



CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1915

With Mayor's Inaugural Address

Delivered January 3, 1916



SOMERVILLE JOURNAL PRINT

1916

INAUGURAL ADDRESS

DELIVERED BY

Mayor Zebedee E. Cliff

MONDAY, JANUARY 3, 1916

Gentlemen of the Board of Aldermen:—

On this opening day of the new municipal year, it is a pleasure to once more extend my heartiest greetings to the members of the incoming board.

It is a pleasure to continue my association with so many of you who served in the board of last year and the year before, and I anticipate no less pleasure in coming association with the new members who are just entering upon their legislative life in this year's board.

The co-operation manifested during the past year has made possible, more than any one thing, the continuance of good government. We have differed many times as to details, but these differences helped us both to see and do what was for the right. It is the very evident intent of our charter that the legislative and executive branches, though neither may exercise the powers of the other, shall, to no slight extent, be a check upon each other. This intention may be carried out, as it has been many times the past year, with no feeling of resentment on either side, but rather in the spirit of co-operation which is so necessary to maintain Somerville's high standard of government.

If at any time during the year I can be of any service to the members of your board in any matter under consideration, or the executive department may have any facts which will assist you in your deliberations, they will be cheerfully and willingly furnished to the best of my ability. It is my earnest desire, as I feel assured it is yours, to work together during the year with one sole

purpose,—the giving to our city the best government possible.

We will have many matters before us which will try our judgment and test our wisdom, but I have no doubt that the government of our fair city will be found today, as it has in the past, standing for the just and the right. We cannot please all the people in all things, but we can—and I know we will—satisfy the great body of our citizens in endeavoring to uphold the good name of our city and in giving justice and consideration to their many demands. There is a time in the life of every public official when he may be criticized for doing that which is right, that which his conscience approves. When such a time comes, we should meet the matters manfully and with courage. No public man so appeals to the people as the one who has convictions and dares to stand by them in the face of opposition.

This is a great corporation. It has the expenditure of two and a half millions a year, and as directors, elected by the people to conduct this corporation, we have the responsibility of its economical and successful administration. It is a grave responsibility and we should enter upon our duties of the year with a serious appreciation of this responsibility.

Finance.

A statement of the financial condition of the city on January 1, 1916, has been prepared by the city auditor and is incorporated in this address.

The pay-as-you-go basis has been steadily maintained; we have paid every bill; appropriations have been kept within the budget made at the beginning of the year; and we have in the treasury an unexpended balance of \$25,000.

Auditing Department.

The auditing department, set up under authority of the Board of Aldermen of 1914 along the lines of the system recommended by the Bureau of Statistics of the Commonwealth, commenced its active operation in Jan-

uary and was in full swing by the end of May. The installation of the system was carried on under supervision of state experts on municipal finance and we have every reason to believe that we have today as good an auditing system as any in the state. Municipal auditors are required to make an annual report of all financial transactions to the director of the Bureau of Statistics, and by adopting the state system of accounting the accounts are kept in such form as to make the information required readily accessible.

There is no doubt that the operation of the department along its present lines has resulted in a more careful expenditure of the city's money and has made a saving in all departments, and the executive has been able to keep closer in touch with their work and expenditures.

The present system centralizes accounts in the auditing department and relieves the treasurer of the necessity of keeping departmental accounts, and the methods of accounting in that department have been so adjusted as to make it comparatively simple to check up with the auditor.

Receipts and payments are classified in detail. This will be especially beneficial for comparative purposes in making up future budgets and will enable the mayor and aldermen to more clearly understand the various items of the budget.

The state assessment for installing the system was \$1,486.58. This amount includes forms and printed matter for various departments, as well as a complete set of books and accounting forms for the street department. I believe that the expense incurred in establishing this department upon a sound basis has been more than offset already by the saving, direct and indirect, made possible by it.

Public Works Departments.

The custom of 1914 of holding frequent meetings of the Board of Public Works has been continued throughout the year, and from the free and open discussions at these

meetings of the work of these departments I believe a great deal has been accomplished, and the spirit of co-operation has strengthened and grown.

We have also had several meetings of all heads of departments, which have resulted in hearty co-operation and have greatly increased the efficiency of the departments. It is my purpose, at an early date, to have all of the heads of departments meet together to formulate plans and discuss matters which will come before each of the several departments during the ensuing year.

We will continue the practice of last year of notifying all public service corporations of work contemplated by the city, giving them ample time in which to do their work before we construct any street or sidewalk.

Water Department.

The outside work of the Water Department was started in January instead of April, as heretofore, in order to give work to the unemployed, and thereby relieve the distress incident to the general lack of employment prevailing at that time. The work was given to the men who most needed employment. Over 100 were employed when other work was difficult to obtain. On account of the extra cost of doing trench work and laying water mains during the winter season when the ground was frozen, the men employed agreed to work for \$2.00 a day, and this rate was continued until April, when the regular rate of \$2.25 was restored. With this slight difference in the usual rate of pay the citizens were put to no extra expense on account of this work, and we had the satisfaction of materially helping more than 100 families.

Over 7,000 feet of new street mains have been laid during the year, the principal line being the extension of the high-service system from Central square, through Medford street, to the entrances of the yards of the packing houses, from which points connections have been made with the pumps and sprinkler systems of the factories.

The North Packing & Provision Company paid the city \$1,540.01, this being the total cost of the work of

laying that portion from Somerville avenue along Medford street in front of its property. Six new fire hydrants have been installed in this line on Medford street for the better protection of that district, and this extension of the high water pressure is considered of much importance, both to the city and the packing houses.

Another important feature of the year's work is the construction of a high-pressure line to the High School buildings.

A large amount of work has been done in renewing service pipes in streets before construction, so as to avoid the necessity of digging up finished streets.

Application has been made to the metropolitan water and sewerage board for an additional feeding line to our local high-service system, which it is hoped will meet with favorable consideration.

Street Department.

Considerable attention has been paid to the streets of our city the past year. To maintain them in satisfactory condition for all kinds of traffic is one of the problems of this department. There is a demand for smooth streets, although they are more or less dangerous for horses, and numerous complaints have been received from horse owners because of the slippery conditions. We are giving serious thought to this question and are striving to make our streets at least passable for horses, as well as for the automobiles.

Nineteen new streets have been constructed during the past year, and eight reconstructed with macadam pavement. Portions of Broadway, Washington street and Willow avenue have been constructed with cement base and asphalt surface; also, Horace street has been built with vitrified brick. Seven and one-half miles of sidewalks have been laid.

After controversy of many years, an agreement has been made with the Boston & Maine Railroad to construct approaches to bridges over railroad locations, and three of these have been constructed this past year at their expense.

I would recommend that the eastern portion of Broad-

way be reconstructed; also the portion of Washington street from Union square to Dane street, a portion of Summer street, and a portion of Pearl street.

It is to be regretted that the Boston Elevated Railway Company found it necessary to make such extensive repairs in Highland avenue and at such a late time in the year. The condition in which this company has left the street is far from satisfactory, and it will be obliged to go over its work thoroughly as soon as the frost is out of the ground in the spring. I shall insist that every corporation digging up our streets for any purpose shall restore them to good condition, and carelessness or neglect in their work will not in any way be tolerated.

One of the most satisfactory operations of the year has been the opening up for public use of Davis square to its full capacity. By agreement with the Boston & Maine Railroad the old station has been moved, a fence built along the line of the railroad, and the area occupied by the station has been paved uniformly with the rest of the square. With the splendid building development of the last few years, this square is now one of the most attractive in the city. By the removal of this station and the erection of a fence the former dangerous conditions in this square have been eliminated to a large degree.

A new building has been constructed at the highway yard to better care for the operations of this department. The building provides quarters for carpentry, painting and wheelwright branches, and is arranged for much improved co-operation and efficiency in turning out work.

Early in the year a bookkeeper was appointed in the street department and a new system of accounting instituted, which has relieved the commissioner of much office detail and enabled him to give a greater amount of his time to street supervision.

Alewife Brook Parkway.

Under the petition presented to the legislature, an appropriation was made by the commonwealth of \$35,000 for the construction of a boulevard to extend from our Powder House boulevard, at a point near the athletic field,

along Alewife brook in Somerville and Cambridge, to Massachusetts avenue. The park commission informs me that it is expected to undertake this work in the near future. The opening up of this new cross-town route cannot help but relieve traffic congestion in the easterly part of the city.

Engineering Department.

There has been an extension of the storm-drain system in the western part of the city and separate-system sewers have been constructed in various streets. An unusual amount of work was required the past year in the maintenance of the sewer system on account of the severe storms in the months of July and August, the amount of rainfall being the greatest ever known in this part of the country, with a consequent flooding and damage in many parts. It appears that we have outgrown, in some sections, the old structures, and it will be necessary to reconstruct some of these in the very near future.

Electrical Department.

Last year in my inaugural I stated that our fire-alarm system was inadequate and that there should be a new system installed, providing the finances would permit. The committee on electric lines and lights went into the matter very thoroughly and presented strong arguments relative to the danger of the present system. I hesitated, knowing it would increase to a slight degree the funded debt account, but I feel that we have done the right thing in establishing an up-to-date system. The contracts for a new building and a new system have been signed and the work commenced. When completed, we will have a building known as first-class construction, absolutely fireproof, and a system in every way up-to-date and second to none in the country. This will enable us to install throughout our city more new fire-alarm boxes, which we could not do in the past, owing to the inadequate apparatus at the central station. The expense of the building and

equipment will be \$38,000—to my mind money well expended, as it is a protection to all life and property.

A marked improvement in our lighting system has been made during the past year. The old-type arc lamps have been discontinued and the new nitrogen lamps installed in their stead. These new lamps give 200 candle-power more light, and the change has not increased the expense of our lighting.

Schools.

During the year, provision has been made for increased accommodations for over 700 pupils. This has been accomplished by a six-room addition to the Cutler schoolhouse in Ward Seven and the erection of a new nine-room building in Ward One.

The Cutler addition was completed on September 15th and was ready for occupancy for the fall term. In addition to the new classrooms, a new, wholly enclosed fire exit was constructed, which adds greatly to the safety of the entire building. The total cost of the addition was \$34,498.66. There is still a balance in this appropriation, which I believe should be reserved for grading the Raymond avenue front of the lot.

The contract for the new building in East Somerville was awarded in August, and the construction work is well under way. It is expected that this building will be completed early in the year and that the total cost of land and building, including heating, plumbing, electrical work and grading, will not exceed \$65,000. The location on land adjacent to the Prescott school was decided upon by the Board of Aldermen after many weeks of careful deliberation, and it is reasonable to believe that when completed this building will furnish ample additional accommodation for this district.

Adequate provision is now made for so-called higher education, and whatever improvements can be made should be undertaken in behalf of training for those pupils who are obliged to go to work upon or before graduation from the high school.

High School Athletics.

There has been recently started, among those directly in charge of athletics in the high schools in the Metropolitan district, a concerted movement for their reorganization. This movement has my hearty endorsement. It is generally admitted that the present method of athletic control in high schools is far from the best that can be devised, and credit is due school officials for the courage they are showing in admitting defects and trying to find the right solution of their troubles. I believe the recent action of the school committee will bring about the desired result. The purpose of their action is to formulate a scheme for conducting athletics so as to provide for participation in the management by postgraduates, undergraduates and members of the high school faculty.

Playgrounds.

The special committee appointed by the Board of Aldermen last year to consider the needs and possibilities of playground and recreation work in Somerville presented, at the last regular meeting of the year, a lengthy and detailed report, a copy of which has been placed in my hands. Owing to the late hour at which this report was received, it has been manifestly impossible for me to give it the careful consideration it merits, and I shall have to refrain from comment on its recommendations until such time as I may be able to give them my careful study.

Good work has been done during the year in our playground activities, and I regret that the city cannot appropriate more money each year for its continuance and extension.

Libraries.

Our libraries have done good work during the past year. It is gratifying to note the extensive use of works of reference and the increased demand for standard and the more serious literature.

The three branches are in excellent condition, and the trustees feel that the reading rooms are doing an immense amount of good missionary work in reaching and helping to educate and Americanize our foreign-born population

Health Department.

The health department has been removed during the year to the new quarters provided for it in the City Hall annex, and with its large and well-equipped laboratory has been able to furnish greatly improved service. An automobile has been purchased for general work of the department and for conveying patients to the contagious hospital. Health conditions in our city are excellent.

Refuse Disposal.

I wish to particularly urge upon your board early consideration of my recommendation of last year and the year before relative to the control of this work. As I have stated many times, I do not believe that the present method of collecting ashes and offal under the direction of the street department is anywhere near as satisfactory to the citizens as the former method under direction of the health department. The cost of this work has increased in the past few years entirely out of proportion with the rest of the departments, and it is imperative that some action be taken to halt this increase. Our dumping places are almost exhausted, and in the very near future we shall be obliged to provide some method for disposal of ashes. This is a serious matter that I earnestly hope your board will give careful consideration.

Charities.

The people of our city are charitable. They do as much for the unfortunate as do the people of any other city in the country. On the whole, our poor are well taken care of. I do believe, however, that an improvement can be made by having a systematic way of giving. We ought to have some organization to act as a clearing-house on all cases. Instances have been found where the same

families have been helped by different churches, women's clubs and the Associated Charities, who were also receiving material aid from the city. This, to my mind, is wrong.

If we could formulate a plan of co-operation between our charitable organizations, churches and women's clubs, our charities would be better regulated. A meeting of all in any way interested in charity should be arranged, and I believe the outcome of such a meeting would be the formation of some definite plan.

The work done by our poor department is always creditable, but the manner in which the unusual demands of last winter, largely brought about by so many persons being out of employment, were met, reflects credit not alone upon this department of our city, but also upon other organizations and individuals who rendered great service.

As the result of a suggestion made in my inaugural address last year, the poor department placed 100 bags in as many homes for the receipt of clothing and other cast-off articles, and during the first three months of the year there were collected, with the aid of the highway department, from various homes, or sent in by the donors, over 300 packages containing more than 4,000 articles of clothing, groceries, toys, etc. A room in the City Hall annex was used for receiving and dispensing these articles, and hundreds of persons were benefited. Splendid work was done here by the ladies of the Somerville Federation for Social Service, whose president gave unsparingly of her time and energy and personally superintended much of this work. This federation, to which seventeen organizations of our city belong, is to be perpetuated and will, I believe, accomplish much in the solving of the problem of caring for the needy and helping them to a better condition in life.

Somerville Hospital.

Though our city has no hospital of its own, it is most fortunate in the splendid service which the Somerville Hospital renders our city poor. When we consider that our population is today nearly 90,000, we realize the im-

mense amount of need there must be for hospital service in our city. For a number of years we have made an annual appropriation of \$5,000 for this institution, and though our demands upon it for the care of the city's sick have greatly increased, the amount paid by the city has remained stationary. I do not feel that we are doing justice in the size of this appropriation. I shall recommend to your honorable board that the appropriation for the present year be increased to \$7,000, for I believe this increase is wholly justified.

Public Safety Departments.

The Board of Aldermen has amended the ordinances relative to the fire and police departments to regulate the amount of time to be allowed members of these departments on account of sickness and injury, and this action meets with my hearty approval. These occupations are both more than ordinarily hazardous, and it is only proper that provision should be made for these men when they are injured in the performance of their duties. There has been more or less dispute in past years as to the length of time for which pay would be continued to those who were sick or injured, and these ordinance amendments establish fixed rules for regulating such cases. I feel that they wholly protect the interests of the city by the requirement of physicians' certificates, and that at the same time the men are being treated fairly and justly. All reasonable measures which make conditions better for the men in these departments justly appeal to the public.

Fire Department.

One more piece of motor apparatus has supplanted the horses in the past year, and today four of the eight stations are completely motorized with the best class of equipment obtainable. When the department is fully motorized, which should be done as rapidly as the finances of the city will permit, we shall have a department of the greatest efficiency, maintained at the minimum of expense. The chief informs me that a comparison of records

of cost for two similar pieces of apparatus, one motor-driven and the other horse-drawn, in actual use in the department for a period of five years, shows the maintenance cost of the motor-driven to be less than one-half that of the other.

There has been a large decrease in fire loss the past year, the total loss for the year being less than one-third that of 1914. To just what extent the present-day movement for fire prevention may be responsible for this decrease it is, of course, impossible to know, but this we do know,—that most fires have their beginnings in some sort of carelessness or neglect. We must continue to be equipped to fight fires after they have started, but we should also, one and all, look after the conditions in and around our own premises. The time has arrived when our firemen must be trained in fire prevention methods as well as in fire fighting. The regulations governing the handling of gasoline have disturbed not a few of the automobile owners, and in many cases compliance with them has worked a hardship, but that they have been productive of good is apparent from the record of the year. Where in 1914 there was a total fire loss of upwards of \$40,000 in this city on garages and automobiles, during the past year there have been no fires of this kind whatever.

The entire basement of the high school plant has been equipped with a modern, up-to-date system of automatic sprinklers, an advanced step in fire prevention that will greatly help in safeguarding the many lives in this building, and I believe it would be good policy, from year to year, to similarly equip all our schoolhouses as far as our finances will allow. Insurance statistics show that one educational building is burned in the United States every twenty-four hours and that eighty per cent. of these fires originate in the basements of the buildings.

The city home is a building in which I believe such a system should be installed as soon as possible, and I recommend that your honorable board give this matter its early consideration. In this institution we care for many aged and infirm, many of them bedridden, and we should do everything possible to guard and protect them.

Police Department.

Considerable has been done in the past year in strengthening this department. Four patrolmen have been promoted to sergeants; one patrolman retired; eight reserve men promoted to patrolmen; nine reserve men appointed; and one reserve man resigned.

It has been suggested that it would be an advantage to this department to purchase two small automobiles for use in patrolling outlying districts. This is a matter for consideration.

The traffic problem is rapidly becoming a serious one. We shall be obliged to have more traffic officers in the future, although numerous warning signs, placed at the intersections of our principal streets and squares, have reduced the danger to a large degree.

Clerk of Committees.

The Board of Aldermen has amended the ordinance relative to the clerk of committees so that his selection is entirely removed from the control of the Mayor and placed wholly in the hands of the board.

I believe this change is an entirely proper one, for the former method of appointment by the executive of an officer whose duties were wholly connected with the legislative department was, to say the least, inconsistent with the spirit of the charter.

Elections.

I think it is the very general opinion that we have too frequent elections. They come so often that it is next to impossible to get the voters to take the interest they should. With a primary in September, an election and another primary in November, and still another election in December, and all of these recurring annually, the last four months of every year are given over entirely too much to politics. The present year we have still more of it,—the presidential primaries on the 25th of next April,

I sincerely hope this year's legislature will do something to relieve us in this respect.

In my recommendations of appropriations for 1915, I included an amount sufficient to cover holding primaries by precincts, the same as elections, and I shall probably renew this recommendation for 1916. It is a debatable question, but when there is any contest it is very hard under present conditions to get out the vote, and even without any contest the interest in primaries should be stimulated in every proper manner, in order that the true preference of the voters may be expressed.

City Charter.

The legislature of 1915 enacted a general law for city charters, which gives cities desiring a change the choice of any one of four plans. I do not think, judging from the interest taken in the proposition last fall, that there is any pronounced demand for the adoption of any of these plans, and I hope that our city will take no ill-advised step in this matter. There are many commendable features in all the suggested forms of government presented in this act, but there are also many objectionable ones. Our present charter doubtless has imperfections, but it is generally found to be a workable one, and our government under it has been remarkably free from criticism. I understand that the citizens of some of our sister cities, who have adopted one of the new plans, already regret their action, but must abide by it for a period of four years in accordance with the act. Let us proceed slowly in advocating any such doubtful change.

Intoxicating Liquors.

It is with a feeling of increased pride in our city that I comment on our record in the no-license column. Eighteen hundred and eighty-one was the first year in which the people of Massachusetts had the chance to decide by ballot whether or not intoxicating liquors should be sold in their cities and towns. Somerville's answer at that time was a decided negative, and it has been the same

every year since. We are indeed a banner no-license city, and it is my earnest hope that the future will never change us in this respect. The percentage of over 71 this last election for no-license is our best record yet, in spite of the many arguments that were used in regard to the refusal of druggists' licenses last spring.

In this connection, I wish to express my pleasure at the action of the legislature of Massachusetts in granting my petition for an amendment of the law in regard to the issuing of sixth-class licenses, so that the same is now made permissive rather than mandatory. There was a feeling in many quarters, and it was supported by many eminent legal minds, that the law absolutely required the granting of one or more such licenses, but the amendment of the present year removes any possible doubt in the matter. The action of the board of 1915 in refusing to grant all such licenses has been widely and favorably commented upon throughout the city, and, I am sure, meets with the general approval of our citizens. I have yet to hear of a single case where the existing conditions have worked harm in any manner.

Business Organizations.

We have in our city a number of business organizations which well merit commendation for the deep interest they take in the city's welfare,—the Somerville Board of Trade, the West Somerville Civic Association, the Winter Hill Improvement Association, the Union Square Business Men's Association, and several other organizations—all working along the lines of betterment of the city, financial and otherwise. It is gratifying to know that at the present time, through the efforts of the Board of Trade and other organizations and individuals working together, we have a number of new industries coming to our city, and a number of large buildings about to be erected.

These will aggregate over half a million dollars' worth of new taxable property in Somerville—a growth which is gratifying to all persons interested in our finances.

Probably more than on any other subject, during my administration as Mayor, I have talked new industries and commercial development, for it is only through these that we may expect to keep our tax rate down to its proper level.

Gentlemen of the Board:—

The voters have expressed, in no uncertain terms, their confidence in us, and we must repay that confidence with our best service.

The programme of the Metropolitan City Planning Exhibition held at the state house in November last contained this ancient oath, taken by those who went forth to fight for their city:—

“We shall never bring disgrace to this, our city. . . . We will fight for the ideals and sacred things of the city. . . . We will revere and obey the city’s laws. . . . We will strive unceasingly to quicken the public’s sense of civic duty. Thus, in all these ways, we will transmit this city, . . . greater, better, and more beautiful than it was transmitted to us.”

The oath voices a spirit of loyalty and a sense of duty that we may, each of us, well emulate.

Financial Statement.

Funded Debt.—The total funded debt of the city January 1, 1915, was \$1,616,000. This debt was increased during the year \$240,000. It was decreased \$205,500, leaving the funded debt January 1, 1916, \$1,650,500, an increase of \$34,500.

The debt January 1, 1915, was classified as follows:—

City Loan	\$996,000 00
Municipal Loan	77,000 00
Sewer Loan (inside limit)	309,000 00
Highway Loan	125,000 00
Lowell Street Bridge Loan	35,000 00

Total inside limit \$1,542,000 00

Metropolitan Park Assessment Loan \$15,000 00

Amount carried forward \$15,000 00

Amount brought forward	\$15,000 00
Sewer Loan (outside limit)	33,000 00
Water Loan	26,000 00
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Total outside limit	\$74,000 00
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Total Funded Debt	\$1,616,000 00

Increases were made during the year, due to appropriations, as follows:—

S. Newton Cutler School Addition	\$35,000 00
New School Building, East Somerville	67,000 00
Highways Construction, New Streets	23,500 00
Highways Construction, Permanent Pavement	28,500 00
Highways Construction, Macadam Pavement	30,000 00
Sidewalks Construction	18,000 00
New Building, Fire Alarm Signal System	38,000 00
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Total increase	\$240,000 00

Reductions in the debt, due to maturities, were as follows:—

City Loan	\$150,500 00
Municipal Loan	10,000 00
Sewer Loan (inside limit)	17,000 00
Highway Loan	18,000 00
Lowell Street Bridge Loan	1,000 00
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Total inside limit	\$196,500 00
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Metropolitan Park Assessment Loan	\$1,000 00
Sewer Loan (outside limit)	3,000 00
Water Loan	5,000 00
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Total outside limit	\$9,000 00
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Total reduction	\$205,500 00

The funded debt of the city January 1, 1916, \$1,650,500, is classified as follows:—

City Loan at 3½ per cent.	\$144,000 00
City Loan at 4 per cent.	618,500 00
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Amount carried forward , , , , ,	\$762,500 00

Amount brought forward	\$762,500 00
City Loan at 4¼ per cent.	83,000 00
Municipal Loan at 4½ per cent.	67,000 00
Sewer Loan at 3½ per cent.	72,000 00
Sewer Loan at 4 per cent.	192,000 00
Sewer Loan at 4¼ per cent.	28,000 00
Public Building Loan at 4 per cent.	140,000 00
Highway Loan at 4 per cent.	207,000 00
Lowell Street Bridge Loan at 3½ per cent.	34,000 00
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Total within limit	\$1,585,500 00
Metropolitan Park Assessment Loan at 3½ per cent.	\$14,000 00
Sewer Loan at 4 per cent.	30,000 00
Water Loan at 4 per cent.	21,000 00
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Total outside limit	\$65,000 00
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Total Funded Debt	\$1,650,500 00

Taxes.--The total amount of taxable property as of April 1, 1915, not including non-resident bank shares, was \$77,217,399.00. The tax rate was established as \$21.70 per \$1,000 valuation.

