40 1,034 1,034 12 Public. 40 1,034 1,034 12 Public. 40 1,034 12 2 Public. 40 1,034 12 2 Public. 40 10 10 40 10 12 2 2 2 2 10 10 40 40				Private.	Feet.	Public.	Private.
Washington Franklin ave. Fichburg R. R. Water Pitchburg R. R. Cambridge line Public. Of the public. 60 to 100 3,977 Waterhouse Broadway Farmount ave. Public. 25 366 366 Watson Broadway Fairmount ave. Public. 25 366 Waverly Washington st. Cambridge line Private. 40 987 Webster Union sq. Canbridge line Private. 40 2 Weslington ave. Montgomery ave. Easterly Public. 40.5 1,935 12 Wesliey sq. Montgomery ave. Easterly Public. 40 1,034 1,034 12 Public. 40 1,034 1,034 12 Public. 40 1,034 12 2 Public. 40 1,034 12 2 Public. 40 10 10 40 10 12 2 2 2 2 10 10 40 40	Washington	Charlest'n line	Franklin ave	Public	75	1.060	
Washington Fitchburg R. R. Northerly Public. 25 60 2,344 Water South St. Northerly Broadway Cambridge line Public. 40 987 Watson Broadway Fairmount ave. Private. 40 987 1 Wabster Webster ave. Union sq. Wellington ave. Wellington ave. Wellington ave. Wellington ave. Wellington ave. Wesley sk. Wesley sq. Pearl st. Montgomery ave. Easterly Public. 40 1,935 Wesley pk. Wesley sq. Pearl st. Otis st. Pearl st. West Hawthorne st. Highland ave. Highland ave. West Adams Highland ave. Arlington Br.R.R. Private. 40 40 515 West West West Ouning Broadway Electric ave. Public. 40 515 12 West Quincy Bailey st. Meelord line Private. 40 40 515 12 West Quincy Bailey st. Melord line Private. 40 60 40 56 12 West Quincy Bailey st. Melord line Private. 40 60 1,364 12 12 West Wheeler Finckney st. Milite St. Packard ave. Processes and Processes and Private. 40 1,364 1 1 1 1 1 1 1 1 1 1 1 1							
Waterhouse Broadway Cambridge line Public. 40 987 Watson Broadway Fairmount ave. Private. 40 987 Watson Broadway Fairmount ave. Private. 40 91 Webster Union sq. Cambridge line. Public. 40 1,955 Wellington ave. Wellington ave. Montgomery ave. Montgomery ave. Wesley sq. Public. 40 215 Wesley pk. Pearl st. Montgomery ave. Wesley sq. Public. 40 405 Wesley sq. Pearl st. Otis st. Public. 40 405 West. Hawthorne st. Highland ave. Public. 40 405 West. Hawthorne st. Medford line. Public. 40 710 91 West Quincy Balley st. Medford line. Public. 40 10 10 West Quincy Balley st. Medford line. Private. 40 10 20	Washington			Public.		2,344	
Watson (Waserly Washington st. (Roland st. Private. 35 Broadway (Washington st. (Roland st. Private. 35 Private. 35 40	Water	South st				366	
Waverly Webster ave. Union sq. Cambridge line Webster ave. Union sq. Wellington ave. Wesley sq. Montgomery ave. Easterly Public. 40 1,034 Wellington ave. Wesley sq. Northeasterly Public. 40 405 Public. 40 405 Wesley sq. Northeasterly Public. 40 405 Wesley sq. Northeasterly Public. 40 405 Public. 40 405 Public. 40 405 Wesley sq. Northeasterly Public. 40 405 Public. 40 405 West Adams Conwell ave. Medford line Public. 40 710 West Quincy Balley st. Medford line Private. 40 2 Public. 40 710 Weston ave. Clarendon ave. Broadway Private. 40 2 Public. 40 489 West Quincy Balley st. Medford line Private. 40 2 Public. 40 489 West Quincy Balley st. Medford line Private. 40 2 Public. 40 489 West Quincy Balley st. Medford line Private. 40 2 Public. 40 489 White st. Benton road Public. 40 489 White st. Cambridge line Private. 30 3 7 White St. pl. White st. Cambridge line Private. 30 3 7 White St. pl. White st. Cambridge line Private. 30 3 7 White St. pl. White st. Cambridge line Private. 40 687 Public. 40 687 Parkard ave. Public. 40 687 Parka	Waterhouse					1	
Webster ave, Webster (Webster) Union Sq. Franklin st. Wellington ave. Cambridge line Public. Wellington ave. 49.5 1,036 1,034 1,03	Watson				_	1	236
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Wellington ave. Public. 40	Webster						
Wellington ave. Montgomery ave. Easterly Private. 40 Wesley Mesley Mesley Pearl st. Otis st. Public. 40 405 West Hawthorne st. Highland ave. Public. 40 405 West Hawthorne st. Highland ave. Public. 40 705 West Conwell ave. Medford line Private. 30 192 West Mouncy Balley st. Medford line Private. 40 2 West Quincy Balley st. Medford line Private. 40 West wood road Central st. Benton road Public. 40 White ave. Pinckney st. Mt. Vernon st. Public. 40 White St. pl. White st. White st. Mt. Vernon st. Public. 40 White St. pl. White st. Mason st. Packard ave. </td <td>Wellington ave.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Wellington ave.						
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West . Hawthorne st. Highland ave Highland ave Public 30 192 West Adams Westminster Westminster Broadway Weston ave. Weston ave. Weston ave. Weston ave. West Ouincy Westwood road Central st . Medford line Public Public 40 376 West Quincy Westwood road Westwood road Wheeler Pinckney st . Medford line Private Public 40 489 5 Wheeler Pinckney st . Mt. Vernon st . Public 40 489 269 376 5 40 489	Wesley pk	Wesley sq	Northeasterly			405	
West Hawthorne st. Highland ave. Public. 30 192 West Highland ave. Highland ave. Public. 40 376 Westminster Broadway Ecteric ave. Public. 40 376 Weston ave. Clarendon ave. Medford line Private. 40 376 Weston ave. Clarendon ave. Medford line Private. 40 376 Weston ave. Bailey st. Medford line Private. 40 5 Westod Quincy Bailey st. Medford line Private. 40 5 Westod Orodo Central st. Benton road Public. 40 489 Wheeler Pinckney st. Mt. Vernon st. Public. 40 269 Whitpel Highland ave. Mt. Vernon st. Public. 40 269 White st. Demair st. Combridge line Public. 40 687 White St. pl.	Wesley	Pearl st	Otis st				• • • •
West Adams Conwell ave. Medford line Public. 40 710 Weston ave. Clarendon ave. Electric ave. Public. 40 376 West Quincy Bailey st. Medford line Private. 40 5 Westwood road Central st. Benton road Public. 40 5 Wheeler Pinckney st. Mt. Vernon st. Public. 40 1,364 Wheeler Pinckney st. Mt. Vernon st. Public. 40 1,364 Wheeler Pinckney st. Mt. Vernon st. Public. 40 1,364 Wheeler Pinckney st. Mt. Vernon st. Public. 40 1,364 White st. Sunday Mt. Vernon st. Public. 40 1,364 White st. Sunday Mthe st. Public. 40 376 White st. Sunday Medford line Private. 40 30	West						
Weston ave. Clarendon ave. Broadway Clarendon ave. Broadway Private. 40 5 Clarendon ave. West Quincy Bailey st. Medford line Private. 40 5 Medford line Private. 40 5 Medford line Private. 40 5 Medford line Private. 40 2 Mestwood road Central st. Benton road Public. 40 489 .							266
Weston ave. Clarendon ave. Broadway Private. 40 5 West Quincy Bailey st. Medford line Private. 40 5 Westwood road Wheeler Broadway Mystic ave. Public. 40 489 Wheeler Pinckney st. Mr. Vernon st. Public. 40 1,364 White St. Highland ave. Arlington Br. R. R. Public. 40 1,364 White St. pl. White st. Combridge line Public. 40 687 White St. pl. White st. Courtis st. Public. 40 687 White St. pl. White st. Courtis st. Public. 40 687 White St. pl. White st. Courtis st. Public. 40 687 White St. pl. White st. College ave. Public. 40 687 White st. Porter st. Northwesterly							• • • • •
West Quincy . Westwood road . Wheatland . Wheatland . Wheatland . Wheatland . Wheatland . Wheeler . Pinckney st Mt. Vernon st White	Weston ave						525
Westwood road Central st. Benton road Public. 40 489 Wheeler Pinckney st. Mt. Vernon st. Public. 40 1,364 Whipple Highland ave. Arlington Br. R. R. Private. 30 3 White St. pl. White st. Cambridge line Public. 40 687 307 3 White St. pl. White st. Courtis st. Private. 20 3 307 3 307 3 307 307 307 307 307 307 307 307 367 40 687 40 687 20 <							291
Wheeler			Benton road	Public.	40		
Whipple	Wheatland	Broadway				1,364	
White St. pl. White st. Cambridge line Southeasterly Private. 20						269	
White St. pl. White st. Southeasterly Private. 20 2 Whitman Mason st. Packard ave. Private. 40 687 667 667 6687 8 <td></td> <td>THE STATE OF THE S</td> <td></td> <td></td> <td></td> <td></td> <td>318</td>		THE STATE OF THE S					318
Whitfield road. Packard ave. Curtis st. Public. 40 687 687 687 <	White St. al						9,0
Whitman Mason st. Packard ave. Private. 40 7.4 6.6 Wigglesworth Bonair st. Pearl st. Public. 40 744 William Chandler st. College ave. Public. 40 381 William Broadway Medford line Private. 50 10 Willom Porter st. Northwesterly Private. 30 10 Willow ave. Elm st. Sycamore st. Public. 30 10 Willow ave. Elm st. Broadway Public. 20 3,534 Willow ave. Broadway B. & L. R. R. Public. 20 307 Windson ave. Broadway Medford line Private. 40 Windsor road Willow ave. Hancock st. Public. 40 300 Winslow ave. Windsor st., Camb. College ave. Holland st.							260
Wigglesworth Bonair st. Chandler st. College ave. Public. 40 744	Whitman						632
William Chandler st. College ave. Public. 40 381 Williams Broadway Medford line Private. 50 10 Willoughby Central st. Sycamore st. Public. 40 427 Willow ave. Elm st. Sroadway Public. 50 3,534 Willow ave. Broadway Broadway Public. 25 125 Wilton Lowell st. Hinckley st. Public. 20 307 Windon Elm st. Summer st. Public. 40 Windsor road Willow ave. Hancock st. Public. 40 Windsor st.(Extn.) Windsor st.(Camb. Windsor st.(Camb. College ave. Clifton st. Public. 40 1,123 Winter College ave. Holland st. Public. 40 1,123 Winter Hill cir. Broadway					40		
Williams ct. Porter st. Northwesterly Private. 30 1 16 427 18 16 427 18 16 16 427 18 16 <td>William</td> <td></td> <td></td> <td></td> <td></td> <td>381</td> <td></td>	William					381	
Willoughby Central st. Sycamore st. Public, 40 427 Willow ave. Elm st. Broadway Public. 50 3,534 Public. 50 3,534 Public. 50 3,534 Public. 25 125 Public. 20 3,534 Public. 20 307 Public. 20 <	William						50
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 Wilson ave. Lowell st. Hinckley st. Public. 20 307 Windsor st. (Extr.) Broadway Medford line Private. 40 Windsor road Willow ave. Willow ave. Hancock st. Public. 40 300 Windsor st. (Extn.) Windsor st., Camb. College ave. Clifton st. Private. 20 55 Winter College ave. Clifton st. Public. 40 1,123 Winter Hill cir. Broadway Northeasterly Private. 25 1 Wisconsin ave. Broadway Lowell st. Private. 40 50 Woodstock							154
Willow pl							••••
Wilson ave. Broadway							
Wilton Lowell st Medford line	Wilson ave.						
Windom Willow ave	Wilton				35		
Windsor road			Medford line				65
Windsor st.(Extn.) Windsor st., Camb. College ave Winter College ave Winter Hill cir Winthrop ave. (Extension.) Wisconsin ave. Woodsin e Woods ave Woodstock (Extension.) Wyatt st. around to Concord ave. Cambridge line. Vorktown Winter Hill cir. Broadway College ave Holland st Northeasterly . Winthough R. R Clifton st Public. 30 Holland st Private. Public. 50 Holland st Private. Private. Private. Private. Private. Would: Private. Woodstock (Extension.) Wyatt st. around to Concord ave. Victoria st. Wyatt st Wyatt st Lincoln parkway Public. Wyatt st. Private. Private. Wyatt st. Private. Private. Wyatt st. Private. Private. Public. Wyatt st. Private. Private.							• • • •
Winslow ave College ave Clifton st Public. 40 1,123						515	520
Winter College ave Holland st Public. 30 402		Callaga				1 193	530
Winter Hill cir. Winthrop ave. (Extension.) Mystic ave. Dennsylvania ave. Woods ave. North st. North st. North st. Victoria st. Woodstock (Extension.) Wyatt circle Wyatt st. around to Concord ave. Cambridge line Northest North st. North st. Dennsylvania ave. Private. 40 Private. 40 Private. 30 Private. 40	Winter						••••
Winthrop ave. (Extension.) Wisconsin ave. Woodbine . Woods ave. Woodstock . (Extension.) Woodstock (Extension.) Wyatt circle . Wyatt st. around to Concord ave. Cambridge line . Vorktown . (Extension.) Worktown . Cambridge line . (Extension.) Wyatt st Concord ave. Cambridge line . (Ado do d	Winter Hill cir.						177
Mystic ave. Middlesex ave. Private. 40 50 499 50	Winthrop ave.						
Woodbine	(Extension.)				_		583
*Woods ave North st Victoria st Victoria st		Broadway					••••
Woodstock Victoria st Alewife brook							600
*Woodstock (Extension.) . Wictoria st				70 1 10	40 to 32	403	1,135
Wyatt circle		Victoria St	THEWHE DIOUK	2 45110.	20 (0.02	100	••••
Wyatt circle Wyatt st. around to Concord ave Lincoln parkway . Private. 20 496 Yorktown Cambridge line		Victoria st.	Tannery st. (Ext'n.)	Private.	40		920
Wyatt Concord ave Lincoln parkway . Public. 40 496 Yorktown Cambridge line . { N. E. line Mal- vern ave. } Public. 40 294 Northerly				Private.			315
Vorktown N. E. line Northerly Private 40	Wyatt			Public.	40		
Vorktown N. E. line Northerly Private 40			(N.F. line Mal.)				
Vorktown N. E. line Northerly Private 40	Yorktown	Cambridge line .		Public.	40	294	
	Vorktown	(N. E. line)	1	Dutant	40		100
	TOTKTOWII		Northerly	Private.	40	••••	100
		1					

^{*} Proposed.

[†] Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street.		From	To .	Public or	Width	Length.	
		71011	10	Private.	Feet.	Public.	Private
Court Court		39 Adams st Albion st	Southeasterly Central st Northeasterly	Private. Private. Private.	8 12 9		90 216 178
Court Court		21 Albion st. 292 Broadway 612 Broadway Buena Vista rd.	Northeasterly Southwesterly Southwesterly Easterly	Private. Private. Private. Private.	10 15 20 15	••••	100 90 188 148
Court Court		Cambria st 12 Carlton st 112 Central st 113 Central st 227 Columbia st.	Northerly Southeasterly Northwesterly Southeasterly	Private. Private. Private. Private. Private.	9 25 10 20	••••	75 168 150
Court Court	• •	Conlon ct. 36 Craigie st. 59 Craigie st. 58 Dane st.	Northwesterly Windsor st. (Ext'n) Westerly Easterly	Private. Private. Private. Private. Private.	10 20 25 23.63		240 126 129
Court Court Court	• •	20 Dimick st 91 Franklin st 66 Lowell st	Easterly Southwesterly	Private. Private. Private.	10 39.25 12 25		136 171 101 101
Court Court Court		78 Lowell st 101 Medford st. Sacramento st 10 Stone ave	Westerly	Private. Private. Private. Private.	25 8 25 20	••••	75 318 113 370
Court	• •	Windsor st. (Ext'n) Total	East'ly and West'ly	Private.	20	438,457	92,283

Public, 83.041 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, 17.479 miles.

Total length of streets in the city, 100.52 miles.

REPORT OF THE STREET COMMISSIONER.

Office of the Street Commissioner, City Hall, Somerville, January 1, 1917.

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

Gentlemen,—I most respectfully submit the forty-first annual report, containing a brief summary of the principal work performed by the highway department, by day labor and contract during the year 1916, 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 collection of ashes and garbage has been transferred to the Sanitary Department, a new department established in 1916.

Snow and Ice.

The city government should make a separate appropriation for the care of snow and ice. The department removes the snow and ice from sidewalks, and sands same when necessary, in front of public grounds and buildings. The bridges, made necessary by the abolition of the grade crossings, are also cared for. After a snow storm extra men are placed in the several squares and on the main streets, to keep the crossings opened for pedestrians and to level off the snow in front of business establishments.

Boxes filled with fine sand have been placed within easy access of the push cart men who care for the smoothly paved streets, squares and subways. No one regrets the expenditure of money for this branch of the work more than myself, but the streets and sidewalks must be kept in a safe condition for travel.

\$6,789.69 was expended for the care of ice and snow. 3,180 loads of snow and ice were removed. This department should be reimbursed for the care of snow and ice in front of public property and public grounds controlled by other departments.

Underground Wires.

Permits were issued to the New England Telephone and Telegraph Company to construct conduits on Cross street between Pearl street and Medford street. These conduits were constructed under the sidewalks so as not to disturb the asphalt street. This same company enlarged its conduits in Union square before the permanent paving was laid. The Edi-

son Illuminating Company constructed conduits on Willow avenue from Highland avenue to Elm street, on Elm street from Willow avenue to Somerville avenue and on Somerville avenue from Elm street to East Cambridge line, the highway department replacing the paving at the company's expense. These companies, gas companies and city departments laid their wires and pipes underground and made their connections, as far as possible, on all streets before the streets were constructed.

Whenever the different companies petition for new poles or poles to be replaced the city should compel these companies to construct conduits for their wires, thus doing away with the unsightly poles and wires which are dangerous to trees and property and a menace to life.

Crushed Stone.

The William J. McCarthy Company furnished 106 tons of crushed rock at \$1.00 per ton, at their crusher, and 7,738 tons at \$1.20 per ton on line of work. Coleman Brothers 141 tons at \$1.20 per ton, 2,576 tons trap rock at \$1.45 per ton and 1,436 tons pea stone at \$1.50 per ton, all delivered on the line of work.

The city crusher was in operation a few days crushing old cobbles, paving blocks and concrete.

A new school has been erected on the Holland street ledge lot, thereby making it necessary in the near future to abandon the ledge and remove the crusher.

Bridges.

The bridges are in good condition. The School street bridge has been repaired and some new girders installed.

As the through travel increases on Broadway the Willow bridge becomes more dangerous and should be widened.

Steam Rollers.

In my last year's report my recommendation to replace the old twelve-ton roller with a new fifteen-ton roller with scarifier attachment was approved by the Mayor, and the purchase authorized. This roller has done more and harder work than was specified by the Buffalo Steam Roller Company and I would recommend a similar roller to any city or town.

New forward rollers will be needed for the No. 2 roller

the coming year.

No. 1 roller worked 156 days.

No. 2 roller worked 120 days. No. 3 roller worked 20 days.

No. 4 roller worked 134 days.

HIGHWAYS MAINTENANCE.

Appropriations and Expenditures.

Appropriations	•					\$39,000 00
Transferred from Interes	t Ao	ccour	nt	•		1,500 00
Salaries		•	•		\$4,133 33	
Office expenses			•		356 33	
Automobiles and maintena	ance	of s	same		1,426 00	
City teams		•			3,583 41	
Tools and equipment.					3,280 24	
Repairs of streets and bri					5,403 74	
Care of parkways .		•			15 95	
Care of subways .		•			412 18	
Care of snow and ice		•			6,789 69	
Care of signs	Ť		·	Ť	683 95	
Care of highway property				į	1,285 08	
Paving stock, lumber, oil,	fuel	etc.	•	•	3,683 67	
Emergency			• •	•	39 45	
Caming wood	•		•	•	$\frac{35}{25} \frac{43}{73}$	•
Sawing wood		•	•	•		
Holidays and vacations		•		•	4,661 86	
Expressing		•		•	18 87	
Taxes (City of Waltham)					$185 \ 40$	
Accounts for collection					4,291 80	
All other					35 00	
				-		
					\$40,311 68	
Balance to Excess and De	ficie	nev			188 32	
Data to Dicess and De	11010		•			
					\$40,500 00	\$40,500 00

SIDEWALKS MAINTENANCE.

The department could spend to good advantage twice the sum that is appropriated for Sidewalks Maintenance, which includes resetting edgestones, relaying brick, repairing granolithic, the care of police reports pertaining to sidewalks and the care of gravel and dirt sidewalks.

1,275 feet of edgestones were reset, 700 square yards of

brick sidewalks were relaid.

Appropriations and Expenditures.

Appropria	tion			•			•			\$5,000	00
Transfer:	from	Union	ı S	quare I	Libr	arv				125	80
Labor .							,	\$3,479	69		
Highway	Main	tenan	ce.	teams				868			
Highway									00		
Highway								691	15		
Materials									47		
Hired tea									00		
								\$5,125	80	\$5,125	80
								 φο,120		=====	

STREET SPRINKLING.

The Mayor made a contract with the American Car Sprinkler Company at \$750 per month, twelve hours per day, seven days per week. The car was operated nights and flushed all the paved streets and sprinkled the others wherever there was a car track. The car did very good work considering the way that time was lost in filling from hydrants on the sidewalks. If hydrants were installed between the car tracks the car could be used to better advantage in the daytime, thus saving several horse drawn sprinkling carts that are in operation throughout the day.

All the macadam streets were oiled or tarviated: The prin-

cipal squares were watered early mornings.

A storage tank should be erected in the city yard for road oil. The assessment to each abutter for street sprinkling was five cents per linear foot.

Abutters wishing a private street sprinkled must first make a deposit with the City Treasurer. From what experience I have had with dust laying materials I would recommend a heavy asphaltic oil or tar covered with a light coat of fine gravel; these materials keep down the dust and save the streets from wear and disintegration.

Calcium chloride was used in freezing weather on the

squares and on main streets with good results.

Dust layers used during the year:—

37,245 gallons of Standard "Socony."

3,600 gallons of Alden Speare's "Tasscoil."

38,478 gallons of Headley's No. 20.

3,800 gallons of Headley's No. 7.

8,114 gallons of Emerald Oil (Cosgroves).

32,225 gallons of Besco Oil.

52,446 gallons of Oilite (Lemery).

13,790 gallons of Emulsifying Oil (Sawyer).

24,055 gallons of Sawyerline Oil.

1,800 gallons of Water Gas Tar (Cambridge Gas Company).

55,018 gallons of Tarvia "B" (The Barrett Company).

3,608 gallons of Tarvia "A" (The Barrett Company).

17,100 pounds of Calcium Chloride.

Appropriations and Expenditures.

Appropriation		•			•	\$35,000 00
Transfer from Street Cl	eaning				•	8 86
Labor			•	\$4,655		·
Highway Maintenance, c	ity teams	3 .	•	2,763	73	
Highway Maintenance, e	•	•	89	_		
Highway Maintenance, s	upplies	•		699	•	
Hired teams			•	1,905		
Car sprinkler		•	•	3,152		
Dust layers		•	•	20,909		
Materials		•	•	833	70	
			_			
•				\$35,008	86	\$35,008 86
			_			

STREET CLEANING.

The night cleaning patrol has proved satisfactory not only by keeping the squares clean but also by attending to police reports and reports from citizens. The men keep in touch throughout the night with the police and stable man and all reports are attended to at once. There is a day cleaning patrol in all the principal squares. All the streets were swept and cleaned before oiling.

I earnestly ask the co-operation of all citizens in helping to keep the streets clean by not throwing their papers and rubbish

in the streets.

I give my endorsement to the Clean-up Week. This movement should appeal to the civic pride of all citizens and have the hearty co-operation of everybody.

10,186 loads of street sweepings were removed.

Appropriations and Expenditures.