Real estate	\$68,378,900 00
Personal estate	8,774,600 00
Resident bank shares	63,899 00
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Total valuation	\$77,217,399 00
At \$21.70 per \$1,000	\$1,675,617 56
Polls, 24,749 at \$2	49,498 00
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	\$1,725,115 56
 Special Assessments:--	
Street Sprinkling	\$35,806 10
Moths	3,527 15
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	\$39,333 25
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	\$1,764,448 81
Non-resident bank shares, \$93,101 at \$21.70	2,020 29
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Total tax levy	\$1,766,469 10

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

General Government	\$84,915 00
Protection of Persons and Property	253,000 00
Health and Sanitation	177,430 00
Highways	166,700 00
Charities	56,700 00
Soldiers' Benefits	37,900 00
Education	467,600 00
Libraries	45,100 00
Recreation	16,700 00
Unclassified	37,100 00
Municipal Indebtedness	290,348 45
Water Works	186,140 00

Amounting in the aggregate to	\$1,819,633 45
Less estimated revenue	\$483,889 95

Amount raised by taxation for city purposes	\$1,335,743 50
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State and County Taxes, Metropolitan and Other Assessments, etc.:—

State Tax	\$153,562 50
State Highway Tax	465 85
County Tax	79,840 71
Metropolitan Park Assessment	37,981 64
Metropolitan Sewer Assessment	70,682 61
Wellington Bridge Assessment	2,456 70
Charles River Basin Assessment	6,217 31
Grade Crossings Assessment	15,664 93
Alewife Brook Assessment	1,283 87
Gas and Electric Light Commission Assessment	285 51
Fire Prevention Assessment	608 59
Auditing Municipal Accounts Assess- ment	1,486 58
Overlay	18,835 26
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	\$389,372 06
Collected for state on non-resident bank shares	2,020 29
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Total	\$391,392 35

Appropriations for city purposes	\$1,335,743 50	
State and County Taxes, Assessments, etc.	389,372 06	
		<hr/>
		\$1,725,115 56
Street Sprinkling	\$35,806 10	
Moths	3,527 15	
		<hr/>
		\$39,333 25
		<hr/>
		\$1,764,448 81
Non-resident bank shares	2,020 29	
		<hr/>
		\$1,766,469 10

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

YEAR.	Amount of Funded Debt.	Increase of Funded Debt.	Reduction of Funded Debt.	Tax Rate per \$1,000 Valuation on Account of Reduction of Funded Debt.
Town	\$593,349	.	.	.
Dec. 31, 1872	643,354	\$50,005	.	.
" 1873	809,354	166,000	.	.
" 1874	1,419,854	610,500	.	.
" 1875	1,571,854	152,000	.	.
" 1876	1,606,854	45,000	*\$55,130 62	\$2 07
" 1877	1,606,854	10,000	*58,828 58	2 30
" 1878	1,596,854	.	61,004 64	2 91
" 1879	1,585,000	.	64,915 76	3 42
" 1880	1,585,000	.	55,739 35	2 72
" 1881	1,585,000	.	58,498 64	2 59
" 1882	1,585,000	.	61,390 59	2 65
" 1883	1,585,000	.	64,479 01	2 70
" 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
" 1887	1,525,000	.	70,252 88	2 56
" 1888	†860,500	25,000	37,000 00	1 28
" 1889	952,500	130,000	38,000 00	1 27
" 1890	1,057,500	150,000	45,000 00	1 38
" 1891	1,045,500	45,000	57,000 00	1 55
" 1892	1,194,500	253,000	104,000 00	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
" 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
" 1900	1,478,000	152,000	166,500 00	3 17
" 1901	1,461,000	146,000	163,000 00	3 02
" 1902	1,447,000	175,000	159,000 00	2 86
" 1903	1,505,500	197,500	169,000 00	2 96
" 1904	1,493,500	132,500	139,500 00	2 40
" 1905	1,510,000	148,000	136,500 00	2 30
" 1906	1,464,500	100,000	145,500 00	2 41
" 1907	1,508,000	193,000	154,500 00	2 51
" 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
" 1911	1,519,000	188,000	169,000 00	2 41
" 1912	1,674,000	332,000	177,000 00	2 54
" 1913	1,674,000	222,000	222,000 00	2 92
" 1914	1,616,000	145,000	203,000 00	2 63
" 1915	1,650,500	240,000	205,500 00	2 57

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

†Sinking fund applied.

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 . . .	49,070,800 . . .	786,412 32 . . .	15 40
1897 . . .	50,231,000 . . .	913,574 42 . . .	17 30
1898 . . .	50,739,700 . . .	954,187 11 . . .	17 90
1899 . . .	51,262,400 . . .	882,580 96 . . .	16 30
1900 . . .	52,578,200 . . .	889,916 08 . . .	16 00
1901 . . .	53,924,200 . . .	907,439 82 . . .	15 90
1902 . . .	55,553,300 . . .	964,535 80 . . .	16 40
1903 . . .	57,062,000 . . .	1,038,849 84 . . .	17 20
1904 . . .	58,137,900 . . .	1,059,292 56 . . .	17 20
1905 . . .	59,233,000 . . .	1,144,000 14 . . .	18 30
1906 . . .	60,371,500 . . .	1,114,023 62 . . .	17 40
1907 . . .	61,627,200 . . .	1,144,434 92 . . .	17 40
1908 . . .	63,158,400 . . .	1,237,694 72 . . .	18 40
1909 . . .	63,658,953 20 . . .	1,260,144 32 . . .	18 60
1910 . . .	66,376,338 70 . . .	1,306,888 71 . . .	18 50
1911 . . .	67,234,066 00 . . .	1,366,240 92 . . .	19 10
1912 . . .	69,632,540 00 . . .	1,390,824 93 . . .	18 80
1913 . . .	71,906,464 00 . . .	1,505,706 98 . . .	19 80
1914 . . .	74,946,894 00 . . .	1,665,289 46 . . .	21 10
1915 . . .	77,217,399 00 . . .	1,764,448 81 . . .	21 70

REPORT OF THE CITY AUDITOR.

OFFICE OF THE CITY AUDITOR, }
January 27, 1916. }

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 1915, 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,
H. E. WEMYSS,
City Auditor.

BALANCE SHEET, DECEMBER 31, 1915.

Revenue Accounts.

ASSETS.

Cash:—	
In banks and offices	\$145,204 51
Advance to poor department	1,200 00
Private trust	127 11
City clerk	14 40
	<hr/>

Accounts receivable:—	
Taxes, 1915	\$323,680 97
Taxes, 1914	2,361 14
Taxes, 1913	233 64
Taxes, 1912	2 00
Special assessments, 1915	43,342 44
Special assessments, 1914	2,622 63
Departmental bills receivable	23,399 50
Commonwealth of Massachusetts, Soldiers' Benefits, 1915	15,348 50
Metered water rates, 1915	20,468 87
	<hr/>

Real estate liens		
Grade crossings		
	431,459 69	
	33 35	
	3,428 42	
	<hr/>	
	\$581,467 48	
	<hr/>	

LIABILITIES.

Temporary loans		\$500,000 00
Income of trust funds		1,749 98
Tailings		127 11
Premiums on bonds		904 78
Accrued interest on bonds		291 33
Revenue reserved when collected, departmental bills receivable	\$23,399 50	
Taxes, 1915, supplementary warrants	5,009 61	
	<hr/>	
Overlay, levy of 1912	\$56 39	
Overlay, levy of 1913	6,081 66	
Overlay, levy of 1914	5,524 65	
Overlay, levy of 1915	10,168 05	
	<hr/>	
City clerk, dog license fees		21,830 75
Excess and deficiency		14 40
		<hr/>
		28,140 02
		<hr/>
		28,409 11
		<hr/>

		21,830 75
		14 40
		<hr/>
		28,140 02
		<hr/>
		\$581,467 48
		<hr/>

Non-Revenue Accounts.

Cash in banks and offices		
Accounts receivable:—		
Highway construction, macadam pavement	\$25 60	
Highway construction, permanent pavement	92 50	
	<hr/>	
	118 10	
	<hr/>	
	\$95,899 50	
Construction bills receivable, pledged when collected, to appropriations		\$118 10
Unexpended balances:—		
Appropriations		95,899 50
		<hr/>
		\$96,017 60
		<hr/>

BALANCE SHEET.—Continued.

Municipal Indebtedness.

Net bonded debt	\$1,650,500 00	Loans within statutory debt limit:—	
		City bonds	\$845,500 00
		Municipal bonds	67,000 00
		Sewer bonds	292,000 00
		Public building bonds	140,000 00
		Highway bonds	207,000 00
		Bridge bonds	34,000 00
			<u>\$1,585,500 00</u>
		Loans outside statutory debt limit:—	
		Sewer bonds	\$30,000 00
		Metropolitan park bonds	14,000 00
		Water bonds	21,000 00
			<u>65,000 00</u>
			<u><u>\$1,650,500 00</u></u>

Trust Funds.

Investments:—		Trust funds:—	
Cash and securities	\$25,414 58	School	\$5,000 00
		Library	20,414 58
			<u>\$25,414 58</u>
			<u><u>\$25,414 58</u></u>

CASH STATEMENT DECEMBER 31, 1915.

REVENUE.

Receipts.

General:—		
Taxes	\$1,736,261 53	
Corporation Railway and Bank Tax	68,469 74	
Licenses	3,079 00	
Permits	1,463 00	
Fines and forfeits	1,735 50	
Commonwealth of Massachusetts, ac- count Industrial School	6,552 54	
County of Middlesex, dog licenses	3,284 95	
Account grade crossings	3,403 77	
	<hr/>	\$1,824,250 03
Special assessments		62,300 85
Departmental:—		
General government	\$5,695 43	
Protection of persons and property	2,647 12	
Health and sanitation	28,143 98	
Highways	6,245 08	
Charities	13,857 94	
Soldiers' benefits	15,284 00	
Schools	4,588 71	
Libraries	1,510 82	
Recreation	807 96	
Miscellaneous	637 74	
	<hr/>	79,418 78
Water Department Accounts		236,793 03
Interest:—		
On deposits, taxes, etc.	\$19,896 51	
Income from trust funds	1,118 62	
	<hr/>	21,015 13
Temporary loans in anticipation of revenue		1,156,000 00
Premiums on general loans		904 78
Refunds		3,155 86
Departmental cash transfers		1,388 10
Account of abatement sidewalk assess- ment		6 81
	<hr/>	
Total receipts	\$3,385,233 37	
Transfer from non-revenue account service trans- fers		13,677 06
Balance at beginning of period		85,779 19
	<hr/>	
		<u>\$3,484,689 62</u>

CASH STATEMENT DECEMBER 31, 1915—Continued.

Payments.	
Appropriations	\$1,794,119 33
State taxes and assessments	292,716 38
County tax	79,840 71
Income of trust funds	572 42
Temporary loans	1,121,000 00
Grade crossings	2,672 45
National Bank tax	4 03
Advanced to poor department	1,200 00
Refunds	699 33
Real estate liens	33 35
<hr/>	
Total payments	\$3,292,858 00
Transfer, revenue for outlays	46,500 00
Balance on hand	145,331 62
<hr/>	
<u>\$3,484,659 62</u>	

NON-REVENUE.

Receipts.	
Departmental accounts	\$4,714 71
Redemption of tax liens	1,423 21
Funded debt loans	240,000 00
Refunds	85 79
<hr/>	
Total receipts	\$246,223 71
Transfer, outlays from revenue	46,500 00
Balance at beginning of period	23,241 21
<hr/>	
<u>\$315,964 92</u>	

Payments.	
Appropriations	\$204,965 15
Redemption of tax liens	1,423 21
<hr/>	
Total payments	\$206,388 36
Transfer to revenue account service transfers	13,677 06
Balance on hand	95,899 50
<hr/>	
<u>\$315,964 92</u>	

SUMMARY.

Total revenue receipts	\$3,398,910 43
Total non-revenue receipts	292,723 71
<hr/>	
\$3,691,634 14	
Total balance at beginning of period	109,020 40
<hr/>	
<u>\$3,800,654 54</u>	
<hr/>	
Total revenue payments	\$3,339,358 00
Total non-revenue payments	220,065 42
<hr/>	
\$3,559,423 42	
Total balance on hand	241,231 12
<hr/>	
<u>\$3,800,654 54</u>	

Taxes.

	1912.	1913.	1914.	1915.	Total.
Taxes uncollected January 1, 1915	\$56 00	\$1,029 52	\$342,983 21	\$1,732,227 75	\$344,068 73
Levy of 1915	.....	* 5 96	* 20 55	.....	1,732,254 26
Total to collect in 1915	\$56 00	\$1,035 48	\$343,003 76	\$1,732,227 75	\$2,076,322 99
Paid in 1915 (less refunds)	14 00	364 14	335,611 61	1,399,797 28	1,735,787 03
Abatements in 1915	42 00	437 70	5,031 01	8,749 50	14,260 21
Total payments and abatements	\$54 00	\$801 84	\$340,642 62	\$1,408,546 78	\$1,750,045 24
Uncollected January 1, 1916	\$2 00	\$233 64	\$2,361 14	\$323,680 97	\$326,277 75

*Re-assessment.

Special Assessments.

	Street Sprinkling.	Moths.	Sewer.	Sidewalks.	Highway Betterment.
Assessments levied, 1912	.....	.....	.....	\$6 81	.....
Assessments levied, 1913	.....	.....	\$95 95	1,384 37	.....
Assessments levied, 1914	.....	.....	2,779 03	15,620 04	\$10,833 60
Assessments levied, 1915	\$35,806 10	\$3,527 15	1,386 43	14,687 44	22,236 36
Totals	\$35,806 10	\$3,527 15	\$4,261 41	\$31,698 66	\$33,069 96
Collected in 1915	\$27,569 25	\$2,588 40	\$2,811 01	\$15,449 13	\$13,849 06
Abatements	24 55	100 00	.....	6 81	.....
Total payments and abatements	\$27,593 80	\$2,688 40	\$2,811 01	\$15,455 94	\$13,849 06
Uncollected January 1, 1916	\$8,212 30	\$838 75	\$1,450 40	\$16,242 72	\$19,220 90
Total uncollected special assessments January 1, 1916	.....	.....	1914.	1915.	Total.
	.....	.....	\$2,622 63	\$43,342 44	\$45,965 07

DEPARTMENTAL BILLS.

Departmental Accounts, Pledged to Revenue.

	Uncollected previous years.	Committed 1915.	Total to collect.	Collected and abated.	Uncollected Jan. 1.
Engineering	\$3 50	\$5 00	\$8 50	\$8 50	.....
Police . . . . .	.....	999 35	999 35	873 95	\$125 40
Police buildings	250 00	755 65	1,005 65	1,005 65	.....
Fire	4 63	160 65	165 28	165 28	.....
Electrical	65 38	.....	65 38	65 38	.....
Health	656 30	571 57	1,227 87	943 02	284 85
Contagious Hospital	10,578 00	17,274 46	27,852 46	17,525 93	10,326 53
Inspection of milk	43 00	432 50	475 50	402 00	73 50
Refuse disposal	129 08	1,029 50	1,158 58	1,123 75	34 83
Highways maintenance	84 82	4,659 04	4,743 86	4,623 91	119 95
Street sprinkling . . . . .	.....	670 55	670 55	640 55	30 00
Sidewalks maintenance	9 38	71 08	80 46	80 46	.....
Sidewalks construction . . . . .	.....	2,430 73	2,430 73	2,395 73	35 00
Highways construction, new streets . . . . .	.....	179 30	179 30	.....	179 30
Poor department, miscellaneous	1,985 52	17,885 39	19,870 91	8,570 61	11,300 30
Poor department, City Home	177 90	2,016 21	2,194 11	2,026 15	167 96
Soldiers' relief . . . . .	.....	48 00	48 00	48 00	.....
School contingent	506 40	3,104 12	3,610 52	3,092 39	518 13
Maintenance school buildings	8 75	15 35	24 10	20 35	3 75
Maintenance highway buildings	20 00	200 00	220 00	220 00	.....
Parks maintenance	50 00	.....	50 00	50 00	.....
Somerville field	200 00	.....	200 00	.....	200 00
Totals	\$14,772 66	\$52,508 45	\$67,281 11	\$43,881 61	\$23,399 50

Construction Accounts, Pledged to Appropriations.

Highway construction, macadam pavement	\$661 35	.....	\$661 35	\$635 75	\$25 60
Highway construction, permanent pavement	892 93	178 53	1,071 46	978 96	92 50
Total Departmental Bills Outstanding	\$1,554 28	\$178 53	\$1,732 81	\$1,614 71	\$118 10
					\$23,517 60

WATER DEPARTMENT ACCOUNTS (REVENUE).

	Commitments.	Abatements.	Collected.	Balance.
Metered rates	\$166,039 20	\$261 94	\$145,308 39	\$20,468 87
Annual rates	60,591 80	1,449 65	59,142 15	.....
Additional rates	2,587 54	465 76	2,121 78	.....
Service assessments	4,111 23	17 00	4,094 23	.....
Maintenance bills	3,551 98	.....	3,551 98	.....
Water works extension	1,540 01	.....	1,540 01	.....
	<hr/>	<hr/>	<hr/>	<hr/>
	\$238,421 76	\$2,194 35	\$215,758 54	\$20,468 87
Receipts . . . . .	. . . . .	. . . . .	. . . . .	\$215,758 54
Metered rates last quarter . . . . .	. . . . .	. . . . .	. . . . .	20,468 87
Water revenue, 1915 . . . . .	. . . . .	. . . . .	. . . . .	<hr/>
				\$236,227 41

STATEMENT OF ESTIMATED REVENUE, 1915.

	Estimated Receipts.	Actual Receipts.	Excess.	Deficit.
Corporation taxes	\$21,000 00	\$24,528 96	\$3,528 96	
National bank tax	3,500 00	4,114 59	614 59	
Street railway tax	41,000 00	39,822 16		\$1,177 84
Dog licenses	3,284 95	3,284 95		
Milk licenses	250 00	305 00	55 00	
Licenses and permits, Health department	350 00	398 00	48 00	
Licenses and permits, City Clerk's department	3,800 00	3,839 00	39 00	
Court fines	1,500 00	1,504 00	4 00	
Departmental penalties	200 00	231 50	31 50	
Treasury department, costs and fees	4,000 00	4,523 72	523 72	
Assessors' department, certifications, etc.		11 00	11 00	
City Clerk's department, fees, etc.	1,150 00	1,152 21	2 21	
Engineering department	50 00	8 50		41 50
Police department, including rent of court room	1,500 00	1,872 62	372 62	
Fire department	800 00	165 28		634 72
Sealer of Weights and Measures, fees, etc.	500 00	543 84	43 84	
Electrical department		65 38	65 38	
Moth assessments	2,500 00	3,427 15	927 15	
Health department	600 00	943 02	343 02	
Contagious hospital	13,000 00	16,570 41	3,570 41	
Inspection of milk and vinegar	275 00	441 50	166 50	
Refuse disposal	8,800 00	10,189 05	1,389 05	
Sewer assessments		1,386 43	1,386 43	
Highways maintenance	900 00	2,917 72	2,017 72	
Sidewalk maintenance	70 00	71 08	1 08	
Street sprinkling (bills)	500 00	640 55	140 55	
Street sprinkling assessments	55,500 00	35,781 55	281 55	
Sidewalks construction (bills)		2,395 73	2,395 73	
Sidewalk assessments	17,500 00	14,687 44		2,812 56
Street betterment assessments	21,000 00	22,236 36	1,236 36	

Highway buildings	240 00	220 00	20 00
Poor department, City Home	5,000 00	5,640 50	640 50
Poor department, miscellaneous	11,000 00	8,217 44	2,782 56
State aid	15,000 00	14,646 50	353 50
Military aid	200 00	152 00	48 00
Soldiers' burials	1,000 00	550 00	450 00
Soldiers' relief	50 00	72 00	22 00
School contingent	1,800 00	2,743 27	943 27
Commonwealth of Massachusetts, account Industrial School	6,600 00	6,552 54	47 46
School department, forfeitures, etc.	100 00	160 94	60 94
Maintenance school buildings	1,760 00	1,556 50	203 50
Maintenance school buildings	1,400 00	1,510 82	110 82
Library department	500 00	500 00	
Electrolysis	50 00	129 72	129 72
Commonwealth of Massachusetts, in lieu of taxes	50 00	50 00	
Parks maintenance	500 00	614 91	500 00
Playgrounds maintenance	600 00	614 91	14 91
Bathhouse	600 00	600 00	
Shower baths	60 00	143 05	83 05
Water department	240,500 00	236,227 41	4,272 59
Interest on bank deposits	4,000 00	7,818 50	3,818 50
Interest on deferred taxes	9,500 00	11,200 17	1,700 17
Interest on deferred special assessments	500 00	521 17	21 17
Miscellaneous interest		356 67	356 67
	<u>\$483,889 95</u>	<u>\$497,642 81</u>	<u>\$13,344 23</u>
Actual receipts			\$497,642 81
Estimated receipts			483,889 95
Excess of estimated revenue			<u>\$13,752 86</u>

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (REVENUE).

	Appropriation.	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit.	Expenditures.	Balance to Excess and Deficiency.
General Government.							
Board of Aldermen, expenses	\$800 00	\$65 00	\$200 00	\$8 00	\$943 00	\$938 31	\$4 69
Clerk of Committees department	1,700 00	70 00			1,630 00	1,616 62	13 38
Executive department	4,800 00	80 00			4,720 00	4,710 17	9 83
Auditing department	4,400 00				4,400 00	4,361 24	38 76
Treasury department	14,000 00		160 00		14,160 00	13,949 71	210 29
Assessors' department	12,475 00	60 00			12,415 00	12,399 77	15 23
Certification of notes and bonds	600 00				600 00	600 00	
City Clerk's department	7,186 00	375 00		1,153 40	7,964 40	7,918 44	45 96
Registration city laborers	390 00		15 00		405 00	397 70	7 30
Law department	2,400 00		12 00		2,412 00	2,411 91	09
City Messenger's department	2,100 00				2,100 00	2,079 60	20 40
Engineering department	11,500 00		115 00	89 25	11,704 25	11,703 80	45
Commissioner Public Buildings	5,700 00		105 00		5,805 00	5,792 29	12 71
Maintenance municipal buildings	8,000 00		442 00	254 27	8,696 27	8,696 03	24
City planning board	100 00	55 00			45 00	41 00	4 00
Election expenses, city clerk	2,300 00	575 00			1,725 00	1,724 82	18
Election expenses, registrars of voters	2,400 00				2,400 00	2,383 46	16 54
Pay of election officers	3,264 00				3,264 00	3,264 00	
Maintenance polling places	800 00	20 00			780 00	772 77	7 23

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (REVENUE).

	Appropriation.	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit.	Expenditures.	Balance to Excess and Deficiency.
Highways.							
Highways maintenance	\$28,000 00	.....	\$375 00	\$28,303 55	\$56,678 55	\$56,537 89	\$140 66
Sidewalks maintenance	4,000 00	\$180 00	.....	13 08	3,833 08	3,819 64	13 44
Highways, street sprink- ling	35,000 00	320 00	.....	.....	34,680 00	34,486 47	193 53
Street lighting	60,000 00	.....	.....	.....	60,000 00	60,000 00	.....
Maintenance highway buildings	1,200 00	455 00	.....	.....	745 00	742 35	2 65
Charities and Soldiers' Benefits.							
Poor department, mis- cellaneous	\$38,000 00	.....	\$7,450 00	\$77 89	\$45,527 89	\$45,524 58	\$3 31
Poor department, City Home	11,500 00	\$278 00	.....	.....	11,222 00	11,218 65	3 35
Maintenance City Home buildings	2,200 00	56 00	350 00	.....	2,494 00	2,491 67	2 33
Somerville Hospital	5,000 00	.....	.....	.....	5,000 00	5,000 00	.....
Soldiers' benefits, gen- eral administration	1,000 00	.....	.....	.....	1,000 00	962 96	37 04
Soldiers' relief	20,500 00	.....	756 50	25 50	21,282 00	21,282 00	.....
Military aid	400 00	96 00	.....	.....	304 00	304 00	.....
State aid	15,000 00	349 50	.....	\$16 60	14,666 50	14,662 50	\$4 00
Soldiers' burials	1,000 00	420 75	.....	.....	579 25	550 00	29 25
Education and Libraries.							
School contingent	\$35,000 00	.....	\$10 00	.....	\$35,010 00	\$34,994 60	\$15 40
School teachers' salaries	350,000 00	\$135 00	2,500 00	.....	352,365 00	352,364 14	86
Maintenance school build- ings, January	31,000 00	22 00	.....	.....	30,978 00	30,950 19	27 81

Maintenance school buildings, fuel and light	24,500 00	4,680 00	216 00	145 85	20,181 85	20,181 71	14
Maintenance school buildings, buildings and grounds	24,500 00	4,740 00	4,740 00	224 25	29,464 25	29,442 60	21 65
Central library	24,800 00	.....	.....	.....	24,800 00	24,794 08	5 92
Maintenance Central library	4,100 00	415 00	.....	.....	3,685 00	3,677 72	7 28
West Somerville Branch library	6,500 00	.....	.....	.....	6,500 00	6,498 26	1 74
Maintenance West Somerville branch	1,900 00	430 00	.....	.....	1,470 00	1,410 83	59 17
East Somerville Branch library	3,000 00	.....	.....	.....	3,000 00	3,000 00	.....
Maintenance East Somerville branch	700 00	20 00	.....	.....	680 00	678 07	1 93
Union Square Branch library	3,100 00	.....	50 00	.....	3,150 00	3,099 31	50 69
Maintenance of Union Square Branch library	1,000 00	.....	.....	.....	1,000 00	860 88	139 12

Recreation and Unclassified.

Parks maintenance	\$8,500 00	.....	\$875 00	.....	\$9,375 00	\$9,373 24	\$1 76
Maintenance park buildings	700 00	.....	.....	\$4 56	704 56	662 62	41 94
Playgrounds maintenance	3,000 00	.....	.....	.....	3,000 00	2,999 98	02
Summer playgrounds	1,700 00	.....	.....	.....	1,700 00	1,700 00	.....
Maintenance bathhouse	2,300 00	.....	192 00	.....	2,492 00	2,491 04	96
Independence day	500 00	.....	40 00	.....	540 00	540 00	.....
Memorial day	425 00	.....	.....	.....	425 00	425 00	.....
Municipal documents	1,675 00	.....	7 93	.....	1,682 93	1,682 93	.....
*Contingent fund	10,000 00	11,015 00	1,018 66	.....	3 66	.....	3 66
Workmen's compensation	5,000 00	2,000 00	80 00	.....	3,080 00	3,059 77	20 23
Pensions	15,000 00	700 00	.....	197 09	14,497 09	14,457 82	39 27

*No direct charges.

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (REVENUE).

	Appropriation.	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit.	Expenditures.	Balance to Excess and Deficiency.
Damage to persons and personal property	5,000 00	.....	1,334 00	.....	6,334 00	6,334 00	.....
Court judgments . . . . .	.....	.....	59 75	.....	59 75	59 75	.....
Interest and Maturing Debt.							
Interest	\$91,572 50	\$1,500 00	.....	\$1,518 89	\$91,591 39	\$91,589 49	\$1 90
Reduction of funded debt	198,775 95	.....	.....	1,724 05	200,500 00	200,500 00	.....
Enterprises.							
Water maintenance	\$44,000 00	\$2,370 00	.....	\$16,899 54	\$58,529 54	\$58,520 36	\$9 18
Water works extension	23,000 00	.....	\$3,020 00	.....	26,020 00	26,004 81	15 19
Maintenance water build- ings	1,300 00	392 00	.....	4 04	912 04	904 46	7 58
Interest on water bonds	1,040 00	.....	.....	.....	1,040 00	1,040 00	.....
Reduction of funded debt, water	5,000 00	.....	.....	.....	5,000 00	5,000 00	.....
Metropolitan water as- sessment	111,800 00	1,018 66	.....	.....	110,781 34	110,781 34	.....
Totals	\$1,774,333 45	\$35,380 84	\$37,044 84	\$55,425 67	\$1,831,423 12	\$1,829,834 21	\$1,588 91

*No direct charges.

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (REVENUE).

	Balance from 1914.	Receipts.	Total Credit.	Expenditures.	Balance to 1916.
Other Accounts.					
Income of Trust Funds:—					
School:—					
S. Newton Cutler fund	\$319 50	\$230 00	\$549 50	\$60 00	\$489 50
Library:—					
S. Newton Cutler fund	29 90	45 98	75 88	.....	75 88
Hunt art fund	44 89	114 01	158 90	55 40	103 50
Hunt book fund	49 16	494 51	543 67	362 32	181 35
Hunt art fund (principal)	702 77	.....	702 77	.....	702 77
Pitman art fund	35 58	180 70	216 28	68 61	147 67
Pitman poetry fund	18 30	45 18	63 48	26 09	37 39
Wilder children's fund	3 68	8 24	11 92	.....	11 92
Temporary loans . . . . .	.....	.....	1,121,000 00	1,121,000 00	.....
Real estate liens . . . . .	.....	.....	33 35	33 35	.....
Grade crossings . . . . .	.....	.....	2,672 45	2,672 45	.....
State taxes and assessments . . . . .	.....	.....	292,716 38	292,716 38	.....
County of Middlesex . . . . .	.....	.....	79,840 71	79,840 71	.....
Advanced to poor department . . . . .	.....	.....	1,200 00	1,200 00	.....
Refunds:—					
Taxes . . . . .	.....	.....	476 50	476 50	.....
Special assessments . . . . .	.....	.....	34 00	34 00	.....
National Bank tax refunded . . . . .	.....	.....	4 03	4 03	.....
Water rates . . . . .	.....	.....	188 83	188 83	.....
Totals	\$1,203 78	\$1,118 62	\$1,500,488 65	\$1,498,738 67	\$1,749 98

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (NON-REVENUE.)

	Balance from 1914.	Original Appropriation.	Appropriation Trans. from	Appropriation Trans. to	Receipts Service Trans.	Total Credit.	Expenditures.	Balance to 1916.
General Government.								
Central Heating Plant	\$602 21	.....	.....	.....	.....	\$602 21	.....	\$602 21
Protection of Persons and Property.								
Fire department, additional ap- paratus		\$4,200 00	.....	.....	.....	\$4,200 00	\$318 53	\$3,881 47
New building, fire alarm sig- nal system		38,000 00	.....	.....	.....	38,000 00	7 88	37,992 12
Electrical con- struction, un- derground	\$18 95	.....	.....	\$3,018 95	.....	3,018 95	1,018 64	2,000 31
Health and Sanitation.								
Sewers construc- tion	\$13,101 41	.....	.....	\$500 00	\$224 95	\$13,826 36	\$13,818 24	\$8 12
Highways.								
Highways con- struction, new streets	\$1 75	\$44,500 00	.....	\$2,840 00	.....	\$47,341 75	\$47,259 98	\$81 77
Highways con- struction, per- manent pave- ment	297 64	28,500 00	.....	.....	\$2,822 23	31,619 87	28,927 45	2,692 42
Highways con- struction, ma- cadam pave- ment	355 54	30,000 00	\$2,800 00	.....	2,235 75	29,791 29	28,683 92	1,107 37

Sidewalks construction	89 03	35,500 00	.....	32 08	35,621 11	35,120 57	500 54
New highway building	.....	.....	2,000 00	.....	2,000 00	1,706 05	293 95
Education.							
Bennett school addition	\$166 71	.....	.....	.....	\$166 71	.....	\$166 71
S. Newton Cutler school	1,269 79	.....	.....	.....	1,269 79	\$325 00	944 79
S. Newton Cutler school addition	.....	\$35,000 00	.....	.....	35,000 00	34,498 66	501 34
New school building, East Somerville	.....	67,000 00	\$2,000 00	.....	65,000 00	25,435 46	39,564 54
High school sprinkler system	.....	2,600 00	.....	.....	2,600 00	1,936 00	664 00
Bingham school-house shower baths	.....	.....	.....	.....	1,200 00	.....	1,200 00
Recreation.							
Playgrounds extension	\$71 99	.....	\$40 00	.....	\$31 99	.....	\$31 99
Unclassified.							
Building public buildings	\$1,448 10	.....	.....	.....	\$1,448 10	\$100 34	\$1,347 76

STATEMENT OF APPROPRIATIONS AND EXPENDITURES, 1915 (NON-REVENUE).

	Balance from 1914.	Original Appropriation.	Appropriation Trans. from	Appropriation Trans. to	Receipts Service Trans.	Total Credit.	Expenditures.	Balance to 1916.
Grade crossings expenses	5,818 09		\$3,500 00			2,318 09		2,318 09
Totals of ap- propriations	23,241 21	\$285,300 00	8,340 00	\$9,540 00	\$5,315 01	315,056 22	219,156 72	95,899 50
Redemption of tax titles					1,423 21	1,423 21	1,423 21	
Totals	\$23,241 21	\$285,300 00	\$8,340 00	\$9,540 00	\$6,738 22	\$316,479 43	\$220,579 93	\$95,899 50

Of the above total of appropriations there were made from revenue, appropriations for outlays as follows:—

Fire department, additional apparatus	\$4,200 00
Highways construction, new streets	21,000 00
Sidewalks construction	17,500 00
High School sprinkler system	2,600 00
Bingham schoolhouse, shower baths	1,200 00
A total of	\$46,500 00

SERVICE TRANSFERS.

City Clerk's Department:—

Election Expenses, Registrars of Voters	\$700 00
Election Expenses, City Clerk	450 00
Health Department	2 40
Police Department	1 00

\$1,153 40

Engineering Department:—

Highway Construction, New Streets	46 75
Highway Construction, Permanent Pavement	42 50

89 25

Maintenance Municipal Buildings:—

Pensions	70 00
Maintenance School Buildings, fuel and light	164 00
School Contingent	12 00

246 00

Police Department:—

Pensions	
----------	--

2,008 16

Fire Department:—

Parks Maintenance	11 60
Street Sprinkling	6 16
Pensions	770 87
Maintenance School Buildings, Buildings and Grounds	2 74
Electrical Department	139 04
Highway Maintenance	215 00
Sewers Maintenance	17 63
Weights and Measures Department	32 21
City Messenger	52 52

1,247 77

Weights and Measures Department:—

Soldiers' Benefits, General Administration	
--	--

161 16

Electrical Department:—

Highway Maintenance	
---------------------	--

35 00

Suppression of Moths:—

Highway Maintenance	17 50
Parks Maintenance	14 83

32 33

Care of Trees:—

Suppression of Moths	349 18
Parks Maintenance	37 94

387 12

Health Department:—

Highway Maintenance	
---------------------	--

200 00

Contagious Hospital:—

Poor Department, Miscellaneous	
--------------------------------	--

57 86

Sewers Maintenance:—

Water Maintenance	56 36
Maintenance School Buildings, Buildings and Grounds	23 99
Maintenance Fire Buildings	95
Maintenance Municipal Buildings	2 10

83 40

Carried forward

\$5,701 45

Brought forward		\$5,701 45
Highways Maintenance:—		
Refuse Disposal	4,062 53	
Damage to Persons and Property	266 00	
Police	290 50	
Care of Trees	718 12	
Suppression of Moths	198 10	
Street Cleaning	3,181 07	
Sidewalks Maintenance	1,140 21	
Street Sprinkling	3,648 79	
Pensions	414 98	
Highway Construction, New Streets	3,385 90	
Sidewalks Construction	3,983 40	
Highway Construction, Macadam Pavement	2,313 56	
Highway Construction, Permanent Pavement	3,987 11	
Maintenance School Buildings, Buildings and Grounds	35 03	
Water Maintenance	31 80	
Parks Maintenance	103 33	
Sewers Construction	93 43	
Playgrounds Maintenance	59 00	
Maintenance Fire Buildings	4 23	
Maintenance Bathhouse	6 03	
		<hr/> 27,923 12
Sidewalks Maintenance:—		
Highways Maintenance		13 08
Poor Department, Miscellaneous:—		
Soldiers' Relief		33 60
Soldiers' Relief:—		
Soldiers' Benefits, General Administration		15 50
Maintenance School Buildings, Buildings and Grounds:—		
School Contingent		47 90
Maintenance School Buildings, Fuel and Light:—		
School Contingent		145 85
Water Maintenance:—		
Pensions	138 18	
Parks Maintenance	260 76	
Engineering Department	191 54	
Inspection of Milk	60 69	
Maintenance School Buildings, Buildings and Grounds	17 20	
Maintenance Fire Buildings	14 04	
Highway Maintenance	155 97	
Street Sprinkling	413 90	
Water Works Extension	15,577 27	
Playgrounds Maintenance	78	
Suppression of Moths	16 25	
Maintenance Bathhouse	3 10	
Health Department	2 94	
Sewers Construction	12 35	
New Highway Building	34 57	
		<hr/> 16 899 54
Sewers Construction:—		
Highways Maintenance	80 50	
Parks Maintenance	55 86	
Carried forward	\$136 36	<hr/> \$50,780 04

Brought forward	\$136 36	\$50,780 04
Maintenance Municipal Buildings	1 40	
Maintenance Fire Buildings	1 40	
	<hr/>	139 16
Highways Construction, Permanent Pavement:—		
Highways Construction, New Streets	266 62	
Highways Construction, Macadam Pavement	25 38	
Highway Maintenance	51 27	
	<hr/>	343 27
Sidewalks Construction:—		
Highway Maintenance		32 08
		<hr/>
Total		\$51,294 55

TEMPORARY LOANS (OUTSTANDING December 31, 1915).

Loans Taken By	No.	Date Issued.	Date Due.	Rate.	Amount.
Old Colony Trust Co.	346	June 7, 1915	April 4, 1916	3.52	\$10,000
" " " "	347	" "	" "	"	10,000
" " " "	348	" "	" "	"	10,000
" " " "	349	" "	" "	"	10,000
" " " "	350	" "	" "	"	10,000
" " " "	351	" "	" "	"	10,000
" " " "	352	" "	" "	"	10,000
" " " "	353	" "	" "	"	10,000
" " " "	354	" "	" "	"	10,000
" " " "	355	" "	" "	"	10,000
" " " "	356	" "	" "	"	5,000
" " " "	357	" "	" "	"	5,000
" " " "	358	" "	" "	"	5,000
" " " "	359	" "	" "	"	5,000
" " " "	360	" "	" "	"	5,000
" " " "	361	" "	" "	"	5,000
" " " "	362	" "	" "	"	5,000
" " " "	363	" "	" "	"	5,000
" " " "	364	" "	" "	"	5,000
" " " "	365	" "	" "	"	5,000
Solomon Bros. & Hultzer,	366	June 23, 1915	" "	3.393	25,000
" " " "	367	" "	" "	"	25,000
" " " "	368	" "	" "	"	10,000
" " " "	369	" "	" "	"	10,000
" " " "	370	" "	" "	"	10,000
" " " "	371	" "	" "	"	10,000
" " " "	372	" "	" "	"	5,000
" " " "	373	" "	" "	"	5,000
" " " "	374	" "	" "	3.438	50,000
" " " "	375	" "	" "	"	50,000
Lee, Higginson & Co.	376	July 30, 1915	July 29, 1916	3.25	75,000
Bond & Goodwin.	377	Nov. 12, 1915	April 4, 1916	2.15	25,000
" " " "	378	" "	" "	"	25,000
" " " "	379	" "	" "	"	25,000
					<hr/>
					\$500,000

COMMONWEALTH OF MASSACHUSETTS.

Charges.

State Tax	\$153,562 50
State Highway Tax	465 85
Non-Resident Bank Tax	2,020 29
Metropolitan Park Assessment	37,981 64
Metropolitan Sewer Assessment	70,682 61
Wellington Bridge Assessment	2,456 70
Charles River Basin Assessment	6,217 31
Grade Crossing Assessment	15,664 93
Alewife Brook Assessment	1,283 87
Abatement of Smoke Nuisance Assessment	285 51
Fire Prevention Assessment	603 59
Auditing Municipal Accounts Assessment	1,486 58
Metropolitan Water Assessment	110,781 34
Total Charges	\$403,497 72

Credits.

State Aid	\$14,646 50
Military Aid	152 00
Soldiers' Burials	550 00
Total Credits	\$15,348 50

SUMMARY OF REVENUE AND EXPENSES.

Revenue.

Taxes	\$1,708,300 59
Receipts on account of Estimated Revenue	497,642 81
Total Revenue	\$2,205,943 40

Expenses.

*Maintenance Appropriations	\$1,774,408 54
State Taxes	156,048 64
State Assessments	136,667 74
County Tax	79,840 71
Outlays from Revenue	46,500 00
Total Expenses and Outlays from Revenue	\$2,193,465 63
Balance to Excess and Deficiency	\$12,477 77

*Including Metropolitan Water Assessment, \$110,781.34.

FUNDED DEBT.

The total funded debt of the city January 1, 1915, was \$1,616,000. This debt was increased during the year \$240,000. It was decreased \$205,500, leaving the funded debt January 1, 1916, \$1,650,500, an increase of \$34,500.

The debt January 1, 1915, was classified as follows:—

City Loan	\$996,000 00	
Municipal Loan	77,000 00	
Sewer Loan (inside limit)	309,000 00	
Highway Loan	125,000 00	
Lowell Street Bridge Loan	35,000 00	
	<hr/>	
Total inside limit		\$1,542,000 00
Metropolitan Park Assessment Loan	\$15,000 00	
Sewer Loan (outside limit)	33,000 00	
Water Loan	26,000 00	
	<hr/>	
Total outside limit		\$74,000 00
		<hr/>
Total Funded Debt		\$1,616,000 00

Increases were made during the year due to appropriations as follows:—

S. Newton Cutler School Addition	\$35,000 00
New School Building, East Somerville	67,000 00
Highways Construction, New Streets	23,500 00
Highways Construction, Permanent Pavement	28,500 00
Highways Construction, Macadam Pavement	30,000 00
Sidewalks Construction	18,000 00
New Building, Fire Alarm Signal System	38,000 00
	<hr/>
Total increase	\$240,000 00

Reductions in the debt due to maturities were as follows:—

City Loan	\$150,500 00	
Municipal Loan	10,000 00	
Sewer Loan (inside limit)	17,000 00	
Highway Loan	18,000 00	
Lowell Street Bridge Loan	1,000 00	
	<hr/>	
Total inside limit		\$196,500 00
Metropolitan Park Assessment Loan	\$1,000 00	
Sewer Loan (outside limit)	3,000 00	
Water Loan	5,000 00	
	<hr/>	
Total outside limit		\$9,000 00
		<hr/>
Total reduction		\$205,500 00

The funded debt of the city January 1, 1916, \$1,650,500, is classified as follows:—

City Bonds, 3½ per cent.	\$144,000 00	
City Bonds, 4 per cent.	618,500 00	
City Bonds, 4¼ per cent.	83,000 00	
Municipal Loan, 4½ per cent.	67,000 00	
Sewer Loan, 3½ per cent.	72,000 00	
Sewer Loan, 4 per cent.	192,000 00	
Sewer Loan, 4¼ per cent.	28,000 00	
Public Building Loan, 4 per cent.	140,000 00	
Highway Loan, 4 per cent.	207,000 00	
Lowell Street Bridge Loan, 3½ per cent.	34,000 00	
	<hr/>	
Total within limit		\$1,585,500 00
Metropolitan Park Assessment Loan, 3½ per cent.	\$14,000 00	
Sewer Loan, 4 per cent.	30,000 00	
Water Loan, 4 per cent.	21,000 00	
	<hr/>	
Total outside limit		\$65,000 00
		<hr/>
Total funded debt		\$1,650,500 00

FUNDED DEBT, DECEMBER 31, 1915.

Mature.	City Loan.	Municipal Loan.	Sewer Loan.	Public Building Loan.	Highway Loan.	Lowell Street Bridge Loan.	Sewer Loan Chap. 357 1895.	Metropolitan Park Assment Loan Chap. 325, 1902.	Water Loan.	Total Maturities by years.
1916	\$131,500	\$10,000	\$17,000	\$8,000	\$36,000	\$1,000	\$3,000	\$1,000	\$5,000	\$212,500
1917	118,500	10,000	17,000	8,000	34,000	1,000	3,000	1,000	5,000	197,500
1918	105,500	8,000	17,000	8,000	33,000	1,000	3,000	1,000	5,000	181,500
1919	92,500	8,000	17,000	8,000	33,000	1,000	3,000	1,000	4,000	167,500
1920	79,500	8,000	17,000	8,000	20,000	1,000	3,000	1,000	2,000	139,500
1921	68,500	8,000	17,000	8,000	12,000	1,000	3,000	1,000		118,500
1922	52,500	8,000	17,000	8,000	12,000	1,000	3,000	1,000		102,500
1923	41,500	7,000	16,000	7,000	12,000	1,000	3,000	1,000		88,500
1924	25,500		15,000	7,000	12,000	1,000	3,000	1,000		64,500
1925	23,000		15,000	7,000	3,000	1,000	3,000	1,000		53,000
1926	19,000		15,000	7,000		1,000		1,000		43,000
1927	19,000		14,000	7,000		1,000		1,000		42,000
1928	17,000		12,000	7,000		1,000		1,000		38,000
1929	16,000		11,000	7,000		1,000		1,000		36,000
1930	15,000		10,000	7,000		1,000				33,000
1931	12,000		10,000	6,000		1,000				29,000
1932	9,000		8,000	6,000		1,000				24,000
1933			8,000	6,000		1,000				15,000
1934			8,000	6,000		1,000				15,000
1935			7,000	6,000		1,000				12,000
1936			6,000			1,000				7,000
1937			6,000			1,000				7,000
1938			4,000			1,000				5,000
1939			3,000			1,000				4,000
1940			2,000			1,000				3,000
1941			1,000			1,000				2,000
1942			1,000			1,000				2,000
1943			1,000			1,000				2,000
1944						1,000				1,000
1945						1,000				1,000
1946						1,000				1,000
1947						1,000				1,000
1948						1,000				1,000
1949						1,000				1,000
	\$845,500	\$67,000	\$292,000	\$140,000	\$207,000	\$34,000	\$30,000	\$14,000	\$21,000	\$1,650,500

BORROWING CAPACITY DECEMBER 31, 1915.

Valuation, 1913	\$71,906,464 00	
Supplementary	257,400 00	
		\$72,163,864 00
Valuation, 1914	\$74,946,894 00	
Supplementary	179,300 00	
		75,126,194 00
Valuation, 1915	77,217,399 00	
Supplementary	227,000 00	
		77,444,399 00
		<u>\$224,734,457 00</u>
Abatements, 1913	\$557,400 00	
Abatements, 1914	504,400 00	
Abatements, 1915	375,000 00	
		1,436,800 00
		<u>\$223,297,657 00</u>
Average for three years, one-third	\$74,432,552 33	
2 ½ per cent.	1,860,813 80	
Present debt within the limit	1,585,500 00	
		<u>Borrowing capacity December 31, 1915</u>
		\$275,313 80
Maturities:—		
January 1, 1916	\$17,000 00	
April 1, 1916	113,000 00	
July 1, 1916	76,500 00	
October 1, 1916	6,000 00	
		<u>\$212,500 00</u>
Less amount outside limit	9,000 00	
		<u>Maturities in 1916 within limit</u>
		203,500 00
		<u>\$478,813 80</u>

BONDS MATURED IN 1915.

Class of Loan.	Matured Jan. 1, 1916.	Matured Apr. 1, 1916.	Matured July 1, 1916.	Matured Oct. 1, 1916.	Total.
City	\$11,000 00	\$72,000 00	\$65,500 00	\$2,000 00	\$150,500 00
Municipal . . . . .	.....	.....	10,000 00	.....	10,000 00
Sewer	1,000 00	9,000 00	10,000 00	.....	20,000 00
Highway . . . . .	.....	18,000 00	.....	.....	18,000 00
Bridge . . . . .	.....	1,000 00	.....	.....	1,000 00
Metropolitan park . . . . .	.....	.....	1,000 00	.....	1,000 00
Water . . . . .	.....	.....	1,000 00	4,000 00	5,000 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$12,000 00	\$100,000 00	\$87,500 00	\$6,000 00	\$205,500 00

BONDS MATURING IN 1916.