Transfer to Street Sprinkling	8 86
City teams 3,455 80	
Hired teams 2,349 89	
Materials	
Balance to Excess and Deficiency \$24,899 57 91 57 \$24,991 14 \$24	,991 14

SUPPRESSION OF MOTHS.

By the continuous fighting every year the department has the moth situation under its control. After a careful investigation in the Fall I found very few nests, and I think this is partly due to the spraying of trees. All the street and private trees were cared for and inspected. I did not receive any complaints that the moths had not been properly cared for. The work is inspected by an inspector sent by the State Forester, Frank William Rane.

7,119 street trees were inspected and cared for. 10,088 private trees were inspected and cared for. 31,000 brown-tail nests were gathered and destroyed. 22,419 gypsy nests were painted with creasote.

6,932 trees were sprayed by the gasoline spraying machine to exterminate the elm-leaf beetle.

Appropriations and Expenditures.

Appropriation									\$4,000	00
Appropriation	and	trar	ısfers						20	10
Labor					٠	•	\$3,433	51		
Highway Main	itena	nce,	city	teams			199	79		
Highway Main								80		
Insecticides		,	•				220	49		
Materials .		•		•	•	•	164	51		
							\$4,020	10	\$4,020	10

SHADE TREES.

We are losing many of our shade trees on account of the new methods of constructing streets and sidewalks and by the

leopard moth or borer.

Whenever trees are to be trimmed, to allow the passage of electric wires, the work is done by the Public Service Companies under highway supervision, or by the highway department. In the latter case, the city is reimbursed by the companies.

273 trees were set out. 129 trees were cut down.

173 trees were trimmed.

303 tree-guards and supports installed.

Appropriations and Expenditures.

Appropriati	on	•	٠.	•		•		•	•		\$3,200	
Transferred	to	Supp	ressi	on o	t Mo	ths	•	•	φο 100		20	10
Labor .	٠	•	•	•	•	•	•		\$2,402			
City teams	•	•	•	•	•	•	•		583			
Equipment	•	•	•	•	•	•	•			25		
Materials	•	T	• .		. •	•	•		115			
Supplies fro	m	Highy	vay .	Main	tena	nce	•		24	01		
									\$3,145	<u></u>		
Balance to	Ex	cess a	nd I	Defici	encv					38		
						·						
									\$3,179	90	\$3,179	90

HIGHWAYS CONSTRUCTION, NEW STREETS.

Part of this construction was done by the department and part by contract.

Three new streets, a length of 1,844 feet, were constructed by contract. The city furnished all the bituminous binder for these streets.

Six new streets, a length of 1,562 feet, were constructed by day labor.

The average cost of new streets by city labor was \$4.66 per linear foot.

The average cost of new streets by contract was \$5.34 per linear foot.

The streets constructed by the city were for the most part narrow and in one instance a great part of the edgestone had been previously laid.

Streets accepted in 1916:— Dec. 29, 1916, Burnham street, Dec. 29, 1916, Electric avenue,

Dec. 29, 1916, Hamilton road,

forty feet wide, from Broadway to Powder House boulevard. forty feet wide, from Packard avenue to Mason street. forty feet wide, from North street to Russell road.

Dec. 29, 1916, Harding street,	thirty feet wide, from Ward street northerly about sev- enty feet.
Dec. 29, 1916, Heath street,	forty feet wide, from Bond street to Edgar avenue.
Dec. 29, 1916, Mason street,	forty feet wide, from Broadway to Powder House boulevard.
Dec. 29, 1916, Mountain avenue,	twenty-two feet wide, from Porter street northwesterly about 280 feet.
Dec. 29, 1916, Michigan avenue,	forty feet wide, from Broadway to Pennsylvania avenue.
Dec. 29, 1916, New Hampshire avenue,	forty feet wide, from Pennsylvania avenue to Mystic avenue.
May 6, 1916, Vermont avenue,	Pennsylvania avenue to Mystic avenue.
Dec. 29, 1916, Walter terrace,	forty feet wide, from Walter street to its dead end.
Dec. 29, 1916, Willow place,	twenty-five feet wide, from South street to the Cambridge line.

New street construction consists of: Edgestone, concrete gutters and bitummous macadam. All work of regrading sidewalks is also charged to this account.

Appropriations and Expenditures.

Balance from 1915 .			•				\$81 77
Transfer from Macadam	Pav	emen	t				200 00
Appropriation			•				20,000 00
Labor	•	•				97 76	
City teams	•	•				48 40	
Hired teams		•	•			95 25	
Tools and equipment.	•	•	•	•		95 75	
Recording and advertisi	ng	•	•	•		70 15	
Materials			•	•		86 02	
Supplies from Highway	Main	tenai	ıce	•	4	30 49	
				-		23 82	
Balance to 1917	•	•		•	2,3	57 95	
				_	\$20,2	81 77	\$20,281 77

STREETS CONSTRUCTED IN 1916.

STREET.	Froм	То	MATERIAL.	Length in Feet.	Cost.
Albion terrace Albion street Auburn avenue Cross street Barton street Broadway . Gibbens street Benton road Illinois avenue Beacon street Stone place Stone avenue Walker street Broadway . Ware street Curtis street Recording and advertis ing new streets Fence at R. R., Davis Square	Albion street Cross street Broadway Benton road Broadway Beacon street Stone avenue Broadway Curtis street sing new streets Square	 Southerly end Northwesterly end Hamilton road Westerly end Pennsylvania avenue. Cambridge line Southeasterly end Leonard street Russell road	Bituminous macadam.	100 606 382 133 133 142 713 749	\$489 65 1,517 31 2,109 68 836 93 2,820 91 896 26 717 27 3,765 68 3,979 33 1,29 27 211 53 450 00
		Length in feet, and cost	and cost	3,406	\$17,923 82

HIGHWAYS CONSTRUCTION, MACADAM PAVEMENT.

All the macadam pavement constructed during the year was laid by the highway department under specifications approved by the Massachusetts Highway Commission.

Annro	nriations	and Ex	penditures.
Thhio	priations	anu La	heliatrares.

Balance from Appropriation Receipts .	1915				•		•	•	•	\$1,107 37 32,000 00 25 60
receipts.	•	•	•	۰	•	•	•	•	•	20 00
I ass two-store	4 - NT		C44							\$33,132 97 . 200 00
Less transfers	to N			S	•	•	•	φο τ το	00.	. 200 00
Labor	•	•	•	•	•	•		\$8,550		
City teams.	•	•		•	•	•		1,075		
Hired teams				•	•			3,067	38	
City equipmen	t (rol	lers.	etc.)					2,249	13	
Materials and	suppl	ies	· ·			•		17,976	58	
Balance to 193		•	•	٠	•	•		14	58	
								\$32,932	97	\$32,932 97

STREETS MACADAMIZED IN 1916.

STREET.	FROM	To	MATERIAL.	Length in Fert.	Cost.
Chester street .	. Herbert street	Cambridge line	Bituminous macadam.	199	\$1,442.38
Crocker street .	Highland avenue	Crown street	Bituminous macadam.	528	1,275.71
Day street	. Herbert street	Cambridge line	Bituminous macadam.	889	1,445.44
Greene street .	. Summer street	Laurel street	Bituminous macadam.	555	1,093.80
Hancock street .	. Summer street	Elm street	Bituminous macadam.	778	1,948.15
Kidder avenue .	. College avenue	Liberty avenue	Bituminous macadam.	624	1,143.82
Lowell street .	Vernon street Highland agenue	Medford street Albion street	Bituminous macadam.	1,565	2,747.04
Mansfield street .	. Washington street	Somerville avenue .	Bituminous macadam.	735	1,705.11
Marshall street .	. Broadway	Pearl street	Bituminous macadam.	1,650	3,526.40
North street	. Broadway	Powder House blvd	Bituminous macadam.	552	1,317.29
Perkins street .	. Pincknev street	Franklin street	Bituniinous macadam.	632	1,468.93
Summer street .	. near Central street	Willow avenue	Bituminous macadam.	4,367	11,863.54
Warren avenue .	. Union square	Sanborn avenue.	Bituminous macadam.	315	839.60
Willoughby	. Sycamore street	Central street	Bituminous macadam.	427	1,101.18
	Length in feet, and cost Average cost of bitumin	Length in feet, and cost	are yard \$0.767	14,083	\$32,918.39

HIGHWAYS CONSTRUCTION, PERMANENT PAVEMENT.

Permanent pavements were laid by the following named contractors:-

James H. Fannon, Somerville, Mass. "Shawmut" brick on a concrete base.

Bituminous macadam on a concrete base.

The Hassam Paving Company, Worcester, Mass.

"Topeka" top on old Hassam concrete paving.

Re-cut granite blocks grouted on a concrete base. Simpson Brothers Corporation, Boston, Mass.
"Bicomac" on a Hassam concrete base.

The City laid, on a concrete base, "Shawmut" brick, granite block and bituminous macadam.

Brick paving on a concrete base was laid at an average cost of \$2.89 per square yard complete, where work was performed by contract and bricks furnished by the city.

Bituminous macadam on a concrete base was laid at an average cost of \$1.54 per square vard complete, where work was performed by contract and bituminous binder furnished by the

"Topeka" top on old Hassam concrete paving was laid at an average cost of \$1.35 per square yard complete, where work was performed by contract and the old Hassam was repaired at day labor by the contractor before top was applied.

Re-cut granite blocks grouted on a concrete base were laid at an average cost of \$2.35 per square yard where blocks were

furnished by the city and cutting done by the contractor.

"Bicomac" was laid at a contract price of \$1.52 per square yard where all excavation was performed by the city, on Pearl and Medford streets from Cross street to School street and on Bow and Summer streets from Wesley square to School street. This pavement was laid to replace old bitulithic. In the excavation of the old bitulithic the Buffalo Pitts steam roller with scarifier attachment was used to break up the surface. The old pavement was so thoroughly broken up in this manner that it was conveniently handled and used for a base for streets resurfaced with bituminous macadam.

On all narrow streets where there are car tracks, paving should be done with granite paving blocks grouted on a concrete base. With a few more years of permanent paving our main streets will be in a first class condition.

					s .			•	4.56 miles
			concrete						1.42 miles
Streets p	paved	with	asphaltic	top	•				2.59 miles
									1.14 miles
									.77 miles
									.11 miles
Streets p	paved	with	concrete	base	and	bitumi	inous	top	5.73 miles

Total length of permanent pavement 16.32 miles

part of a contract

PERMANENT PAVEMENT.

Appropriations and Expenditures.

Balance from	1915								\$2,692 42
Appropriations		•		•	•	•		•	93,000 00
Receipts .		•			•				864 60
Labor		•				•	\$6,226	07	
		•	•	•			677	35	
Hired teams			•				1,084	63	
Equipment .							649	12	
Materials and	conti	ract	payn	nents			67,220	30	
Supplies from	High	way	Maii	ntena	ınce		1,553	53	
							\$77,411	00	
Balance to 191	17.		•	•	•	•	19,146		
							\$96,557	02	\$96,557 02

HIGHWAYS CONSTRUCTION, PERMANENT PAVEMENT.

SQUARE YARDS	2,406 663.8 663.8 737 1,457 623 1,714 235 1,231.5 8,372.5 1,983 1,289 6,499.8	47,548.1
To	School street	·
From	Wesley square Charlestown line Elm street Elm street Cross street Austin street P. H. boulevard Cross street School street Union square Hawkins street	
Material,	"Topeka" top, on old "Hassam" "Shawmut" brick, on concrete base "Topeka" top, on old "Hassam" Granite block on concrete base at Bituminous macadam, on concrete base "Bicomac" "Bicomac" "Sicomac" "Sicomac" "Sicomac" "Sicomac" "Sicomac" "Sicomac" "Sicomac" "Bituminous macadam, on concrete base "Shawmut" brick, on concrete base "Shawmut" brick, on concrete base	Total
STREET,	*Bow and Summer sts. Broadway	

*Uncompleted or finals not paid.

SIDEWALKS CONSTRUCTION.

I most respectfully recommend that the uncompleted portions of sidewalks on the main streets be completed.

Length of edgestones		•			140.111 miles
Gravel sidewalks .			•	•	25.467 miles
Brick sidewalks .	•	•		•	71.736 miles
Granolithic sidewalks			•		47.162 miles

WERE FURNISHED BY THE CITY AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES. SIDEWALKS CONSTRUCTED WHERE THE MATERIALS

STREET.	SIDE.	From	To	FRET OF EDGESTONE.	YARDS OF GRANOLITHIC.	Cost.
Ash avenue	Westerly	Meacham street	East Albion street .	:	377.7	\$573.11
Auburn avenue	•	at No. 123 Cross street		•	45.7	86.89
Beacon street	•	Estate No. 362	No. 368	:	54.	77.22
Boston street	Easterly	Prospect Hill avenue.	Washington street .	:	334.2	565.49
Broadway	Northerly	Burnham street	Leonard street	•	277.2	407.96
Broadway	Northerly	Estate No. 977	No. 983	:	105.1	156.89
Cedar street	Northwesterly	Aberdeen road	Hall street	129	113.7	335.06
Charles street	Easterly	Washington street .	End	:	68.3	119.40
Craigie street	Northwesterly	Somerville avenue .	Craigie Terrace	•	149.7	214.07
Curtis street	Southeasterly	Teele avenue	Whitfield road	:	110.1	157.44
Eliot street	Northeasterly	Park street	Vine street	:	198.9	341.06
*Fellsway west	Westerly	Work abandoned .	•	;	:	45.56
Fountain avenue	Both sides	Cross street	Glen street	•	561.1	971.76
Greenville street	Southerly	Medford street	Boston street	•	324.5	560.99
Hamlet street	Both sides	Highland avenue .	Boston street	•	603.6	1,05529
Hinckley street	Both sides	Broadway	Sumner, Richardson sts.	•	490.5	724.52
laques street.	Both sides	Temple street	Fenwick street	8.69	1,205.1	1,912.12
Kidder avenue	Southwesterly	No. 66 Highland road.	•	•	64.2	91.81
Langmaid avenue .	Southeasterly	Broadway	Heath street	•	171.5	292.39
Lesley avenue	Both sides	Highland avenue .	Lexington avenue .	:	447.	839.37
Line street	Northeasterly	Washington street .	Cambridge line	•	813.1	1,218.57
Lovell street	Both sides	Broadway to	Electric avenue	:	516.1	739.68
*Maple and Poplar sts		Bennett school		•	140.8	242.87
Morrison avenue.	Southwesterly	Willow avenue	Highland road	•	499.1	713.71
			Carried forward .	198.8	7,671.2	\$12,443.23

*Not assessed.

SIDEWALKS CONSTRUCTED WHERE THE MA TERIALS WERE FURNISHED BY THE CITY AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.—Continued.

i

	SCHOOL WILL FIRST	TO CLOW THE ABOUTING ESTATES.—Communed.	ing carries.	mann.		
STREET.	Side.	From	To	FEET OF EDGESTONE.	YARDS OF GRANOLITHIC.	Cost.
			Brought forward .	198.8	7,671.2	\$12,443.23
Morrison avenue	Northeasterly	Highland road	Willow avenue	:	393.1	576.08
Mystic avenue	Northeasterly .	Est. of Barney Price .	No. Union street	:	271.2	460.30
Newbury street	Southeasterly	Teele square	Cambridge line	157.1	803.2	1,502.94
North street	Northwesterly	Broadway	Powder House boulev'd	403.7	410.5	1,092.96
North street	Southeasterly	Broadway	Powder House boulev'd	527.5	358.4	1,058.46
Pearson road	Southwesterly	Warner street	Old sidewalk	:	54.8	78.36
Powder House blvd		No. 189	No. 193	:	121.4	211.33
Powder House blvd		At Cutler School .		•	244.	442.83
		No. 181		:	445.6	79.62
Powder House blvd		No. 183		:	46.3	80.62
Powder House blvd		No. 249		1	57.3	107.41
Powder House terrace.	Easterly and westerly	Tufts park, Liberty ave.	Kidder avenue	:	576.7	832.31
Prospect street	Southeasterly	Webster avenue.	Cambridge line	:	786.3	1,292.14
Simpson avenue .	Northwesterly	Holland street	Broadway	:	491.9	702.27
Simpson avenue.	Southeasterly	Broadway	Holland street	:	597.7	873.40
Summer street	Northeasterly	Porter street	Linden avenue	:	254.1	398.22
Sycamore street	Northwesterly	R. R	Southwesterly	•	25.7	40.44
Teele avenue	Southwesterly	Curtis street	Lot No. 12.	•	173.9	248.68
Temple street	Southeasterly	Sydney street	Mystic avenue	377.5	342.	1,165.59
Victoria street	Southeasterly	Broadway	No. 54	:	492.3	703.99
Victoria street	Southeasterly	Estate No. 82		:	28.1	40.18
Victoria street	Northwesterly	Broadway	Woodstock street .	:	614.2	878.31
Victoria street	Southeasterly	Estate No. 62-66.		:	67.8	96.95
Victoria street	Northwesterly	Woodstock street .	Cambridge line	.:	64.1	91.66
			Carried forward .	1.664.6	15,391.8	\$25,498.28

*Not assessed.

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS WERE FURNISHED BY THE CITY AND ONE-HALF THE

	Cost.	\$25,498.28 61.85 842.99 809.15 259.93 10.29	\$27,482.49
	FEET OF VARDS OF GRANOLITHIC.	15,391.8 34.7 589.5 559.3 161.	16,736.3
ncluded.	FEET OF EDGESTONE.	1,664.6	1,664.6
TING ESTATES.—Co	To	Brought forward Woodstock street Jaques street Old sidewalk	Total .
COSI WAS ASSESSED UPON THE ABUTTING ESTATES.—Concluded.	From	Estate No. 80	
COST WAS ASSESS	Stdr.	Southerly Southeasterly	
	STREET.	Washington street Waterhouse street Wheatland street Willoughby street Yorktown street	

MISCELLANEOUS.

Special repairs were made on the following streets:--

Stone avenue.

Washington street (Beacon street to Cambridge line).

Glen street (Broadway to Brook street).

Somerville avenue (Oak square to Cambridge line). Cross street (Railroad bridge to Central square).

Broadway (at Alewife Brook parkway).

Joy street. Park avenue.

Hall avenue.

Grove street at railroad.

Street openings were made at:—

Smith avenue at Line street.

Carter terrace at Summer street.
Magnus avenue at Washington street.

Driveways were constructed at the expense of the petitioners for:—

Lester C. Evans, 21 Claremon street. A. L. Blondel, 82 Pearson avenue.

Judson B. Young, 50 Putnam street. M. P. Gustin, 80 Benton road.

R. M. Rice, 33 Claremon street.
Gilmore H. Small, 16 Conwell avenue.
R. J. Elliot, 78 Liberty avenue.
L. J. Smith, 2022 Willow avenue.

Sarah J. Steeves, 33 Cherry street. Elmer S. Stack, 43 Hall avenue.

Joseph W. Lowell, 264 Willow avenue. F. H. Newton Co., 2 on Elmwood street and 1 on Cameron avenue.

Frank W. Spear, Hamlet street. John F. McTiernan, 51 Concord avenue.

Michael D. Bingham, 50 Pearl street (Florence street).

H. A. Oliver, 242 Willow avenue.
F. M. Drinkwater, Victoria street.
Mrs. Henry Hill, 315 Summer street.
Frank Larracey, 15 Morrison avenue (Boston avenue).

Louis Quazzaloca, 589 Somerville avenue.

Niles Nelson, 95 Temple street.

Dora C. Towle. 19 Cutter avenue (Hawthorne street). G. E. Hobbs, 27 St. James avenue. T. C. Cunningham, 22 Hancock street. F. A. Teele, Guild Hall, Berkeley street.

Wickham and Row, 12 and 16 Garfield avenue.

A. J. Evenson, 114 Prospect street.

Nathan Robinson, 118 and 120 Prospect street.

Alice N. Smith, 2 driveways Oliver street near Glen street.

Alexander Small, 32 Franklin street.

M. Louise Ober Pride, 9 Browning road.

M. Louis & Ober Fride, 9 Browning Toad.

Louis B. Cadario, 79 Grant street.

Mansur Byam, 10 Josephine avenue.

Mrs. Julia Adams, 23 Rhode Island avenue.

Mrs. E. S. Simonds, 38 Robinson street.

John H. Mullen, 20 Willow avenue.

Emil Zacharian, 102 Electric avenue.

George T. Hunter, 77 Bay State avenue.

A. C. Michie, 183 Highland avenue.

Edward L. Morrison, 97 Rogers avenue.

Edward L. Morrison, 97 Rogers avenue.

Z. W. Weisz, 27 Ossipee road.

Arthur D. Raymond, Albion street near Lowell street. Edgar R. Lyle, 37 Lowden avenue. Charles Berry, 109 Jaques street.

Conceizio Liberatore, 95 Jaques street. E. F. DeWitt, 15 Day street. Ethel A. Welsch. 49 Bromfield road. Vincent Preziuso, 40 Adams street.

William F. Burns, 19 Illinois avenue. Florence Williams, 32 Fosket street. Nellie M. Perry, 9 Moore street.

Frank L. Sibley, 48 Tennyson street.

North Shore Express, Myrtle street.

Peter Forg Manufacturing Co., 16 Vine street.
Charles G. McGlone, 50 Conwell avenue.
H. A. Walker, 464 Broadway.
Thomas C. Griffiths, 39 Ames street.
Ezra Andelman, 109 Prospect street.
Sarah F. Hemanway, 145 Perkins street.

Sarah E. Hemenway, 145 Perkins street.

Youlden, Smith & Hopkins, 85 Washington street.

Driveway discontinued:—

Samuel Berkowitz, 307 Broadway.

. 83.041 miles Length of public streets . .

The department does its own painting, carpentering, blacksmithing, horseshoeing and harness repairing at the city stables, maintaining shops for the different lines of work.

Seven horses were killed and one died during the year.

I have attended meetings of the different committees of the Board of Aldermen for consultation regarding work and pe-

The employees had two weeks' vacation and five months' Saturday half holidays without loss of pay. The city does its own insurance for injured laborers and accepted the act providing for pensioning of laborers.

There were during 1916:—

202 permits issued to the Cambridge and Charlestown Gas Companies.

290 permits issued to occupy streets and sidewalks.

93 permits issued to cross sidewalks.

11 permits issued to feed horses.

37 streets watering complaints and requests.

241 notifications to other departments and corporations.

35 accident reports. 1,073 police reports.

202 brick and granolithic sidewalks repaired.

299 miscellaneous reports and requests.

0 requests to care for moths. 303 poles and guards for trees.

159 drain layers' permits.

557 water department openings. 3,180 loads of ice and snow removed.

150 permits to open streets and sidewalks.

30 new signs erected. 38 danger signs erected,

66 signs re-painted.

2,134 cubic yards sand and gravel used.

9,794 cubic yards dirt removed.

10,186 cubic yards scarifying removed from streets.

3,557 cubic yards old macadam used. 3,091 cubic yards of ashes used.

8,776 bags of Portland cement used.

RECOMMENDATIONS.

I most respectfully recommend:—

That traffic rules and regulations be established the coming year.

That all the uncompleted paving on the main streets be

completed.

Newton street and Concord avenue from Webster avenue to Springfield street be paved with granite paving blocks, grouted on a concrete base.

Gasoline and kerosene storage tanks, with a suitable fireproof building over the same, be erected at the city stable lot.

I wish to extend my sincere thanks to all for their support and hearty co-operation.

Respectfully submitted,
Asa B. Prichard,
Street Commissioner.

REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

Office of Commissioner of Public Buildings, City Hall, Somerville, January 1, 1917.

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, 1916.

The total valuation of the public property which is in the custody of the public buildings department is \$2,575,112.66.

The total expenditure for the year 1916 for the care and maintenance of this property was \$129,518.66.

This amount was expended as follows:-

Janit	or se	ervice	٠					\$41,369 74
Fuel	and	light	•				•	43,816 46
Care	and	repairs		•		•	•	44,332 46

Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter and as such during the past year has made 1,580 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued

for building operations during the year 1916:-

Buildings.				WARDS				
Dunamgs.	1	2	3	4	5	6	7	Totals.
Dwellings Stores	23 2	17 3 1 8	11 3 2	1	26 3	22 2 3	93 4 1	192 18 3 1
Shops	$egin{bmatrix} 2\\ 1\\ 4\\ 17\\ 2\\ 6 \end{bmatrix}$	$egin{array}{c} 0 \\ 2 \\ 1 \\ 4 \\ 1 \\ 5 \end{array}$	6	$\begin{array}{c}1\\15\\2\end{array}$	1 15	$egin{array}{c} 3 \\ 22 \\ 1 \end{array}$	2 56	14 4 11 135 6
Storage Churches Foundations Miscellaneous	5	2 4	3 1	1	2 1	3	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	19 4 5 15
Totals	62	48	29	20	49	57	162	427

The following table shows the number of permits issued for fire-resisting buildings during the year 1916. This is an increase of fifty more than last year or an increase of thirty-four per cent. in relation to the number of permits of this kind issued.

Buildings.								
	1	2	3	4	5	6	7	Totals
Brick	4	5	2		2	7	4	24
Cement	, 10	2	6	13	6	13	$ \hat{42} $	$\tilde{9}\tilde{2}$
Concrete	5	3		2	7	6	7	30
Stucco		1						1
Terra Cotta				1	1			2
Steel							1	2 1 3 3
Brick and Wood		1	2					3
Brick and Concrete	2					1		
Brick and Cement					3		2	5
Brick and Stone			İ				2	2 5
Steel and Wood	3	1	1					5
Stucco and Wood	10		3	1			6	20
Galv. Iron and Wood	1		1	}				2
Concrete and Wood					1			1
Wood, Fireproofed	2				1		1	4
Terra Cotta and Wood		_1						1
Totals	37	14	15	17	21	27	65	196

						Wood.	Fire Resisting.	Total.
New buildings Alterations .					•	131 100	177 19	308 119
Totals .	•	•	•	•		231	196	427

The number of plumbing permits issued during the	vear	r
1916 was		. 373
Permits for plumbing in new buildings		. 198
Permits for plumbing in old buildings		. 175
Number of buildings in which soil pipes were tested		. 346

The total number of permits issued during the year 1916, viz., 427, was fifty-three less than during the year 1915, when 480 permits for new buildings and alterations were issued.

The total estimated cost of the new buildings and alterations during the year 1916 was \$1,498,932, while the cost in 1915 was \$1,854,236, showing a decrease of \$355,304. This decrease can largely be attributed to the high cost of materials

and to the fact that the available land for building construction in our city is decreasing very rapidly, and this department expects that in the future the number of permits issued for alterations and for the tearing down and construction of larger and better buildings will show a gradual increase each year. The figures this past year show a tendency in this direction, there being 119 permits issued for alterations against

eighty-six in 1915.

The Commissioner of Public Buildings has under his charge and direction the work of maintenance and keeping in repair all of the public buildings of the city and the grounds in connection therewith, the direction of all janitors in the city's employ, the inspection of all new building construction, the inspection of the installation and care of all elevators, the supervision of the construction of all new municipal buildings, the maintenance of the public bathing beach and the public municipal baths in the Bennett and Bingham Schools and Lincoln Park.

The various activities in connection with the department work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

School Buildings.

The maintenance and care of the school buildings has as formerly demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Additional Accommodations.

During the year provision has been made for additional seating capacity in the schools for 434 pupils. This has been accomplished by the completion of the nine-room Junior High School in Ward 1, known as the Prescott School Annex.

Owing to the formation of a Junior High School system it became necessary to make changes in the arrangement of 1,228 desks and seats in seven schools at a considerable outlay of time and money.

The contract has been let and the work started on a new

Junior High School in Ward 7.

Work was started on this building during August, 1916,

and it will be ready for occupancy next September.

The building is located on the "old ledge lot," situated on Holland street, and is to contain fifteen classrooms, which will accommodate 600 pupils.

The equipment will be modern in every respect. The heating will be by the fan system automatically controlled. The sanitary system will include the required number of fixtures and there is to be in the basement four rooms fitted up

for instruction in machine shop work, carpenter work, cooking and sewing. The end stairways are to be absolutely fireproof and so located as to be protected in the case of fire from all other sections of the building.

A new addition has been started at the Boys' Vocational

School which should be completed by next fall.

This addition is attached to the present building and will contain a large machine shop and tool room and a room for the repairing of automobiles.

The foundations, framing and roofing were done by contract and the school boys are to put on the clapboards and

any finish on the inside.

It will be necessary the coming year to install a new heating system, furnish new equipment, and fix up the

grounds around these two buildings.

At the Brown and Burns School buildings new assembly halls have been constructed during the past summer with a seating capacity of 200 in each to the great appreciation of the respective principals and the inhabitants of these locali-

The concrete yards of ten school buildings have been re-

newed or repaired in various parts of the city.

Three of our school buildings were entirely repainted on the outside and in fact such necessary painting, repairs, alterations and additions were made as the appropriation would permit.

New sprinkler systems were installed in the basements of the Cummings and Burns Schools during the past summer and two new heaters were installed in the Cummings School.

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 schools as possible during

the year be continued.

Additional windows in the Edgerly School.

Electric lighting in all buildings with one side lighted rooms.

Outside enclosed fire escapes on the Edgerly, Morse and Highland School buildings. These buildings are three stories high and the old style type of construction with very little distance between stairways.

New heating and ventilating plant in the Morse School, doing away with the present seven furnaces which are in bad condition.

New floors should be installed in both Edgerly and Highland

New heating and ventilating plant in the Boys' and Girls' Vocational Schools as the old furnaces are cracked and in fact worn out and the gas leaks badly.

The installation of electric program clocks in the Junior High

Installing direct steam coils thermostatically controlled in the new wing of the Brown School, also the Glines and Pope Schools and the High School Annex. This would mean a great saving of coal and would eventually pay for itself.

Extending the heat control system in the High School to the remainder of the building.

The third story of the Pope School to be fitted up for a hall.

Installing a motor and doing away with the present engine used to run the ventilating fan at the Bell School as this engine is in bad shape and would cost as much to be repaired as a new motor.

Removing the partitions between the fire rooms and coal bins in the Bingham, Durell, Morse and Highland School buildings and the central heating plant and replacing same with an eight-inch brick

wall.

Continuation of the policy of installing sprinkler systems, doing as many buildings as possible during the coming year.

Fire Department Buildings.

The new fire alarm building, the construction of which was started in 1915, was completed this fall at a cost of \$38,-246.18, and this building is soon to be dedicated and opened for service. It is a beautifully equipped building of its kind and it would well repay any of our citizens to visit it.

Upon the completion of the fire alarm building the old apparatus was removed from the Central fire station. This leaves a large amount of work to be done to fix up the rooms

thus made available for drill and recreation purposes.

The most pressing needs for this year will be the follow-

ing:-

Engine Two, improved sanitary accommodations. Hose Eight, improved sanitary accommodations. Ladder Two, improved sanitary accommodations. Hose Five, improved sanitary accommodations.

Municipal Buildings.

The municipal buildings consisting of City Hall and City Hall Annex are in good condition generally. It will be necessary, however, to remodel the men's toilet on the first floor. Several of the department offices should be renovated by wall and ceiling painting and new floor coverings.

At the present time the Mayor's office is being refinished and the aldermanic chamber is being equipped with new desks for the president of the Board of Aldermen, city clerk and

city messenger.

During the past year the vault in the auditor's office was remodeled and a new safe furnished the clerk of committees

office.

Some new furniture and metal filing cabinets were purchased for the different departments and all necessary repairs made.

Libraries.

The Central Library and its branches are well provided for except the Union Square Branch, which is being extended into the quarters formerly occupied by the Boys' Club. This additional space properly fitted up will provide additional room which is much needed and I know will be greatly appreciated.

The roof of the West Somerville Branch needs extensive

repairing and the building needs repainting.

The contract for the construction of a new East Somerville Branch Library has been awarded and the work is to be started as soon as the weather will permit.

Water, Highway and Refuse Buildings.

Quite extensive repairs have been made to the water buildings by the installation of additional heating apparatus, the repairing of doors, repainting, etc., while the highway, refuse and incinerator buildings and fences have had the necessary repairs made as far as the appropriation would permit.

There are quite a few alterations and repairs necessary

to be made on these buildings this year.

Hospital Buildings.

The hospital buildings were quite extensively renovated during 1915 and only such repairs were made during 1916 as were necessary.

This year the roof of the Tuberculosis Camp needs repair-

ing, also new screens are needed here.

City Home Buildings.

The most important work at the City Home buildings during the year was the thorough installation of a wet sprinkler system through the home and hospital and the reconstruction of that portion of the stable occupied by the horses and cows, which is now in a thoroughly sanitary condition.

These buildings are now in good condition with the exception of the fence along North street and the Boulevard,

and a few alterations to be made to the heating system.

Police Buildings.

The yard or drive around the police buildings has been relaid with tarvia bound macadam, the court room refinished throughout and a few other minor repairs made. However, the interior and exterior need repairing and repainting and a new heating apparatus is badly needed in the stable.

Bathhouse.

The bathhouse and bathing beach have been operated during the past season and were as popular an attraction as in the preceding years.

The expense of maintenance was kept as low as possible owing to the fact that a new and more commodious bathhouse is being constructed on another location, and I feel sure

that this new building together with its increased bathing

facilities will prove to be a very popular institution.

A considerable appropriation will be needed, however, to construct a suitable beach this coming spring and also to equip the building.

Park Buildings.

There has been an addition made to the shower bath facilities at the Lincoln Park building which has doubled the efficiency there.

The other park buildings have been kept in repair.

The new building at the Somerville Recreation Field was to have been started early in December, but the weather interfered. The work will be started, however, as soon as the frost leaves the ground.

This appropriation will need an additional amount in or-

der to complete the contemplated project.

In General.

The Commissioner of Public Buildings has had the cooperation of all branches of the City Government, including his honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

> Respectfully submitted, George L. Dudley. Commissioner of Public Buildings.

REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

Office of Commissioner of Electric Lines and Lights, January 1, 1917.

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

Gentlemen,—I most respectfully submit my eighth annual report as Commissioner of Electric Lines and Lights for the year ending December 31, 1916.

Inspection of Wiring in Buildings.

The number of inspections of electrical work in buildings is greater than any previous year owing to the general demand

for electric current for light, heat and power.

Electric ranges, motors, lights, etc., are used more than formerly and constant supervision of new wiring is necessary to ensure a proper installation of such electrical equipment and to guard against possible danger to life and property.

The state license law has helped to some extent to improve construction as no one but a licensed man can install

electric wires for light, heat or power in a building.

After such wiring or equipment has been installed an inspection is made, and if the rules governing such installations are complied with, permission is given the electric company supplying current to connect its wires to the building and install meters.

The danger from fire and liability of accidents to persons is thereby reduced to a minimum and every one having electrical work done should insist that it is inspected and approved before accepting the same.

Considerable delay and annoyance can be avoided if attention is paid to this rule and having only experienced men do the work, and a satisfactory and safe installation is the result.

Number of 1	notifications	s of new	work				1,278
Number of i							1,278
Number of 1							2,535
Number of i	nspections	of old wor	rk .		•		140
Number of o							10
Number of o				1			10
Number of r	e-inspectio	ns of old	work		•	•	19
Number of p	mber of in	ued to th	e Ediso	\mathbf{n} \mathbf{E}	lectri	.c	3,972
etc	ng Company	y for ilistat	_		-	s, •	1,888

Fire Alarm System.

The new fire alarm central office equipment which has been purchased is being installed in a new fireproof building

built for the fire alarm headquarters and will be in operation very soon.

This central office is the latest and best that can be had

and will be a credit to the city.

The alarms will be sent out on tappers in the different fire stations at much faster time than before and then will be sent out on the outside bells at the present time.

A branch telephone exchange is being installed whereby all telephone calls for fire are received and duly transmitted

to the different fire houses.

Operators will be on duty day and night and will handle

all fire alarms and telephone calls.

This central office is in line with the recommendations of the underwriters and should be a help towards reducing the insurance rates.

The present fire alarm system consists of the following:—128 signal boxes, one eight-circuit automatic repeater, eight tower strikers, thirty-nine gongs, nine punch registers, forty-three tappers, one automatic steam whistle, twelve private telephones, 530 cells of storage batteries, about 132 miles of overhead wires and 65,761 feet of underground cable.

There has been run 25,200 feet of new overhead wire and

2,300 feet of old has been removed.

2,440 feet of lead-covered cable have been placed underground on Cedar street, Elm street and Prospect Hill avenue, and preparations made to remove overhead wires in Walnut street, Bow street and Union square, and place same underground.

Police Signal System.

The police signal system has been given constant attention and is giving excellent service.

Boxes have been thoroughly tested and all found to be in

perfect working order.

Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years.

A large number of defective poles have been replaced by

companies owning the same.

New poles have been placed in locations granted for the purpose of supplying light and telephone service, and abandoned poles have been removed.

	New poles.	Re- placed.	Re- moved.	Re- set.
New England Telephone & Telegraph Co	. 17	14	29	6
Edison Electric Illuminating Co	. 37	239	22	$\overline{2}$
Boston Elevated Railway Co	. 9	2	2	1
Permits given to the New England Telephone				
graph Co. for attachments to Edison Co.'				
Permits given to the Edison Electric Illum				
Co. for attachments to New England Tel	.ephon	e		
Co's poles		20		

Street Lighting.

The matter of street lighting has had the same attention as in previous years and a number of additional lights have been placed in various parts of the city.

				J	an. 1, 1916.	Jan. 1, 1917.
Magnetites					128	129
Nitrogen incandescents	600	c. p.	•		362	367
Incandescents 100 c. p.		•			91	100
Incandescents 40 c. p.					898	912

Recommendations.

I respectfully recommend that:—

Additional ordinances be made to further govern the installation of electric wires and appliances in the city.

An assistant inspector be employed to be able to thoroughly cover all old installations in the city.

Conclusion.

I wish to thank his honor, the Mayor, the members of the Board of Aldermen, and the several departments for the courtesies received.

Respectfully submitted,

WALTER I. FULLER,

Commissioner of Electric Lines and Lights.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Location: Somerville City Hall (near centre of the city) is 2\% miles northerly from State House in Boston.

Greatest extent of the City north and south about 4.2 miles.
Greatest extent of the City east and west about 2.1 miles.
Elevation Highland avenue at City Hall 105 feet above mean low water.

Lowest building elevation in the city 13 feet.

Highest building elevation in the city 145 feet.

Area of city, including land and water, about 4.22 square miles.

Land, 2,461.50 acres; water and marsh, 238.50 acres.

Population 1915, census, 86,854.

Present population, estimated, 90,000.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.

Construction commenced in 1868.

Source of supply: Metropolitan system, taking water of the Nashua river at Clinton, Mass.

Range of pressure on street mains: Low service 35 to 65 pounds. High service 45 to 100 pounds.

Mayor.

HON. ZEBEDEE E. CLIFF.

Water Commissioner.

FRANK E. MERRILL.

Office of the Water Department.

Room 10, City Hall.

Department Buildings and Yard.

Cedar street, near Broadway.

REPORT OF THE WATER COMMISSIONER.

Office of the Water Commissioner, January, 1917.

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

I present herewith my report for the year ending December 31, 1916, this being the forty-third annual report of the water department and my seventeenth as water commissioner:—

Revenue and Expenditures.

Water bills have been issued as follows:

Water bills have been issued as follows:—	
"Annual" water charges, amounting to "Additional" water charges, amounting to "Metered" water charges, amounting to	\$53,903 00 2,115 50 187,588 46
Annual and Additional. Abatements on above charges . \$1,422 96 \$468 01	\$243,606 96
Troutements on above enarges : 41,122 or 42,000 or	\$1,890 97
Income from sale of water	\$241,715 99
Miscellaneous accounts 2,873 77	6,711 30
Total income of water works	\$248,427 29
This amount was used as follows:—	
For water works purposes:—	
Water works maintenance . \$50,102 33 Water works extension . 17,087 84 Miscellaneous accounts . 2,873 77	
Metropolitan water works assessment . 110,468 29	
Maintenance water works buildings . 1,346 06	\$187,718 29
For other municipal purposes:—	
Surplus to general revenue account . \$60,709 00	60,709 00
	\$248,427 29

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.	- 1
Amount appropriated by board of alder-	D1.	CI.	
men from estimated sales of water and		•	
operating receipts of the water de-			
partment		\$44,000	00
Amount transferred from the Water Works Extension account	1	10,000	00
Department accounts		10,000 836	25
Materials furnished for extension of the		000	20
water works		11,779	03
Amount expended for labor and materials			
for operation, maintenance, and re-	Φ≅0.100.00		
newal of the water works Amount expended for materials used in	\$50,102 33	1	
extension of the water works	11,779 03	1	
Miscellaneous accounts	2,873 77		
Labor and materials furnished municipal			ŧ
departments	836 25		
Amount transferred to Water Works Extension account	950 00		
Unexpended balance	73 90		
	\$66,615 28	\$66,615	28
WATER WORKS EXTENSION A	CCOUNT		
WILLIAM WORKED EARLISMON A			
	D.,,	C.	
Amount appropriated by board of alder-	Dr.	Cr.	
Amount appropriated by board of alder- men from estimated sales of water	Dr.	Cr.	
Amount appropriated by board of alder- men from estimated sales of water and operating receipts of the water	Dr.		
men from estimated sales of water and operating receipts of the water department	Dr.	Cr. \$23,000	00
men from estimated sales of water and operating receipts of the water department	Dr.	\$23,000	
men from estimated sales of water and operating receipts of the water department	Dr.		
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other munici-	Dr.	\$23,000 950	00
men from estimated sales of water and operating receipts of the water department	Dr.	\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department	Dr.	\$23,000 950	00
men from estimated sales of water and operating receipts of the water department	Dr.	\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department		\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other municipal departments. Labor and materials furnished other municipal departments. Amount expended for labor and materials used in extension of the water works.	Dr. \$17,087 84	\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department	\$17,087 84 10,000 00	\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department	\$17,087 84	\$23,000 950 2,300	00
men from estimated sales of water and operating receipts of the water department	\$17,087 84 10,000 00 14 26	\$23,000 950 2,300 852	00 00 10
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other municipal departments. Labor and materials furnished other municipal departments. Amount expended for labor and materials used in extension of the water works. Amount transferred to Water Maintenance account. Unexpended balance.	\$17,087 84 10,000 00 14 26 \$27,102 10	\$23,000 950 2,300	00 00 10
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other municipal departments. Labor and materials furnished other municipal departments. Amount expended for labor and materials used in extension of the water works. Amount transferred to Water Maintenance account. Unexpended balance. Cost of Water Works	\$17,087 84 10,000 00 14 26 \$27,102 10	\$23,000 950 2,300 852	00 00 10
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other municipal departments. Labor and materials furnished other municipal departments. Amount expended for labor and materials used in extension of the water works. Amount transferred to Water Maintenance account. Unexpended balance. Cost of Water Works The total cost of the water works on December 1.	\$17,087 84 10,000 00 14 26 \$27,102 10 s. cember 31,	\$23,000 950 2,300 852	00 00 10
men from estimated sales of water and operating receipts of the water department	\$17,087 84 10,000 00 14 26 \$27,102 10 s. cember 31, s. from ap-	\$23,000 950 2,300 852 \$27,102	00 00 10 10
men from estimated sales of water and operating receipts of the water department. Amount transferred from Water Maintenance account. Amount transferred from other municipal departments. Labor and materials furnished other municipal departments. Amount expended for labor and materials used in extension of the water works. Amount transferred to Water Maintenance account. Unexpended balance. Cost of Water Works The total cost of the water works on December 1.	\$17,087 84 10,000 00 14 26 \$27,102 10 s. cember 31, s. from ap- was	\$23,000 950 2,300 852	00 00 10 10
men from estimated sales of water and operating receipts of the water department	\$17,087 84 10,000 00 14 26 \$27,102 10 s. cember 31, s. from ap- was	\$23,000 950 2,300 852 \$27,102	00 00 10 10 45 84

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$1,101,000, leaving the water debt on December 31, 1916, \$16,000.

The outstanding bonds mature as follows:—

YEAR.	Amount.	Year.	AMOUNT
1917	\$5,000 5,000	1919	\$4,000
1918	5,000	1920	\$4,000 2,000

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1916, inclusive, is shown in the following table:—

Total water income, years 1898 to 1916, inclusive . \$4,349,956 71

Distribution:—

Water Works Account.

Water Works Construction, Renewal,		
Maintenance and Operation	\$1,079,265 23	
Water bonds		
Interest		
Metropolitan Water Assessments	1.644.427 04	
Maintenance Water Works buildings	,- , -	
(1916)	1,346 06	
(1010)		\$3,068,213 33
		40,000,210 00

Other Municipal Accounts.

ific a	nicipal d appropri account	ations	and	gener	al	\$1,281,743	38
nuc i	account	•	·	·		\$4,349,956	

STREET MAINS, GATES, HYDRANTS, ETC., LAID, SET AND REMOVED IN 1916.