Class of Loan.	Maturing Jan. 1, 1916.	Maturing Apr. 1, 1916.	Maturing July 1, 1916.	Maturing Oct. 1, 1916.	Total.
City	\$10,000 00	\$67,000 00	\$52,500 00	\$2,000 00	\$131,500 00
Municipal . . . . .	.....	.....	10,000 00	.....	10,000 00
Sewer	1,000 00	9,000 00	10,000 00	.....	20,000 00
Highway . . . . .	.....	36,000 00	.....	.....	36,000 00
Public building	6,000 00	.....	2,000 00	.....	8,000 00
Bridge . . . . .	.....	1,000 00	.....	.....	1,000 00
Metropolitan park . . . . .	.....	.....	1,000 00	.....	1,000 00
Water . . . . .	.....	.....	1,000 00	4,000 00	5,000 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$17,000 00	\$113,000 00	\$76,500 00	\$6,000 00	\$212,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT, 1916.

Class of Loan.	Due Jan. 1.	Due Apr. 1.	Due July 1.	Due Oct. 1.	Total.
City	\$7,630 00	\$9,013 75	\$7,430 00	\$7,695 00	\$31,768 75
Municipal	1,507 50	.....	1,507 50	.....	3,015 00
Sewer	2,390 00	3,905 00	2,370 00	3,728 75	12,393 75
Public building	2,800 00	.....	2,680 00	.....	5,480 00
Highway	.....	4,140 00	.....	3,420 00	7,560 00
Bridge	.....	595 00	.....	577 50	1,172 50
Metropolitan park	245 00	.....	245 00	.....	490 00
Water	60 00	360 00	60 00	360 00	840 00
Total	\$14,632 50	\$18,013 75	\$14,292 50	\$15,781 25	\$62,720 00

OVERLAY ACCOUNTS.

OVERLAY, 1912.

Credits.

Balance January 1, 1915	\$96 14	
Abated poll tax paid	2 25	
		<u>\$98 39</u>

Charges.

Abatements		42 00
		<u>42 00</u>
Balance December 31, 1915		\$56 39

OVERLAY, 1913.

Credits.

Balance January 1, 1915	\$6,507 68	
Abated poll taxes paid	5 72	
Reassessment	5 96	
		<u>\$6,519 36</u>

Charges.

Abatements		437 70
		<u>437 70</u>
Balance December 31, 1915		\$6,081 66

OVERLAY, 1914.

Credits.

Balance January 1, 1915	\$10,497 08	
Street Watering Assessment paid after abatment	05	
Abatements cancelled	20 55	
Refund account court abatment	37 98	
		<u>\$10,555 66</u>

Charges.

Abatements		5,031 01
		<u>5,031 01</u>
Balance December 31, 1915		\$5,524 65

OVERLAY, 1915.

Credits.

Taxes, 1915	\$18,835 26	
Abatement cancelled	2 00	
		<u>\$18,837 26</u>

Charges.

Abatements		8,669 21
		<u>8,669 21</u>
Balance December 31, 1915		\$10,168 05

REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Supplementary Assessment No. 1	\$164 00	
Supplementary Assessment No. 2	4,925 90	
		<u>\$5,089 90</u>
Abatements		80 29
		<u>80 29</u>
Balance to 1916 account		\$5,009 61

EXCESS AND DEFICIENCY ACCOUNT.

Credit balance January 1, 1915		\$15,695 89
Additions:—		
Revenue appropriation balances 1915		1,588 91
Revenue, amount in excess of sum estimated in 1915 budget	13,752 86	
Less sums appropriated	2,864 00	
		<u>10,888 86</u>
Total credit		\$28,173 66
Charges:—		
Refunded water charges of 1914		33 64
		<u>33 64</u>
Balance December 31, 1915		\$28,140 02

CLASSIFICATION OF RECEIPTS AND EXPENDITURES.**RECEIPTS.****General Revenue.**

Taxes:—

Taxes, 1915	\$1,399,927 48
Taxes, 1914	335,799 51
Taxes, previous years	534 54
Corporation Taxes from State	24,528 96
Street Railway Tax from State	28,761 40
Boston Elevated Railway Tax from State	11,060 76
National Bank	4,118 62

Licenses and Permits:—

Licenses:—

Amusement	682 00
Junk	460 00
Milk	305 00
Pool, billiard and bowling alleys	384 00
Sunday	405 00
Innholders and victuallers	80 00
Peddlers, Health Department	398 00
All Other	365 00
Permits:—	
Marriage	1,010 00
Signs, etc.	110 00
All Other	343 00

Fines and Forfeits:—

Court fines	1,504 00
Departmental penalties	231 50

Grants and Gifts:—

From State Account Industrial School	6,552 54
From County, dog licenses	3,284 95

All Other General Revenue:—

Grade crossings	3,403 77
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Total General Revenue		<u>\$1,824,250 03</u>
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Special Assessments.

For Expenses:—

Street sprinkling	\$27,569 25
Moth	2,622 40

Carried forward	\$30,191 65	<u>\$1,824,250 03</u>
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Brought forward	\$30,191 65	\$1,824,250 03
For Outlays:—		
Sewers, 1913 and 1914	2,191 38	
Sewers, 1915	619 63	
Sidewalks, 1912, 1913 and 1914	15,455 94	
Street Betterments, 1914	10,449 85	
Street Betterments, 1915	3,399 21	
	<hr/>	
Total Special Assessments		62,307 66

Commercial Revenue—Departmental.

General Government:—

Treasurer	\$4,523 72
Assessors	11 00
City Clerk	1,152 21
Engineering department	8 50

Protection of Persons and Property:—

Police:—

Cloth	862 12
Rent of court room	1,000 00
All other	10 50

Fire Department:—

Sale of old materials, etc.	165 28
Electrical Department	65 38

Inspection:—

Sealer of weights and measures	543 84
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Health and Sanitation:—

Health:—

Contagious Hospital	16,570 41
Inspection	441 50
All other	943 02

Sanitation:—

Refuse disposal	10,189 05
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Highways:—

Labor and materials	2,917 72
Construction (non-revenue) paving	4,714 71
Sidewalks (for revenue)	2,466 81
Sprinkling	640 55
Rent of tenements	220 00

Charities:—

Almshouse:—

Sale of produce	3,929 61
Board	1,710 89

Outside Relief:—

Individuals	151 96
Cities and towns	3,779 73
State	2,077 54

Mothers' Aid:—

State	2,208 21
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Soldiers' Benefits:—

State Aid	14,420 00
Military Aid	192 00
Soldiers' Burials	600 00
Soldiers' Relief	72 00

Schools:—

Tuition state wards	510 08
Other tuition	2,200 43
Sale of books, etc.	62 77

Carried forward	<hr/>	<hr/>
	\$79,361 54	\$1,886,557 69

Brought forward	\$79,361 54	\$1,886,557 69
High School hall, rent, etc.	1,395 40	
Insurance on boiler	128 00	
All other	292 03	
Libraries:—		
Fines, etc.	1,510 82	
Recreation:—		
Parks	50 00	
Shower baths	143 05	
Bathhouse	614 91	
Unclassified:—		
Miscellaneous	637 74	

Total Commercial Revenue—Departmental 84,133 49

Commercial Revenue—Public Service Enterprises.

Water Department:—

Sale of Water:—

Metered rates	\$166,171 43
Annual rates	59,289 85
Additional charges	2,128 53
Service assessments	4,111 23
Maintenance bills	3,551 98
Extension	1,540 01

Total Commercial Revenue—Public Service Enterprises 236,793 03

Commercial Revenue—Interest.

Deposits	\$7,818 50
Taxes	11,200 17
Special assessments	521 17
Miscellaneous	356 67
Trust funds	1,118 62

Total Commercial Revenue—Interest 21,015 13

Municipal Indebtedness.

Temporary Loans:—

Anticipation of revenue \$1,156,000 00

General Loans:—

Highway 100,000 00

Public Buildings:—

Schools \$102,000 00

Fire Alarm building 38,000 00

Premiums on loans 904 78

Total Municipal Indebtedness 1,396,904 78

Agency Trust and Investment.

Agency:—

Redemption tax titles \$1,423 21

Total Agency, Trust and Investment 1,423 21

Refunds and Transfers.

Refunds:—

Soldiers' benefits \$22 00

Carried forward \$22 00 \$3,626,827 33

Brought forward	\$22 00	\$3,626,827 33
Appropriations	1,338 48	
Other	1,881 17	
Transfers:—		
Fire department	5 60	
Highway maintenance	1,382 50	
	<hr/>	
Total Refunds and Transfers		4,629 75
		<hr/>
Total Receipts		\$3,631,457 08

EXPENDITURES.*General Government.*

	Expenses	Outlays
Board of Aldermen Expenses.		
Stationery and postage	\$36 91	
Printing and advertising	404 00	
Auto hire, carfares, teams, etc.	90 70	
Refreshments	357 90	
Books	19 50	
All other	29 30	
	<hr/>	
	\$938 31	
Clerk of Committees Department.		
Salaries and wages:—		
Clerk	\$1,165 31	
Assistants	252 29	
Other expenses:—		
Stationery and postage	56 18	
Books, printing and advertising	32 75	
Telephone	30 59	
All other	79 50	
	<hr/>	
	1,616 62	
Executive Department.		
Salaries:—		
Mayor	\$2,500 00	
Secretary	1,600 00	
Other expenses:—		
Stationery and postage	74 23	
Printing and advertising	100 00	
Telephone	67 65	
Inaugural expenses	222 16	
All other	146 13	
	<hr/>	
	4,710 17	
Auditing Department.		
Salaries:—		
Auditor	\$1,986 86	
Clerks	1,076 69	
Special services, C. T. Bruce	50 00	
Other expenses:—		
Books, stationery and postage	130 95	
Printing	165 50	
Telephone	22 00	
Adding and typewriting machines	542 95	
	<hr/>	
Carried forward	\$3,974 95	\$7,265 10

Brought forward	\$3,974 95	\$7,265 10
Auditing city clerk's books	20 00	
Auditing city treasurer's books	350 00	
All other	16 29	
	<hr/>	4,361 24

Treasury Department.

Salaries and wages:—		
Treasurer and collector	\$3,000 00	
Deputy collector	1,500 00	
Cashier	1,000 00	
Clerks	4,252 11	
Other expenses:—		
Stationery and postage	2,189 87	
Printing and advertising	1,236 94	
Carfares, teams, etc.	48 90	
Telephone	131 52	
Bonds	230 00	
All other	360 37	
	<hr/>	13,949 71

Assessors' Department.

Salaries:—		
Chairman	\$2,000 00	
Assessors (four)	3,033 33	
Assistant assessors	1,500 00	
Clerks	4,055 89	
Other expenses:—		
Books, stationery and postage	357 78	
Printing and advertising	947 84	
Carfares, teams, etc.	46 35	
Telephone	30 00	
All other	428 58	
	<hr/>	12,399 77

Certification of Notes and Bonds.

Certifying	600 00	600 00
	<hr/>	

City Clerk's Department.

Salaries and wages:—		
City Clerk	\$3,000 00	
Assistant City Clerk	1,268 95	
Clerks	1,842 57	
Other expenses:—		
Stationery and postage	313 65	
Printing and advertising	85 65	
Telephone	127 01	
Revenue stamps, etc.	38 50	
All other	88 71	
	<hr/>	6,765 04

Registration of City Laborers.

Salaries and wages:—		
Registration Clerk	\$300 00	
Other expenses:—		
Stationery and postage	7 70	
Printing	2 00	
	<hr/>	
Carried forward	\$309 70	\$45,340 86

Brought forward	\$309 70	\$45,340 86
Typewriter	81 00	
All other	7 00	
	<hr/>	397 70

Law Department.

Salaries:—

City Solicitor	\$2,100 00
Claim Agent	100 00

Other expenses:—

Printing and advertising	59 55
Clerical hire	109 00
All other	43 36
	<hr/>

2,411 91

City Messenger's Department.

Salaries:—

Messenger	\$1,500 00
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Other expenses:—

Stationery and postage	60
Auto maintenance	538 92
Telephone	21 48
Carfares	18 60
	<hr/>

2,079 60

Engineering Department.

Salaries and wages:—

City Engineer	\$3,000 00
Assistants	6,264 29
Clerk	914 06

Other expenses:—

Books, printing, stationery and postage	74 49
Telephone	97 45
Auto maintenance	829 35
Instruments and equipment	143 59
Carfares	243 53
All other	47 79
	<hr/>

11,614 55

Public Buildings Department, Commissioner of Public Buildings.

Salaries and wages:—

Commissioner	\$2,250 00
Inspector of plumbing	1,200 00
Clerks	767 29
Elevator inspector	774 00

Other expenses:—

Books, stationery and postage	109 31
Printing and advertising	66 25
Telephone	131 04
Auto maintenance	336 04
All other	158 36
	<hr/>

5,792 29

Maintenance Municipal Buildings (City Hall and City Hall Annex).

Salaries and wages:—

Janitors	\$2,837 80
	<hr/>

Carried forward	\$2,837 80	\$67,636 91
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Brought forward	\$2,837 80	\$67,636 91
Labor	437 09	
Other expenses:—		
Fuel and light	1,888 22	
Janitor's supplies	191 64	
Furniture and furnishings	1,021 53	
Repairs:—		
Building	1,453 50	
Heating apparatus	147 19	
All other	473 06	
	<hr/>	8,450 03

City Planning Board.

Secretary	\$37 50	
Printing and stationery	3 50	
	<hr/>	41 00

Election Expenses, City Clerk.

Salaries and wages:—		
City Clerk's assistants	\$450 00	
Other expenses:—		
Books, stationery and postage	187 42	
Printing and advertising	664 42	
Carfares, teams, etc.	229 00	
Lunches	30 45	
Repairs of ballot boxes	43 06	
All other	120 47	
	<hr/>	1,724 82

Election Expenses, Registrars of Voters.

Salaries and wages:—		
Registrars	\$805 00	
Clerks	174 00	
City Clerk's assistants	700 00	
Other expenses:—		
Stationery and postage	71 79	
Printing, advertising and binding	585 54	
Refreshments	17 00	
Auto hire	24 38	
All other	5 75	
	<hr/>	2,383 46

Election Expenses, Pay of Election Officers.

Salaries and wages:—		
Warden and clerks	\$1,008 00	
Inspectors	2,256 00	
	<hr/>	3,264 00

Public Buildings Department, Polling Places.

Labor	\$189 90	
Teams	182 00	
Rent	290 00	
Lumber	9 46	
Hardware	4 96	
Fuel and light	22 75	
All other	73 70	
	<hr/>	772 77

Carried forward		<hr/>	\$84,272 99
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Brought forward \$84,272 99

Protection of Persons and Property.

Police Department.

Salaries and wages:—

Chief	\$2,100 00
Captain and lieutenants	11,380 86
Sergeants and inspectors	3,833 08
Patrolmen	83,580 53
Special police	210 00
Matron	605 76
Other employees	3,241 78

Horses and care of same:—

Hay, grain and straw	188 79
All other	522 33

Equipment and repairs:—

Automobile and motor cycle	946 96
Equipment for men	966 73
Other equipment	10 30
All other	25 05

Other expenses:—

Books, printing, stationery and postage	180 64
Care and transportation of prisoners	170 62
Telephone	228 02
All other	501 16

108,692 61

Public Buildings Department, Maintenance

Police Buildings.

Salaries and wages:—

Janitors	\$1,203 00
Labor	262 45

Maintenance of buildings:—

Fuel and light	867 18
Janitors' supplies	85 78
Furniture and furnishings	251 15

Repairs:—

Buildings	192 69
Heating apparatus	8 40
All other	16 69

2,887 34

Fire Department.

Salaries and wages:—

Chief engineer	\$2,125 00
Assistant engineers	2,950 00
Firemen	86,297 07
Callmen	5,023 36

Horses and care of same:—

Hay, grain and straw	4,226 50
Shoeing	1,111 60
Medicine and veterinary	69 90
All other	36 78

Equipment and repairs:—

Apparatus	2,078 30
Hose	564 51

Carried forward \$104,483 02 \$195,852 94

Brought forward	\$104,483 02	\$195,852 94
Equipment for men	210 22	
Power	14 75	
All other	42 41	
Other expenses:—		
Books, printing, stationery and postage	155 64	
Telephone	146 72	
Laundry work	265 78	
Janitors' supplies	216 16	
Furnishings	116 28	
All other	195 87	
Supplies:—		
Grease, oil	180 52	
Gasoline	299 58	
Fuel	35 35	
All other	428 38	
	<hr/>	106,790 68

**Public Buildings Department, Maintenance
Fire Buildings.**

Labor	\$585 47	
Fuel and light	3,775 61	
Furniture and furnishings	280 89	
Janitors' supplies	12 00	
Repairs:—		
Buildings	2,622 95	
Heating apparatus	179 76	
All other	227 28	
	<hr/>	7,683 96

Fire Department, Additional Apparatus.

Labor and materials	318 53	\$318 53
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New Building, Fire Alarm Signal System.

Blueprints	7 88	7 88
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Militia.

Rifle Range	500 00	500 00
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Weights and Measures Department.

Salaries and wages:—		
Sealer	\$1,100 00	
Deputy sealer	900 00	
Clerk	12 38	
Other expenses:—		
Books, stationery and postage	47 87	
Printing and advertising	11 00	
Equipment	13 62	
Telephone	14 20	
Auto and maintenance	439 99	
All other	53 82	
	<hr/>	2,592 88

Electrical Department.

Salaries and wages:—		
Commissioner	\$1,600 00	
Labor	4,480 75	
Carried forward	\$6,080 75	\$313,420 46
		\$326 41

Brought forward	\$6,080 75	\$313,420 46	\$326 41
Other expenses:—			
Fire alarm signal system	2,586 41		
Police alarm system	372 29		
Automobile maintenance	255 19		
Telephone	65 13		
Printing, stationery and post- age	24 25		
All other	58 12		
	<hr/>	9,442 14	

Electrical Department, Underground Wires.

Labor	\$1,010 00		
Cables and wire	8 64		
	<hr/>		1,018 64

Suppression of Moths.

Labor	\$5,161 31		
Printing, stationery and postage	10 50		
Teams, etc.	196 00		
Hardware, tools and equipment	77 47		
Insecticides	246 45		
All other	4 40		
	<hr/>	5,696 13	

Care of Trees.

Labor	\$2,554 49		
Printing, stationery and postage	3 00		
Teams	603 33		
Equipment, hardware and tools	50 95		
All other	146 76		
	<hr/>	3,358 53	

*Health and Sanitation.***Health Department.**

General administration:—

Salaries and wages:—			
Agent	\$1,500 00		
Clerk	1,300 00		
Assistants and chauffeur	120 29		
Books, printing, stationery and postage	254 24		
Telephone	170 43		
All other	122 55		

Quarantine and contagious diseases:—

Board and treatment:—			
Cities and towns	1,795 64		
Medical attendance and medicine	49 45		

Tuberculosis:—

Board and treatment:—			
Cities and towns	544 61		
State	2,222 41		
Groceries and provisions	312 00		
Other expenses:—			
Medical inspector	1,800 00		
Laboratory supplies	87 21		

Carried forward	\$10,278 83	\$331,917 26	\$1,345 09
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Brought forward	\$392,517 08	\$15,024 13
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Highways, Refuse Disposal.

General administration:—

Superintendent	\$1,400 00
Printing and stationery	37 14
Telephone	31 78
All other	21 35

Ashes, rubbish and garbage:—

Labor	66,925 21
Teams	22,285 28
Equipment	187 17
Rent of dump	600 00
All other	24 30

Stable expenses:—

Hay, grain and straw	7,543 33
Shoeing	274 12
Equipment	497 22
All other	81 47

 99,908 37
**Public Buildings Department, Maintenance
Refuse Buildings.**

Labor	\$2 00
Fuel	104 17
Light	225 57
Lumber	39 12
Furniture and furnishings	13 70
Repairs	383 48
All other	19 90

 787 94
Street Cleaning.

Labor	\$17,411 09
Teams	5,201 71
Equipment	644 86

 23,257 66
*Highways.***Highways Maintenance.**

General administration:—

Commissioner	\$2,400 00
Bookkeeper	1,149 06
Printing, stationery and post- age	161 95
Telephone	222 95
Automobile maintenance	319 64
All other	225 81

General:—

Labor	25,821 45
Teams	413 76
Broken stone, sand, gravel, etc.	2,528 34
Edgestone, paving blocks, brick and cement	808 50
Lumber	185 57
Equipment and repairs	449 21
Fuel	668 78
Oil and waste	442 46

Carried forward	\$35,797 48	\$516,471 05	\$15,024 13
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Brought forward	\$35,797 48	\$516,471 05	\$15,024 13
Horses and board	730 00		
Hay, grain and straw	8,122 31		
Shoeing	218 03		
Veterinary and medicine	129 15		
Harnesses and horse clothing	351 73		
All other	106 23		
Other expenses:—			
Signs	50 92		
All other	223 53		

 45,729 38

Less service transfers for teams and materials furnished various departments	17,114 61		
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 \$28,614 77
Highways Construction, New Streets.

Labor	\$9,557 39		
Teams	2,297 88		
Contracts	16,032 99		
Paving blocks, edgestone and circles	9,404 13		
Brick, stone, gravel and cement	6,342 04		
Asphalt, tarvia, etc.	2,501 17		
Tools and equipment	820 10		
Printing and advertising	83 13		
All other	221 15		

 47,259 98
Highways Construction, Permanent Pavement.

Labor	\$3,163 46		
Teams	338 99		
Contracts	16,848 06		
Crushed stone, bricks and cement	2,734 84		
Edgestone	206 15		
Asphalt and tarvia	5,000 86		
Tools and equipment	244 00		
All other	47 82		

 28,584 18
Highways Construction, Macadam Pavement.

Labor	\$7,028 25		
Teams	2,839 00		
Crushed stone, gravel, etc.	10,611 34		
Tarvia	6,338 38		
Tools and equipment	1,511 21		
Claims for damages	350 00		
All other	5 74		

 28,683 92
New Highway Buildings.

Labor	\$41 00		
Blueprints	39		
Carpentry	1,592 04		
Painting	38 05		
Water service	34 57		

 1,706 05

Carried forward		\$545,085 82	\$121,258 26
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Brought forward	\$709,522 50	\$156,346 75
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*Soldiers' Benefits.***Soldiers' Benefits, General Administration.**

Agent	\$300 00	
Clerk	573 71	
All other expenses	89 25	
	<hr/>	962 96

Soldiers' Relief.

Soldiers' benefits	\$21,172 64	
Medicine and medical attendance	93 86	
	<hr/>	21,266 50

Military Aid.

Soldiers' benefits	\$304 00	304 00
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State Aid.

Soldiers' benefits	\$14,662 50	14,662 50
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Soldiers' Burials.

Burials	\$550 00	550 00
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*Education.***School Contingent.**

General expenses:—

Salaries and wages:—

Superintendent	\$3,500 00	
Clerks	\$2,810 02	
Truant officer	1,350 00	
All other	182 38	

Printing, stationery and postage

age	454 70	
Telephone	761 77	
Traveling expenses	338 81	
School census	595 42	
All other	263 55	

Textbooks and supplies:—

Text and reference books	8,462 22	
Printing and stationery	8,196 88	
Machinery and equipment	5,872 65	
All other	494 37	

Tuition	249 00	
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Support of truants	952 38	
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Other expenses:—

Diplomas and graduation exercises	304 60	
All other	205 85	
	<hr/>	34,994 60

School Teachers' Salaries.

Teachers' salaries	\$352,364 14	352,364 14
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Maintenance School Buildings, Janitors' Salaries.

Janitors' salaries	\$30,950 19	30,950 19
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Carried forward	\$1,165,577 39	\$156,346 75
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Brought forward	\$1,165,577 39	\$156,346 75
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Maintenance School Buildings, Fuel and Light.

Fuel and light	\$20,035 86	20,035 86
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Maintenance School Buildings, Buildings and Grounds.

Labor	\$3,782 59	
Repairs	17,330 15	
Janitors' supplies	1,085 04	
Furniture and furnishings	3,032 61	
All other	4,164 31	
	<hr/>	29,394 70

S. Newton Cutler School.

Payment on contract	\$325 00	325 00
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S. Newton Cutler School Addition.

Contract for construction	\$28,201 50	
Plumbing	588 80	
Heating and ventilating system	2,615 00	
Painting	279 85	
Electrical wiring and fixtures	1,167 90	
Grading, etc.	267 74	
Blueprints	51 35	
Furniture and furnishings	1,007 00	
All other	319 52	
	<hr/>	34,498 66

New School Building, East Somerville.

Land and buildings	\$6,689 21	
Taxes for 1915	54 58	
Contract for construction	18,449 25	
Heating and ventilating system	170 88	
Blueprints and drawings	64 79	
Advertising	6 75	
	<hr/>	25,435 46

Public Buildings Department, High School Sprinkler System.