			PIP	E.			GA'	TES.			HYDR	ANTS			BLOW	-OFFS	S.
STREET.	DESCRIPTION.	L/	ın.	ABANE	onen.	SE	т.	Removed.		Si	SET.		OVED.	Set.		Remo	VED
		Size	Feet.	Size.	Feet.	Size,	No.	Size.	No.	Size.	No.	Size.	No.	Size.	No.	Size.	No
Auburn avenue	Hydrant; 481 feet west from Cross street.									6"	1	4"	1				
Bow street	Gate on hydrant branch; 13 feet east from west line of Bow street and 102 feet north from Warren avenue. Main gate; 20 feet east from the west line of Bow street and on the south line of					6"	1										
	Walout street. Gate on hydrant branch; 74 feet north from Walnut street. Hydrant; 23 feet west from Wesley park.					10" 6"	1 1			6"		6"	1				
Broadway, opp. Cross st.	Blow-off; 31 feet south from the north line of Broadway and 17 feet 6 inches west from the east line of Cross street.	6"	16	•		6"	1			0.	1	0	1	6"	1		
Broadway Carter terrace	Hydrant; 90 feet east from Mt. Pleasant street (removed from 50 feet east from Mt. Pleasant street). Street main; from connection with main pipe in Summer street, to point ou south					3				6"	i	6"	1				
Chetwynd road	line of Summer street and 13 feet 4 inches out from east line of Carter terrace. Street main; from connection with main pipe in Hillsdale road to connection with main pipe in West Adams street and 13 feet, 4 inches north from the south	6"	32			6"	2										
Cummings street	Street main; from connection with 12 inch main pipe in Mystic avenue to point 238	8"	238	Í		8"	2										
	feet north from the south line of Mystic avenue and 13 feet, 4 inches east from the west line of Cummings street. Hydrant; 2.88 feet north from the south line of Mystic avenue.	8" 6"	230			· 8"	2			6"	1						
Day st. opp. Herbert st. Durham street	Gate on hydraut branch; 8 feet, 6 inches south from the north line of Day street. Hydrant; 5 feet west from Hanson street.					6"	î			6"	1	4"	1				
Oykeman Circle (N. end)	Street main; from connection with main pipe in Marshall street to 6 inch gate set on the east line of Marshall street and 2 feet north from the south line of private way.	6"	12			6"	1								:		
(S, end)	Street main; from connection with main pipe in Marshall street to 6 inch gate set on the east line of Marshall street and 2 feet south from the north line of private way.	6"				6"	,										
Line street Lowell street	Hydrant; 272 feet west from the west line of Cooney street. Street main; from connection with main pipe in Hudson street, to point 118 feet	Ů	12			6"	i	·		6"	1	4"	1				
	north from the north line of Hudson street and 13 feet, 4 inches east from the west line of Lowell street. Hydrant; 118 feet north from the north line of Hudson street.	6" 6"	128			6"	1										
daine avenue	Hydrant; 83 feet north from Pennsylvania avenue. Hydrant; 66 feet south from Mystic avenue.	6" 6"	7 7							6"	1						ķ.
Iaine terrace	Street main; from connection with main pipe in Maine avenue to point 168 feet east from the east line of Maine avenue and 10 feet, 8 inches north from the south line of Maine terrace.	6"	195			6"	1			6"	1						ķ.
fedford street	Main gate; 13 feet east from the west line of Medford street and on the south line of Greenville street. Hydrant; 13 feet north from Prospect Hill avenue.					12" 8"	1			6"	,	8"	1				
7	Gate on hydrant branch; 8 feet south from Greenville street. Gate on hydrant branch; opposite Chester avenue.					8" 6"	1										
Hichigan avenue	Hydrant; 171 feet north from Marshall street. Gate on hydrant branch ; 50 feet north from Hennessey court. Street main; from connection with 12 inch main pipe in Broadway opposite Glen					6" 6"	1			6"	1	6"	1				
	street to connection with 12 inch main pipe in Broadway (in sidewalk) at Michigan avenue, 13 feet, 4 inches west from the west line of Michigan avenue.	12"	54	-		12"	1										
Aiddlesex avenue	Street main: from connection with main pipe in Middlesex avenue at point 23 feet north from the north line of Mystic avenue to point 293 feet north from the north line of Mystic avenue and 11 feet east from the west line of Middlesex																
Aystic avenue	avenue. Hydrant: 70 feet north from the north line of Mystic avenue	12" 6"	265 4			8"	1			6"	1						
Aystic avenue	Street main; from 12 inch main pipe in Mystic avenue at connection with Fellsway West main, crosses Fellsway West diagonally from starting point to point in sidewalk 5 feet north from the south line of Mystic avenue, thence continuing																
	in sidewalk in that location to connection with 8 inch main pipe in Cummings street at point 290 feet east from the east line of Fellsway West. Main gate; 21 feet north from th: south line of Mystic avenue and on the west line	12"	3_0														
)sgood street	Street main; from connection with main pipe in Osgood street at point 13 feet. 4					12*	1										
	inches east from the west line of Loring street, to point 32 feet west from the west line of Loring street and 13 feet, 4 inches south from the north line of Osgood street.	2"	43			2"	1										
Parkdale street	Street min; from connection with main pipe in Washington street to point 25 feet south from the south line of Washington street and 13 feet, 4 inches west from the east line of Parkdale street.	10"	63			10"	1										
Pearl street	Gate on hydrant branch; 6 feet west from Walnut street. Gate on hydrant branch; 72 feet east from Bradley street.					6" 6"	1 1 1			0.11							
Pinckney place	Hydrant; 108 feet east from Marshall street. Street main replaced; from connection with main pipe in Pinckney street to point 126 feet east from the east line of Pinckney street.	4"	155	<u>:</u> "	155	4"	1			6"	1	6"	1				
Pinckney place Rogers avenue	Hydrant; 126 feet east from the east line of Pinckney street (for blow-off purposes.) Hydrant; 255 feet north from Morrison avenue.									6"	1						
Rose street	Street main; from connection with main pipe in Washington street to point 25 feet south from the south line of Washington street and 13 feet, 4 inches west	. "	CD							6"	1	6"	1				
Sumerville avenue	from the east line of Rose street. Gate on lydrant branch; 76 feet east from Hawkins street and 14 feet north from the south line of Somerville avenue.	8"	63			8" 6"	1				ì						
Stone avenue Summer street	Hydrant; 275 feet south from Columbus avenue. Hydrant: 53 feet west from Harvard street.					6"	î .			6" 6"	1	6" 6"	1			ì	
	Gate on hydrant branch; 8 feet east from School street. Gate on hydrant branch; 191 feet west from School street. Gate in hydrant branch; 52 feet west from Preston road.					6" 6"	1 1										
Union square	Gate on hydrant branch; 19 feet west from Laurel street. Gate on hydrant branch; 59 feet east from Central street. Gate on hydrant branch; 207 feet east from Webster avenue and 17 feet north from					6" 6"	1										
Ware street	the south line of Union square. Street main; from connection with main pipe in Russell road to connection with					6"	1							1			
	main pipe in Ware street at point 43 feet west from the west line of Dowstreet and 13 feet 4 inches south from the north line of Ware street. Hydrant; 258 feet west from Curtis street,	6″	138			6"	1	1		6"	1	4"	1				
Washington street	Gate on hydrant branch; 156 feet west from Bonner avenue. Hydrant; 6 feet east from Kingman road. Street main; from connection with main pipe in Washington street at point 13 feet					6"	1			6"	1	6"	1				
	west from the east line of Hawkins street and 21 feet north from the south line of Washington street.	8"	33														
	Hydrant: 7 feet west from the west line of Hawkins street (projected). Gate on hydrant branch: 243 feet east from Parker street and 15 feet south from the north line of Washington street.	6"	11			6"	1			6"	1						
	Hydrant; 50 feet east from Bowdoin street. Gate on hydrant branch; opposite Perry street and 17 feet south from the north					6"	1			6"	1	4"	1				
	line of Washington street. Hydraut; 9 feet east from Leland street. Gate on hydrant branch; 13 feet, 6 inches south from the north line of Washington					6"	1			6"	1	4"	1				
	street and 112 feet east from Dane street. Main gate; 20 feet south from the north line of Washington street and on the west line of Parkdale street.					10"	1										
	- 1					10											
			2,041		155	1	51	1	0		22	1	15		1		6



1,160

WATER DISTRIBUTION SYSTEM—CONSTRUCTION.

STREET MAINS.

Approximate number of feet of str city, January 1, 1916, (including and blow-offs) Feet of street mains laid in 1916 . Feet of hydrant branches laid in 1916 Feet of blow-off branches laid in 19	hydrant bra		534,658
Total feet of pipe laid Feet of street mains abandoned .		2,041 155	
Net increase in feet of pipe	–	• •	1,886
Total approximate feet of pipe in the Total pipe mileage, approximately.	e city .	· ·	536,544 101.63
$egin{array}{cccccccccccccccccccccccccccccccccccc$	E laid and a Size. Feet La 8" 564 10" 63 12" 639		
Street. F Carter terrace	the year ar the of Feet Pipe. Laid. 6" 32 8" 238 8" 230 6" 24 6" 128 6" 195	Feet	WS:— Size Aband.
Middlesex avenue	12" 265 12" 320 2" 43 10" 63 4" 155 8" 63 6" 138 8" 33	155	1"
Total	2,041	155	
Hydrants, Gat Number of fire hydrants in city,	January	4.470	· · ·
1, 1916	22	1,153	
Net increase in number of hydrants.	•••••	7	

Total number of public fire hydrants....

Number of private fire hydrants, January 1, 1916 Number set by private companies during the year In yard of the Vacuum Company, Mystic avenue, 3 Total number of private fire hydrants receiving their supply from the city mains Number of gates in city, January 1, 1916 Number set during the year for new streets Number of section gates set	1,682	
Number set on hydrant branches	51	
Total number of gates in city Number of check-valves in city January 1, 1916 Number set or removed during the year	8	1,733
Total number of check-valves Number of blow-offs in city January 1, 1916 Number added during the year	173 1	8
Tota! number of blow-offs	79 0	174
Total number of waterposts Number of drinking fountains in city, January 1, 1916 Number set or removed during the year Total number of drinking fountains in city	9	79 9
Water Services.		
Number of services in city January 1, 1916, (approximately)	13,233	
Net increase in services	187	
Total number of water services in city		13,420
Amount received for services laid in 1916		\$4,689 63
Number feet service pipe in city January 1, 1916		457,427
Net increase in feet of service pipe		6,255
Total feet service pipe in city (approximately)		463,682

Size and length of service pipes laid in 191	.6:—	
5/8" 3/4" 1" 11/2" 2" 4" 16—536' 169—5755' 7—202' 4—123' 0 1—54'		8"
Number of fire services installed during 1916	• • • • • • •	5
Locations. The Manual Company Mystic avenue		Size. 8"
The Vacuum Company, Mystic avenue		4''
Burns School, Cherry street		6"
City Home, Broadway		6"
Junior High School, Holland street		6"
Water Meters.		
Number of water meters in city, January 1, 1916		9,150
Number installed during the year, new	637	
Number reset	65	
	702	
Number removed on account of permanent or	••-	
temporary discontinuance of water and for		
substitution of other meters	94	
Net increase in number of operating meters		608
Number of motor registers in service		5
Total number of meters and registers		9,763
Per cent. of all services metered		73.47

The kinds and sizes of all meters now installed are shown in the following table:—

Operating Meters December 31, 1916.

17	Size.										
Kind.	5/8"	3/4"	1"	11/2"	2"	3"	4"	6"	- Total.		
Nash	176 5 5 5 257 503 16 64 662 4,125 3,515	3 21 43 13 13 155 21	3 4 9 23 7 1 27	2 1 1 7 1 2	2 1 4 6 2 8 4	2 2 2	3 2	1	176 5 17 1 8 292 1 582 7 12 41 16 64 662 4,308 3,540		
Turbine . Keystone	24						1	1	2 24		
Totals Motor and elevator registers	9,352	269	75	18	27	8	7	2	9,758		

The meter	s instal	led i	n 19	16 w	ere	class	sed	as fo	llov	vs:
Applications	of prop	erty	owne	ers	٠. ا					159
New services	S	•	•	•	•	•	•		•	203
General inst	allation	•	•	•	•	•	•	•	•	275
Reset	•	•	•	•	e	• .	•	•	•	65
Total .	•	•		•	•		•	•		702
Meters we	ere rem	ovec	l for	the	fol	lowi	ng c	cause	es:-	-
Vacancies ar	d temp	orary	non	-use	of v	vater			•	67
Services peri	nanenti	y disc	conti	nued	•	•	•	•	•	7
Replaced by	other r	neter	'S	•	•	•	•	•	•	20
Total .										94

Under the provisions of the Metropolitan Water Act it is necessary that there be installed in this city at least 411 meters each year on services previously unmetered, and meters on all new services when they go into regular use. The number of meters set during the year in excess of the actual requirements of the state law was twenty-three.

The following table gives a summary of the pipes and

fixtures of the water system December 31, 1916:—

Summary of Pipes and Fixtures.

Feet of main pipe (approximatel	ly) .				536,544
Feet of service pipe (approxima	tely)				463,682
Service connections (approximate	tely)				13,420
Public fire hydrants	•	•	•	•	1,160
Private fire hydrants	•	•	•	•	64
Gates	•	•	•		1,733
Check valves	•	•	•	•	8
Meters	•	•	•	•	9,758
Motor registers	•	•	•	•	5
Waterposts	•	•	•	•	79
Blow-offs	•	•	•	•	174
Drinking fountains and troughs	•	•	• .	•	9

WATER DISTRIBUTION SYSTEM-MAINTENANCE. Street Mains.

Nine leaks have appeared in the street mains, which were

speedily repaired.

Examinations were made of sections of pipe which have been cut from the mains in several streets, for evidences of tuberculation. Very little was found in the pieces removed and it is not felt that the distributing pipes are noticeably affected by this condition.

No evidences of electrolytic destruction of the mains has

appeared during the year.

The 1" main supplying houses in Pinckney place was found of insufficient capacity for further use and was replaced with a 4" cast iron main.

Hydrants and Gates.

In addition to the usual inspection of hydrants during the winter season, a general examination is being made of all city hydrants; such repairs as are necessary are given them and a record is kept of their condition.

Plans are under way for a survey of the city for data enabling us to make a complete and accurate record of all street mains, hydrants, gates, etc., connected with the dis-

tribution system.

Services.

Special attention has again been given to the renewal of house services in streets where the highway department has

undertaken paving and sidewalk work.

Service troubles are on the increase with advancing numbers and age of the pipes and require our constant attention. We note from the jobbing records, as one item only, that during the past year 1,066 service pipes were cleaned out on account of poor pressure due to clogging of the pipes and fittings.

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:—

	Sinking			Maturing	
Year.	Fund.	Maintenance.	Interest.	Bonds.	Total.
1898	No divisio	n 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 97	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
		,	•		

\$1.644,427 04

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 1916:—

Gallons

89 gallons

Gallons

Gallons

Metropolitan district

	Ganons	Janons		Ganons	Ganons
Month. p	er day. per	capita	Month.	per day. pe	r capita
January	.6,228,300	71	July	6,031,900	68
February	.6,509,400	74	August	6,440,900	72
March		70		er6,202,600	69
April		63		6,335,100	71
May		66		er6,247,000	70
June		66	Decembe	er6,580,700	7 3
The con	sumption	for the y	vear was:-	_	
Low-service	system .			. 1,733,507,000	gallons
High-service	system .				
Total consum	option .			. 2,263,209,000	
Average daily	consumpti	on .			
Average dail					
Somerville Average dail					gallons
Average dail	v consump	tion, per	capita, fo	or	

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan Water District for the year 1916, as registered by the Metropolitan meters:—

City or Town. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Year Arlington 50 45 Belmont112 114 111 100 102 102 104 106 104 104 101 106 105 Boston Chelsea 69 Everett 77 Lexington 58 45 Malden 43 Medford Melrose Milton 58 110 160 103 Nahant 4958 Quincy $\dots \dots 55$ Revere 71; Somerville 71 Stoneham 51 Swampscott 48 $\dots \dots 59$ Watertown Winthrop 46 Met. Dist. 93

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1916:—

			Per Cent
	GALL		of
City or Town.	Total per Day.	Per Capita per Day.	Services
	• •		
Milton	371,300	42	100
Melrose	781,800	45	100
Medford	1,487,000	46	100
Malden	2,460,200	49	96.11
Belmont	447,800	52	100
Winthrop	707,800	53	100
Stoneham	437,900	58	98.59
Arlington	929,400	59	100
Revere	1,591,200	59	73.57
Swampscott	445,400	59	100
Quincy	2,499,400	59	91.42
137	1,125,500	65	100
C1 1		• • • • • • • • • • • • • • • • • • • •	
Chelsea	3,070,900	68	99.77
Lexington	389,400	69	94.44
Somerville	6,183,600	69	73.47
Everett	2,891,400	74	54.67
Boston	80,358,800	105	58.35
Nahant	159,000	110	69.26
Total District	106,337,800	89	70.81

INTER-SYSTEM CONNECTIONS.

There are numerous connections between the Metropolitan water system and our local distribution system, some of which are continually open and equipped with Venturi meters through which our supply is obtained; others are closed, but equipped with meters, which may be opened and become operative in case of need from increased consumption; still others are closed and not metered but may be opened to bring in an additional quantity of water in case of an emergency.

Arrangements have been made with the Metropolitan Water Board so that should a conflagration or other emergency cause a need of more water, connections normally closed may be speedily opened by their men.

Following is a list of the connections between our local distribution system and the mains controlled by the Metropolitan water works:—

Low-service—Connections that are kept open to supply the low-ser-

vice district of Somerville:—

Webster avenue at Tremont street: Size 24"; Venturi meter operating; throat diameter 8.00".

Walnut street at Pearl street: Size 16"; Venturi meter operating; throat diameter 5.00".

Broadway at Willow avenue: Size 16"; Venturi meter operating; throat diameter 5.25".

Low-service-Connections normally closed that may be opened in case of emergency:—
Elm street at Willow avenue: Size 16"; Venturi meter closed;

throat diameter 5.75".

Medford street at Central street: Size 12"; Venturi meter closed; throat diameter 3.75"

Broadway at Temple street: Size 12"; Venturi meter closed; throat diameter 4.25".

Broadway at Cedar street: Size 12"; unmetered.
Medford street at Magoun square: Size 12"; unmetered.
Heath street at Edgar avenue: Size 12"; unmetered.
Pearl street at Marshall street: Size 10"; unmetered.
Pearl street at Cross street: Size 12"; unmetered.

High-service—Connections that are kept open to supply the high-service district of Somerville:— Boston avenue at Dearborn street: Size 12"; Venturi meter op-

erating; throat diameter 3.75".

Broadway at Cedar street: Size 16"; Venturi meter operating; throat diameter 5.75".

Local High- and Low-Service Connections.

A number of check-valves are installed between the high- and low-service systems of the city, which open automatically if the high pressure is for any reason cut off and allow the low-service water to enter the high-service pipes.

While this affords a supply of water to all portions of the system, the normal pressure on the mains would be considerably reduced and the more elevated districts would have a very inefficient service. This situation was formerly controlled by our auxiliary pump, now out of commission.

Location and size of inter-system check-valves:—

Packard avenue near Mystic reservoir					12"
Dearborn road at Boston avenue		•	٠.		12"
Holland street at Gorham street					12''
Summer street, east side of Cedar street			•		12"
Edgar avenue at Heath street	•	•	•		8"
Broadway opposite Temple street .			•	•	12"
Medford street, north side of Washington			•	•	12"
Washington street at Bonner avenue.	•				10"

HIGH-PRESSURE AUXILIARY SUPPLY.

Specifications and figures were submitted with the yearly department estimates for an auxiliary high-service pump, and an appropriation was requested to cover the installation of a unit in a proposed development scheme for a satisfactory pumping plant to provide for any emergency that might arise in our high-service district through temporary failure of the Metropolitan main to deliver water to us or through insufficiency of our own mains to deliver a needed quantity in case of extraordinary demands, as that of a large fire.

No appropriation, however, was granted for the purpose and we have, therefore, been unable to take any steps toward providing this auxiliary supply.

I feel that my official duty is not fully performed without again bringing this matter to your attention and asking for it your thoughtful consideration and action, for without your

approval and the necessary funds I am unable to make even

a beginning on this protective measure.

The National Board of Fire Underwriters in their survey of this city in May last were so impressed with the city's needs in this respect that they made the installation of a new pumping equipment a recommendation of first importance and urged its early adoption, and in their supplementary bulletin of October 6th they reiterated that it was of vital importance that such equipment be provided for at the earliest possible date.

Respectfully submitted,

FRANK E. MERRILL. Water Commissioner.

GATES SET IN NEW LOCATIONS, 1916.

Bow street, 6-inch gate, set 13 feet east from the west line of Bow street and 102 feet north from Warren avenue, on hydrant branch.

Bow street, 10-inch gate, set 20 feet east from the west line of Bow

street and on the south line of Walnut street.

Bow street, 6-inch gate, set 74 feet north from Walnut street, on hydrant branch.

Broadway, opposite Cross street, 6-inch gate, set 31 feet south from the north line of Broadway and 17 feet 6 inches west from the east line of Cross street, on blow-off branch.

Broadway at Michigan avenue, 12-inch gate, set 2 feet east from the east line of Glen street and 37 feet north from the south line of

Broadway.

Carter terrace, 6-inch gate, set on south line of Summer street, 13

feet 4 inches out from east line of Carter terrace.

Carter terrace, 6-inch gate, set near main, 13 feet 6 inches south from north line of Summer street and 13 feet 4 inches west from east line of Carter ferrace extended.

Chetwynd road, 8-inch gate, set 13 feet 4 inches north from the south line of Chetwynd road and on the west line of Hillsdale road.

Chetwynd road, 8-inch gate, set 13 feet 4 inches north from the south line of Chetwynd road and on the east line of West Adams

Cummings street, 8-inch gate, set 13 feet 4 inches east from the west line of Cummings street and 8 feet north from the south line of

Mystic avenue.

Cummings street, 8-inch gate, set 13 feet 4 inches east from the west line of Cummings street and 121 feet north from the south line of Mystic avenue and on northerly line of Fellsway boulevard sidewalk.

Cummings street, 6-inch gate, set 283 feet north from the south line of Mystic avenue and 4 feet out from hydrant, on hydrant

Day street, opposite Herbert street, 6-inch gate, set 8 feet 6 inches

bay street, opposite Herbert street, o-nich gate, set 8 feet 6 inches south from the north line of Day street, on hydrant branch.

Dykeman circle (north end), 6-inch gate, set 2 feet north from the south line of private way and on the east line of Marshall street.

Dykeman circle (south end), 6-inch gate, set 2 feet south from the north line of private way and on the east line of Marshall street.

Line street, 6-inch gate, set 272 feet west from west line of Cooney

street and 4 feet out from hydrant, on hydrant branch.

Lowell street, 6-inch gate, set 13 feet 4 inches east from the west line of Lowell street and on the north line of Hudson street.

Maine terrace, 6-inch gate, set 10 feet 8 inches north from the south line of Maine terrace and on the east line of Maine avenue.

Medford street, 12-inch gate, set 13 feet east from the west line of Medford street and on the south line of Greenville street.

Medford street, 8-inch gate, set 13 feet north from Prospect Hill avenue, on hydrant branch.

Medford street, 8-inch gate set 8 feet south from Greenville street, on hydrant branch.

Medford street, 6-inch gate, set opposite Chester avenue, on hydrant branch.

Medford street, 6-inch gate, set 171 feet north from Marshall street, on hydrant branch.

Medford street, 6-inch gate, set 50 feet north from Hennessey court, on hydrant branch.

Middlesex avenue, 6-inch gate, set 70 feet north from Mystic avenue and 8 feet east from the west line of Middlesex avenue, on hydrant branch.

Mystic avenue, 12-inch gate, set 21 feet north from the south line of Mystic avenue and on the west line of Fellsway west.

Osgood street, 2-inch gate, set 13 feet 4 inches south from the north line of Osgood street and on the west line of Loring street.

Parkdale street, 10-inch gate, set 13 feet 4 inches west from the east line of Parkdale street and on the south line of Washington street.

Pearl street, 6-inch gate, set 6 feet west from Walnut street, on hydrant branch.

Pearl street, 6-inch gate, set 72 feet east from Bradley street, on hydrant branch.

Pearl street, 6-inch gate, set 108 feet east from Marshall street, on hydrant branch.

Pinckney place, 4-inch gate, set 12 feet north from the south line of Pinckney place and on the east line of Pinckney street.

Rose street, 8-inch gate, set 13 feet 4 inches west from the east line of Rose street and on the south line of Washington street.

Somerville avenue, 6-inch gate, set 76 feet east from Hawkins street and 14 feet north from the south line of Somerville avenue, on hydrant branch.

Stone avenue, 6-inch gate, set 275 feet south from Columbus avenue and 4 feet out from hydrant, on hydrant branch.

Summer street, 6-inch gate, set 8 feet east from School street, on hydrant branch.

Summer street, 6-inch gate, set 191 feet west from School street, on hydrant branch.

Summer street, 6-inch gate, set 52 feet west from Preston road, on hydrant branch.

Summer street, 6-inch gate, set 19 feet west from Laurel street, on hydrant branch.

Summer street, 6-inch gate, set 59 feet east from Central street, on hydrant branch.

Union square, 6-inch gate, set 267 feet east from Webster avenue and 17 feet north from the south line of Union square, on hydrant branch.

Ware street. 6-inch gate, set 13 feet 4 inches south from the north line of Ware street and on the east line of Russell road.

Washington street, 6-inch gate, set 156 feet west from Bonner avenue, on hydrant branch.

Washington street, 6-inch gate, set 6 feet east from Kingman road, on hydrant branch.

Washington street near Hawkins street, 6-inch gate, set 12 feet north from the south line of Washington street, on hydrant branch.

Washington street, 6-inch gate, set 243 feet east from Parker street and 15 feet south from the north line of Washington street, on

hydrant branch.

Washington street, 6-inch gate, set 50 feet east from Bowdoin street and 13 feet south from north line of Washington street, on

hydrant branch.

Washington street, 6-inch gate, set 17 feet south from the north line of Washington street opposite Perry street, on hydrant branch.

Washington street, 6-inch gate, set 13 feet 6 inches south from the north line of Washington street, corner of Leland street, on hydrant branch.

Washington street, 6-inch gate, set 13 feet 6 inches south from the north line of Washington street and 112 feet east from Dane

street, on hydrant branch.

Washington street, 10-inch gate, set 20 feet south from the north line of Washington street and on the west line of Parkdale street.

GATES-RECAPITULATION.

GATES.	2"	4"	6"	8"	10"	12"	14"	16"	20"	Total.
Set	1	1	36 —	7	3 _	3 —	_	_	_	51

FIRE HYDRANTS.

Construction-Renewal-Removal, 1916.

Auburn avenue, 6-inch Corey hydrant set and 4-inch Boston Machine hydrant removed, at 481 feet west from Cross street.

Bow street, 6-inch Corey hydrant set and 6-inch Holyoke hydrant

removed, at 23 feet west from Wesley park.
Broadway, 6-inch Holyoke hydrant, set 90 feet east from Mt. Pleasant street.

Broadway, 6-inch Holyoke hydrant, removed from 50 feet east from

Mt. Pleasant street.
Cummings street, 6-inch Corey hydrant, set 238 feet north from the south line of Mystic avenue.

Durham street, 6-inch Chapman hydrant set and 4-inch Bigelow hydrant removed, at 5 feet west from Hanson street.

Line street, 6-inch Corey hydrant set and 4-inch Boston Machine hydrant removed, at 272 feet west from west line of Cooney street.

Lowell street, 6-inch Corey hydrant, set 118 feet north from the north line of Hudson street.

Maine avenue, 6-inch Corey hydrant, set 83 feet north from Pennsylvania avenue.

Maine avenue, 6-inch Corey hydrant, set 66 feet south from Mystic avenue.

Medford street, 6-inch Chapman hydrant set and 8-inch Chapman hydrant removed, at 13 feet north from Prospect Hill avenue.

Medford street, 6-inch Chapman hydrant set and 6-inch Mathews hydrant removed, at 171 feet north from Marshall street.

Middlesex avenue, 6-inch Corey hydrant, set 70 feet north from the north line of Mystic avenue.

Pearl street, 6-inch Chapman hydrant set and 6-inch Holyoke hydrant removed, at 108 feet east from Marshall street.

Pinckney street, 6-inch Holyoke hydrant, set 126 feet east from the

east line of Pinckney street, for blow-off purposes.
Rogers avenue, 6-inch Corey hydrant set and 6-inch Coffin valve hydrant removed, at 255 feet north from Morrison avenue.

Stone avenue, 6-inch Corey hydrant set and 6-inch Coffin hydrant removed at 275 feet south from Columbus avenue.

removed, at 275 feet south from Columbus avenue.

Summer street, 6-inch Corey hydrant set and 6-inch Boston Machine hydrant removed, at 53 feet west from Harvard street.

Ware street, 6-inch Corey hydrant set and 4-inch Boston Machine hydrant removed, at 258 feet west from Curtis street.

Washington street, 6-inch Corey hydrant set and 6-inch Holyoke hydrant removed, at 6 feet east from Kingman road.

Washington street, 6-inch Corey hydrant, set 7 feet west from the west line of Hawkins street (projected).

Washington street, 6-inch Corey nydrant set and 4-inch Boston Machine hydrant removed, at 50 feet east from Bowdoin street. Washington street, 6-inch Corey hydrant set and 4-inch Boston Machine hydrant removed, at 9 feet east from Leland street.

HYDRANTS-RECAPITULATION.

Hydrants.	4"	6"	8"	Total.
Set Removed	6	22 8	<u>_</u>	22 15

Net increase in number of hydrants in 1916 Total number of hydrants in the city December 31, 1916 1,160

Summary of Statistics.

FOR THE YEAR ENDING DECEMBER 31, 1916.

In form recommended by the New England Water Works Association

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

GENERAL STATISTICS.

Population, census 1915, 86,854; present, estimated 90,000.

Date of construction: commenced in 1868.

By whom owned: City of Somerville. Source of supply: Metropolitan water system. Mode of supply: Water is delivered into the city's mains, under both high and low pressures, by the Metropolitan Water Works.

STATISTICS OF CONSUMPTION OF WATER.

Estimated total population at date, 90,000. Estimated population on lines of pipe, 90,000. Estimated population supplied, 90,000. Total consumption for the year, 2,263,209,000 gallons. Average daily consumption, 6,183,600 gallons. Gallons per day to each inhabitant, 69.

STATISTICS RELATING TO DISTRIBUTION SYSTEM, 1916.

MAINS.

Kind of pipe, cast-iron.

Sizes, from 4-inch and under to 20-inch.

Laid 2,041 feet; discontinued 155 feet; net extension, 1,886 feet.

Total now in use, 101.63 miles.

Number of leaks per mile, .11.

Number of hydrants added during year (public, 7; private, 3), 10. Number of hydrants (public and private) now in use, 1,224. Number of stop gates added during year, 51. Number of stop gates now in use, 1,733. Number of blow-offs, 174.

Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES.

Kind of pipe: Lead; wrought iron—lead-lined; wrought iron—cement-lined; cast iron.
Sizes, one-half to eight inches.

Extended less discontinued, 6,255 feet.

Total now in use, 87.82 miles.

Number of service taps added, 202; discontinued, 15; net increase, 187.

Number now in use, 13,420.

Number of meters added, 702; discontinued, 74; net increase, 608.

Number now in use, 9,763.

Percentage of services metered, 72.75.

Percentage of receipts from metered water, 77. Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 5 (included in number of meters).

FINANCIAL STATISTICS.

			\$52,976.10 840.00 5,000.00 1,346.06		\$17,087.84	110,468.29	60,709.00	\$248,427.29
	rs \$50,102.33	2,873.77		\$6,822.51 5,704.57 4,560.76	•		60,709.00	•
EXPENDITURES.	Water Works Maintenance:— Operation (management, repairs and renewals) \$5	Special:— Miscellaneous accounts	Total maintenance Interest on bonds Payment of bonds Water Works Buildings	Water Works Construction: — Mains	Total construction	Unclassified expenses:— Metropolitan water assessment .	Balance:— Ordinary Total balance	Total Total
	\$54,595.54 187,120.45	\$241,715.99	3,837.53 2,873.77					. \$248,427.29
REVENUE.	From Water Rates:— Fixture rates Meter rates	Total from consumers From other sources:—	Water service assessments Labor and materials					Total

Disposition of balance: applied to municipal purposes.

Cost of works to date . . . \$1,038,662.29

Bonded debt at date 16,000.00

Average rate of interest, 4 per cent.

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT

OFFICE OF CHIEF OF FIRE DEPARTMENT, Somerville, Mass., February 23, 1917.

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, 1916:—

Alarms of Fire.

Number of bell alarms Number of still alarms		•	•	•	•	245 333
Total alarms					-	
Number less than 1915	•	Ċ	•	•	•	
Value of buildings at risk .	·					\$645,370
Insurance on buildings					Ĭ	439,075
Damage to buildings	Ĭ			Ť	Ĭ	56,551
Value of contents						200,434
Insurance on contents		· ·				118,670
Damage to contents			Ĭ	·		55,903
Total value at risk		·		·		845.804
	•	•	•		•	845,804 557,745
Total insurance Total damage	•	•		·	Ċ	112,454
Total damage	•	•	•	•	·	112,101
List of Prob	able	Caus	es.			
A: 1 t - 1						9
Accidental	•	•	•	•	•	3
Automobiles and trucks	•	•	•	•	•	4
Bonfires	•	•	•	•	•	7
Carelessness with matches	•	•	•	•	•	10
Cigars, cigarettes and pipes	-1	•	•	•	•	22
Children playing with mat	cnes	•	•	•	•	18
Clothing near stove .	•.	•	•	•	•	2
Closet lires	•	•	•	•	•	2
Closet fires	•	•	•	•	•	11
Detective chimneys .	•	•	•	•	•	14
Drying plaster	•"	•	•	•	•	2
Dump fires	•	•	•	•	•	9
Electric car Electric wires Fire in Cambridge . Fire in Charlestown .	•	•	•	•	•	1
Electric wires	•	•	•	•	•	2
Fire in Cambridge .	•	•	•	•	•	6
Fire in Charlestown .	•	•	•	•	•	1
Fire in Medford	•	•	•	•	•	2
False alarms	•	•	•	•	•	29
False alarms Filling gasoline tank . Gas jet improperly placed	×	•	•	•	•	1
Gas jet improperly placed	•	•	•	•	•	5
Grass fires Hot ashes	•	•	•	•	•	11
Hot ashes	•	•	•	•	•	10
Incendiary		•	•	•	•	21
Kerosene lamps and stoves	•	•	•	•		8
Leaking gas tube .			•		•	1
Leaking gas meter .	•		•	•	•	1
Leaking gas tube Leaking gas meter Light mistaken for fire						2
Lace curtain in contact w	ith g	as		•		6
Overheated oven in bakery						1
Overheated furnaces and st	oves			•	•	13

Rats and matches . . .

Smoking in bed .		•					2
Spark from locomotive							3
Thawing water pipes			•	•			3
Unknown	•		•	•			5
Using paint remover		•	•	•	•	• •	1
Wick in cup of oil	•	•	•	•			1
Wire in tree	•	•	•	•			1
Wooden spittoon	•	•	•	•	•	•	1
						-	
							245

Service of Companies in Fire Department, Year 1916.

Companies,		Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 3.	Hose 5.	T əsoH	Hose 8.	Ladder 1.	Ladder 2.	Ladder 3.	Totals.
Bell alarms responded to		204	147	88	24	134	11	77	79	130	74	45	245
Still alarms responded to	•	70	18	18	51	51	22	30	39	16	က	15	3 55
Miles traveled	•	420	298	179	861/4	1631/2	248	163 1/2	300	1331/2	124	65	2,18034
Feet of 2% inch hose used .	•	27,800	10,550	7,400	5,200	18,400	9,100	7,100	3,700		•	•	89,250
Feet of chemical hose used .		18,300		•	3,350	12,750	11,300	000,6	3,000		•	4,200	61,900
Feet of ladders used		09	•	130			280		35	2,970	2,431	993	6,899
Chemical extinguishers used	•	11	-	15				6	10	12	•	4	69
Gallons of chemical used .		3,120		•	665	1,375	2,100	1,827	270	•	•	109	10,066
Times on duty at other stations	•	•		•	67		H	T				—	ಸ್
Times responded out of town	•	12	00	•	24	18	83	•	12	ಣ	•	•	19
Rubber covers used						•		•		10	18	ಬ	35

Manual Force.

During the year two (2) men have been placed upon the retired list and one (1) is on an indeterminate leave; one (1) permanent man has been appointed from the eligible list of the classified service, and one (1) callman has been promoted to the permanent force under Chapter 487, Acts 1913. The force of the department now consists of seventy-seven (77) permanent and fifteen (15) callmen, as follows:—

Chief Engineer.

- First Assistant Engineer. Second Assistant Engineer.
- 7 Captains. 11 Lieutenants. 1 Master Mec
- Master Mechanic.

- 1 Master Mechanic.
 3 Enginemen.
 4 Assistant Enginemen.
 8 Permanent men.

15 Callmen.

Apparatus.

The department apparatus consists of the following:—

Second size, horse drawn steam fire engine.
Third size, horse drawn steam fire engine.
Horse drawn combination chemical engine and hose wagons.
Horse drawn hose wagon.
Horse drawn combination ladder truck and chemical engine.

Horse drawn ladder truck. Motor driven ladder truck.

Motor driven combination chemical engine and hose wagons.

Second size tractor drawn steam fire engine.

Motor driven 900 gallon pumping engine and hose wagon.
Motor driven supply and wrecking car.
Automobile Chief's car.
Automobile Assistant Chief's car.
Four wheel buggies for Assistant Chiefs.

- 2 Horse drawn relief hose wagons. 1 Horse drawn relief ladder truck.

Exercising wagons. 1 Supply wagon.

Horses.

There are twenty-one (21) horses in the department, seven (7) having been disposed of during the year, five (5) horses were transferred to the Highway department, and two (2) sold at private sale.

Hose.

The amount of serviceable hose in the department is 10,000 feet of two and one-half inch rubber lined cotton hose and 2,150 feet of three-quarter inch chemical hose.

There has been purchased 600 feet of new hose, and 600 feet condemned.

Brief Resume.

The fire loss in January was more than one-half the total loss of the year as shown by the following table giving the losses by months:—

•										
January.									\$59,697	51
February									12,279	15
March .									4,903	00
April .									3,232	
May .		•	4			,			4,423	
June .						•	•		6,785	
July .				•					1,990	
August .			•						3,572	
September			•	•					642	
October			•		•	•			1,497	
November	•	•	•	•	•	•	•	•	3,427	
December	•	•	•	•	•	•	•	•	10,006	10

\$112,454 76

There have been but fifteen fires with an insurance loss

exceeding \$1,000, as follows:—

January 16, (Sunday) 10.20 A. M. Box 443 was sounded followed by a general alarm; the department was called upon to fight a fire in the Sprague-Hathaway Co. building, 56-62 Day street; this is one of the city's large commercial enterprises. The insurance loss totalled \$57,177.51; this was one of the most disastrous fires that has visited our city for more than twenty-five years; falling walls more or less seriously injured ten members of the department, but fortunately with no fatal results.

January 29, 12.43 P. M. Box 411, 6 Acadia park, three-apartment house owned by Mrs. Katherine Podguiski; occupants, Charles E. Emerson, Walter R. Dolliver and Henry Gartland. Damage to building, \$964; to contents, \$235. Cause, defective chimney.

February 11, 5.20 P. M. Box 435, 594 Broadway, store and dwelling owned by Edward Ronan; occupants, Joseph B. Siggens and Andrew Ross. Damage to building, \$1,000; to

contents, \$450. Cause, leaky gas tube.

February 13, 9.37 A. M. Box 38, 29 Warwick street, dwelling owned by Herrick heirs; occupied by Frederick Baldwin. Damage to building, \$710; to contents, \$400. Cause, defective chimney.

February 16, 10.22 P. M. Box 225, 295 Somerville avenue, periodical store in the Hill building owned by Herbert Jay; occupied by Jacob Eidelson et al. Damage to building, \$502;

to contents, \$1,519.15. Cause, probably incendiary.

February 24, 6.57 P. M. Box 42 was sounded followed by general alarm, corner Beacon and Sacramento streets, wood and coal yard owned and occupied by the J. Adams Coal and Wood Co. Damage to building, \$1,000; to contents, \$981. Probable cause, spark from locomotive.

February 27, 3.13 A. M. Box 46, Kent street, brick building owned and occupied by the Fertilizer Manufacturing Corporation. Damage to building, \$725; to contents, \$2,200. Cause, overheated boiler.

March 22, 12.40 P. M. Box 424, 33-33-A Hancock street, three-apartment house owned by E. R. Porter; occupants, Frank McNamara, Pearl Hass and Henry T. Keene. Damage to building, \$1,495; to contents, \$811.50. Cause, accidental.

March 26, 8.46 P. M. Box 115, 6 Flint street, dwelling owned and occupied by C. Sapisnoza. Damage to building, \$775; to contents, \$260. Probable cause, thawing water

pipes.

April 30, 12.50 A. M. Box 28, a second alarm was sounded for this fire, 474 Somerville avenue, Cooper shop and barrel storage; building owned by Berry and Creelman; occupied by S. Armstrong Co. Damage to building, \$1,500; to contents, \$500. Cause, defective brick fireplace.

June 30, 6.46 A. M. Box 23, brick macaroni factory at 45-47 South street owned and occupied by Michele Capodilupo. Damage to building, \$2,670; to contents, \$2,420. Cause,

careless smoker.

August 31, 11.35 P. M. Box 425, 22 St. James avenue, dwelling owned by Albert Ober; occupants, F. J. Dowd and Mrs. Mary Hallett. Damage to building, \$949; to contents, \$433.50. Cause, accidental.

November 14, 8.40 P. M. Box 117, 3 Cutter street, stable owned by Joseph Cohen; occupied by Charles L. O'Neil. Damage to building, \$700; to contents, \$800. Cause, un-

known.

December 24, 8.43 A. M. A second alarm was sounded for this fire, Box 213, 74 Walnut street; a six-family apartment owned by Mrs. Mary F. Stevens, trustee; occupants, E. M. Gorman, E. Spaulding, W. S. Wiggin, W. J. Willard, Mrs. Nelson and Mrs. Stevens. Damage to building, \$5,280; to contents, \$1,570. Cause, careless janitor.

December 27, 4 A. M. Box 436, 10-12 Pearson road, dwelling owned by George Ohse; occupants, Herbert Ericson and A. G. King. Damage to building, \$1,500; to contents,

\$461. Cause, combustion, oily rags.

There has been no diminution in the number of false alarms, there being twenty-nine (29), the same as last vear. This is all too many, taking into consideration that but eleven were sounded on June 17 and July 4, thereby leaving eighteen (18) at other times when deliberation rather than deviltry prevails. As stated in my previous reports every effort should be put forth to apprehend this class of criminals and the heaviest penalties imposed.

Users of cigars, cigarettes and pipes and incendiaries

divide the doubtful honor of causing a like number of fires; the only difference in the responsibility is that the smoker accomplishes the same result from carelessness that the in-

cendiary does through design.

On January 22, at 2 P. M., Hose No. 2 on Marshall street was replaced by a motor-driven double tank combination chemical engine and hose wagon. This piece of apparatus should have been ready for service the latter part of last year, but the chassis was not delivered until the last week in December. The construction, assembling and attachment of the body and equipment were most admirably done by the joint work of Captain John T. Coneeny and George W. Tripp, to whom too much commendation cannot be given. Having this work done in the department workshop made a saving to the city of upwards of \$1,700. On the installation of this piece of apparatus the number was changed from Hose No. 2 to Hose No. 8; this was done to carry out the numerical arrangement of the department in regard to houses and equipment. The maintenance expense of this piece of apparatus for the year has been but \$79 as against \$370 for a horse-drawn machine of like capacity.

In my recommendations of last year I suggested the replacement of the steam fire engine at Engine No. 2 Station with a motor pumping engine. Such an engine was ordered from the Ahrens-Fox Fire Engine Co. of Cincinnati, Ohio. On September 2 this engine was tested at the corner of Temple street and Mystic avenue and delivered 945 gallons of water per minute at 120 pounds pressure, this being 145 gallons in excess of the contract. This machine was immediately accepted and put into service September 6 at 3

P. M.

The very general agitation against the increased insurance rates in this city, which have been so materially raised in the past two or three years, was fully recognized by his honor, the Mayor, and at his request the National Board of Fire Underwriters made a resurvey of the city, beginning in May, the last having been made in 1906, ten years ago.

Engineers Barker and Charnock spent several weeks going over the general conditions of the city and particularly its fire-fighting facilities. Their report was exhaustive, elaborate and complete; relative to the number of fires and losses, their statement was that the average number of fires per 1,000 population was moderate and the average loss per capita was \$1.34, a low figure. On September 18-19 Engineer Howland followed up with a supplementary report recommending early and favorable action with reference to the following recommendations, which were emphasized as being of special urgency: "Auxiliary supply to the high ser-

vice water supply; more permanent men and additional motor apparatus for the fire department, and improved building ordinances."

Recommendations.

In the past five years ten of the sixteen pieces of apparatus in the department have been motorized at a cost of \$43,953. A complete motorization of the department is needed and desired and can be fully accomplished with the expenditure of not more than \$29,000. In event of an appropriation for new apparatus this year, the most important is the equipping of the Teele Square Station with a triple combination pump, hose and chemical engine, and the attaching a tractor to Ladder 3 located in Engine No. 2 Station, thereby completing the motorization of this station as well as the Teele Square Station; eight horses would be released from service and without doubt could be disposed of at a minimum price of \$2,000. The result would be that six of the eight stations in the city would be fully motorized.

The discontinuance of the call force, consisting now of but fifteen members, should be given serious, and, if possible, immediate attention and placing the department upon a full-paid and permanent footing. With the adoption of motor apparatus the manual force must of necessity be ever present to respond with the apparatus. Stopping while responding to an alarm to pick up callmen, as has been the practice in the past with horse-drawn apparatus, is out of the question if the full benefit and efficiency of motor appara-

tus is to be obtained.

The re-enactment of the so-called "Shingle Ordinance" prohibiting the replacement of more than twenty-five per cent. of any existing combustible roof covering that may hereafter be repaired, is a long stride in the right direction in the reduction of our city's conflagration hazard. Our building ordinances should be immediately amended, in fact a new building code should be adopted to lessen the congestion of frame construction. The urgency of immediate establishment of fire limit districts is imperative in order that suitable fire barriers may be set up to aid in cutting off any serious fire that may visit us and thereby preserve our city from ever being classed with our immediate neighbors, Chelsea and Salem.

In Conclusion.

I wish to express my thanks and appreciation for the universal courtesy and good will shown me by his honor, the Mayor, and the Board of Aldermen. I also thank the police department for the assistance given us at fires, and last,

but not least, I fully recognize the loyalty and the cheerful and helpful co-operation given me by my officers and men, and commend them for the very able and efficient manner in which they performed their duties.

Respectfully submitted,
SEWALL M. RICH,
Chief Engineer.

REPORT OF THE CHIEF OF POLICE.

OFFICE OF THE CHIEF OF POLICE, CITY OF SOMERVILLE, February 10, 1917.

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, 1916:—

Financial Statement.

Appropriation Transfer from Mainter	•	• T31	•	•.	T.	•	•	\$109,500 00
Building account	nance	Ele	ctric	al	D epa	irtme	nt	271 84
Transfer from Interest a	eccoun	· it			•	•	•	225 00
			Ť		Ť	·	_	
					,			\$109,996 84
Expenditures:—	1010				Φ1Ω ¹	7 007 (0.1	
Salaries to December 31, Departmental expenses	1910	•	•	•	\$10	7,007 9 2,683 4	40 41	
Transfer, Highway Maint	enance	· e acc	·	•	· ·	274		
		o acc					_	\$109,965 31
							-	
Balance			•	•	•	•	•	\$31 53
	A	Arres	its.					
Whole number of arrests								1,759
With and without warran			•	•	•	1,37	75	1,100
On summons and notifica				•		38		
				-				1,759
Males	•	•	•	•		1,65		
Females	•	•	•	•		10)3 	1,759
Americans						1,13	 81	1,700
Foreign born	•		•	•		62		
				-				1,759
Residents	•	•	•	• ,		1,12		
Non-residents	•	•	•	•		63	9	1,759
				_				1,700
1.—Crimes and	Offer	nses	Aga	inst	the	Pers	on.	
Assault							1	
				•			5	
Assault with dangerous w			•	•			9 2	
Assault with intent to mu		•	•	•		11		
Assault and battery . Manslaughter		•	•	•			$\frac{1}{4}$	
Murder							$\overset{-}{\overset{-}{2}}$	
Murder, witness to .								
Rape (fugitive from justic	:e) .		•			4	$\frac{1}{2}$	
Robbery			•	•			2 5	
Threats	•		•	•			_	146

2.—Crimes and Offenses Against Property.

Breaking and entering			92
Breaking and entering, attempt		•	2
Breaking and entering railroad ca	ar.	•	2
Breaking glass, wantonly		•	9
Burning a building			1
Injury to personal property .			5
Larceny			90
Larceny, attempt			16
Larceny in building			1
Larceny from person			4
Malicious mischief			7
Receiving stolen goods			2
Setting fire in the open			1
Trespass			102
Unlawful appropriation of horse		•	6
Unlawfully interiering with water	meter		3
Unlawfully riding on freight cars			7
, , , , , , , , , , , , , , , , , , , ,			

350

3.-Crimes and Offenses Against Public Order, etc.

Abandonment of minor child	2
Adultery	$\frac{2}{1}$
Bail surrender	8
Bastardy	22
Capias	$\frac{8}{2}$
Carrying revolver without license	2
City ordinances, violation of	85
Contempt of court	1
Cruelty to animals	5 7 4
Default	7
Desertion of wife	
Disturbing public assembly	10
	15
Drunkenness	618
	22
Escape from custody of State Board of	
Charity	2
Charity	
Board of Charity	1
Escaped prisoner	1
Gaming implements, present where found	62
Giving false alarm of fire	3
Idle and disorderly	3 3 6
Indecent exposure of person	6
Interrupting funeral procession	1
Lewd cohabitation	2
Neglected children	21
Neglect of family	114
Neglect to support illegitimate children.	$\frac{2}{1}$
Obstructing street railway car	1
Offering for sale tainted meat	1
Parole, revoke of	6
Polygamy	2
Promoting lottery	6
Safe keeping, demented	10
Safe keeping, feeble minded	7
Counied forward	1,061
Carried forward	1,001

Brought forward		. 1.0)61
Safe keeping, inebriates .			2
Safe keeping, infirm Safe keeping, insane			1
Safe keeping, insane			8
Safe keeping, pauper		•	1
Safe keeping, runaway boys			11
Safe keeping, runaways fro	m Lyn	ian	
School for Boys			3
Safe keeping, sick person.		•	1
Selling adulterated food .		•	2
Selling adulterated food . Selling potatoes other than by	r weight		1
Sodomy			1
Stubbornness			15
Unsealed dry measure, in poss	ession o	f .	1
Vagrancy		•	9
Violation of health regulation		•	1
Violation of labor law .		•	1
Violation of liquor laws .		•	6
Violation of Lord's Day . Violation of milk laws .		•	44
Violation of milk laws .			27
Violation of motor vehicle law	s .		46
Violation of plumbing law.			1
Violation of rules of Middles	ex Cour	ıty	•
Training School	•	•	1
Violation of school laws .	• •	•	3
Violation of terms of probation Violation of traffic rules .	в.	•	15
violation of trame rules.	•	•	1 262
			
Reca	pitulatio	n.	
(1) Crimes and Offenses Ag	rainct t	ho	
Person	gamst t		46
	st Proper		50
(2) Crimes and Offenses Agains(3) Crimes and Offenses Agains			00
Order, etc		. 1,20	63
order, etc			
Whole number of arrests mad	le .		1,759
Bailed to appear at other cour			14
Cases in which nolle prosequi w		•	18
Contempt of court			1
Delivered to jail at East Camb	ridge, b	ail	
surrender, indictment, etc.			7
		•	1
Delivered to police court, Some		· io-	•
Delivered to police court, Some lation of probation, capias, d	rville, v		18
lation of probation, capias, d	rville, v lefault, e	tc.	
lation of probation, capias, d Delivered to superior court, barder, capias, etc.	erville, valle lefault, e ail surre	tc.	
lation of probation, capias, d Delivered to superior court, barder, capias, etc.	erville, valle lefault, e ail surre	tc.	18
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Note.—Three hundred and fifty of the above number of cases were juveniles and delinquents.