Labor	\$236 00	
Contract	1,700 00	
	<hr/>	1,936 00

Building Public Buildings.

Claims for damages:—		
Bennett School construction	\$100 34	100 34

School Trust Funds.

S. Newton Cutler Fund.

Books	\$60 00	60 00
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Libraries.

Central Library.

Salaries and wages:—		
Librarian	\$2,750 00	
Carried forward	\$2,750 00	\$1,215,067 95
		<hr/>
		\$218,642 21

Brought forward	\$2,750 00	\$1,215,067 95	\$218,642 21
Assistants	13,885 10		
Books, periodicals, etc.:—			
Books	4,672 92		
Periodicals	660 24		
Music	11 69		
Binding	1,175 32		
Other expenses:—			
Stationery and postage	292 04		
Printing and advertising	219 35		
Telephone	114 99		
Cards	471 66		
Express	107 75		
General supplies	145 11		
Agencies	41 17		
All other	246 74		
		24,794 08	

**Public Buildings Department, Maintenance
Central Library.**

Janitors	\$1,280 80		
Labor	14 34		
Fuel	597 18		
Light	1,230 39		
Furniture and furnishings	47 25		
Janitors' supplies	103 69		
Repairs	392 43		
All other	11 64		
		3,677 72	

West Somerville Branch Library.

Salaries and wages:—			
Assistants	\$4,325 60		
Books, periodicals, etc.:—			
Books	1,089 04		
Periodicals	317 81		
Music	9 91		
Binding	508 45		
Other expenses:—			
Stationery and postage	39 38		
Printing and advertising	30 90		
Telephone	35 23		
General supplies	16 63		
Express	101 84		
All other	23 47		
		6,498 26	

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

Janitor	\$778 60		
Labor	17 50		
Fuel	186 47		
Light	347 46		
Furniture and furnishings	10 00		
Janitors' supplies	8 63		
Repairs	17 57		
All other	44 60		
		1,410 83	

Carried forward		\$1,251,448 84	\$218,642 21
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Brought forward \$1,251,448 84 \$218,642 21

East Somerville Branch Library:—

Salaries and wages:—

Assistants \$2,035 60

Books, periodicals, etc.:—

Books 430 12

Periodicals 120 85

Binding 247 12

Other expenses:—

Stationery and postage 19 15

Printing and advertising 8 35

Telephone 31 73

Express 101 33

All other 5 75

3,000 00

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

Janitor \$254 80

Labor 16 19

Fuel 78 82

Light 53 86

Rent 240 00

Repairs 17 20

All other 17 20

678 07

Union Square Branch Library.

Salaries and wages:—

Assistants \$1,979 04

Books, periodicals, etc.:—

Books 432 62

Periodicals 143 25

Binding 350 63

Other expenses:—

Stationery and postage 33 29

Printing and advertising 18 85

Telephone 33 34

Express 101 32

All other 6 97

3,099 31

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

Janitor \$527 20

Labor 4 60

Fuel 210 40

Light 71 70

Janitors' supplies 3 35

Repairs 33 73

All other 9 90

860 88

*Public Library Trust Funds.***Martha R. Hunt, Art Fund.**

Books and pictures \$55 40 55 40

Carried forward \$1,259,142 50 \$218,642 21

Brought forward	\$1,259,142 50	\$218,642 21
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Martha R. Hunt, Book Fund.

Books	\$362 32	362 32
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Isaac Pitman, Art Fund.

Books and pictures	\$68 61	68 61
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Isaac Pitman, Poetry Fund.

Books	\$26 09	26 09
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*Recreation.***Engineering Department, Parks Maintenance.**

Labor	\$5,186 88	
Teams	781 53	
Equipment	279 22	
Trees, shrubs, plants, etc.	991 90	
Wading pool	502 71	
Repairs	1,085 07	
Crushed stone	82 20	
All other	463 73	
	<hr/>	9,373 24

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

Labor	\$350 14	
Fuel	77 90	
Light	104 54	
Repairs	101 73	
All other	28 31	
	<hr/>	662 62

Engineering Department, Playgrounds Maintenance.

Labor	\$2,538 53	
Teams	282 75	
Apparatus and repairs	109 37	
All other	69 33	
	<hr/>	2,999 98

School Department, Summer Playgrounds.

Instructors	\$1,292 20	
Labor	99 20	
Apparatus and equipment	220 70	
Sand	33 23	
All other	54 67	
	<hr/>	1,700 00

Public Buildings Department, Maintenance**Bathhouse.**

Salaries and wages:—		
Attendants and labor	\$1,019 01	
Officer	208 00	
Other expenses:—		
Bathing suits	142 07	
Towels and supplies	32 10	
Repairs	127 07	

Carried forward	\$1,528 25	\$1,274,335 36	\$218,642 21
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CITY AUDITOR.

77

Brought forward	\$1,528 25	\$1,274,335 36	\$218,642 21
Other equipment	14 58		
Re-constructing beach	646 15		
Teaming	19 00		
All other	283 06		
	<hr/>	2,491 04	

Independence Day.

Parade and celebration	\$500 00		
Carriage hire	40 00		
	<hr/>	540 00	

*Unclassified.***Memorial Day.**

G. A. R.	\$350 00		
Spanish war veterans	75 00		
	<hr/>	425 00	

Municipal Documents.

Printing annual reports	\$1,672 21		
Postage	6 12		
All other	4 60		
	<hr/>	1,682 93	

Workmen's Compensation.

Compensation	\$2,799 37		
Medical attendance, etc.	250 40		
All other	10 00		
	<hr/>	3,059 77	

Pensions.

Janitors	\$1,140 47		
Police	7,345 69		
Fire	3,722 82		
Laborers:—			
Highway	1,579 10		
Water	669 74		
	<hr/>	14,457 82	

Damage to Persons and Personal Property.

Settlement of claims	\$6,331 75		
Repairs	2 25		
	<hr/>	6,334 00	

*Municipal Indebtedness.***Interest.**

Temporary loans:—

Anticipation of revenue	\$26,948 87		
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General loans:—

Sewer	13,176 25		
Highway	6,640 00		
Municipal	3,465 00		
City	37,558 75		
Bridge	1,207 50		
Metropolitan park	525 00		
Public buildings	2,040 00		
Martha R. Hunt Art Fund	28 12		
	<hr/>	91,589 49	

Carried forward		<hr/>	<hr/>
		\$1,394,915 41	\$218,642 21

Brought forward	\$1,394,915 41	\$218,642 21
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Reduction of Funded Debt.

General loans:—

Sewer	\$20,000 00	
Highway	18,000 00	
Municipal	10,000 00	
City	150,500 00	
Bridge	1,000 00	
Metropolitan park	1,000 00	
	<hr/>	200,500 00

*Water Works.***Water Maintenance.**

Administration:—

Commissioner	\$2,300 00
Clerks	3,515 27
Printing, stationery and post- age	1,288 28
Telephone	224 03
All other	163 85

General:—

Labor	23,334 06
Teams	134 30
Pipe and fittings	1,143 73
Meters and fittings	1,906 45
Hydrants and fittings	417 82
Equipment and repairs	1,451 24
Automobiles and supplies	4,449 34
Horses, feed and shoeing	696 33
Freight	554 23
All other	663 81

 42,242 74

Less service transfers for teams
furnished various depart-
ments

621 92

 \$41,620 82
Water Works Extension.

Labor	\$10,427 54
Teams	587 08
Pipe and fittings	9,500 20
Hydrants and fittings	754 17
Meters	4,511 02
Tools and equipment	224 80

 26,004 81
**Public Buildings Department, Maintenance
Water Buildings.**

Labor	\$155 75
Fuel	240 82
Light	289 66
Repairs:—	
Carpentry	147 46
Plumbing	11 98

Carried forward	\$845 67	\$1,663,041 04	\$218,642 21
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Brought forward	\$845 67	\$1,663,041 04	\$218,642 21
Other	11 54		
All other	47 25		
		<u>904 46</u>	
Interest.			
Water loans	\$1,040 00	1,040 00	
Reduction of Funded Debt.			
Water bonds	\$5,000 00	5,000 00	
Metropolitan Water Assessment.			
Assessment	\$110,781 34	110,781 34	
<i>Other Accounts.</i>			
Temporary Loans.			
Loans in anticipation of revenue	\$1,121,000 00	1,121,000 00	
Grade Crossings.			
Special counsel	\$1,025 00		
Settlement of land damages	925 00		
Examination of titles and re- cording	645 63		
Appraising, witness fees, etc.	76 82		
		<u>2,672 45</u>	
Real Estate Liens.			
Tax titles purchased by city	\$33 35	33 35	
Court Judgments.			
Interest and costs on taxes, 1914	\$43 03		
Interest on taxes, 1913	16 72		
		<u>59 75</u>	
State Taxes.			
State tax	\$153,562 50		
State highway tax	465 85		
Non-resident bank tax	2,020 29		
		<u>156,048 64</u>	
Metropolitan and Other Assessments.			
Metropolitan park assessment	\$37,981 64		
Metropolitan sewer assessment	70,682 61		
Wellington bridge assessment	2,456 70		
Charles River Basin assessment	6,217 31		
Grade crossing assessment	15,664 93		
Alewife Brook assessment	1,283 87		
Abatement of smoke nuisance assessment	285 51		
Fire prevention assessment	608 59		
Auditing municipal accounts as- sessment	1,486 58		
		<u>136,667 74</u>	
County of Middlesex.			
County tax, 1915	\$79,840 71	79,840 71	
Carried forward		<u>\$3,277,089 48</u>	<u>\$218,642 21</u>

Brought forward		\$3,277,089 48	\$218,642 21
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Cash Refunds.

Taxes	\$476 50		
Special assessments	34 00		
National bank tax refunded	4 03		
Water rates	188 83		
		<u>703 36</u>	

*Private Trust.***Redemption of Tax Titles.**

Sundry persons, redemption of tax titles	\$1,423 21	1,423 21	
Total expenditures		<u>\$3,279,216 05</u>	<u>\$218,642 21</u>

REPORT OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Somerville, Mass., January 28, 1916.

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

Gentlemen: The undersigned presents herewith a report of the cash receipts and disbursements of the city for the year 1915 together with a statement of the balances, and of the tax and assessment accounts, temporary loans and treasury department.

I have made the report in this form in order to avoid as far as possible any duplication of the figures which will appear in the auditor's report.

Receipts.		
Balance from 1914		\$109,020 40
Taxes, 1912	\$12 00	
Taxes, 1912, credited overlay and abatement	2 25	
		\$14 25
Taxes, 1913	\$522 54	
Taxes, 1913, credited overlay and abatement	5 72	
		528 26
Taxes, 1914	\$335,799 51	
Taxes, 1914, credited overlay and abatement	38 03	
		335,837 54
Taxes, 1915		1,399,927 48
Moth assessments, 1915		2,622 40
Street sprinkling assessments, 1915		27,569 25
Highway betterment assessments, 1914		10,449 85
Highway betterment assessments, 1915		3,399 21
Sidewalk assessments, 1913		1,384 37
Sidewalk assessments, 1914		14,064 76
Sewer assessments, 1913		95 95
Sewer assessments, 1914		2,095 43
Sewer assessments, 1915		619 63
Metered water charges, 1914		20,859 44
Commonwealth of Massachusetts (Sol- diers' benefits, 1914)		15,212 00
Grade crossings, Auditor's 11th Report and adjustment		3,436 74
Estimated revenue account		384,485 59
Temporary loans		1,156,000 00
Bonds: Issue January 1		102,000 00
Issue April 1		100,000 00
Issue July 1		38,000 00
Premium on bonds: Issue January 1		293 76
Issue April 1		163 00
Issue July 1		448 02
Interest on bonds: Issue January 1		963 33
Amounts carried forward	\$3,620,470 26	\$109,020 40

Amounts brought forward	\$3,620,470 26	\$109,020 40
Issue April 1	555 56	
Issue July 1	291 33	
General appropriations (refunds)	1,402 69	
Loan appropriations	4,800 50	
Trust Funds (Public):—		
School, S. Newton Cutler	230 00	
Library, S. Newton Cutler	45 98	
Library, Martha R. Hunt, art	114 01	
Library, Martha R. Hunt, books	494 51	
Library, Isaac Pitman, art	180 70	
Library, Isaac Pitman, poetry	45 18	
Library, Frances A. Wilder, children's de- partment	8 24	
Trust Funds (Private):—		
Redemption of tax liens	1,423 21	
Service transfers, January and February	1,388 10	
	<hr/>	\$3,631,450 27
		<hr/> <hr/>
		\$3,740,470 67

Payments.

Taxes 1913, refunds		\$158 40
Taxes 1914, refunds		92 95
Taxes 1914, refunds (Overlay and Abatement account)		94 95
Taxes 1915, refunds		130 20
Suppression of moths, 1915, refunds		34 00
Refunds water charges		13 78
Estimated revenue, refunds		179 08
Grade crossings		2,672 45
Real estate liens		33 35
Court judgments		59 75
Temporary loans		1,121,000 00
Commonwealth of Massachusetts (including Metro- politan water assessment)		403,497 72
County of Middlesex		79,840 71
General expenses		1,385,148 75
Reduction of funded debt		205,500 00
Interest		92,629 49
Loan appropriations		204,958 34
Trust Funds (Public):—		
School, S. Newton Cutler		60 00
Library, Martha R. Hunt, art		55 40
Library, Martha R. Hunt, books		362 52
Library, Isaac Pitman, art		68 61
Library, Isaac Pitman, poetry		26 09
Trust Funds (Private):—		
Redemption of tax liens		1,423 21
Cash advances to C. C. Folsom, agent		1,200 00
		<hr/>
		\$3,499,239 55
Cash in office	\$2,357 69	
Deposits in banks	238,873 43	
	<hr/>	241,231 12
		<hr/> <hr/>
		\$3,740,470 67

Balances—Debit.

Cash on hand and in banks	\$241,231 12
Cash advances, C. C. Folsom, agent	1,200 00
Taxes 1912	2 00
Taxes 1913	233 64
Taxes 1914	2,361 14
Taxes 1915	323,680 97
Street sprinkling assessments, 1915	8,212 30
Moth assessments, 1915	838 75
Highway betterment assessments, 1914	383 75
Highway betterment assessments, 1915	18,837 15
Sidewalk assessments, 1914	1,555 28
Sidewalk assessments, 1915	14,687 44
Sewer assessments, 1914	683 60
Sewer assessments, 1915	766 80
Metered water charges	20,468 87
Commonwealth of Massachusetts (advances)	15,348 50
Grade crossings (advances)	3,428 42
Real estate liens	33 35
Trust Funds, Investment:—	
School	5,000 00
Library	20,414 58
Net funded debt	1,650,500 00
	<hr/>
	\$2,329,867 66

Balances—Credit.

Overlay and Abatement, 1912 and prior years	\$56 39
Overlay and Abatement, 1913 and prior years	6,081 66
Overlay and Abatement, 1914 and prior years	5,524 65
Overlay and Abatement, 1915 and prior years	10,163 05
Reserve Supplementary Warrants, 1915	5,009 61
Temporary loans	500,000 00
Loan appropriations	95,899 50
Trust Funds, Income:—	
School, S. Newton Cutler	489 50
Library, S. Newton Cutler	75 88
Library, Martha R. Hunt (part of principal)	702 77
Library, Martha R. Hunt, art	103 50
Library, Martha R. Hunt, books	181 35
Library, Isaac Pitman, art	147 67
Library, Isaac Pitman, poetry	37 39
Library, Frances A. Wilder, children's fund	11 92
Premium on bonds	904 78
Accrued interest on bonds	291 33
Sundry persons	127 11
Excess and deficiency	28,140 02
Trust Funds, School (principal)	5,000 00
Trust Funds, Library (principal)	20,414 58
Funded debt	1,650,500 00
	<hr/>
	\$2,329,867 66

Taxes, 1912.

Balance from 1914, uncollected	\$56 00	
Cash received		\$12 00
Abatements		42 00
Forward to 1916 account		2 00
	<hr/>	
	\$56 00	\$56 00

Taxes, 1913.

Balance from 1914, uncollected	\$1,029 52	
Cash refunds	158 40	
Charges	5 96	
Cash received		\$522 54
Abatements		437 70
Forward to 1916 account		233 64
	<u>\$1,193 88</u>	<u>\$1,193 88</u>

Taxes, 1914.

Balance from 1914, uncollected	\$342,983 21	
Cash refunds	92 95	
Cash received		\$335,799 51
Abatements		4,915 51
Forward to 1916 account		2,361 14
	<u>\$343,076 16</u>	<u>\$343,076 16</u>

Taxes, 1915.

Tax levy, as per assessors' warrant	\$1,727,135 85	
Supplementary warrants	5,089 90	
Cash refunds	130 20	
Cash received		\$1,399,927 48
Abatements		8,747 50
Forward to 1916 account		323,680 97
	<u>\$1,732,355 95</u>	<u>\$1,732,355 95</u>

Street Sprinkling Assessments, 1915.

Amount of assessors' warrant	\$35,806 10	
Cash received		\$27,569 25
Abatements		24 55
Forward to 1916 account		8,212 30
	<u>\$35,806 10</u>	<u>\$35,806 10</u>

Moth Assessments, 1915.

Amount of assessors' warrant	\$3,527 15	
Cash refunds	34 00	
Cash received		\$2,622 40
Abatements		100 00
Forward to 1916 account		838 75
	<u>\$3,561 15</u>	<u>\$3,561 15</u>

Overlay and Abatement, 1912 and prior years.

Balance from 1914		\$96 14
Cash received		2 25
Abatements	\$42 00	
Forward to 1916 account	56 39	
	<u>\$98 39</u>	<u>\$98 39</u>

Overlay and Abatement, 1913.

Balance from 1914		\$6,507 68
Cash received		5 72
By charges to Taxes of 1913		5 96
Abatements	\$437 70	
Forward to 1916 account	6,081 66	
	<u>\$6,519 36</u>	<u>\$6,519 36</u>

Overlay and Abatement, 1914.

Balance from 1914		\$10,497 08
Cash received		05
Cash refund		37 98
Abatements	\$4,915 51	
Cash refunds	94 95	
Forward to 1916 account	5,524 65	
	<u>\$10,535 11</u>	<u>\$10,535 11</u>

Overlay and Abatement, 1915.

Amount appropriated in taxes		\$18,835 26
Abatements	\$8,667 21	
Forward to 1916 account	10,168 05	
	<u>\$18,835 26</u>	<u>\$18,835 26</u>

Reserve, Supplementary Assessments, 1915.

Supplementary assessment No. 1		\$164 00
Supplementary assessment No. 2		4,925 90
Abatements	\$80 29	
Forward to 1916 account	5,009 61	
	<u>\$5,089 90</u>	<u>\$5,089 90</u>

Highway Betterment Assessments, 1914.

Balance from 1914	\$10,833 60	
Cash received		\$10,449 85
Forward to 1916 account		383 75
	<u>\$10,833 60</u>	<u>\$10,833 60</u>

Highway Betterment Assessments, 1915.

Assessments levied	\$22,236 36	
Cash received		\$3,399 21
Forward to 1916 account		18,837 15
	<u>\$22,236 36</u>	<u>\$22,236 36</u>

Sidewalk Assessments, 1912.

Balance from 1914	\$6 81	
Abatement		\$6 81
	<u>\$6 81</u>	<u>\$6 81</u>

Sidewalk Assessments, 1913.

Balance from 1914	\$1,384 37	
Cash received		\$1,384 37
	<u>\$1,384 37</u>	<u>\$1,384 37</u>

Sidewalk Assessments, 1914.

Balance from 1914	\$15,620 04	
Cash received		\$14,064 76
Forward to 1916 account		1,555 28
	<u>\$15,620 04</u>	<u>\$15,620 04</u>

Sidewalk Assessments, 1915.

Assessments levied	\$14,687 44	
Forward to 1916 account		\$14,687 44
	<u>\$14,687 44</u>	<u>\$14,687 44</u>

Sewer Assessments, 1913.

Balance from 1914	\$95 95	
Cash received		\$95 95
	<u>\$95 95</u>	<u>\$95 95</u>

Sewer Assessments, 1914.

Balance from 1914	\$2,779 03	
Cash received		\$2,095 43
Forward to 1916 account		683 60
	<u>\$2,779 03</u>	<u>\$2,779 03</u>

Sewer Assessments, 1915.

Assessments levied	\$1,386 43	
Cash received		\$619 63
Forward to 1916 account		766 80
	<u>\$1,386 43</u>	<u>\$1,386 43</u>

WATER RECEIPTS.**On Account of Commitments, 1915.**

Metered rates	\$145,311 99
Annual rates	59,289 85
Additional rates	2,128 53
Maintenance	3,551 98
Service assessments	4,111 23
Extension	1,540 01
	<u>\$215,933 59</u>

TEMPORARY LOANS.

In Anticipation of Taxes.

Balance from 1914		\$465,000 00
Borrowed by authority of the Board of Aldermen on notes of the city as follows:—		
City Notes Nos. 280—283, 261 days, 3.10%	\$100,000 00	
City Notes Nos. 284—293, 252 days, 3.10%	100,000 00	
City Notes Nos. 299—310, 254 days, 3.10%	100,000 00	
City Notes Nos. 311—334, 240 days, 3.10%	200,000 00	
City Notes Nos. 335—336, 233 days, 3.00%	16,000 00	
City Note No. 337 203 days, 3.00%	25,000 00	
City Notes Nos. 338—345, 231 days, 3.00%	115,000 00	
City Notes Nos. 346—365, 302 days, 3.52%	150,000 00	
City Notes Nos. 366—373, 285 days, 3.393%	100,000 00	
City Notes Nos. 374—375, 321 days, 3.438%	100,000 00	
City Note No. 376 1 year, 3.25%	75,000 00	
City Notes Nos. 377—379, 144 days, 2.15%	75,000 00	
	<hr/>	1,156,000 00
		<hr/>
Paid notes maturing 1915		\$1,621,000 00
		<hr/>
Maturing in 1916		\$500,000 00

TREASURY DEPARTMENT.

Appropriations and Expenditures.

Appropriation	\$14,000 00
By transfer from City Home account	160 00
	<hr/>
	\$14,160 00

Expenditures.

Joseph S. Pike, salary as city treasurer	\$3,000 00
Postage and disbursements	12 60
Charles L. Ellis, salary as deputy collector	1,500 00
Car fares	19 90
Beulah M. Peirce, first assistant	1,000 00
Louise B. McLaughlin, second assistant	780 00
Florence M. Grow, third assistant	700 00
Marion C. Kendall, fourth assistant	57 30
Winnifred P. Briggs, fifth assistant	606 07
Lilla A. Johnson, clerical services	519 33
May G. Canfield, clerical services	484 00
Lillian C. Scriven, clerical services	402 50
Alice M. Coleman, clerical services	348 92
Edna M. Coolidge, clerical services	214 67
Ruth A. Cambridge, clerical services	26 67
Marion W. Parker, clerical services	40 00
Pauline B. Ray, clerical services	12 00
Reta E. Myers, clerical services	6 67
Beulah C. Church, clerical services	19 33
Elizabeth P. Larabee, clerical services	15 99
Edith F. Moore, clerical services	10 66
Theodore H. Locke, services	8 00
American Surety Company of N. Y., bonds of treasurer and deputy collector	230 00
	<hr/>
Amount carried forward	\$10,014 61

Amount brought forward	\$10,014 61
Somerville Post Office, postage	1,849 67
Louise B. McLaughlin, postage	20 00
Fred E. Hanley, revenue stamps	10 00
John F. Biggs & Co., printing	149 45
J. L. Fairbanks & Co., printing	113 50
A. L. Haskell, printing	121 19
Perry Print Shop, printing	18 00
Somerville Journal Co., printing	676 60
Somerville Publishing Co., printing	62 00
Turner & Co., envelopes	168 64
Thomas Groom & Co., stationery	229 33
Hobbs & Warren, stationery	43
Globe Stamp Works, stamps and repairing	5 25
Carter's Ink Co., supplies	13 16
Sampson & Murdock Co., directory	6 50
W. A. Greenough & Co., directories	9 00
Burroughs Adding Machine Co., repairing	11 35
B. F. Cummins Co., repairing receipting machine	9 63
Martin & Wood, repairing	50
Morris-Ireland Safe Co., repairing locks	7 00
Munson Supply Co., speed keys	7 00
Remington Typewriter Co., supplies	85 40
Yale & Towne Mfg. Co., cleaning time lock	15 00
Thomas Leighton, Jr., recording	127 81
N. E. Tel. & Tel. Co., telephone	131 52
Boston News Bureau, subscription	12 00
American Express Co., expressage	87
Somerville National Bank, clearing house charges	7 96
Old Colony Trust Co., insurance and registering	10 20
Clearing house charge	12
John F. Scannell, committing prisoner	4 95
Herbert C. Jackson, ideal moistener	1 50
Howard Lowell & Son, carriage hire	26 00
Hill-Michie Co., auto hire	9 00
Walter H. Snow & Son, lunch	2 40
H. F. Maynard, lunch	3 07
Gridley Lunch Co., lunch	9 10
 Total expenditures	 \$13,949 71
Balance unexpended to Excess and Deficiency account	 210 29
	<hr/> \$14,160 00

Respectfully submitted,

JOSEPH S. PIKE,

City Treasurer.