Miscellaneous Reports.

Abandoned automobiles, found				7
	•	•	•	. i
A * 1			•	357
Amount of stolen property recover	· omod	•	•	\$9,434 25
Amount of shordened automobile	foun		•	
Amount of abandoned automobile			•	. 700 00
Amount of property damaged an	d des	troyed	•	. 128 00
Amount of property lost	. •	•	•	. 1,065 77
Amount of lost property recovered	1.		•	. 504 67
Assaults	•		•	. 43
Assault with dangerous weapon				. 1
Attempts to break and enter.				. 47
Attempts to commit larceny.			•	. 8
Attempts to commit suicide .				. 4
Attempts to rob				
Attempts to rob				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Bank call, false alarm of	•	•	•	i
Bridge steps dangerous from snow	, , and	100	•	. 1
Breaking and entering, false alarm	n of	icc .	•	. 11
			•	
Buildings broken and entered, no	timing	storen	•	. 40
Buildings found open Burglar call, false alarm of .	•	•	٠	. 398
Burglar call, talse alarm of .	•	•	•	. 1
Cat killed	•		•	. 1
Child rescued from fire in building			•	. 1
Cruelty to animals				. 4
Cruelty to children				. 3
Dead animals found				. 9
Dead body found				. 1
Defective bridges	•	•	•	· 7
Defective buildings	•	•	•	. 6
Defective catch basins	•	•	•	. 18
	•	•	•	
Defective drinking fountains.	•	•	•	. 5 . 5
Defective electric lights	•	•	•	
Defective fences	•	•	•	. 10
Defective fire alarm box	•		•	. 1
Defective fire alarm tappers .	•	•	•	. 2 . 2 . 3
Defective gas gate boxes			•	. 2
Defective hydrants				
Defective lamp post				. 1
Defective manhole covers .				. 7
Defective poles and posts				. 10
Defective police signal boxes.				. 8
Defective sidewalks	·	•	•	. 409
Defective sidewalk, lighted .	•	•	•	103
Defective signs and sign posts	•	•	•	. 51
Defective signs and sign posts Defective stone wall.	•	•	•	
Defective stone wan	•	•	•	. 1
Defective streets	•	•	•	. 224
Defective tree protectors	•	•	•	. 4
Defective voting list boards .	•		•	. 5
Defective water gate boxes .				. 69
Defective wires			•	. 52
Demented persons				. 5
Destitute families				. 7
Disturbances				. 28
Disturbances suppressed				. 9
Dogs killed				18
Dogs, vicious		•		. 7
Electric lamps broken	•		•	. 13
False report of attempt to burn by		~	•	. 13
raise report of attempt to burn b	undini	S •	•	. 1

Fatal burning accident		•	•	. 1
Fire, alarms given for		•	•	. 4
Fire, needless alarm for		•	•	. 1
Fires, extinguished without alarm			•	. 3
Fires, false alarms of		•		. 32
Fires reported		•	•	. 229
Fraud		•		. 4
Gas pipes leaking		•		. 3
Gas poisoning		•		. 4
Heat prostrations		•	•	. (
Horse shot and killed				. 1
Houses unoccupied			•	. 75
Indecent exposure of person.		•	•	. 16
Infirm persons		•		. 2
Insane person		•	•	. 1
Larcenies, no value given .		•		. 103
Larcenies		•	•	. 476
Lost children				. 292
Lost children found				. 292
Lottery reported				. 1
Malicious mischief				. 63
Missiles thrown at railroad trains			Ž	. 4
Missing persons			·	. 72
Missing persons found		·		. 49
				. 1
Murder Murder, attempt				
Needy families		·		
Neglected children				. ē
Nuisance		·	•	Ī
Obstructions on railroad track				i
Obstructions on sidewalks .		·		. 10
Obstructions on sidewalks, lighted	1	•		. 2
Obstructions on sidewalks, remove				
Obstructions in streets		•		. 33
Obstructions in streets, lighted				. 19
Obstruction in street, removed		·		
Panes of glass broken	•	•	·	. 198
Permits to labor on Lord's Day	•	·	·	. 168
Persons bitten by dogs	•	•		. 17
Persons helped home		·		. 4
Pheasant captured	•	•	·	. 1
Poisoning cases	•	•	•	. 2
Property damaged and destroyed	•	•	•	$egin{array}{cccc} 22 & 23 & 23 \end{array}$
Property damaged and destroyed Property lost, no value given .	•	•	•	48
Property found, no value given	•	•	•	$\overline{59}$
Robbery	•	•	•	. 3
Runaway children	•	•	•	. 14
Runaway children found	•	•	•	. 34
	•	•	•	
Runaway horse	•	•	•	• 9
Runaway horses stopped.	•	•	•	•
Runaway teams	•	•	•	
Runaway teams stopped	nd ice	•	•	$\overset{\circ}{222}$
2140 / 40110 441180	nd ice	•	•	. 222
Stray Angora cats	•	•	•	. 2
Stray Angora cats found .		•	•	. 5
Stray bullets fired	•	•	•	. 3
Stray cows found	•	•	•	. 1
Stray deer	•	•	•	69
Stray dogs	•	•	•	. 55

Stray donkey .								•	1
Stray donkey found								,	1
Stray horses . Stray horses found				•				•	4
Stray horses found			•						7
Stray Persian cat	•		•						1
Stray teams .								•	18
Stray teams . Stray teams found									25
Stray tiger cat.								•	1
Streets dangerous fr	om si	now	and	ice				•′	7
Streets and sidewalk	s floo	bobc						•	23
Street lights reporte	d								2,870
Streets littered .						•			2
Strike					9			•	1
Subway flooded.		•						•	1
Sudden deaths .								•	4
Suicide									1
Summonses served for	or wi	tness	ses a	nd de	efend	lants	to a	p-	
pear in court at	othe	r pla	ces				•	•	231
Suspicious persons						•		•	69
Throats									2,
Trees dangerous									32 ′
Trees dangerous Trees defective								•	3
Trespass								•	61
Trespass Unlawful appropriat	ion o	f tea	ams						5
United States letter	box	foun	d op	en					1
Violation of board o	f hea	lth i	rules					•	18
Violation of building	law	s				•			5
Violation of city ord									134
Violation of fire lav									2
Violation of Lord's	Day								10
Violation of Metropo	litan	Par	k ru	les					1
Violation of motor v									5
Violation of pool roo									1
Water pipes leaking									107
		1							44
		•							

Official Roster of Department.

CHIEF OF POLICE.

Charles A. Kendall

LIEUTENANTS.

Eugene A. Carter Charles E. Woodman James M. Harmon John A. Ray Thomas Damery Michael T. Kennedy

SERGEANTS.

William G. Kenney Frank H. Graves James M. Lynch Ernest Howard

PATROLMEN.

1—Edward M. Carter 2—George L. Smith 3—Francis A. Perkins 4—Jacob W. Skinner 5—Theodore E. Heron 6—Charles W. Stevens

7—Daniel G. Simons 8-Samuel Burns 9-Jothan: Chisholm 10-William J. Davidson 11-Elmer E. Drew 12-John A. Dadmun

13—George L. Rice
14Myron S. Gott
15-Charles W. Reick
16-Frank C. Hopkins
17—Charles W. Allen
18—Hudson M. Howe
19—Ernest S. Goff
20-Sanford S. Lewis
21—Henry A. Sudbey
22—Thomas F. McNamara
23—Louis F. Arnold
24—Charles S. Johnston
25-Robert T. Blair
26—Claude L. Crossman
27—John J. Cummings
28—Edmund J. Keane
29—Denis Neylon
30—Denis Downey
31—Edward M. Davies
32—George A. C. Peters
33—James E. Phillips
34—Louis J. Belzarini
35-Walter Reed
36—Dennis G. Mulqueeney
37—Patrick J. Doolin
38—Edward J. Hopkins

41—Joseph A. Dwyer
42—Thomas P. Walsh
43—Clyde W. Steeves
44—Augustine J. Fitzpatrick
45—Patrick McGrath
46—Bernard McCabe
47—Harry C. Young
48—Robert D. Dewar
49—Peter Moore
50—Albert C. Hawes
51—Walter C. Oesting
52—John L. Cameron
53—Francis P. Higgins
54—Arthur S. Walsh
55—John J. McCahey
56—Alexander Morrison
57—Daniel J. Powers
58—Jeremiah O'Connor
59—James P. Higgins
60—Charles E. Wilson
61—William J. Warner
62—Timothy Buckley
63—John J. Killourhy
64—Charles J. Sharry
65—Thomas M. Sharry
66—Michael J. O'Loughlin
67—Charles W. Shepherd

RESERVEMEN.

68—John	F. (Crui	se
69—Edwa	rd (G. E	utman
70—John	P. 1	L. ()'Keefe
71—John			
72—Thom			

39-Walter L. Groves 40-Frederick G. Jones

> 73—Alfred E. Robitaille 74—Allan S. Burns 75—William H. Donovan 76—George R. Allan 77—Jeremiah Keniry

CHAUFFEURS AND PATROL DRIVERS.

Charles J. Fulton James W. Lundergan James H. White

MATRON.

Mrs. Mina T. Weeks

ASSISTANT MATRON.

Mrs. Bridget A. Fitzpatrick

PENSIONERS, RETIRED ON HALF PAY,

Albion L. Staples,	Mar. 24, 1905	Herbert Hilton,	Dec. 21, 1911
John E. Fuller,	Mar. 23, 1906	Ezra A. Dodge,	Mar. 14, 1914
Ira S. Carleton,	May 9, 1907	George H. Carleton,	Mar. 27, 1914
James J. Pollard,	Feb. 27, 1908	Fred'r'k H. Googins,	Mar. 12, 1915
Melville C. Parkhur	st, Oct. 31, 1908	Robert R. Perry,	Apr. 14, 1916

Changes in the Force.

DEATHS.

George W. Bean, ex-patrolman, retired, died January 6, 1916. Edward McGarr, ex-sergeant, retired, died February 17, 1916.

APPOINTMENTS.

William H. Donovan, appointed reserveman, June 7, 1916. George R. Allan, appointed reserveman, June 7, 1916. Jeremiah Keniry, appointed reserveman, June 10, 1916.

PROMOTIONS.

Reserveman Thomas M. Sharry, promoted to patrolman, May 13, 1916.

Reserveman Michael J. O'Loughlin, promoted to patrolman,

May 13, 1916.

Reserveman Charles W. Shepherd, promoted to patrolman, May 13, 1916.

RETIREMENT.

Captain Robert R. Perry, placed on pension roll, April 14, 1916.

Location of Police Signal Boxes.

CIRCUIT NO. 1.

Box No. 12-Highland avenue, corner School street.

13-Central street, at R. R. bridge.

66 66 14—Evergreen avenue, near Thurston street.

66 66 112—Magoun square.

- 113—Highland avenue, corner Lowell street. 114—Cedar street, corner Summer street.
- . 66 121-Cedar street, at R. R. crossing. 66 66 66 122-Elm street, near Willow avenue.
- 66 66 123—Highland avenue, corner Willow avenue.

66 124—Dover street, near Davis square.

131—Powder House square.

66 132-Broadway, corner Rogers avenue. 66 66 133—Gorham street, at Carr's Factory. 66

66 134—Teele square.

66 " 141—Curtis street, opposite Professors Row.

142—Broadway, opposite City Home. 143—Conwell avenue, corner West Adams street. 66

CIRCUIT NO. 2.

Box No. 21—Walnut street, opposite Munroe street.

22-Highland avenue, corner Medford street.

" " 22—Medford street, at Gilman square.

66 66 24—Dana street, near Pearl street.

66 66

66 66

211—Broadway, corner Walnut street. 212—Broadway, corner Cross street. 213—Broadway, corner Franklin street. 66 66

214—Lincoln street, corner Perkins street. 221—Broadway, corner Mt. Pleasant street. 222—Mystic avenue, corner Mystic street. 66 46

66

66

66 66

223-Mystic avenue, corner Fellsway West. 66 66

224—Mystic avenue, corner Temple street.

46 66 231—Temple street, near Broadway. " " 232—Broadway, opposite Main street.

233—Meacham street, corner Fremont street.

CIRCUIT NO. 3.

Box No. 3!—Somerville avenue, corner Allen street.

32-Somerville avenue, corner Medford street. 66

33-Medford street, corner Warren street. 34—South street, corner Water street.

from jail

Number of miscellaneous runs.

Box No. 311-Washington street, corner Linwood street. 312—Linwood street, corner Poplar street. 313—Linwood street, at R. R. bridge. 314—Somerville avenue, near Cambridge line. 321—Tufts street, corner Cross street.
322—Washington street, opposite Franklin street. 66 66 323—Washington street, opposite Mt. Vernon street. CIRCUIT NO. 4. 41—Somerville avenue, near Dane street. 42—Park street, at R. R. Crossing. Box No. 66 66 43—Central street, corner Summer street. 66 66 44—Somerville avenue, near Kent street. 411—Kent street, corner Beacon street. 412—Somerville avenue, at Oak square. 66 66 413—Beacon street, opposite Oxford street. 66 414—Clark street, at Lincoln park. 421—Union square. 66 422-Webster avenue, corner Prospect street. 66 423—Columbia street, corner Conlon court. 66 66 424—Springfield street, opposite Houghton street. 66 66 431—Beacon street, opposite Concord avenue. 46 432—Washington street, near Beacon street. SPECIAL CALLS. Box No. 52—Circuit No. 3, Somerville Co-operative Bank, Union sq. 53—Circuit No. 3, Somerville Savings Bank, Union square. 54—Circuit No. 1, City Hall. Police Signal Service. Number of on duty calls made by the patrolmen. 253,621 Telephone calls made by the officers and patrolmen . 37,781 Combination Automobile Service. Number of runs made in conveying prisoners to station 783 Number of prisoners conveyed . Number of sick and injured conveyed 940 491 Number of miles run in conveying prisoners to 1,653.9 injured 1,584.6 Number of miles run in conveying prisoners 600.7to and from jail. 1,212.5 Number of miles run elsewhere Total number of miles run during the year 5.051.7 Horse Drawn Patrol Wagon and Horse Drawn Ambulance Reports. 24 Number of runs made in conveying prisoners to station 24 Number of prisoners conveyed 311/2 Number of miles run in conveying prisoners to station. 464

351

19

REPORT OF POLICE MATRON.

January 1, 1917.

To Charles A. Kendall, Chief of Police.

Dear Sir:-

I herewith submit my report as matron for the year ending December 31, 1916. The following females and minor children have been committed to my care during the year who were arrested or brought to police station.

Abandonment of minor	child							2
Assault and battery.		•						10
Attempted larceny .		• 1	•				•	2
Contempt of court .				•	•		•	1
Default warrant .		•					•	1
			•		•	•	•	4
Disturbing the peace						•	•	1
Drunkenness	•				•	•	•	38
Failure to send child to						•	•	-1
False alarm of fire .			•	•		•	•	1
Insane	•	•	•	•	•		•	2
Keeping open shop on Le				•	•	•	•	2
Larceny	• .	:	•	•	•	•	•	8
Lewd and lascivious coh			•	•	•	•	•	1
Lost children	•	•		6	•	•	•	36
Neglected children .	•	•	• `	•	•	•	•	15
Neglect of minor child					•	•	•	2
Polygamy			•	•	•	•	•	1
Receiving stolen propert			•	•	•	•	•	I
Selling intoxicating liquo			•	•	•	•	•	I
Stubbornness	•	•	•	•	•	•	•	7
Trespass	•	•	•	•	•	•	•	1
Violation of milk law	•	•	•	•	•	•	•	1
Violation of probation	•	•	•	•	0	•	•	2
Witness	•	•	•	•	•	•	•	1
77. 1								142
Total								14%

I have attended to the regular duties each day at the station and have remained in court on Saturdays through the juvenile sessions.

Respectfully submitted,
MRS. MINA T. WEEKS,

Matron.

Conclusion.

To the Mayor, Honorable Zebedee E. Cliff, members of the Board of Aldermen, heads of departments, court officials, all members of the police department and newspaper representatives I wish to extend my sincere thanks for their kindly support and assistance rendered to me in the discharge of my cluties.

Respectfully submitted,
CHARLES A. KENDALL,
Chief of Police.

REPORT OF SEALER OF WEIGHTS AND MEASURES.

OFFICE OF SEALER OF WEIGHTS AND MEASURES, City Hall Annex, Somerville, January 1, 1917.

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

The following report of the sealer of weights and measures for the year 1916 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. Each sealer of weights and measures, including the county treasurers, shall receive a fee of one dollar for sealing each platform balance if weighing five thousand pounds or more, and fifty cents if weighing less than that amount, and three cents each for sealing all other weights, measures, scales, beams or balances. He shall also have a reasonable compensation for all necessary repairs, alterations and adjustments made by him.

When weights and measures are sealed as provided in Section 21 (that is, brought to the office) no fees are charged

for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertising in the Somerville

papers in March, 1916.

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 tagged for repairs or condemned. One hundred ninety-two scales, weights and measures were adjusted before sealing, fifty-one scales were tagged for repairs, twenty-seven of which were repaired as ordered and the remaining twenty-four put out of use. Two hundred and eighty-one scales, weights and measures were condemned, and non-seals

labels placed on seventy-two others that were not used for selling or buying.

Work of weights and measures department for year 1916:—

	No. of Tests Made in Office.	No. of T Outside o Office.	
Number of scales sealed	538 717 106	1,608 4,030 57	
Number of tin liquid measures sealed.	6,550	970	
Number of glass liquid measures sealed Number of yard sticks sealed	$\begin{array}{c} 471 \\ 0 \end{array}$	$\begin{array}{c} 0 \\ 155 \end{array}$	
Number of reweighing in stores and street	0	2,450	•
T-4-1 -f -11 1-1-11-1	0.000	0.070	15 050
Total of all kinds sealed Number of scales adjusted and sealed	8,382 30	9,270 21	17,652
Number of weights adjusted and sealed	53	84	
Number of liquid measures adjusted		_	
and sealed	3	0	
Total number adjusted and sealed	86	105	191
Number of scales tagged for repairs .	24	27	
Number of scales repaired as ordered.	17	10	
Total number tagged and repaired	41	37	78
Number of scales condemned Number of weights condemned	$\frac{23}{22}$	5 8	
Number of dry measures condemned .	6	0	
Number of liquid measures condemned	210	7	
Number of non-sealed labels		72	
Total number condemned	261	92	353
Total			18,274
Receipts for year 1916:—			
Appropriation	\$2,700	00	
Fees received for adjusting and sealing	547	71	ቀ 9 ዓ <i>ላ</i> ት 71
Erranditures for year 1016.			\$3,247 71
Expenditures for year 1916:—	¢1 100	00	
Salary of sealer	\$1,100 1,000		
Equipment	134	52	
Auto maintenance	437	85 38	
reteptione service and neiper			\$2,699 75
Unexpended balance		•	\$547 96

JOHN H. DUSSEAULT, Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

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

The annual report of the law department for the year

ending December 31, 1916, is as follows:—

On the petition of the mayor an act was passed by the legislature providing that members of police departments in cities seventy years of age or more might be pensioned without the right of appeal to the courts. (Chapter 113 of the General Acts of 1916.) The town of Reading was given authority by the legislature to enter the North Metropolitan sewerage district on terms which are expected to cause little or no expense to the district. (Chapter 159 of the General Acts of 1916.) An attempt by the city of Boston to secure by legislation a change in the method of apportioning expenses in the Metropolitan water district, whereby that city would pay less than at present and Somerville and some other municipalities would pay more, was successfully opposed. An attempt by the city of Cambridge to secure legislation requiring contribution by Somerville and other cities and towns toward the expense of constructing and maintaining bridges over the Charles river between Cambridge and Boston was successfully opposed. The legislature repealed Chapter 227 of the Acts of 1915, which was causing expense and inconvenience in making assessments for public improvements.

A petition was brought by Joseph Linhares against the city clerk to require that the petitioner's name be placed on the official ballot as a candidate for the board of aldermen in Ward 6. The case involved the construction of Section 201 of Chapter 835 of the Acts of 1913. The chairman of the board of registrars of voters acted with me in this matter. The name was ordered to be placed on the ballot and the order was complied with. Through a misunderstanding on the part of counsel and the justice who heard the case there was no opportunity to carry it before the full bench of the supreme

court.

An action was brought by the city against the Commonwealth of Massachusetts to recover expenses incurred by the poor department for the care of certain paupers. The case involved the construction of Chapter 386 of the Acts of 1907, relating to aid furnished in consequence of a disease dangerous to the public health. A finding against the city was made by a justice of the superior court and the case was reported to the full bench of the supreme court, by which since the first of the year a decision has been rendered in favor of the city.

An action is pending against the city by the contractor who constructed the S. Newton Cutler Schoolhouse in West Somerville. The case was referred to an auditor, before whom several hearings have been held.

A petition for abatement of taxes on a large tract of land in West Somerville was brought in the superior court and referred to a commissioner and hearings have been held before

him.

An action for injuries received by falling into a trench opened by the water department was tried in the Somerville police court and a finding made in favor of the city.

The action brought by the Union Glass Company for damages to its real estate resulting from the abolition of the railroad grade crossing at Webster avenue is still pending.

The adjustment of claims by the railroad company for damages to its real estate at various crossings has been delayed by reason of receivership proceedings affecting the company.

For violation of the milk laws twenty-five cases have been prosecuted in the Somerville police court by the milk inspec-

tor and myself.

A petition for alterations of the Beacon street bridge was brought before the Middlesex county commissioners by the Boston & Maine railroad. After a hearing the company decided to make repairs instead of alterations and the petition has been dismissed.

Settlements of claims for injuries received by reason of defects in public ways have been made in a number of cases.

The general work of this department has been of the usual nature and seems to have increased considerably in recent years.

Very respectfully,
FRANK W. KAAN,
City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK, (January 1, 1917.

To the Honorable, the Mayor and the Board of Aldermen:-Gentlemen:—The following is respectfully submitted as the forty-fifth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1916.
The receipts and payments were as follows:—

Receipts.

Balance from year 1915, being for dog li-		
censes issued in December, 1915:— 8 males at \$2.00	\$16 00	
Less city clerk's fees paid to the city treasurer in December, 1915, 8 at		
\$.20	1 60	
For dog licenses issued in 1016.		\$14 40
For dog licenses issued in 1916:— 959 males at \$2.00	\$1,918 00	
197 females at \$5.00	985 00	
86 spayed at \$2.00	172 00	
1 breeder's license at \$25.00	25 00	2 100 00
Recording mortgages, assignments, etc.,		3,100 00
1.004	\$595 20	
Certificates of marriage intentions, 1,044	·	
at \$1.00	1,044 00	
Furnishing copies of records	184 55	
Licenses:— Auctioneers, 22 licenses at \$2.00	44 00	•
Billiard and pool tables and bowling al-	11 00	
leys, 32 licenses for 92 tables and		
77 alleys at \$2.00	338 00	
Cry goods and calling, 96 licenses at \$1.00 \$96 00		
censes at \$1.00 \$96 00 1 license granted in 1915,		
paid in 1916 1 00		
1 refused and money not		
called for 1 00		
1 applied for and not returned 1 00		
turned 1 00	99 00	
Drain layers, 5 licenses at \$1.00	5 00	
Drivers, 2 licenses at \$1.00	2 00	
Engines and motors, 15 licenses		
for 21 motors, 1 steam en- gine and 1 boiler, at \$1.00 \$15 00		
2 paid for in 1915 2 00		
	13 00	
Gasoline tanks, 16 licenses at \$1.00 .	16 00	
Amounts carried forward	\$2,340 75	\$3,114 40

Amounts brought forward . Garages, 169 licenses at \$2.00 5 licenses granted in 1915,	\$338 00	\$2,340	75	\$3,114 40
paid for in 1916	10 00			
1 refund on 1915 license .	\$348 00 2 00	346	00	
Hackney carriages, 4 licenses for 4 carriages at \$1.00 . 1 refund on 1915 license .	\$4 00 1 00		00	
Innholders and common victuallers, 43 licenses for 1 innholder and 42 victuallers at \$2.00	\$86 00 2 00	J	00	
1 refund on 1915 license .	88 00 2 00	00	00	
Intelligence offices, 6 licenses at Junk and second-hand licenses, 32 licenses at \$10.00 license granted in 1915, paid for in 1916 licenses at \$25.00 licenses granted in 1915,	\$2.00 . \$320 CO 10 00 100 00	86		
paid for in 1916 Lord's Day, sale of ice cream, tionery, soda water and f	75 00 confec-	505	00	
61 licenses at \$5.00 Private detectives, 6 licenses a Ring bells in streets, 5 licenses Slaughtering, 7 licenses at \$1.00 Street musicians, 4 licenses for sons at \$.50	at \$10.00 at \$1.00	305 60 5 7	00 00 00	
1 license granted in 1915, paid for in 1916	1 00	85 3		
Permits for projections over sidev permits for 15 signs and 3	valks, 18			
at \$1.00 Permits to transport liquors, 17 at \$1.00	permits	18 (17 (
Filing certificates, under Acts Chap. 502, 3 at \$.50	of 1908,	1		
Cable of record		$egin{array}{c} 4 \\ 1 \\ 35 \\ 11 \\ 2 \\ \end{array}$	50 30 48	
Notices of hearings (public serving porations)	ce cor-	14 26		
Revenue tax stamps	•			3,891 88
Total receipts			•	\$7,006 28

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1915, to November 30, 1916, both inclusive:— 947 males at \$2.00	\$1,894 00 955 00 170 00 25 00	
Less city clerk's fees, 1,224 at \$.20	\$3,044 00 244 80	¢2.700.20
To the city treasurer, monthly:— City clerk's fees for issuing and recording dog licenses, 1,243 at \$.20 . All the receipts above specified, except for dog licenses	\$248 60 3,891 88	\$2,799 20 4,140 48
Total payments	\$40 00 30 00 2 00	\$6,939 68
Less city clerk's fees paid to the city treasurer, 27 at \$.20	\$72 00 5 40	\$66 60

There have been issued during the year 316 resident hunters' certificates at one dollar each, the fees for which have been paid monthly to the commissioners on fisheries and game of the commonwealth; total, \$316.00.

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	. 11
Newsboys	. 23
To hold open-air political meetings	. 2
To parade in streets, with music, etc	. 2
To hold religious services in streets and squares.	. 4
To suspend campaign banners across streets .	. 3
To erect grand stand in street for flag raising .	. 1
To erect stable 3 feet from line	. 1
To give band concerts (one permit for ten concerts)	. 1
To move buildings through streets	. 4
To construct coal pocket under sidewalk	. 1
To erect posts for church directional signs	. 2

Births.

1916.

	Number	of	births	reported	by	physicians	and	midwives
for	1916:					-		

Males		•			•	1,023
Females						945

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 all children born therein 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 1916 will be given in the city clerk's report for the year 1917.

1915.

The following is a statement in full of the births	for
1915:—	
Number of births (exclusive of still births) in Somerville	
in 1915 registered	1,898 94
Males	31
Males	1 000
	1,898
Born of American parents	
Born of American father and foreign mother . 181	
Born of foreign father and American mother . 205	
Born of American mother and father of unknown nationality	
Born of foreign mother and father of unknown	
nationality 8	
Born of American father and mother of unknown nationality	
	1,893
Number of still-births in Somerville in 1915 as regis-	68
Number of births in other places in 1915 registered .	422
	2.005
Number of cases of twins	2,388
realiser of eases of twins	
Marriages.	
Number of intention certificates issued in 1916	1,044
More than previous year	34 1,079
Marriages registered	49
Both parties American 612	
Both parties foreign	
Both parties foreign	
—— 1,079 co	uples

Carclusive of still-births.	First marriage of Second marriage of Third marriage of Fourth marriage of		•		•	•	. 1,909 . 232 . 16	
Number of deaths in Somerville in 1916								
More than previous year		(Exclusi	ve of	still	-birt	hs.)		
Males				1916		•		1,081
Temales 1,081 1,		year	•	•	•	•		
Under ten years of age			•	•	•	•		
Under ten years of age	remaies	•	•	•	•	•	. 590	
10 and under 20 years of age	Under ten years of	age					215	
20 and under 30 years of age	10 and under 20 years	age . rs of age	•	•	•	•		
30 and under 40 years of age	20 and under 30 year	rs of age		•	•	•		
40 and under 50 years of age	30 and under 40 year	rs of age	•					
50 and under 60 years of age	40 and under 50 year	rs of age		•		•		
60 and under 70 years of age	50 and under 60 year	rs of age	•		•	•	. 139	,
80 and under 90 years of age	60 and under 70 year	rs of age					. 199)
90 years of age and over	70 and under 80 year	rs of age	•		•			
Age of oldest person deceased 98 years Born in Somerville	80 and under 90 year	rs of age	•	•	•	•		
Age of oldest person deceased . 98 years Born in Somerville	90 years of age and	over.	•	•	•	•	. 8	
Born in Somerville	Age of oldest perus	u dooss	d		06.	****		- 1,081
Born in other places in the United States Of foreign birth		on deceas	sea	•	90	years	915	
Of foreign birth Birthplace unknown		in the I	Inited	Sta	tec	•		
Birthplace unknown		in the c		Dia	ics	•		
Number of deaths in January		•	•	•	•	•		
Number of deaths in January		•	·	•	·	Ť	·	•
Number of deaths in February	Number of deaths in	lanuary	7				. 129	
Number of deaths in April							. 120	
Number of deaths in May			•					
Number of deaths in June			•		•	•		
Number of deaths in July			•					
Number of deaths in September	Number of deaths in	June	•	•	•	•		
Number of deaths in September	Number of deaths in	July	•	•	•	•		
Number of deaths in October			•	•	•	•		
Number of deaths in November	Number of deaths in	Septemb	er	•	•	•		
Number of deaths in December 98				•	•	•		
				•	•	•		
	Trumber of deaths in	Decemb	CI	•	•	•	. 50	

The number of still-births during the year was seventy-two. In addition to the above, 235 deaths which occurred elsewhere and three removals were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

Assessed Polls and Registered Voters.

MEN'S LISTS.

												Regist	ERED	Voters	S.		
	w	AR	D.		Pre	ICIN	CT.		As- sessed Polls, April 1, 1916.	Nov. 24, 1915.	Re- vised Lists of July 5, 1916.	Added in Sept. and Oct., 1916.	Oct. 18, 1916.	Added in Nov., 1916.	Nov. 22, 1916.	Voted Nov. 7, 1916.	Voted Dec. 12, 1916.
Ward	1 1 1 1 1				Precin	ct 1 2 3	•	:	1,375 858 486 656	725 411 287 294	649 384 258 268	75 -58 -33 -14	724 442 291 282	8 15 4	732 457 295 282	609 383 251 253	432 265 173 187
									3,875	1,717	1,559	180	1,739	27	1,766	1,496	1,057
Ward	1 2 2 2				Precin	ct 1 2 3			1,187 1,706 783	441 736 392	404 665 348	33 81 21	437 746 369	1 9 8	438 755 377	376 636 324	152 113 83
									3,676	1,569	1,417	135	1,552	18	1,570	1,336	328
Ward	3				Precin	ct 1			1,300 1,191	79 4 6 91	760 673	99 38	859 711	i	859 712	766 634	383 306
									2,491	1,485	1,433	137	1,570	1	1,571	1,400	689
Ware	144				Precin	ct 1 2			1,313 1,233	731 690	665 624	72 70	737 694	1 2	738 696	631 609	212 211
									2,546	1,421	1,289	142	1,431	3	1,434	1,240	423
Ward	1 5 5				Precin	ct 1 2 3		:	1,324 1,055 1,018	787 637 616	748 587 575	79 78 48	827 665 623	2 2	829 665 625	747 577 536	275 200 142
									3,397	2,040	1,910	205	2,115	4	2,119	1,860	617
Ward	6	•			Precin	ct 1 2 3	· ·	:	1,884 1,478 1,164	916 783 750	865 717 689	92 129 115	957 846 804	3 1 	960 847 804	816 763 731	367 383 406
									4,526	2,449	2,271	336	2,607	4	2,611	2,310	1,156
Ward	7 7 7				Precin	ct 1 2 3 4			987 1,229 1,417 1,553	684 735 801 904	655 670 732 861	95 97 133 172	750 767 865 1,033	8 5 1	750 775 870 1,034	698 702 779 936	283 313 283 380
									5,186	3,124	2,918	497	3,415	14	3,429	3,115	1,259
City									25,197	13,805	12,797	1,632	14,429	71	14,500	12,757	5,529

WOMEN'S VOTING LISTS.

	W	ARD	•			Precinct.	Nov. 24, 1915.	Revised Lists of July 5, 1916.	Added in Sept. Oct. and Nov., 1916.	Nov. 22, 1916.	Voted Decem- ber 12, 1916.
Ward 1 '' 1 '' 1 '' 1		•	•	:	:	Precinct 1	58 24 26 70	51 21 26 62	13 17 2	64 38 28 62	36 31 4 8
Ward 2						Precinct 1 .	178	160	32	192	79
" 2	•	•	•	•	•	" 2 :	9	6 9	7 2	13	
Ward 3	•	٠	:	•		Precinct 1 .	19 178 136	17 145 122	13 7 7	30 152 129	16 9
							314	267	14	281	25
Ward 4	•	•	•	•	•	Precinct 1 .	70	59 99	3	100	5 5
Ward 5 " 5	•					Precinct 1	183 243 176 245	158 220 154 225	1 1 4 5	162 221 158 230	10 33 8 5
,	·						664	599	10	609	46
Ward 6 6 6 6	•	•	:	•	:	Precinct 1	27 5 88 101	251 83 84	2 2	253 85 84	4
							464	418	4	422	8
Ward 7	•	•	:	•	:	Precinct 1	41 116 66 28	35 101 . 60 26	8 3 8 2	43 104 68 28	8 5 1 1
							251	222	21	243	15
City .							2,073	1,841	98	1,939	183

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 7, 1916:—

CANDIDATE.	PARTY.				WARD	s.			TOTAL.
		, 1	2	3	4	5	6	7	Tol
PRESIDENTIAL ELI	ECTORS.								
Louis F. Weiss, et als. William Shaw, et als. George v. L. Meyer, et als Oscar Kinsalas, et als. David 1. Walsh, et als. Blank,	Socialist, Prohibition, Republican, Socialist Labor, Democratic,	21 8 610 0 799 58	16 0 268 0 1008 44	15 20 764 0 574 27	7 11 774 3 422 23	21 6 1,054 0 732 47	39 13 1,304 9 832 63	35 24 2,146 3 858 49	154 82 6,920 15 5,275 311
GOVERNOR.									
James Hayes, Chester R. Lawrence, Samuel W. McCall, Frederick W. Mansfield, Dan A. White, Blank,	Socialist Labor, Prohibition, Republican, Democratic, Socialist,	8 16 682 713 13 64	5 2 276 977 13 63	2 11 860 486 10 31	5 20 798 361 11 45	2 12 1,117 665 17 47	6 50 1,391 771 32 60	13 47 2,327 621 28 79	41 158 7,451 4,594 124 389
LIEUTENANT-GOVE	ERNOR.								
Calvin Coolidge, Alfred H. Evans, Sylvester J. McBride, Thomas J. Maher, Thomas P. Riley, Blank,	Republican, Prohibition, Socialist, Socialist Labor, Democratic,	724 17 22 6 586 141	279 3 16 7 908 123	872 15 11 2 425 75	836 16 21 19 203 85	1,148 14 27 10 559 102	1,468 21 42 8 654 117	2,361 47 39 12 510 146	7,688 133 178 64 3,905 789
SECRETARY.								8	
Thomas F. Brennan, Leon R. Eyges, Louise Adams Grout, Albert P. Langtry, Willard O. Wylie, Blank,	Socialist Labor, Democratic, Socialist, Republican,	14 536 23 730 1 192	11 842 13 285 	6 408 16 872 	13 249 22 829 127	13 529 31 1,140 	20 604 44 1,473	15 477 48 2,355	92 3,6 4 5 197 7,684 1 1,138
TREASURER.									
Charles L. Burrill, Frederick E. Oelcher, Elam K. Sheldon, Henry N. Teague, Wm. E. Marks, Blank,	Republican, Socialist Labor, Socialist, Democratic,	721 7 27 557 1 183	287 2 14 857 	876 3 20 400	847 7 16 248 	1,154 7 34 533 132	1,478 9 42 614 	2,370 17 45 482 201	7,733 52 198 3,691 1 1,082
AUDITOR.									
Joseph Bearak, Frank Bohmbach, Alonzo B. Cook, John B. N. Soulliere, Myron T. Smith,	Socialist, Socialist Labor, Republican, Democratic,	20 11 718 542 1	16 2 295 833	14 4 873 396	15 10 833 242	31 5 1,137 534	44 6 1,466 598	48 7 2,353 469	188 45 7,675 3,614
Blank,		204	190	113	140	153	196	238	1,234

· Candidate.	Party.			v	Vards.				TOTAL.
	TARIT.	1	2	3	4	5	6	7	Ton
ATTORNEY-GENER	RAL.								
Henry C. Attwill, Joseph Joyce Donahue, Joseph Jiskra, John Weaver Sherman, Frank Auchter, Blank,	Republican, Democratic, Socialist Labor, Socialist,	719 559 6 27 1 184	285 869 3 15	872 405 8 20 95	854 236 8 20 	1,140 544 3 38 	1,465 622 5 54 	2,363 477 9 59	7,698 3,712 42 233 1 1,071
SENATOR IN CONC	GRESS.								
John F. Fitzgerald, Henry Cabot Lodge, William N. McDonald, Russell Atwood, Blank,	Democratic, Republican, Socialist,	729 627 42 1 97	990 256 15 	492 838 19 51	373 778 24 65	682 1,082 38 58	816 1,341 59 94	720 2,181 66 148	4,802 7,103 263 1 588
REPRESENTATIVE	IN CONGRESS.								
Alvan T. Fuller, Ernest W. Roberts, Martin Ryan, Henry Rowland, Leroy D. Peavey, Blank,	Independent, Republican,	709 605 182	742 300 294	620 650 1 129	518 617 105	829 874 157	1,033 1,079 1 1	1,300 1,638 1 176	5,751 5,763 1 1 1 1,240
COUNCILLOR, FOU	RTH DISTRICT.				1				
Herbert P. Wasgatt, Blank,	Republican,	770 726	357 979	936 464	844 396	1,175 685	1,450 860	2,273 842	7,805 4,952
SENATOR, 3RD MID	DLESEX DIST.								
Charles W. Eldridge, John J. Murphy, Blank,	Republican, Democratic,	739 553 204	285 843 208	869 398 133	873 239 128	1,173 531 156	1,523 585 202	2,368 438 309	7,830 3,587 1,340
REPRESENTATIVE	S, 23RD DIST. (3)								
William Fleming, Harvey E. Frost, William W. Kennard, William Reardon, Arthur Richardson, Blank,	Republican, Republican, Republican,	864 807 779 2,038		974 952 924 1,350	870 840 816 1 1 1,192	1,263 1,179 1,156 1,982			3,971 3,778 3,675 1 1 6,562
REPRESENTATIVES	S, 24TH DIST. (3)								
William P. French, Arthur D. Healey, Joseph O. Knox, Walter E. Marden, Joseph H. Perry, Albert Rankin, Percy C. Smith, Blank,	Republican, Democratic, Republican, Prohibition, Republican, Prohibition, Prohibition,		400 864 339 72 282 49 77 1,925				1,539 678 1,501 120 1,328 86 112 1,566	2,472 501 2,283 134 2,153 104 141 1,557	4,411 2,043 4,123 326 3,763 239 330 5,048
COUNTY COMMISS	IONER.								
Erson B. Barlow, John Kilmartin, Blank,	Republican,	821 675	395	930	870 370	1,245 1 614	761	743	8,182 1 4,574

				1	Wards	; .			
CANDIDATE.	PARTY.	1	2	3	4	5	6	7	Total.
ASSOCIATE COMMISS	SIONERS (2)								
Frederic P. Barnes, H. Harding Hale, Joseph T. Cotter,	Republican, Republican,	791 697	372 317	915 823	834 750	1,196 1,093	1.509 1,328	2,309 1,984	7,926 6,992
Blank,		1,504	1,983	1,062	896	1,431	1,782	1,937	10,595
DISTRICT ATTORNE	Y.								
William R. Scharton, Nathan A. Tufts, Blank,	Democratic, Republican,	501 762 233	741 362 233	380 877 143	224 862 154	496 1,165 199	550 1,516 244	449 2,385 281	3,341 7,929 1,487
CLERK OF COURTS.									
William C. Dillingham, Blank,	Republican,	798 698	392 944	924 476	852 388	1,221 639	1,551 759	2,349 766	8,087 4, 670
REGISTER OF DEEDS	S.								
Thomas Leighton, Jr., Blank,	Republican,	805 691	400 936	916 484	846 394	1,218 642	1,557 753	2,346 769	8,088 4,669
REGISTER OF PROB. SOLVENCY (to fill v			,						
Frederick M. Esty, Timothy E. Quinn, Blank,	Republican, Democratic,	668 488 340	272 722 342	815 360 225	779 213 24 8	1,092 489 279	1,388 539 383	2,208 403 504	7,222 3,214 2,321
"SHALL THERE BE TION TO REVISE, AMEND THE CONST THE COMMONWEA	ALTER OR CITUTION OF								
Number of "Yes" votes, Number of "No" votes, Blank,		629 298 569	552 201 583	601 376 423	547 280 413	874 451 535	1,097 534 679	1,477 780 858	5,777 2,920 4,060
"SHALL AN ACT PASS GENERAL COURT I NINETEEN HUND SIXTEEN, TO MAKE DAY OF JANUARY, NEW YEAR'S DAY HOLIDAY, BE APP BECOME LAW?"	N THE YEAR DRED AND E THE FIRST KNOWN AS								
Number of "Yes" votes, Number of "No" votes, Blank,		919 252 325	878 124 334	928 273 199	745 273 222	1,229 346 285	1,520 423 367	2,089 575 451	8,308 2,266 2,183
"SHALL AN ACT PAS GENERAL COURT I NINETEEN HUNDR TEEN, ENTITLED PREVENT THE VOT POLITICAL PARTY ING IN THE PRI ANOTHER POLITICBE APPROVED AN LAW?"	N THE YEAR ED AND SIX- AN ACT TO ERS OF ONE FROM VOT- MARIES OF CAL PARTY'								
Number of "Yes" votes, Number of "No" votes, Blank,		597 400 499	341 451 544	635 409 356	534 346 360	859 516 485	1,060 656 594	1,520 814 781	5,546 3,592 3,619

			V	Vards				AL.
	1	2	3	4	5	6	7	TOTAL
"SHALL THE REPRESENTATIVE OR REPRESENTATIVES FROM THIS DISTRICT BE INSTRUCTED TO SUPPORT THE ADOPTON OF AN AMENDMENT TO THE CONSTITUTION OF THE COMMONWEALTH, PROVIDING FOR SOME FORM OF THE INITIATIVE AND REFERENDUM WHICH SHALL GIVE TO THE VOTERS THE POWER TO ACCEPT OR REJECT STATUTES AND CONSTITUTIONAL AMENDMENTS PROPOSED TO THE LEGISLATURE BY PETITION OF A SUBSTANTIAL NUMBER OF CITIZENS BUT REJECTED BY IT, AND ALSO THE POWER, UPON SUCH PETITION, TO REJECT MEASURES PASSED BY THE LEGISLATURE?"								
23RD DISTRICT.								
Number of "Yes" votes, Number of "No" votes, Blank,	791 157 548		759 203 438	681 138 421	1,043 270 547			3,274 768 1,954
24 T H DISTRICT.								
Number of "Yes" votes, Number of "No" votes, Blank,		671 82 583				1,361 297 652	1,832 407 876	3,864 786 2,111
"SHALL AN ACT, PASSED BY THE GENERAL COURT IN THE YEAR NINETEEN HUNDRED AND SIXTEEN, TO AUTHORIZE CITIES TO MAINTAIN SCHOOLS OF AGRICULTURE AND HORTICULTURE AND TO MAKE PROVISION, IN CERTAIN INSTANCES, FOR THE TEMPORARY HOUSING OF PERSONS ATTENDING THE SCHOOL, BE ACCEPTED?"						and the second s		
Number of "Yes" votes, Number of "No" votes, Blank,	755 199 542	594 151 591	708 263 429	624 206 410	988 322 550	1,224 404 682	1,673 544 898	6,566 2,089 4,10 2

The following is a statement of the votes cast in the several wards of the city for the candidates for the various offices, and on the questions of granting licenses for the sale of intoxicating liquors in this city, and of tenure of office of Chiefs of Fire Departments, at the city election held December 12, 1916:—

)			Wards	; .			AL.
CANDIDATE.	PARTY.	1	2	3	4	5	6	7	TOTAL.
MAYOR.									
Zebedee E. Cliff, Teddy Diehl, Ralph Aubin, Frederick White, William Fleming, William McCarthy, Leonard C. Spinney, Jessie Pomery, Blank,	Republica n ,	800	149	597	373 1 49	555	1,005 1 1 149	1,162	4,671 1 1 1 1 1 2 1 850
ALDERMAN-AT-LAR	GE, WARD 1.								
Wallace E. Loveless, Maud Ballington Booth, Blank,	Republican,	695 362	93 235	498	342 81	476 141	714 1 441	912	3,760 1 1,768
ALDERMAN-AT-LAR	GE, WARD 2.								
George W. Pratt, Prof. Eliot, Blank,	Republican,	586	151 177	514	335 93	47 4 143	720 1 435	937	3,712 1 1,816
ALDERMAN-AT-LAR	GE, WARD 3.								
Charles M. Austin, Blank,	Republican,	580 477	100 228	560 129	335 8 8	473 144	696 460	921 338	3,665 1,864
ALDERMAN-AT-LARO	E, WARD 4.								
Arthur N. Richardson, Blank,	Republican,	570 487	98 230	490 199	371 52	470 147	697 459	925 334	3 621 1,908
ALDERMAN-AT-LARO	GE, WARD 5.								
Hermon A. Fleming, Patrick H. Ryan, William J. Harrigan, Blank,	Republican,	577 480	230	498	334	515 3 1 98	691 465	911 348	3,624 3 1 1,901
ALDERMAN-AT-LARG	GE, WARD 6.								
James A. Butler, John F. Burke, Blank,	Republican,	566 491	102 226	489 200	328 95	459 158	8 68 1 287	905 354	3,717 1 1,811
ALDERMAN-AT-LARO	SE, WARD 7.								
Warren C. Daggett, Blank,	Republican,	546 511	100 228	462 227	309 114	457 160	668 488	1,021 238	3,563 1,966