REPORT OF THE SCHOOL COMMITTEE.

School Committee Rooms, December 27, 1915.

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, 1915.

GEORGE E. WHITAKER Chairman
 CLARENCE W. WILLIAMS Vice-Chairman

Members.

	Term expires January.
EX-OFFICIIS.	
ZEBEDEE E. CLIFF, Mayor,	29 Powder House terrace 1916
WILLIAM P. FRENCH, President Board of Aldermen,	13 Thorndike street 1916
WARD ONE.	
MRS. MARY G. WHITING,	Hotel Wadsworth 1916
THOMAS A. KELLEY,	39 Pennsylvania avenue 1917
WARD TWO.	
DANIEL H. BRADLEY,	19 Concord avenue 1916
CHRISTOPHER J. MULDOON, JR.	88 Concord avenue 1917
WARD THREE.	
GEORGE E. WHITAKER,	75 Walnut street 1916
ALBERT C. ASHTON,	33 Columbus avenue 1917
WARD FOUR.	
HARRY A. STONE,	254 Broadway 1916
FRANK H. HOLMES,	22 Walter street 1917
WARD FIVE.	
HARRY M. STOODLEY,	283 Highland avenue 1916
MRS. JULIA R. ALDRICH,	262 School street 1917
WARD SIX.	
GUY E. HEALEY,	34 Benton road 1916
MRS. MARY R. BREWER,	170 Summer street 1917
WARD SEVEN.	
CLARENCE W. WILLIAMS,	205 Morrison avenue 1916
HERBERT CHOLERTON,	94 College avenue 1917

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, 1915.

Note.—The member first named is chairman.

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

District I.—Mrs. Whiting, Kelley, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II.—Bradley, Muldoon, Kelley.

KNAPP, PERRY, BAXTER.

District III.—Whitaker, Ashton, Mrs. Whiting.

POPE, BELL, CUMMINGS.

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

EDGERLY, GLINES.

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

FORSTER, BINGHAM.

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

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

District VII.—Williams, Cholerton, Healey.

HIGHLAND, HODGKINS, CUTLER, LOWE.

Finance.—Ashton, Bradley, Kelley, Stone, Stoodley, Healey, Williams, Cliff, French.

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

Industrial Education.—Williams, Ashton, Mrs. Whiting, Bradley, Holmes, Stoodley, Healey.

School Accommodations.—Stone, Williams, Mrs. Whiting, Muldoon, Ashton, Mrs. Aldrich, Mrs. Brewer, Cliff, French.

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

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

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 the report of the condition of the schools which your rules require the Superintendent to prepare and present annually in the month of December. This will be the forty-fourth annual report of the School Committee, if, following the usual custom, you adopt it as the annual report which is required by statute. I have prepared a table of statistics to show facts of attendance and promotion of pupils and the cost of school maintenance. As these involve many details, they are placed together in an appendix to this report in connection with corresponding data from other years. These tables cover a wide range of information concerning the schools of the present day and afford an excellent basis for comparison with the condition in the schools in former days. As it is too much to expect that newspapers will print these statistical details they can be shown to the public only in the copies which are printed for distribution. These are given to any who apply for them at the office of the Superintendent of Schools, since it is desirable that the information about the schools should be as abundant as possible. As a means to this end these reports will be a great help to citizens who will take the pains to get and read them. I also submit a report descriptive of the work and conditions of the schools. For the main part this is based on the facts of the school year ended June 30, as the school year is the natural unit in school affairs. As, however, the School Committee is organized anew each year and has for its term the municipal year it is necessary to make reference also to matters which, though belonging to the school year to be ended June 30, 1916, are nevertheless a part of the work of the present School Committee. In this way only can the facts of your term be stated.

Organization Facts.

At the beginning it may be well to state some facts concerning the organization of the schools during the last school year. The total number of pupils enrolled was 14,505, a gain of 573. The per cent. of attendance for all schools was 94.5, a gain of three-tenths per cent. The length of the school year was 36 weeks 3½ days, a loss of two days. The number of teachers employed June, 1915, was 395, an increase of 21. The amount paid for salaries of teachers was \$349,981.08, an increase of \$19,026.10; for salaries of officers \$7,600, a decrease of \$32.05. The cost of books and supplies was \$29,388.73, an increase of \$2,545.92. The total cost of schools, including expenditures under control of the Board of Aldermen, was \$443,977.69, an increase of \$18,812.51.

Grammar school graduates for 1915 were 784, an increase of 43. Of these 619 entered the High School, an increase of 32. The number of High School graduates for 1915 was 311, the largest in the history of the school. This was an increase of 15 over last year. Of this number 56 entered higher institutions, 35 going to colleges and 21 to the Institute of Technology, in all 8 less than last year. Twenty-four entered Normal Schools, an increase of 8. Of the High School graduates for 1915, 139 were graduated from the Commercial Course. Thus the High School course had a direct aim for 219 of the 311 graduates. The number of classrooms in use in June, 1915, was 308, two more than last year. There were in June, 1915, part-time classes as follows: One first-year class at the Prescott; two first-year and two second-year classes at the Hanscom; and two first-year classes at the Glines.

These figures show a normal condition in the several parts of the school undertaking. The enrollment is the largest since the dropping out of school of five-year-old children as a result of raising the age for admission of beginners to six years. The increase in enrollment is the largest which has been shown for a dozen years and nearly equal to any recorded since 1886. Since that date, with few exceptions, the annual enrollment has grown steadily by increments varying from one to six hundred. Thus, growth, steady rather than spasmodic, has characterized the schools during all these years. No signs of a check in that growth are now visible. On the contrary, it is probable that growth may be expected for some time to come.

Although the increased enrollment last year was about equal to the annual enrollment of the Knapp or Cutler Schools for the preceding year, no new accommodations were provided for it. Two more rooms were opened in the

Lincoln School in September, 1914, and have been occupied ever since. As a consequence of the failure to provide more accommodations, part-time classes were made necessary in several schools. These persist to the present time. However, two additions to school buildings have been provided for during the present municipal year and one of them, finished last September, added six rooms to the Cutler School Building.

The cost of maintenance of the schools increased \$18,812, which is a ratio of increase closely corresponding to the ratio of increase in enrollment. The increase in the amount spent for salaries of teachers was due in part to the employing of twenty-one additional teachers to meet the growth in enrollment of pupils, and in part to increases in the salaries of teachers who had not reached the maximum of their schedules.

The twenty-one additional teachers were distributed last June as follows: High School, 3; grade schools, including 4 cadets and 1 special teacher, 15; Boys' Vocational School, 2; and Girls' Vocational School, 1.

There were graduated from the grammar schools more pupils last year than in any other year except one. The number entering the High School was the largest of the entering classes in the history of the school. Of the 311 graduated from the High School, 80 went to higher institutions, 139 were trained for clerical work, and the rest went to work, probably, but we have no definite records on that matter. These 311 graduates of the High School have received the best educational advantages the city has had to give. Eighty have been trained to go to higher institutions. So far as accommodations are concerned, all the graduates could have been trained to go to higher institutions. Two hundred thirty-one of them preferred to do something else. Thus we know definitely about the eighty graduates who went to higher institutions and something, not much, of the other two hundred thirty-one.

If we are asked the question: "Who are the 311 who were graduated from the Somerville High School in 1915?" the answer is that they are the survivors of the class which began its educational course thirteen years ago. In September, 1902, there were enrolled in the first grades of the city 1,585 pupils. The course then provided for all pupils led logically to the doors of colleges or other higher institutions. Of a certainty, not all pupils were expected to go to college but the educational way was made plain for all to do so, and no other was then plainly in sight. This provision was made in the sincere belief that it was in the interest of higher education, and consequently in the interest of all pupils. What

happened to the 1902 beginners? We see that eighty went to higher institutions; 231 others were graduated from the High School; 298 more entered the High School in 1911 but were not graduated; 196 more were graduated from the grammar schools that year but did not enter the High School, and 780 disappeared from school before reaching grammar school graduation. From these citations it will be seen that the majority of those who started upon the course jumped the track along the line and that only a small minority reached the college destination. In respect to the perseverance of pupils along the course the record of our schools is exceptionally good. Our pupils stay in school longer than the average time, a fact which is complimentary to the homes, to the pupils, and to the schools, but after that is duly and fully admitted, the fact remains that the majority of the pupils go out into the world without specific training for usefulness and many of them are lost to the view of the schools as soon as they are discharged from its doors. Such being in the main the facts about the class which entered our schools thirteen years ago, the question is pertinent whether this program of educational opportunities will suffice for the children who will enter them as beginners this year.

The schools were in session $183\frac{1}{2}$ days, a little more than one-half of 365 days. The school day in the elementary schools is $4\frac{3}{4}$ hours; in the High School $5\frac{1}{4}$ hours. Stated in another way children are in school less than one-fourth of a day, one-half of the days of the year. It is safe to say that this time is insufficient to enable the schools to give the service to society which they ought to yield in order to meet the needs of the present day. Like most other elements of school control the length of the school day and the length of the school year were determined in reference to conditions which have largely disappeared and with the purpose of reaching ends which now form only a fraction of the results which the schools are urged to reach. While the other elements persist in their former provision, such as schoolhouses with limited facilities for varied activities, inadequate play facilities, and the rigid discipline of book subjects, it is not desirable to lengthen materially the school term or day. It may even be desirable to cut off a few days in September on account of the heat of the early part of that month. But it should be frankly recognized that such conditions are due to a necessity which ought not to be allowed to persist, if the schools are to be expected to render their maximum social service.

In a volume of the School Efficiency Series edited by Professor Paul H. Hanus, entitled "The Portland Survey," a textbook on city school administration based on a concrete

study, which has just come from the press, is a remark on the topic "Extension of School Time," which I quote as illustrative of advanced thought on this matter.

"The school day is too short, the number of school days per year too few. School plants cost money; economy in their use requires longer days and more of them. Custom is the only reason for opening school at 9 A. M., closing at 3 P. M., and shutting the schoolhouse Friday afternoon to open again Monday morning. On the basis of an eight-hour day, five and a half days in the week, almost 50 per cent. of loss in time is sustained in our school system, not taking into account vacations and holidays. If these should become a part of the problem, the loss would approximate 65 per cent.

"Most grammar school buildings, and practically all high school buildings, should keep their doors and some of their departments open from 8 until 5 every week day, and should close only on Sunday and legal holidays. Attendance should, for a while, at least, be optional and work offered to upper-grade pupils only. This work should consist largely of manual training, music, art, local excursions, physical exercises and play. Recent development of the school playground is most gratifying, but it should be accompanied with an equal development of manual work for adolescent boys and girls, giving them an option between work and play.

"This extended day should be introduced gradually. At first the sloyd rooms, shops, cooking and sewing rooms should be opened in a few of the buildings, and the teachers given extra pay for doing the work. To be sure, many of the teachers are remaining overtime without pay, with the pupils who care to stay for extra work; but to put it on a substantial and regular footing, the work should have financial consideration. This need not be burdensome, as a sufficient number of teachers who would not otherwise remain regularly will do so for a small additional sum, and those who would remain without it deserve it most."

Cost of the Schools.

The School Committee asked for an appropriation of \$396,594.89, distributed as follows: Teachers' salaries, \$357,407.25; contingent expenses, \$37,187.64; increase of teachers' salaries, \$2,000. The amount appropriated was \$385,000, divided as follows: Salaries of teachers, \$350,000; a decrease of \$7,407.25; contingent, \$35,000, a decrease of \$2,187.64. As the appropriation for salaries of teachers proved to be insufficient to meet the usual charges for day and evening schools, an appropriation of \$2,500 was made on September 28. By the help of this sum it was possible to conduct the High and Elementary Evening Schools, on a somewhat reduced scale. The vocational classes for women, which

had been conducted for several years in partnership with the State Board of Education, were not opened this year because of lack of money to pay the salaries of teachers. One result of this action has been an increase in the number of adults who have entered Vocational Evening Schools in Boston and Cambridge at the expense of Somerville. Under the law of this state, Somerville is liable for tuition charges for any of its residents who attend a State-Aided Vocational School in another city, provided it does not maintain a school of a corresponding kind. While, therefore, no provision was made in salaries for conducting vocational evening classes, payments for tuition for such instruction have been made out of the contingent fund to other cities where Somerville residents have gone to get it. Another result is that many persons, being unable or unwilling to go to neighboring cities, have lost vocational instruction which they wanted and needed. By careful and close figuring the expenses of the schools have been kept within the amounts appropriated.

Following is the expenditure for teachers' salaries during the year:—

Day Schools	1915	1914	Difference
January	\$33,927.01	\$32,452.12	\$1,474.89
February	34,227.39	32,761.20	1,466.19
March	34,435.34	32,881.13	1,554.21
April	34,450.58	32,785.63	1,664.95
May	34,509.09	32,690.64	1,818.45
June	34,405.13	32,547.38	1,857.75
September	34,485.64	33,224.26	1,261.38
October	34,525.32	33,593.84	931.48
November	34,640.39	33,717.26	923.13
December	34,688.75	34,142.18	546.57
Total	\$344,294.64	\$330,795.64	\$13,499.00
Evening Schools			
January	\$1,458.50	\$1,396.00	\$62.50
February	1,942.50	1,855.50	87.00
March	1,285.00	1,241.00	44.00
April .....	.....	3.00	3.00
October	1,283.00	1,310.00	27.00
November	1,394.50	2,003.50	609.00
December	706.00	1,349.50	643.50
Total	\$8,069.50	\$9,158.50	\$1,089.00
Total	\$352,364.14	\$339,954.14	\$12,410.00
Appropriation	\$352,500.00	\$340,000.00	\$12,500.00

Following is the expenditure from the School Contingent:—

Officers' salaries ...	\$7,600.00	\$7,632.50	\$32.50
Books	6,579.80	7,103.16	523.36
Supplies	20,814.80	19,347.47	1,467.33
Total	\$34,994.60	\$34,083.13	\$911.47
Appropriation	\$35,000.00	\$34,000.00	\$1,000.00

The cost of maintaining public schools has always been a matter of deep concern to the community conducting them. Whether rich or poor it scrutinizes these expenditures critically, determined to permit no extravagance in this department of its affairs. It is equally determined to do as much for the children as it thinks it can afford and as it can be convinced they ought to have.

Not being rich, except in the number of its children and their desire for an education, Somerville has been obliged to guard most carefully its expenditures for support of public schools. Not being rich and having many children who remain in school beyond the average length of time, Somerville has to devote a larger proportion of its income to the support of public schools than do cities of greater wealth. This fact does not mean that the sum spent is unduly large in itself, or that Somerville is exceptional in having to devote a large part of its income to the support of its schools. The reverse of each is the exact truth. Some evidence on these points can be taken from the last report of the Board of Education of this state which was issued last March. The figures are for the school year 1913-14.

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 was ninth in number of public day schools, including high, seventh in number of different pupils of all ages in the public schools during the school year, seventh in the average membership in all schools, fifth in number of pupils enrolled in the High School and fifth in number of graduates from the High School.

Against the fact that Somerville is seventh in the number of pupils in all schools and higher still, fifth, in the number of pupils in the High School, its rank is eight in total expenditure for the support of public schools. The usual method of reckoning the cost of education is the amount spent upon each pupil of the average membership. This is the unit cost, corresponding to the cost of a hat, a book, a single item of any commodity. According to this report Somerville ranked 116 among the towns and cities of the state in the amount spent on each pupil. This means that 115 communities spent more. The rank for the preceding year was 91. Among towns and cities which paid more are: New Bedford, Salem, Haverhill, Belmont, Concord, Malden, Cambridge, Fitchburg, Lawrence, Watertown, Melrose, Lowell, Fall River, Boston, Wellesley and Brookline. Somerville appropriated for support of public schools \$5.75 on a \$1,000 of valuation, ranking 158 as against 140 the preceding year. Among the 157 towns and cities which appropriated

more are: Revere, Arlington, Malden, Haverhill, Gloucester, Brockton, Taunton, Wakefield, Natick, Chicopee, Concord, Chelsea, Everett and Stoneham. Again the average amount yielded for each child in the average membership of the state is \$38.60. Somerville gave \$33.69. The amount appropriated to the support of the public schools for each thousand dollars of valuation in the state is \$4.54. Somerville gave \$5.75.

From our own statistics may be learned the fact that school expenses have grown slowly. Since 1900 the cost of school maintenance has been between five and six mills on each dollar of valuation. The ratio in 1914 was less than that in 1908 and 1909, and less than a half-mill more than in 1901.

These citations are made not as a basis for asking increased liberality in appropriations but as a reason for the conviction that the experience of Somerville in providing money for the public schools is not unusual and that the burden bears no more heavily upon this city than upon many other communities in this commonwealth.

Care for the Health and Physical Development of Pupils.

Care for the health and physical well-being of pupils is manifested in general in two ways, in provision of medical inspection and in performance of certain duties by teachers. The scope and character of these measures define the beneficial influence which the schools are exerting in the building up of sound and efficient physical powers among school pupils. A short description of each of these undertakings will throw into relief what the schools are now doing in this field.

Medical Inspection.

In accordance with public statutes the city employs physicians to visit the schools periodically and to perform such duties as are prescribed by law. These duties are mainly concerned in promoting public health by keeping such an oversight of children in school as will prevent or control contagious diseases. The medical inspectors, eight in number, are appointed by the Board of Health and are responsible to that body. It is their official duty to co-operate with the principals and teachers of the schools which they visit, to advise them regarding the detection of sickness among their pupils and the action which they ought to take in such cases as involve questions of medical knowledge and opinion. The

inspectors are paid by the Board of Health and the salary is too small to warrant the demand that inspectors perform duties covering a wider field, that of physical inspection and oversight of all the pupils, for instance. The efficiency of the medical supervision of the schools may fairly be estimated by the fact that contagious diseases are kept out of the schools to an unusual degree. While neighboring cities have experienced difficulties this year in controlling contagious diseases the Somerville schools have had no experience approaching a panic on that account. In addition to doing these duties well the medical inspectors have individually displayed an interest in health problems outside of their duties in the schools, and the feeling of school principals and teachers is that they are interested in the pupils and are performing their duties in an efficient manner.

In the instructions of the Board of Health to medical inspectors are two duties which could well be amplified in the interest of pupils. They are the following:—

“At least once each year the inspector shall make an inspection of each of the children in the schools under his charge, and if any abnormal conditions are found which, in his judgment, interfere with the proper mental or physical development of such children, these conditions shall be reported to their parents or guardians.

“At least once each month the inspector shall make a careful examination of the ventilation and sanitary arrangements of each school building, and shall at once report any defects to the Board of Health.”

In this connection should be recorded the work of the school nurse. This official is under the control of the Board of Health and is paid a salary to devote her whole time to this service. The Board of Health ordered this official when first appointed to report to the Superintendent of Schools for a definition of her duties, and has required her to report to him ever since. This arrangement has proven satisfactory to all concerned and the school nurse has performed quietly, but efficiently, a service of great value to the schools. For details of her work reference should be made to a report printed in the appendix. The arrangement concerning the duties of the school nurse shows how the work of the medical inspectors could be made more valuable. The ways are these:—

(a) The Board of Health might require the medical inspectors to perform, under the direction of the Superintendent of Schools, the two duties above quoted, namely, an annual inspection of school pupils, and a monthly inspection of the school plant with special reference to heating and ventilation; and (b) in recognition of this added work the pay of the medical inspectors might be increased proportionately to the added work required, payment to be made either by

the School Committee or by the Board of Health, as should be determined to be most advisable. The obvious purposes of these changes are to secure a thorough-going physical inspection of all pupils for the information both of school authorities and parents; and a thorough-going inspection of heating and ventilation which would aim to control these important conditions chiefly if not solely in the interest of pupils.

One other provision made in the interest of the health of the pupils is the dental dispensary. This undertaking is conducted by the School Committee and at present employs two persons on part-time, a dentist and an assistant. This dispensary was the first dental dispensary established and conducted by a School Committee in this state. While it is not adequate to the needs of the schools it has done and is doing a valuable work both in relief for many deserving pupils and in establishing standards and habits of oral hygiene. The details of the work of the dispensary are printed in a table to be found in the appendix of this report.

I have now enumerated what is being done for the physical well-being of pupils under the head of medical inspection as follows: The provision of 8 medical inspectors, 1 school nurse, and 1 dental dispensary. I now come to consider the other provision which is more intimate, personal, and important because it has to do with all the pupils all the time they are in school, namely, the performance of certain duties by teachers in the school. These duties are (a) regulating the conditions under their control such as heat, light, seating, ventilation, etc., and (b) conducting exercises specifically designed to offset the dangerous tendencies to physical deterioration which indoor confinement and restrictions of posture and physical freedom create, and to develop proper growth of physical powers. To exercise these latter functions one must have technical knowledge beyond that which is commonly possessed by teachers or parents. Therefore it is necessary to have such work as this directed by one who has adequate knowledge of the subject if the work is to be attempted at all. As well expect a layman to prescribe for a patient as to require teachers without help to analyze these dangers, to formulate exercises to offset them, and to conduct systematically the drills and exercises which have been formulated. Such an expectation is not reasonable nor does an attempt to deal with the matter in such a way produce sound results.

During the present municipal year constructive work in this field has been conducted by the teachers of the elementary schools under the direction of Ernst Hermann. Through printed directions, teachers' meetings, visits to the schools where he has given practical demonstration by class

instruction and by combination of classes involving drilling hundreds of pupils together in school yards, he has spread among the teachers a knowledge of his aims, methods and means of accomplishing the desired results and has aroused great enthusiasm for the work among them and among the pupils. His aims are physical efficiency, which means health, and social adaptation through the development by practice of ideals of obedience, respect for authority, courtesy, group co-operation and leadership, and consideration for others. These are sought by means of exercises, drills and games which combined afford the variety of physical action necessary to a symmetrical training and the practice in acts involving the elements of social virtues which it is imperatively needful to cultivate among the youth in school. While the task of the first year of so large an undertaking as this might well be to get the details worked out and understood by teachers and pupils, much more than that has been done. This provision is of great value for pupils in the elementary schools and will undoubtedly demonstrate its worth in many ways as time goes on and the effect of the exercises accumulates.

In the High School there is no instruction in physical training. A questionnaire sent out recently from a large city in this state to twenty cities in or near New England brought replies showing that physical training is compulsory for both sexes in eleven of them. In two others it is compulsory for one sex, though not the same sex in both. From these replies it is seen that High Schools have not a common practice in this matter, and that our school has plenty of company in its neglect of this work. Whatever arguments exist for giving physical training in schools at all apply with equal force to all parts of the system. I think it is not necessary to argue here the need of such work in our High School. I am convinced that such training is more needed by the girls of our High School than by the boys, though it is needed by both. Voluntary participation in athletics helps the physically superior students but does nothing for those most in need of development who do not enter athletics. The work started in the elementary schools is equally adapted to the High School and could be handled there by two instructors. If there were two rooms of suitable size available for use at the same time, classes in physical training for boys and girls could be conducted without additional expense. I commend this matter to your careful attention.

School Census.

By statute the School Committee is required to take annually beginning September 1 a census of all the children in

the city between the ages of five and fifteen inclusive. This year it was determined to do the work with the utmost thoroughness in the attempt to get results which could be taken with confidence in their correctness. Four reliable men and women, experienced in this work, were employed and instructed to visit every house in the city and to report upon each one by street and number. It was also determined to establish a cumulative card catalogue of the children, to be kept in the office of the Superintendent of Schools, and to use for this purpose the forms prepared and furnished by the State Board of Education. The scheme consisted of two parts: First, taking the census on blanks provided for that purpose, one blank for each child, and second, transcribing the information from the census blank to a catalogue card and filing these cards for permanent record in the filing cabinet. For succeeding years only new data will be taken from the census blank of any child and transcribed upon his cumulative card in the permanent catalogue. Should the child move during the year this data will be added to his cumulative card. In this way will be created and kept a live record of all the children in the city. The clerical labor of transcribing all this information for more than 15,000 children seemed so great as to prohibit trying to establish so desirable a system, but the difficulty was met by help rendered by students from the Commercial Department of the High School. Each week since school opened two students have been sent to the Superintendent's office for a week's practical experience and they have typewritten these thousands of record cards besides taking other parts of the regular office work. An inspection of these cards is convincing testimony to the value of the services which these High School pupils have rendered in performing a tedious and exacting piece of work.

The enumeration has been completed, the card catalogue nearly completed, and some of the results of the enumeration have been tabulated. Tables will be printed showing the number of children of each sex in the age groups 5 to 15 years inclusive. Some facts are of such interest as to deserve mention here. There are 15,156 children of the ages 5 to 15 inclusive, 154 more girls than boys. Of compulsory school ages 7 to 13 inclusive, the census gives 9,825. The registration of public and private schools for these ages is 9,913. The difference between these numbers is so small as to be negligible. 12,839 families were found having no children of census ages and 1,172 houses were reported as vacant. The information about families having no children of census age and about vacant houses had never been collected before. It cost \$600.18 to take the census, \$203.64 more than last year.

Facts about the nativity of children and their parents were gathered. Some of these are as follows:—

Table showing the number of children born in the United States and in each of several other countries:—

Place of Birth.	Number of Children.
United States.....	13,483
Canada	228
British Isles.....	147
Italy	199
Greece	7
Germany	10
Other countries.....	150

Table showing number of parents born in each of several countries, one count being made for both parents born in same country, one for each parent in other cases.

Place of Birth.	Number of Parents.
United States.....	10,355
Canada	3,418
British Isles.....	3,695
Italy	1,275
Greece	22
Germany	205
Russia	403
Other countries.....	925

Work Certificates.

Three hundred twenty-two minors 14 or 15 years of age received working certificates. These certificates were distributed as follows: 14 years—39 girls, 96 boys, total 135; 15 years—69 girls, 118 boys, total 187. The following table shows the grades last attended by these pupils:—

Grades	Boys	Girls	Total
High	13	11	24
Ninth	67	29	96
Eighth	33	17	50
Seventh	39	10	49
Sixth	29	14	43
Fifth	10	13	23
Fourth	4	3	7
Girls' Vocational	—	11	11
Boys' Vocational	18	—	18
Special	1	—	1
	214	108	322

Of the fourteen-year-old boys 47 found work in Somerville, 7 in Cambridge, 42 in Boston; of the girls, 8 in Somerville, 20 in Cambridge, 11 in Boston. The record for fifteen-year-old applicants was relatively the same; a large majority went to work outside of Somerville. Of the boys 153 went into minor office jobs as errand boys, etc. Fifteen went into the industries. 16 into department stores, and the others scattered. Of the girls 78 went into factories making candy, rubber goods, jewelry, etc., 16 into department stores, 7 into industries for women, and the rest into miscellaneous jobs. In most cases chance or the immediate prospect determined the action of the individual. Plan, foresight, or purpose affecting life-work were apparently missing. The chief solace

to be found in contemplating this record is in the fact that these are a small part only of the age group to which they belong. According to the census the number of children 14 or 15 years old on September 1 was 2,351. Those taking the work certificates were therefore but 13 per cent. of the number legally entitled to go to work.

Teachers.

The last school year was marked by two changes in the teaching corps which were of unusual significance. Two men whose lives were devoted to work in our schools passed from this life almost in the midst of their labors. For years their names and influence had been associated with the public schools of Somerville. Known to all the children, respected and held in high esteem by teachers, favorably known to citizens, they had performed their work with singleness of purpose and whole-hearted devotion. So long as school records of this city exist, so long should we hold in remembrance the names of S. Henry Hadley and William A. Whitehouse.

Nineteen teachers resigned during the year and twenty-four were elected. Of the latter fourteen were residents of Somerville. In the selection of teachers first consideration has been given to candidates whose training has been received in Somerville schools. Five teachers were selected from the cadets of the preceding year. The exactions of our schools are such as to demand qualities in teaching which in most cases are developed only through teaching experience. For this reason it is neither possible nor desirable to fill all the vacancies in our teaching corps from those just graduated from professional schools. The resignations were distributed among the different branches of the school system as follows: Elementary Schools, 10; High School, 7; Girls' Vocational School, 1, and Manual Training Department, 1. Two teachers, after a service of many years, voluntarily resigned as beneficiaries of the state law which provides pensions for teachers who have taught a prescribed number of years. They are now enjoying the rest from the labors of teaching made possible for them by the provisions of the law and their work has devolved upon younger and stronger persons. They are the first Somerville teachers to take advantage of this law, by means of which the state happily at once gives deserved assistance to the time-worn teacher and promotes the interests of the schools by making such retirements financially possible.

I am unwilling to close this paragraph without saying a word of appreciation of the greater number of our teachers who are not included in the groups upon which comment has

already been made. Fortunately they have been content to remain in the service of our schools. Their skill, experience and fidelity give character to the schools and make them the admirable places for the nurture of children which they are. Teachers live their lives in the public view and perform their difficult duties in the range of constant scrutiny. It is theirs to help the weak, direct the strong, restrain the unruly, and at all times to point the way wherein the youth should walk, even though to their young and inexperienced minds other paths are for the time more alluring. These duties are not easy to perform nor such as are sure to bring in all cases the cordial response which their discharge merits. Wise parents experience this truth in dealing with their own children. That our teachers have met these demands in a noble spirit and to the general satisfaction of parents is my firm belief.

Work of the Schools.

In my last report I gave detailed account of the work of the elementary and high schools. Since there have been no new undertakings in these during the year, excepting the introduction of physical training, which I have already discussed, it would be needless repetition to go into similar details here. Suffice it to say that the elementary and high schools are doing their work efficiently in their familiar fields, as shown by attendance, facts of promotion, persistence of membership through the grades, and by such other criteria as are commonly employed to measure the efficiency of schools. Certain other new phases of the general undertaking should be considered specifically, however, both because of their newness and of their relation to the development of education in the public schools.

Vocational Training.

This deserves special notice if for no other reason than that it is the dominating note in present day discussions of education in this country.

Massachusetts state laws define vocational education as follows: "Vocational education shall mean any education the controlling purpose of which is to fit for profitable employment." The two vocational schools conducted in cooperation with the State Board of Education are schools of this type. These schools have passed through the experimental stage and are conducting their work with well-defined aims and with processes and means suited to the attainment of those aims. The limit of their expansion, however, has been reached in their present quarters. Until additional room for their use is provided they cannot grow

either in extent of their offerings or in the number of pupils they can accommodate.

Girls' Vocational School.

Instead of graduating girls from this school last June twenty girls were placed in industrial occupations for which they had been trained. If these girls show that they have acquired enough skill and habits of application to prove satisfactory in the positions secured for them, they will receive diplomas of graduation from the school next June.

Boys' Vocational School.

This year ten graduates were assisted to find places by the school. Their record compared with that of last year's class is shown below:—

Class	Number of Graduates	Placed in Industry	Weekly Earning Capacity
1914	13	8	\$6.00
1915	11	10	8.65

It is the practice of the school to keep in touch as far as possible with several manufacturing concerns of Somerville, Cambridge and Boston which employ young men, and to bring to the pupils in the school the benefit of the knowledge so obtained. Boys are told of the different kinds of industries, what they offer to the boys, and what they require. Boys are trained according to their several bents to fit the jobs which they wish to secure. It has been discovered by the principal in his investigations, that there is a tendency on the part of employers to hesitate to employ boys only sixteen years of age. They prefer to take those who are eighteen years of age. This tendency presents a very important condition for the consideration of all those who are interested in the training of the youth for industry, or who are concerned about the condition of boys and girls who leave school at an early age. More and more it is becoming evident that the demand for practical school training for boys and girls will necessitate the study of local industrial conditions and what must be offered the youth in order to fit him to meet such conditions. Liberal education has for a long time held the highest place in the estimation of the community. Until the advocates of a practical education, so called, can create a wide-spread sentiment favorable to such an education, it will continue to be the case that the youth will start on a course directed towards a liberal education, whether or not there exists for him a chance of pursuing it to a successful conclusion.

Commercial Course.

The number of pupils taking this course is second only to that of the Preparatory Course. As already stated, more

are graduated from this course than go to higher institutions. If, after leaving school, they go into clerical situations for which their training fits them, then the course has been for them of a vocational nature. It is doubtless true that most pupils enter the Commercial Course for the sake of being fitted to earn a living. It now is a pertinent question whether the Commercial should not be made a Vocational Course in the meaning given to that term by the law just quoted. To do this it would be necessary to group academic subjects in this course in such manner as to contribute directly to the end in view. Specific vocational subjects would be given a larger part in the course. The opportunities open to High School graduates in business would be investigated and the pupils would be trained to fit them. These and other steps would be the natural sequence of a determination to make this course vocational. At present the course may be described as tending towards a vocational goal by academic means. No disturbing change in our school would be necessary in order to effect the purpose here proposed. For several years alterations in methods and curriculum have tended in this direction. With the conviction established that the Commercial Course ought to be truly vocational, definiteness would be given to future action and ways and means could be found for making the transition gradually and without strain upon administrative or financial resources.

Vocational Guidance.

In the School Reports for 1913 and 1914 were printed the results of questionnaires given to High School pupils for the purpose of finding out from their replies what view they held of their High School work and its relation to their life plans. These replies were classified, grouped and used as the grounds for recommendations for the better advising of pupils concerning their school work and their opportunities in the world after leaving school. That these reports had value is shown by the fact that requests for copies of these School Reports came from various parts of the country. Another evidence is found in the fact that a committee of High School teachers was formed for the special purpose of promoting interest in this matter and of devising a feasible scheme for furnishing vocational advice to High School pupils. Last June this committee submitted a formal report to the Superintendent of Schools, which in time was considered by the sub-committee of the Board upon Textbooks and Courses of Study. While that committee took no formal action on the plan, it directed the Superintendent to confer further with the teachers with the purpose of aiding the movement as much as possible. Consequently, meetings of teachers have been held and other measures have been taken to make a be-

ginning of the work. Among the recommendations of the committee of teachers are two which can only be effected with the sanction and support of the School Committee. These are:—

1. To make an inquiry among the graduates of the High School for the purpose of getting data concerning their histories since leaving school, with special reference to work and wages. The cost of such an inquiry would be merely for postage and printing and might properly be met from School Committee funds.

2. (a) The appointment of a competent person to give his whole time in school to this interest, or

- (b) The designating of two teachers, one a man, the other a woman, to give half their school time to the work.

With these two provisions, it is believed an important service can be rendered High School pupils in helping them to shape their undertakings with reference to the work they want to do after leaving school.

What I have said in the earlier part of this report about the lack of information on the part of the school about what happens to pupils after they leave it and the ignorance and lack of purpose of pupils as shown in their applications for working certificates, is all the argument I want to submit now in support of this movement.

The Forster Intermediate School.

Last June the first year of conducting an Intermediate School at the Forster School was completed. There is now an opportunity to measure certain results and to estimate certain tendencies. The immediate aims sought in this undertaking were stated in my report last year as follows:—

“The first and most obvious is to provide opportunity for each pupil to pursue studies most suited to his temperament, tastes and purposes. Second, to give greater intensity to school work through interest aroused by selection. Third, to provide at an early period an opportunity for experimentation whereby the individual can test himself and find his aptitudes. Changes can be made at this period with less loss to the individual than would result later on.”

Upon the question of whether or not these aims were realized, the best evidence now available is the testimony of the master of the school, Joseph A. Ewart, who, at my request, has written the following statement:—

“In my report a year ago, attention was directed to the institution in the Forster School of what is commonly called an Intermediate or Junior High School and certain aims sought in this undertaking were pointed out.

“Each pupil chooses his own course, four being offered. If after a fair trial it becomes evident that a mistake has been made, a new adjustment is possible after a confer-

ence of the parent, the pupil and the principal. Comparatively few such re-adjustments have been necessary, but where made, the subsequent success of the pupil, in many cases being striking, has proved the wisdom of the change. No pupil has left school because of a mistaken choice of course. It is doubtful if the same result would have followed this discovery if made after entering the High School.

"The new work has brought out talents not suspected under the former course of study and the resulting increase of interest on the part of the pupils is re-acting favorably upon their other work. The commercial studies and the manual arts especially are contributing to an improved general efficiency.

"About four hundred different pupils have been in these grades in the past year and a half. Apart from those graduated, twenty-five have left school. Of this number twenty-one have moved away and home conditions compelled one to go to work. This leaves but three, or less than one per cent., whom the school has failed to hold. The fact that these are the grades in which usually occurs the largest loss of pupils, makes this evidence the more convincing of the increased interest of the children themselves.

"While maintaining efficiency in the usual subjects, many have made such progress in Latin or in bookkeeping and typewriting that advanced standing has been given them on entering the High School. The cooking has been of the most practical character, the early part of the fall, for instance, being devoted to the making of preserves. The Print Shop is satisfactorily doing a large and increasing amount of the printing of the School Department. In carpentry, in addition to the ordinary manual training work, the practical side is given emphasis, as, for instance, the making of bookcases for the classrooms, sewing tables for the Domestic Science room, a make-up table for the Print Shop, umbrella racks for the corridors, and a large filing cabinet for the office. The boys also laid the hard pine floor of the new carpenter shop in the Annex, about twenty-six hundred square feet.

"The introduction of certain characteristics of the High School, such as departmental teaching and personal responsibility for study hours, has already made the transition to that school much easier for many pupils.

"The work is attracting much attention elsewhere, as evidenced by numerous letters of inquiry as well as by an increasing number of visitors representing other school systems.

"With the introduction of the method of promoting by

subjects rather than by grades, still further recognition can be given to individual differences in aptitudes of pupils.

"I take pleasure in commending the excellent spirit of co-operation shown by teachers, parents and pupils, which is so largely responsible for the success that has attended the development of the new undertaking."

My judgment based upon frequent inspections of this enterprise is that Mr. Ewart's statements are all justified by the facts of the case and are free from any exaggerations. Schoolmen of rank have visited the Forster School during the last year to study this undertaking and they have been unanimous in commending the work for its sincerity, spirit and successful adaptation of processes to aims.

The significance of the Intermediate School is found in the fact that it is an experiment in reorganizing elementary education, being a modification of the so-called "six-and-six" plan, which can be described as the "six-two-and-four" plan. Because of the widespread discussion of the need of reorganizing elementary education so as to improve instruction for children over twelve years of age, the work at the Forster School has attracted the attention of schoolmen of the eastern part of the state. It is pioneer work in a movement bound to continue.

In the last report of the Board of Education, Commissioner Snedden discusses at length the topic, "The Reorganization of Elementary Education for Older Children," from which I quote the following paragraph:—

"A third plan of reorganization, and one which is probably best adapted to conditions in Massachusetts, consists of a six years' program for the Elementary School, the program of four years for the High School remaining as at present as regards the entering age and qualifications of pupils, while a new form of school, to be known as the Intermediate School, the courses in which shall require for completion two or three years' time, according to the qualifications of various groups of pupils, is proposed. Courses in the Intermediate School are intended for pupils who have finished the work of the first six grades, and also for pupils of less attainment who have nevertheless passed the age of twelve."

Dr. Snedden's discussion is too long to be quoted adequately here, but it should be read by all who are interested in the development of public schools.

Playgrounds.

Summer playgrounds were conducted during July and August by the School Committee in co-operation with the Somerville Playgrounds Association. An appropriation of \$1,700 was made by the city, a decrease from last year of

\$300. The season opened on July 7 with twenty-six paid supervisors in charge of the following grounds:—

Boys' Grounds.	Girls' Grounds.
Broadway	Broadway
City Field	Hodgkins
Joy Street	Kent Street
Kent Street	Perry
Lincoln Park	Bennett
Bingham	Bell

Since there was little more money to use than was needed to pay instructors, no permanent equipment could be supplied to any of the grounds. Play material and hand work for the girls were furnished in satisfactory amount. Morning and afternoon sessions were conducted on all the grounds and at the Bennett an evening session was held for working girls and mothers. Eight men and sixteen women instructors were employed and a General Director was in charge who was aided by a woman Assistant Director. The instructors were in the most part local young men and women who had prepared themselves for this work either by specific training or by experience in former years. The season ended on August 20, chiefly because the money was spent by that time. In every way the work was successful. If anybody doubts the value of supervised playgrounds among their number cannot be reckoned the children who patronize them and for whose benefit they are conducted.

The evening session at the Bennett clearly defined an unmistakable social need. Civic prosperity and security depend in the last analysis upon social conditions. The children who attended the playgrounds and the young women and mothers who spent a pleasant evening at the Bennett Playground after the wearisome labor of summer days were all of them, consciously or unconsciously, influenced in the direction of good citizenship by the experiences and associations there enjoyed. So far as the children are concerned, at least, this is a matter of importance to the School Committee justifying its mention in its report.

Elementary Schools.

During the year a six-room addition to the Cutler School was built and opened for use in September. Four rooms were immediately occupied for classes while the remaining two, being separated only by folding doors, have been used as an assembly room. This addition will be sufficient for that district for another year, but probably no longer. Adjoining the Prescott School on land bought for that purpose a new building has been started and it is now nearing completion. When that is ready part-time classes in the neigh-

boring schools will be put on full time. For the present, these additions are sufficient for the elementary schools. Here and there crowding of a grade or two exists, but the pressure is not such as to warrant a demand for new construction.

Secondary Schools.

The three secondary schools are full. There are in the High School now 1,997 pupils; after the mid-year promotion there will be more than 2,100. The buildings do not furnish room enough for the proper conduct of all the activities which are there undertaken. This statement applies with special force to all the subjects conducted upon laboratory methods. There is no gymnasium or other rooms sufficient for physical instruction. In other ways the lack of more room seriously hinders the work of the school. This condition will grow worse until relief is provided, as there is every reason to expect High School attendance to increase steadily in the future as it has in the past. From 9.5 per cent. of the average membership of all schools in 1894 High School membership increased to 18.1 per cent. of the average membership of all schools in 1914. To an unusual extent Somerville pupils stay in school long enough to get one or two years of secondary training.

The buildings housing the Boys' Vocational and the Girls' Vocational Schools are used to their fullest capacity. These hopeful undertakings can be no more developed until additional room is provided.

The need for additional accommodations is in the field of secondary education. It can be met by a single building devoted to vocational education, including commercial work, or by another High School in the western part of the city and a Vocational School in the central part of the city.

Needs of the Schools.

In the preceding pages I have indicated needs in the discussion of the various topics of this report. These may be summarized as follows:—

1. More complete information concerning the lot of children who leave school either as graduates or without graduating.

2. Provision for greater flexibility in the course of instruction for upper grammar grades whereby pupils may have a wider range of opportunity for development according to varying needs and capacities.

3. The extension of physical training to the High School.

4. The placing of commercial training in the High School upon a vocational basis.

5. The provision of a system of vocational direction for High School pupils.

6. The provision of adequate accommodations for the Vocational and High Schools, by the erection of one or two new school buildings.

Conclusion.

I wish to acknowledge my indebtedness to the School Committee for the constant encouragement and assistance which they have given me during the year. In all ways within their power the committee has striven to advance the interests of the schools. The work of the Superintendent has been made pleasant by reason of these conditions. While neither the School Committee nor the Superintendent can feel that all has been done which they have wanted to do, they can nevertheless be conscious of the fact that they have made as satisfactory use as possible of the means at their disposal. Judged by the opportunities afforded by the means provided the accomplishments of the year have been good, and the Committee may feel that they have discharged their duty in a manner creditable to themselves and to the city, and beneficial to the pupils of the schools.

Respectfully submitted,

CHARLES S. CLARK,

Superintendent of Schools.

December 27, 1915.

STATEMENT CONCERNING THE HIGH SCHOOL.

Somerville High School has an enrollment December, 1915, of 2,114 and a teaching force of 76. It is a school for both girls and boys, and has four courses,—the preparatory, general, commercial and manual arts.

The Preparatory Course fits for Harvard, Radcliffe, Massachusetts Institute of Technology, Dartmouth, all colleges represented by the New England College Entrance Certificate Board, i. e. Tufts, Brown, Wellesley, Smith, Amherst, Williams, Boston University, Mount Holyoke, Massachusetts Agricultural College, etc., and all State Normal Schools. The college course has an enrollment of 801, distributed by classes as follows:—

Graduate students.....	13
Class of 1916-A or IVb Class.....	33
1916-B or IVa Class.....	127
1917-A or IIIb Class.....	49
1917-B or IIIa Class.....	125
1918-A or IIb Class.....	66
1918-B or IIa Class.....	143
1919-A or Ib Class.....	67
1919-B or Ia Class.....	178

Pupils were sent from this course in September, 1915, to the following higher institutions:—

Boston College.....	3
Boston University.....	3
Dartmouth.....	7
Harvard.....	3
Harvard Dental.....	1
Holy Cross.....	1
Jackson.....	4
Massachusetts Agricultural.....	6
Massachusetts Institute of Technology.....	9
Mt. Holyoke.....	2
Normal Schools.....	20
Radcliffe.....	5
Simmons.....	4
Smith.....	2
Tufts.....	10
Tufts Dental.....	1
Total.....	81

The present senior classes are preparing for the following institutions:—

Boston College.....	3
Boston University.....	5
Bowdoin.....	1
Dartmouth.....	6
Georgetown.....	1
Holy Cross.....	1
Jackson.....	3
Harvard.....	13
Massachusetts Agricultural.....	3
Massachusetts Institute of Technology.....	12
Mt. Holyoke.....	2

Normal Schools.....	15
Norwich University.....	1
Radcliffe	11
Simmons	7
Smith	2
Syracuse	1
Tufts	18
Wellesley	3
Wheaton	1
Yale	1

Pupils entering any of the above institutions excepting Harvard, Radcliffe, Yale and Massachusetts Institute of Technology, are received without examination on the certificate of the school. This certificate may be obtained by any pupils who have done "B" or good work. Harvard, Radcliffe, and the Institute admit pupils on the examination plan only. Examinations for these colleges are often taken by pupils whose work in high school was not of high enough grade to warrant a certificate for any other institution. Failure on the part of such pupils to pass their examinations should not be counted against the school. Pupils recommended by the school as worthy to take college entrance examinations succeed almost without exception. The following table is of interest:—

Massachusetts Institute of Technology.

Preliminary examinations:—

Number of pupils taking examinations.....	10
Number of pupils accepted.....	10
Number of pupils passing in all subjects.....	8

Final examinations:—

Number of pupils taking examinations.....	11
Number of pupils admitted.....	11
Number of pupils admitted without conditions.....	8

Harvard and Radcliffe.

Preliminary examinations:—

Number of pupils taking examinations.....	4
Number accepted.....	4

Final examinations:—

Number taking examinations and recommended by the school.....	7
Number admitted.....	7
Number taking examinations and not recommended by the school.....	1
Number failing.....	1

The General Course gives a wide selection of subjects and is intended for pupils who wish a broad education. This course includes 175 pupils distributed by classes as follows:—

Class of 1916-A or IVb Class.....	8
1916-B or IVa Class.....	22
1917-A or IIIb Class.....	10
1917-B or IIIa Class.....	28
1918-A or IIb Class.....	18
1918-B or IIa Class.....	25
1919-A or Ib Class.....	27
1919-B or Ia Class.....	37

The Commercial Course has two divisions—the four year course and the two year course. The four year course gives a general commercial training with special emphasis on office practice or stenography as the pupil may elect. There are in this course 966 pupils, as follows:—

Graduate Students.....	6
Class of 1916-A or IVb Class.....	47
1916-B or IVa Class.....	115
1917-A or IIIb Class.....	49
1917-B or IIIa Class.....	129
1918-A or IIb Class.....	57
1918-B or IIa Class.....	179
1919-A or Ib Class.....	104
1919-B or Ia Class.....	280

The two year course gives a brief course in the rudiments of business practice. This course comprises eighty-seven pupils, with the following division by classes:—

Class of 1918-A or IIb Class.....	15
1918-B or IIa Class.....	25
1919-A or Ib Class.....	17
1919-B or Ia Class.....	30

The Manual Arts Course is divided into two groups—the Manual Training Course for boys and the Household Arts Course for girls. The courses are not designed to teach special trades, but to aid in general training along trade or wage-earning lines, at the same time to offer opportunity for specialization. The pupil obtains a knowledge of, and a certain power in the work in which he will probably engage. It is the aim to teach the fundamental principles of industry and household activities. This course comprises eighty-five pupils divided as follows:—

Class of 1916-B or IVa Class.....	6
1917-B or IIIa Class.....	13
1918-B or IIa Class.....	26
1919-A or Ib Class.....	8
1919-B or Ia Class.....	32

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

Subject.	No. of Teachers.	No. of Pupils.	Number Last Year.	Increase.
English	14	2114	1902	212
History and Civics.....	13	1620	1422	198
Mathematics	9	943	1058	—115
Elocution	1	657	563	94
Chemistry	3	282	188	94
Physics	2	102	102	—
General Science.....	1	47	76	—29
Biology	1	57	47	10
Physical Geography.....	1	23	19	4
Physiology	1	55	86	—31
Latin	8	541	498	43

Subject.	No. of Teachers.	No. of Pupils.	Number Last Year.	Increase
Greek	2	25	33	—8
French	7	684	593	91
German	6	420	450	—30
Spanish	5	295	260	35
Manual Training.....	3	250	207	43
Mechanical Drawing.....	2	406	253	153
Freehand Drawing.....	2	327	279	48
Cooking	2	78	77	1
Dressmaking	1	107	177	—70
Bookkeeping	10	674	378	296
Arithmetic	8	400	534	—134
Penmanship	9	851	650	201
Commercial Law.....	1	59	84	—25
Stenography	4	397	473	—76
Typewriting	2	452	546	—94
Commerce and Industry.....	3	243	112	131

STATEMENT CONCERNING THE FORSTER INTERMEDIATE SCHOOL.