VARD ALDERMEN John F. Barr, Walter D. Flynn, Ralph H. Hosmer, John A. Mack,	PARTY. (2) WARD 1. Democratic,	1	2	3	4	5	6	7	Fotal.
John F. Barr, Walter D. Flynn, Ralph H. Hosmer, John A. Mack,									I
Walter D. Flynn, Ralph H.Hosmer, John A. Mack,	Democratic								
Ralph H. Hosmer, John A. Mack,	D'CHIOCHTEIC,	329							329
John A. Mack,	Democratic,	308		• • • •	••••	••••			30
	Republican, Independent,	$\frac{470}{302}$		••••	••••	••••	• • • •		47
lustin P. Nowell,	Republican,	481							48
Blank,	,	224	••••	••••	••••	••••	••••		22
WARD ALDERMEN	(2) WARD 2.								
Maurice F. Ahearn,	Democratic,		260						26
Robert C. Harris,	Democratic,		236						23
Blank,		••••	160	••••	••••	••••	••••	••••	16
VARD ALDERMEN	(2) WARD 3.								
Carl F. Ashton,	Republican,			452					45
Herbert C. Hight,	Independent,	• • • • •	• • • •	278					27
John M. Webster, Blank,	Republican,			461 187		• • • •	· · · · ·	•••	40 18
nank,		••••	••••	101	••••	••••	••••	••••	*(
VARD ALDERMEN	(2) WARD 4.								
Charles H. Manzer,	Republican,	••		•••	347	••••		••••	3
Valter H. Snow, Blank,	Republican,	• • • • •			359 140		• • • •	•••	3: 1:
olalik,		••••	••••		140		••••	••••	1
VARD ALDERMEN	(2) WARD 5.								
Villiam J. Bell,	Republican,		••••			490			4
orthur R. Corwin, Patrick H. Ryan,	Republican,					483			4
Villiam H. McKenna,						1			
. J. McLaughton,						1			
Iilo R. Whitaker,			••••	• • • • •	••••	$\begin{array}{c} 1 \\ 250 \end{array}$	• • • • •		
Blank,		••••	••••		••••	250	••••		2
VARD ALDERMEN	(2) WARD 6.	;							
Valdo E. Dodge,	Republican,	• • • •					525		5
oseph Linhares,	Independent Democrat,						145		1
•	Republican In-		•						
Joseph J. Pincus,	dependent,	• • • • •	• • • • •		••••		627	• • • •	6
Enoch B. Robertson,	Republican,	• • • • •	• • • • •	****	• • • • •	· · · · ·	648		6
Blank,	•	***	••••	****		• • • •	367		3
WARD ALDERMEN	(2) W ARD 7.								
Vilbur F. Lewis,	Republican,			••••				1,055	1,0
D. Wilson Moffatt, Justin M. Pinkham,	Independent, Republican,		••••	••••	• • • •			231 913	9
Blank,	Republican,							319	3
CHOOL COMMITTE									
Vinnifred P. Davis,	Republican,	633					••••	••••	6
ohn J. Hayes, Blank,	Democratic,	359 144						• • • •	3
CHOOL COMMITTE	FF (2 yrs) WADD 0						1		
CHOOL COMMITTE			220						
Christopher Muldoon, Blank,	Democratic,		108						2

	Party.	Wards.							
Candidate.		1	2	3	4	5	6	7	TOTAL.
SCHOOL COMMITTE	E (2 yrs.) WARD 3.								
Oscar W. Codding, Blank,	Republican,			557 157	••••		••••		557 157
SCHOOL COMMITTE	E (2 yrs.)WARD 4.								
Frank H. Holmes, Martin Hogan, Blank,	Republican,			••••	353 1 79	••••	••••		353 1 79
SCHOOL COMMITTE	E(2 yrs.)WARD 5								
Julia R. Aldrich, Patrick H. Ryan, William J. Harrigan, C. W. Rugg, Blank,	Republican,					548 1 1 1 112	• • • •		548 1 1 1 112
SCHOOL COMMITTE	E (2 yrs.)WARD 6.								
George E. Wardrobe, Blank,	Republican,			•••	•••	•••	826 3 3 8		826 3 38
SCHOOL COMMITTED	E (2 yrs.) WARD 7.								1
Herbert Cholerton, Blank,	Republican,	••••	••••		••••		••••	1,059 215	1,059 215
SHALL LICENSES IN FOR THE SALE OF ING LIQUORS IN TO	F INTOXICAT-								
Number of "Yes" votes, Number of "No" votes, Blank,		319 648 90	159 13 9 30	125 525 39	374 7	112 492 13	214 879 63	129 1,101 29	1,100 4,158 271
SHALL CHAPTER 291 ERAL ACTS OF T TURE FOR THE Y TITLED "AN ACT THE TENURE OF CHIEFS OF FIRE D IN THE METROPO PREVENTION DIS ACCEPTED BY THI	HE LEGISLA- EAR 1916, EN- RELATIVE TO OFFICE OF EPARTMENTS DLITAN FIRE STRICT," BE								
Number of "Yes" votes, Number of "No" votes, Blank,		401 226 430	93 117 118	232 204 253	149 126 148	211 204 202	379 286 491	465 290 504	1,930 1,453 2,146

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.	ESTIMATEI 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	*29,99
1886	214	1,321		4,089	32,00
1887	555	2,427		4,574	34,00
1888	744	2,456		5,399	36,00
1889	635	1,706	335	5,286	39,00
1890	999	2,282	409	5,556	*40,11
1891	1,054	2,598	279	5,938	43,00
1892	1,427	3,288	347	7,587	46,00
1893	1,547	2,654	218	7,943	48,00
1894	1,098	2,869	246	8,007	50.00
1895	1,854	4,708	459	8,410	*52.20
1896	1,466	3,680	332	9,379	54,00
1897	1,626	3,815	486	8,925	56,00
1898	1,595	3,501	486	8,657	57.50
1899	1,892	3,340	374	8,838	60,00
1900	1,660	3,427	321	9,620	*61,64
1901	1,579	3,295	374	9,499	63.50
1902	1,645	3,242	360	10,100	65.00
1903	2,248	4,410	550	11,346	67,00
1904	2,022	4,338	447	11,682	69,50
1905	2,483	4,660	531	11,340	*69,27
1906	2,193	5,204	582	11,571	70,00
1907	1;735	4,591	459	11,558	74,00
1908	1,780	4,760	491	12,777	75,50
1909	1,830	4,601	530	12,479	75,50
1910	1,544	3,968	365	12,522	*77,28
1911	2,193	4,841	492	13,226	80,00
1912	$\frac{2,421}{2}$	6,182	546	13,854	81,00
1913	2,348	6,431	550	13,417	82,00
1914	2,178	5,535	488	13,404	85,00
1915	1,705	5,262	379	13,805	*86,85
1916	1,100	4,158	271	14,500	88,00

^{*}Census.

ORDINANCES.

Somerville, January 1, 1917.

The following ordinances have been adopted since the printing of the annual reports for the year 1915:—

No. 69.

An Ordinance Concerning the Planning Board.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:

Section 1. The planning board of the City of Somerville shall consist of five members. Said members shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen. Women as well as men shall be eligible for appointment. The first appointments after this ordinance takes effect shall be made, one for a term ending the first Monday of January, 1917, one for a term ending the first Monday of January, 1918, one for a term ending the first Monday of January, 1918, one for a term ending the first Monday of January, 1919, one for a term ending the first Monday of January, 1920, and one for a term ending the first Monday of January, 1921; and beginning with the year 1917 one member shall be appointed annually for a term of five years from the first Monday of January. Any vacancy that may occur shall be filled in like manner for the balance of the unexpired term.

Section 2. The board shall, as soon as practicable after the appointments of the members have become operative, meet and organize by the selection of a chairman and a secretary.

Section 3. The planning board shall have the power and authority and perform the duties set forth in chapter 494 of the Acts of the year 1913, and Acts in amendment thereof and in addition thereto relative to local planning boards. The board shall serve without pay.

Section 4. Ordinance number 51 and Ordinance number 59 are

hereby repealed.

Section 5. This ordinance shall take effect upon its passage. Approved March 15, 1916.

No. 70.

An Ordinance Concerning the Sanitary Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:-

Section 1. There shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen, to serve for one year and until the appointment and qualification of his successor, a superin-

tendent of the sanitary department.

Section 2. The superintendent of the sanitary department shall attend to and have charge of the collection, carrying away, sale and disposal of the house offal and the ashes and house dirt of the city. He shall immediately turn over to the city treasurer the cash proceeds received by him from sales of offal.

Section 3. The Mayor and said superintendent shall have simi-

lar powers and duties in relation to said department as are given the Mayor and heads of other departments by the city charter and city

ordinances in relation to other departments.

Section 4. Section 2 of Ordinance No. 45 is hereby repealed. Section 5. This ordinance shall take effect upon its passage. Approved April 14, 1916,

No. 71.

An Ordinance Relative to the Clerk of Committees.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:-

Section 1. The Mayor shall annually appoint, subject to confirmation by the Board of Aldermen, a clerk of committees. He shall hold his office for one year and until another shall be appointed and qualified in his stead, and may be removed and his place for the unexpired term filled, at the pleasure of the Mayor and Aldermen. He shall act as a clerk of committees of the Board of Aldermen, shall make a proper record in books kept for the purpose of all their proceedings and transactions, keep a calendar of all meetings of said committees, and notify the members thereof. He shall perform such other duties and services in making estimates and computations, drawing orders and reports, and rendering assistance. as said committees shall require and shall perform such other duties as may from time to time be required by order of the Board of Al-

Section 2. The Mayor may annually appoint, subject to confirmation by the Board of Aldermen, one or more assistants to the clerk of committees, whose compensation shall be fixed by the Board of Aldermen.

Section 3. Ordinance No. 58 is hereby repealed. Section 4. This ordinance shall take effect upon its passage. Approved May 11, 1916.

No. 72.

An Ordinance Relative to Filing Contracts.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:-

Section 1. Section 8 of Chapter IV of the Revised Ordinances of 1911 is hereby amended by striking out the word "contracts" in the sixth line.

Section 2. Said Chapter IV is hereby further amended by adding the following section thereto: Section 9. All contracts shall be kept in the custody of the city auditor.

Section 3. This ordinance shall take effect upon its passage. Approved June 14, 1916.

No. 73.

An Ordinance Concerning Master Mechanic in the Fire Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:-

Section 1. The first paragraph of Section 1 of Chapter XVIII of the Revised Ordinances of 1911 is hereby amended by inserting therein after the word "captain" the words "master mechanic," so that said paragraph shall read as follows:-

"Section 1. The Fire Department shall consist of a chief engineer and a first assistant engineer, and a second assistant engineer who shall also perform the duties of a captain, a master mechanic, a driver for the chief engineer, and as many engine, hose, hook and

ladder and other companies, and relief drivers, as the Board of Aldermen shall from time to time determine."

Section 2. This ordinance shall take effect upon its passage.

Approved September 15, 1916.

No. 74.

An Ordinance Concerning Roof Coverings.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Every roof hereafter constructed shall be covered with a non-combustible roof covering.

Section 2. Whenever a non-combustible roof covering is hereafter replaced in whole or in part the new roof covering shall be non-combustible.

Section 3. Whenever a roof covering other than non-combustible is hereafter replaced in whole or in part, the new roof covering shall be non-combustible if as much as one-quarter of the superficial area of the entire roof is replaced during any period of not more than six months.

Section 4. Whoever violates any provision of this ordinance shall be liable to a penalty of not more than one hundred dollars for each offense.

This ordinance shall take effect upon its passage.

Approved September 25, 1916.

No. 75.

An Ordinance Relative to Pedlers and Hawkers.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The chief of police, the sealer of weights and measures and the inspector of animals and provisions shall ex-officio

constitute the pedlers license commission.

Section 2. No person, except itinerant vendors, wholesalers or jobbers having a permanent place of business in this commonwealth and selling to dealers only, and commercial agents or other persons selling at wholesale by sample, lists, catalogues or otherwise for future delivery, shall go from place to place in this city carrying for sale or barter or exposing for sale or barter, fish, fruit or vegetables without a license therefor from the commission. This ordinance shall not apply to any person who peddles only fruit and vegetables or other farm products raised or produced by himself or family.

Section 3. The commission shall have authority to grant such license to any person of good reputation for morals and integrity who is a citizen of the United States or has formally declared his intention to become a citizen. Licenses shall bear date of the day on which they are issued and unless sooner revoked shall expire on

the first day of May next following.

Section 4. No hawker or pedler shall sell, or offer or expose for sale, any of the articles enumerated in section 15 of chapter 65 of the Revised Laws of Massachusetts, or in any acts in amendment thereof or in addition thereto, unless he has registered his name and residence with the commission and received a certificate of said registration nor unless such registration and certificate are in force. Such registration and certificate shall be in force only until the first day of May next following his registration. Every person

licensed under the provisions of the preceding section shall register

his name and residence in like manner with the commission.

Section 5. No person, unless duly licensed by the commission so to do, shall ring a bell or cry his wares or calling in a street, for the purpose of giving notice of the exercise of a business or calling, or for the sale of an article; and no person shall use in a public street for said purpose a horn or other noise-making instrument, except a bell as aforesaid. No person so licensed shall cry his wares or calling in a street earlier in the day than eight o'clock a. m., nor later in the day than seven o'clock p. m., and no person so licensed shall ring a bell in a street earlier in the day than eight o'clock a. m., nor later in the day than nine o'clock p. m.

Section 6. Every vehicle used by a hawker or pedler as a conveyance for articles offered or exposed for sale by him shall have the name and number of the hawker or pedler painted thereon in letters and figures at least two inches in height in a conspicuous place on each side. The vehicle shall be kept clean and neat within and without and shall be submitted to the commission for inspection

whenever it shall request.

Section 7. No person shall be licensed or registered under this ordinance until he presents the commission a statement from the sealer of weights and measures that all weighing and measuring devices intended to be used by such person have been duly inspected and sealed as required by law.

Section 8. Any hawker or pedler who fails, neglects or refuses to exhibit his license or certificate of registration when the same is demanded of him by a commissioner or sealer or deputy sealer of weights and measures or member of the police department of the city shall be subject to the penalty provided in section 13 of this ordinance.

Section 9. No person under sixteen years of age shall receive

a license or be registered under this ordinance.

Section 10. Any license granted under this ordinance or any ordinance amendatory or additional thereto, may be revoked by the commission at any time in its discretion.

Section 11. Nothing in this ordinance shall be construed as conflicting with any license duly issued under the laws of the Common-

wealth of Massachusetts.

The fee for a license under section 2 of this ordi-Section 12.

nance shall be one dollar.

Section 13. Whoever violates any provision of this ordinance shall be punished by a fine not exceeding twenty dollars for each offense.

Section 14. Chapter XXIX of the Revised Ordinances of 1911 and all other ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Section 15. This ordinance shall take effect upon its passage.

Approved December 19, 1916.

Frederic W. Cook, City Clerk.

CITY GOVERNMENT AND OFFICERS FOR 1916.

Mayor.

Zebedee E. Cliff, 29 Powder House Terrace.

Board of Aldermen.

President, William Fleming. Vice-president, Warren C. Daggett.

WARD ONE.

William Fleming, Alderm Wallace E. Loveless John A. Mack		73 Florence street 91 Perkins street 29½ Alston street
George W. Pratt, Alderm Robert C. Harris . Maurice F. Ahearn .		35 Clark street 12 Dimick street 21 Linden street
	WARD THREE.	
Robert J. Farrell, Alder Charles M. Austin . John M. Webster .		21 Avon street 23 Berkeley street 246 Medford street
William H. Andrews, Al	derman-at-large	18 Walnut road
Arthur N. Richardson		68 Bonair street
Walter H. Snow .		42 Derby street
	WARD FIVE.	
Fred E. Durgin, Alderman Hermon A. Fleming		52 Albion street 51 Heath street
William J. Bell .		380 Medford street
	WARD SIX.	
James A. Butler, Aldern Warren C. Blair .		286 Highland avenue 26 Tower street
Joseph J. Pincus .		41 Lexington avenue
	WARD SEVEN.	
Warren C. Daggett, Alder		28 Belknap street
Almon W. Preble .		28 Francesca avenue
Austin M. Pinkham		34 Liberty avenue
City Clerk-F	rederic W. Cook.	

City Clerk-Frederic W. Cook.

Assistant City Clerk--Jason M. Carson.

City Messenger-Fred E. Hanley.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS—Aldermen Blair, Durgin, Andrews, Farrell and Pratt.

FINANCE—The President, Aldermen Richardson, Butler, Harris, Webster, Pinkham and Bell.
LEGISLATIVE MATTERS—Aldermen Ahearn, Pinkham, Bell, Pincus and

Mack.

LICENSES AND PERMITS-Aldermen Austin, Fleming of Ward 5, Daggett, Pratt, Snow, Pincus and Mack.

Public Property-Aldermen Preble, Fleming of Ward 5, Snow, Harris and Webster.

Public Safety-Aldermen Andrews, Preble, Austin, Loveless and Butler.

Public Works-Aldermen Durgin, Daggett, Blair, Richardson, Loveless, Farrell and Ahearn.

School Committee.

Chairman.—George E. Whitaker. Vice-Chairman.—HERBERT CHOLERTON.

(Term, two years, except members ex-officiis.)

ZEBEDEE E. CLIFF, Mayor (ex-officio), 29 Powder House terrace. WILLIAM FLEMING, President Board of Aldermen (ex-officio), 73 Florence street.

WARD ONE.

THOMAS KELLEY (elected 1914), 39 Pennsylvania avenue. JAMES J. RUDD (elected 1915), 46-A Franklin street.

WARD TWO.

CHRISTOPHER MULDOON, Jr., (elected 1914), 88 Concord avenue. DANIEL H. BRADLEY (elected 1915), 19 Concord avenue.

WARD THREE.

ALBERT C. ASHTON (elected 1914), 33 Columbus avenue. GEORGE E. WHITAKER (elected 1915), 75 Walnut street.

WARD FOUR.

Frank H. Holmes (elected 1914), 22 Walter street. HARRY A. STONE (elected 1915), 254 Broadway.

WARD FIVE

Julia R. Aldrich (elected 1914), 262 School street. HARRY M. STOODLEY (elected 1915), 283 Highland avenue.

WARD SIX.

MARY R. Brewer (elected 1914), 170 Summer street. GUY E. HEALEY (elected 1915), 38 Cambria street.

WARD SEVEN.

HERBERT CHOLERTON (elected 1914), 94 College avenue. Frank E. Porter (elected 1915), 43 Ossipee road.

Superintendent and Secretary—CHARLES S. CLARK.

Office, City Hall Annex.

Hours: 8 A. M. to 5 P. M., except Saturdays; Saturdays, 8 to 10 A. M.

Regular meetings, last Monday evening of each month, except July and August, when none are held, and December, when meetings are on the fourth Friday, and on the Friday preceding the first Monday in January.

Assessors.

(Term, three years.)

GEORGE E. ELLIOTT, Chairman (term expires 1917).

WINSOR L. Snow (term expires 1918).

HARRY VAN IDERSTINE (term expires 1917).

J. Robert Fenelon (term expires 1919).

DAVID B. ARMSTRONG (term expires 1918).

Assistant Assessors.

(Term, one year.)

FRED B. CLAPP.

JOHN FRANKLIN STACKPOLE.

GEORGE I. CANFIELD.

JAMES WILSON.

JOHN J. McCarthy.

WILLIAM H. WALLIS.

Office open: 8 A. M. to 4 P. M., Saturdays, 8 A. M. to 12 M.

Board of Health.

(Term, two members, two years; one member, one year.)

JACKSON CALDWELL, Chairman (term expires 1917).

RALPH F. HODGDON, M. D. (term expires 1918).

ROBERT M. LAVENDER (term expires 1917).

Clerk-Laurence S. Howard.

Agent—Caleb A. Page (Resigned October 21, 1916). George I. Canfield (Appointed October 23, 1916).

Medical Inspector.—Frank L. Morse, M. D.

Inspector of Animals and Provisions.—CHARLES M. BERRY.

Inspector of Milk and Vinegar.—HERBERT E. BOWMAN.

Office open: 8 A. M. to 4 P. M., Saturdays, 8 A. M. to 12 M.

Overseers of the Poor.

Office, City Hall Annex.

(Term, three years.)

HENRY F. CURTIS, M. D., Chairman (term expires 1919). ALBERT W. EDMANDS (term expires 1917).

PHILIP KOEN (term expires 1918).

Agent.—CHARLES C. FOLSOM.

Secretary.—CORA F. LEWIS.

Warden City Home-I. FOSTER COLOUHOUN. Matron City Home—CATHERINE COLQUHOUN.

Office open: 8 A. M. to 4 P. M., Saturdays, 8 A. M. to 12 M.

Planning Board.

(Term, five years.)

CHARLES W. HODGDON (term expires 1917).

CLARENCE D. WATERHOUSE (term expires 1918).

DAVID J. KELLEY (term expires 1919).

OSCAR W. CODDING (term expires 1920).

WALDO E. DODGE (term expires 1921).

Registrars of Voters.

(Term, three years.)

EDWIN D. SIBLEY, Chairman (term expires 1918).

DOUGLASS B. FOSTER (term expires 1917).

CHARLES LEO SHEA (term expires 1919).

FREDERIC W. COOK, City Clerk (term expires 1917).

Public Library Trustees.

(Term, three years.)

THOMAS M. DURELL, Chairman (term expires 1919).

J. Frank Wellington (term expires 1917).

Frederick W. Parker (term expires 1918).

William L. Barber (term expires 1919).

Charles L. Noves (term expires 1917).

Herbert E. Buffum (term expires 1917).

Giles W. Bryant (term expires 1918).

David H. Fulton (term expires 1918).

Hermon C. Bumpus (term expires 1919).

Librarian and Secretary.—Drew B. Hall.

City Clerk.

FREDERIC W. COOK.

Assistant City Clerk.—JASON M. CARSON.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Treasurer and Collector of Taxes.

Joseph S. Pike.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Messenger.

FRED E. HANLEY.

Mayor's Secretary.

FRED E. WARREN.

City Solicitor.

FRANK W. KAAN, 50 State street, Boston.

City Auditor.

HOWARD E. WEMYSS,

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Engineer.

ERNEST W. BAILEY.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

ASA B. PRICHARD.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Public Buildings and Inspector of Buildings.

Walter T. Littlefield (Resigned June 1, 1916). George L. Dudley (Appointed June 8, 1916).

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Electric Lines and Lights.

WALTER I. FULLER.

Office, Central Fire Station, 261 Medford street.

Water Commissioner.

FRANK E. MERRILL.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Clerk of Committees and Departments.

RICHARD A. KEYES.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Chief of Police.

CHARLES A. KENDALL.
Office, Police Building, Bow street.

Chief Engineer of the Fire Department.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

City Physician.

C. CLARK TOWLE, M. D. 24 Prospect Hill avenue.

Inspector of Plumbing.

Duncan C. Greene.
Office hour: 8 to 9 A. M.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN.

Office hours: 9 A. M. to 12 M., except Saturdays.

Inspector of Animals and Provisions.

CHARLES M. BERRY, 60 Prescott street.

Inspector of Petroleum.

SEWALL M. RICH.
Office, Central Fire Station, 261 Medford street.

Sealer of Weights and Measures.

JOHN H. DUSSEAULT.

Deputy Sealer, BENJAMIN S. ABBOTT.

Office, City Hall Annex.

Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Registration Clerk, City Laborers.

Forrest D. Cook.

Fence Viewers.

CHARLES M. BERRY, 60 Prescott street. HOWARD LOWELL, 46 Gilman street.

Burial Agent.

UNDER REVISED LAWS, CHAPTER 79, SECTION 2.

JOHN H. DUSSEAULT,

42 Sargent avenue.

Constables.

CHARLES M. AUSTIN.
HENRY T. BATES.
CHARLES W. F. BENNETT.
GEORGE H. CARLETON.
EUGENE A. CARTER.
WINSLOW W. COFFIN.
FORREST D. COOK.
WILLIAM E. COPITHORNE.
ALBION B. CROCKER.
THOMAS DAMERY.
CHARLES L. ELLIS.

CHARLES C. FOLSOM.
FRED E. HANLEY.
JAMES M. HARMON.
CHARLES A. KENDALL.
JOHN J. MCCARTHY.
EDWARD E. MARSH.
CHARLES B. PALMER.
JOHN F. SCANNELL.
MALCOLM E. STURTEVANT
HERBERT WILSON.
CHARLES E. WOODMAN.

Measurers of Wood and Bark.

CHARLES A. HARDY.
JOSEPH F. TYTER.
F. FULLER WHITING.

Measurer of Grain. EVERETT C. EMERY.

Public Weigher in Charge of City Scales at City Ledge.
WILLIAM H. WHITCOMB.

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