This school is established in the Forster School district and occupies the whole of a school building. It was established in September, 1914, in place of the regular seventh, eighth and ninth grade grammar school work. It has a capacity of 300 pupils.

Aim.

To permit and to assist each pupil:—

1. To determine the general line of work or study for which he is best fitted.
2. To form those habits of thought and action necessary to his largest success.

Organization.

Grades. Seventh, eighth and ninth.

Sessions. Two. 9.00 to 11.45 and 1.30 to 3.30.

Courses. Four, each including all the usual grammar school subjects, with cooking and sewing for girls, and carpentry and printing for boys. In addition each course contains a special subject as follows: Preparatory, Latin; commercial, bookkeeping and typewriting; household arts for girls and manual arts for boys, the manual subjects. Satisfactory completion of any course admits to the high school or the vocational schools.

Choice of Course. Not controlled in any degree by the teacher. If the first choice proves unwise after a faithful trial for one semester, a change is permitted.

Program. A. M. Recitations and teaching exercises in arithmetic, composition or grammar, history or geography, spelling or penmanship, and literature. Preparatory and commercial pupils have one forenoon weekly for the manual subjects, boys and girls of a given class on different days.

P. M. Latin, bookkeeping, drawing, music, hygiene, and independent study. Household arts and manual arts course pupils spend one hour upon those subjects.

Program periods: 30 minutes.

Special Subjects. Latin, bookkeeping and typewriting are taught by high school methods and with same books as used in the high school. Typewriting is taught by the touch system. The commercial pupils conduct the Forster School Savings Bank, handling nearly \$2,000 a year. Practical cooking and sewing are taught. Carpentry consists of model making for training in the use of tools, and furniture making for school and for home use. Painting and repairing are incidental to the various jobs. The print shop supplies much of the printed matter used by the School Department.

Study. Provision for supervised but not directed study each afternoon prepares for high school responsibility.

Teachers. Seventh grades form a two-teacher departmental unit, and the eighth and ninth grades a four-teacher unit in the usual grammar school studies, thus preparing for the high school plan of organization.

Credits. Credit is given on entrance to the High School for one year's work in Latin or bookkeeping and typewriting, and the pupils enter second year classes in these subjects.

Promotion. By subjects, giving fullest recognition to individual pupil's strength or weakness.

Not a Trade School. The several manual subjects are taught not as trades, but to determine whether a pupil is more likely to be successful in an occupation that emphasizes manual skill. The subjects are taught as a means rather than as an end.

Place in School System. A combination of the elementary and the high school in methods and subjects; it recognizes the changing interests of the adolescent period and points the pupil to the high or to the vocational schools.

A Few Results. A conspicuous increase of interest, self respect, personal responsibility, and industry; a loss of less than one per cent. of pupils for reasons other than graduation or change of residence; a great decrease in retardation; the continuing in school of every graduate.

**STATEMENT CONCERNING THE ORGANIZATION, EQUIP-
MENT, AND COURSES OF INSTRUCTION OF THE
SOMERVILLE VOCATIONAL SCHOOL FOR BOYS.**

State Aided.

The school occupies a two-story building situated on Tufts street. The entire building is devoted to the work; two rooms for wood work, two rooms for machine work, and one classroom.

Sixty-six boys can be accommodated, the maximum capacity of the school. These boys are drawn largely from the eighth and ninth grades of this city, and adjoining towns and cities.

The faculty consists of a director, two instructors in machine work, one in cabinet work, one in house carpentry, one classroom teacher, and one clerical assistant.

The school hours are from 8.30 A. M. to 4.00 P. M. with one hour's recess at noon.

The aim of the school is to train for a specific trade and to give to boys of fourteen years of age and over a two years' training in machine shop work, cabinet work, and house carpentry such as will enable them to find employment as apprentices in the lines for which they have been trained.

In addition to the industrial work, physical welfare, citizenship, and a small amount of direct cultural education are given.

Each instructor in the school is expert in the trade he teaches and has spent several years working at his trade in large shops and factories.

As near as possible actual shop conditions are met with. The shops are equipped with the necessary machines for metal and woodworking. Commercial work of all kinds is handled in an educational manner, giving the boys an exceptional opportunity for practical training.

General Plan of Course of Study.

Trade Department	{ 1 Shop Practice	} 78 %
	{ 2 Technical Subjects	
General Subjects	{ 3 Related Subjects	} 22 %
	{ 4 General Vocational Subjects	
	{ 5 Non-Vocational Subjects	

The amount of time given to the different subjects is carried out in all departments. The trade and general related subjects are taught on specific industrial lines and through information and experience regarding each industry pursued.

General Outline of Work in All Departments.

(4 Days in the Shop, 2 Days in the Classroom.)

Trade Dept. Industrial Education	SHOP PRACTICE		40%
	Technical Trade Subjects	Trade English Trade Literature Trade Materials Trade History Trade Hygiene Trade Science Trade Mathematics Shop Management Shop Drawing	} Shop Lectures 30%
Department of General Subjects	General Related Subjects	Applied Mechanics Applied Mathematics Applied English	8%
	General Vocational Subjects	Industrial History Industrial Geography Social Science General English General Drawing	7%
	General Non- Vocational Subjects	Civics Ethics General Hygiene General Mathematics Physical Training	} Exercises and Outdoor Sports 15%

Machine. The shop work in the different departments is as follows: General work, helping and tool room, bench work, work on speed lathe, drill press, sensitive drill, shaper, planer, milling machine, shop kinks, installation, inspection, supervision, science, hardening and tempering, forging, sketching and drawing, mathematics and written work.

Cabinet. Work in hard and soft woods, wood finishing, glue work, pattern work, furniture making, work on band saw, circular saw, jointer, lathe, sketching and drawing, mathematics and written work.

Carpentry. Framing, rough construction, floor work, house carpentry, remodelling, preparing stock, glue work, finishing, joinery, band sawing, work on circular saw and planer, sketching and drawing, and written work.

The content of the technical trade subjects given by lectures and individual instruction is applicable to each phase of the industry followed by the pupil.

Trade English. Terms of expression used in the trade, written and oral work on the operations performed.

Trade Literature. The reading of trade journals, hand books and catalogues on machine work and construction.

Trade Materials. Study and reading in connection with the particular materials used on the job.

Trade History. A short history, talk, or summary of the trade and processes. Difference between past and present day methods. Improvement in machines and tools, comparison of cost systems.

Trade Hygiene. Subjects which relate to the physical well-being of the worker, danger points on machines, proper protection of the eyes, attention to proper clothing, safety study, a knowledge of occupational dangers and the right of the worker as to physical protection, proper ventilation and sanitary conditions.

Trade Science. The use of machines, the analysis of the job into operations, selection of proper stock, finishing, accuracy, etc. The composition of metals and woods, treatment of metals, hardening and tempering, proper care of machines, strength of materials, effects of temperature on glue and results, lubrication, elementary laws of mechanics.

Shop Management. Methods of routing, checking and handling jobs, selection of equipment, inspection and checking work, looking after waste material, care of machines and belts, division of responsibility between superintendent, foreman and workmen. How wages are paid, day, piece work and premium systems.

Shop Drawing. Based on the definition that a working drawing should be so drawn and dimensioned as will give all the information necessary in construction of machines, or parts of machines, freehand sketching of objects made, reading and working from simple to fairly complicated drawings. The use of blue-prints and properly prepared mechanical drawings.

Applied English. Written and oral work describing detail and processes, and finally complete work. Visits to shops and buildings for observation, and written themes on the visits.

Trade Mathematics. The use of arithmetic in connection with the carrying out of the work, study of the graduations on the scale, value of fractions and decimal equivalents, changing decimals to nearest fractional value, changing fractions to decimals. Figuring tap sizes, change of gears, gear cutting, taper work, angles, pulley speeds, milling machine indexing, cost of materials and production, figuring stock lists and quantities.

Trade Mechanics. Study of the simple forms of mechanisms. The application of the principles of pulleys, cams,

levers and screws. The study of the machines as a combination of mechanisms, each of which may be doing a different kind of work, but the whole combination of mechanisms working together accomplishing some desired result. Study of structures, foundations suitable to carry loads. Function of floors, framework, walls and roofs.

Academic Department.

General Related Subjects.

APPLIED MATHEMATICS AND MECHANICS, 30 PER CENT.

Problems taken from the shop; from the project routing cards; from suggestions made by the principal and shop instructor. Problems taken from textbooks on shop mathematics. Board measure; house building; general constructions; height of trees and other measurements; pattern making and foundry work; speeds of pulleys, shafts and gears; cutting speeds and feeds. Thread proportions; gearing for screw cutting; indexing. Gear proportions and spirals; wheel and axle. The universal grinder and the gas engine. Levers.

APPLIED ENGLISH, 35 PER CENT.

The written word; based on jobs performed in the shop. Descriptions, narrations, expositions of jobs and particular operations entailed in jobs, tools, machines, etc. Themes relative to visits; to subjects in hygiene and civics; letter writing.

General Vocational Subjects.

GENERAL INDUSTRIAL GEOGRAPHY AND HISTORY, 5 PER CENT.

General geography as an introduction to the study of industrial geography; study of various metals and woods, and their uses. Trade history; study of labor organization; study of guilds; of the organization of labor in France under Louis XIV. History of inventions and development of machinery.

SOCIAL SCIENCE, 5 PER CENT.

Problems of transportation; problems of food supply; problems of water supply; problems of fire protection; problems in safety study.

DRAWING, 5 PER CENT.

Correct methods of reading and making working drawings, standard lettering, line representation, symbols, technique, finished drawings, tracings and blue printing. Methods of preparing drawings in advance of the work.

*General Non-Vocational Subjects.***CIVICS, 5 PER CENT.**

Man a social animal; the forming of communities; government; its purpose; the government for man, not man for the government; a study of the Declaration of Independence as a fundamental for study of government in the United States; the study of early government in early Massachusetts; the articles of confederation; the constitution. Citizenship,—who are citizens; rights and duties of citizens in public and private; taxation; the three departments of government. National government, state government; county government; town government. This study is to be supplemented, when possible, by visits to the various places wherein civil government is carried on. Civics and ethics intimately related.

ETHICS, 5 PER CENT.

Rights and duties in regard to government. Rights and duties in regard to home. Rights and duties in regard to society. Love of manhood; right understanding and appreciation of it; courtesy and politeness.

HYGIENE, 5 PER CENT.

Hygiene distinguished from physiology; general notions of physiology as an introduction to the study of hygiene; personal hygiene secured by means of talks and inspections. Study of sanitation in home and factory; study of infectious diseases. Study of laws of hygiene as a means of long life, useful and complete life, and a trade asset. Study of causes and hygienic treatment of the common infectious diseases.

GENERAL MATHEMATICS, 5 PER CENT.

Fractions; percentage; averages; square root; cube root; ratio and proportion; mensuration; formulae; short methods. Graphic representation of statistics.

PHYSICAL TRAINING.

Setting up drills; proper breathing exercises; outdoor sports and games at recess.

STATEMENT CONCERNING THE VOCATIONAL SCHOOL FOR GIRLS.

This school is a state-aided vocational day school for girls specializing in homemaking. It is located in a double frame building of two and one-half stories at 41 Atherton street. It was opened in October, 1911, and has a capacity of seventy-five pupils. Its teaching corps consists of one director, eight teachers and one clerical assistant. Following is a statement of the aims of the school and of the means being employed to attain them.

The aim of the school is, first, to train for homemaking, and to offer the homemaking subjects of household management, cooking, dressmaking and millinery that can be taught under the present conditions; second, to present these subjects in such a way that they meet the highest trade standard, and enable the young girl, if she must be a wage earner, to take her place among skilled workers. This trade standard is most important in a school from which a girl may go, temporarily at least, into a trade shop.

Following trade requirements does not in any way interfere with the main idea of the school,—homemaking,—but rather emphasizes the standardization of all phases of women's work. In order to give girls every opportunity for finding out for what they are best fitted, a general course embracing all the above mentioned subjects has been planned, by which the students are fitted for several vocations having a common basis.

Broadly speaking, the homemaking subjects taught cover the preparation, care and purchase of foods; the placing of housekeeping upon a scientific basis; the planning and making of clothing, the intelligent buying of equipment, and the repair of household materials.

The course covers three phases of work. First, where all the academic studies are closely related to one specific problem in a major subject; second, where the academic studies are related to the major subject as a whole; and third, where these studies become strictly cultural, bearing upon the practical culture a woman needs in her own home and social environment, or in business, and not the culture of the college trained woman. The three phases are carried out in the following way, according to the requirements of the State Board of Education.

First Year.

SHOP PRACTICE, 50 PER CENT.

Cooking. Preparation of entire meals served in the vocational school; preparing soups, vegetables, meats, fish,

scalloped dishes, salads, salad dressings, sauces, cakes and breads, hot and cold desserts, ices.

Home Economics. Care of house and equipment, food principles, laundry work, table service, waitress service.

Dressmaking. Making cooking apron, cap, sewing apron, two cotton dresses, tailored woolen skirt, silk waist, woolen dress, trimmings. Pattern reading, cutting by bought pattern. Simple trade work for practice on power machines, as pillow slips, sheets, hospital gowns, nurses' aprons.

Millinery. Millinery stitches, bands, linings, folds; making wire frames, blocked frames, sectional hats, dolls' hats. Wiring and bow making, cleansing and renovating; steaming and coloring; feathers and flowers. Making and covering large hats.

RELATED STUDIES, 30 PER CENT.

English. Spelling; oral and written work relating to major subjects; correct language forms. Reading from magazines, articles relating to home and trade subjects.

Business and Arithmetic. Use of tape measure, fractions, discount, percentage, arithmetic problems in dressmaking and cooking; personal and household accounts; bills, money orders, checks; business correspondence; insurance, investments; fundamental principles of business.

Textiles. Analysis of fabrics for fibre structure; chemical tests for adulterations, color and shrinkage. Mounting and study of all kinds of textile fabrics used in the home, for weave, quality, price and desirability as a purchase. Chemistry of dyestuffs; dyeing different fabrics for effect on fibres. History of growth of fibres; where raised, by whom manufactured and consumed.

Art Appreciation. Study of costume from the standpoint of choosing fabric, color and style suitable for the different types of complexion and figure of the individual students.

CULTURAL STUDIES, 20 PER CENT.

English. Reading of poems and short stories, with the lives of the writers. Reading of newspapers, "Current Events," and discussion of important articles. Discussion of magazine articles and books. Suggestion of reading list of books, visits to library, instruction in the use of library systems. Aim, to inculcate in the student a love for good books, and a power of selection in every day reading matter.

Hygiene and Civics. Laws governing the health of a city, and those affecting the employment of women. Health laws in shop and factory. Laws for the production of materials under better conditions, Pure food laws, Inspection of food shops.

Art Appreciation. Talks on decoration, visits to museum for textile exhibit.

Physical Training. Games and dancing.

Second Year.

SHOP PRACTICE, 50 PER CENT.

Cooking. Preserving, candy making, fancy salads, pastry and puff paste, invalid cooking. First year problems repeated in preparing food for the High School lunch room, and the teachers' dining room. Waitress service for those students specializing in accommodator work. Food cooked to order by individual student. Uses of fireless cooker.

Home Economics. The home: its care, decoration, furnishing. What to choose in renting, what to consider from the sanitary and economic standpoint. Daily schedules for household tasks. Household conveniences, labor saving devices. Review of foods for nutrition, and for caloric values. Plans of menus; study of costs and food values. Formal and informal table service. Marketing. Household accounts, family budgets. Emergencies.

Dressmaking. Making patterns and paper models; boned linings; draped models; net guimpes, tailored shirtwaist, cloth dress, silk or lingerie dress. Underwear: night gown, combination, princess slip, or petticoat and corset cover. Household mending: table and bed linens; darning woolen materials, patching flannels, and cotton garments; darning and footing stockings; mending gloves; hemstitching and marking linens. Custom order work done only in the second year.

Millinery. Problems and processes in the making of hats are repeated, and hats made for custom order work according to season.

RELATED STUDIES, 30 PER CENT.

English. Carried out along the lines of first year's work.

Textiles. Includes everyday chemistry used in the household. Analysis of silk and woolen materials as in first year's work with cotton. Industrial history, as it relates to the history of commercial products used in the home. The woman movement in industry. Visits made to factories, mills, and department stores in connection with the textile study.

Art Appreciation. Study of home furnishing with regard to cost, selection and arrangement of furniture, wall and floor coverings; draperies, pictures, and ornamental accessories.

CULTURAL STUDIES, 20 PER CENT.

English. Social usages and correspondence. Ethics. Class work carried out along the lines of first year's work.

Art Appreciation. Talks on pictures and their selection. Visits made to the art museum, and galleries.

Physical Training. Games and dancing. Outdoor work in season.

Home Projects. Ten hours a week are required for work in the home, that the student may gain speed and manipulative skill under her own home conditions. The problems are planned with the student and her mother as to her individual needs, are directed by the teacher, and are based on classroom work. Records are kept and credits given.

This program is arranged in a series of cycles, to meet the condition of the school's product, and those governing the placement of students at either part or full time work. There are three cycles in each year's work. The first from September to December; the second from December to March; and the third from March to the end of the school year. Each cycle carries a definite amount of work to be accomplished in all branches of the school's training, and when this has been met, with the necessary standard of workmanship, the student is advanced through each cycle to the graduating class. While the school does not find it possible to place all students who are taking the course in skilled trades, there is a constant demand for those who can be recommended, and they are placed in positions the season following graduation. A student in the intermediate class with an average of less than B, and an attendance below 80%, is not admitted to the graduating class.

Certain entrance requirements are observed. First, that the pupil's physical and mental condition are such that she can reach the standard called for in her chosen vocation. Second, that she shows a decided aptitude for this special kind of training. Third, that, if possible, she is a grammar school graduate.

Before graduation a student must complete the six cycles of prescribed work, have an average of "B," and an attendance of 80%. If because of illness she is obliged to leave school for a time, she can re-enter at any time that a new cycle is started, and complete the course, graduating the following June.

It is not necessary that the graduating student go into the industry trained for, or that she work at all outside the home, as the aim of the school is to fit her to carry out household duties in a systematic and efficient way that she may have the leisure to cultivate the broad interests of the **home-maker.**

There are many possibilities for earning money for those trained in homemaking. For the woman in the home, there is preserving, cake and bread making, candy making, home millinery or dressmaking, fine mending, repairing, and laundering of household linens, laces, embroideries, and waists.

Trade dressmaking offers the positions of helper; waist, skirt, or coat finisher; ornament and trimming maker; embroiderer; cutter and model maker in small establishments, where few girls are employed and each one is given much responsibility. There is also seamstress work by the day outside the home; and the mother's helper.

Millinery shops employ the maker; assembler; frame-maker; and embroiderer of bands and trimmings. There is independent business for the parlor milliner, where trimming is added to the list of positions. This trade is so seasonal that pupils are not placed except where there is a supplementary trade to turn to at the end of the millinery season.

Domestic Science holds out the positions of the accommodator who can prepare and serve a special dinner or collation at a special function; assistant or waitress in tea rooms or women's clubs; assistant in school lunch rooms; working housekeeper in small families.

In all these positions there are certain requirements and qualities needed for success that the school tries to meet. Those most often frankly demanded follow in the order given: Pleasing personality, initiative, neatness, and care as to detail, skill in workmanship, adaptability and loyalty to best interests of employer.

SOMERVILLE PLAYGROUNDS ASSOCIATION.

Comparative Financial Statement for 1914 and 1915.

Receipts:—	1914	1915
Balance from previous account	\$46 71	\$51 06
Donations and subscriptions	430 71	1,347 17
	<hr/>	<hr/>
	\$477 42	\$1,398 23
Expenditures:—		
Instructors	\$293 90	\$554 60
Supplies		120 25
Printing	14 00	29 35
Rent of land for gardens	18 46	16 00
Stamps, envelopes and printing		15 62
Annie E. McCarty House	50 00	
Tuition of teachers	50 00	
Membership in Somerville Federation for Civic Service		1 00
Gustavus T. Kirby, for services rendered by Mr. Rowland Haynes		327 00
Gustavus T. Kirby, for Survey (or study) of Recreation Problem in Somerville		153 65
	<hr/>	<hr/>
	\$426 36	\$1,217 47
Balance	51 06	180 76
	<hr/>	<hr/>
	\$477 42	\$1,398 23

SUMMER PLAYGROUNDS.

Comparative Statement of Receipts and Expenditures.

	1913	1914	1915
Amount appropriated by City Govern- ment	\$2,500 00	\$2,000 00	\$1,700 00
Paid for salaries of supervisors and instructors	1,689 00	1,598 00	1,292 20
Paid for equipment:—			
Swings, etc.	422 00		
Trees	15 48		
Hose	14 35		
Labor and teaming	76 52	2 70	
Repairing			18 38
Athletic supplies:—			
Baseballs, bats, etc.	218 50	107 27	134 87
Medals, etc.	6 00	13 75	15 45
Miscellaneous supplies and disbursements:—			
Printing	24 50	6 25	
Labor	37 88	10 50	20 00
Teaming and expressing	21 50	9 50	10 85
Sand	5 00	10 75	33 23
Band		61 60	
Handwork supplies		44 84	52 00
Various	14 10	61 00	43 82
Baths:—			
Salary of attendant	204 00	35 00	79 20
Supplies, including laundry	140 86	15 25	
School Gardens:—			
Supplies	13 00	17 67	
Labor	15 50	5 55	
Balance unexpended	65	37	
Total amount expended	\$2,918 84	\$2,000 00	\$1,700 00
Expended by Somerville Playgrounds Association	1,446 52	426 36	1,217 47
Grand total of all money expended for playgrounds	\$4,365 36	\$2,426 36	\$2,917 47

REPORT OF THE SCHOOL SAVINGS BANKS.

November 1, 1914, to October 31 1915.

Schools.	Balance Nov. 1, 1914.	Amount Deposited.	Amount Withdrawn.	Amount Transferred.	Balance Oct. 31, '15.
Prescott . . .	\$155 10	\$816 90	\$130 55	\$701 80	\$139 65
Hanscom . . .	154 65	839 51	69 52	856 96	67 68
Bennett . . .	23 92	173 99	103 05	44 41	50 45
Knapp . . .	54 13	704 23	94 60	509 79	153 97
Perry . . .	70 50	397 00	39 65	347 90	79 95
Baxter . . .	99 37	511 14	91 96	435 05	83 50
Cummings . . .	32 96	225 74	39 15	162 90	56 65
Pope . . .	101 85	630 45	179 45	422 00	130 85
Bell . . .	141 18	709 74	200 02	484 00	166 90
Edgerly . . .	161 72	1,122 64	122 50	980 06	181 80
Glines . . .	94 85	901 82	31 95	883 47	81 25
Forster . . .	140 99	1,439 39	93 02	1,084 75	402 61
Bingham . . .	246 37	1,458 73	142 56	1,270 86	291 68
Carr . . .	110 85	767 36	89 21	706 65	82 35
Morse . . .	82 02	540 44	74 18	452 34	95 94
Burns . . .	172 95	616 80	38 90	636 30	114 55
Proctor . . .	127 40	704 05	81 85	718 75	30 85
Brown . . .	233 37	880 27	59 85	750 75	303 04
Highland . . .	143 37	845 80	55 95	803 00	130 22
Hodgkins . . .	239 00	1,098 00	169 35	1,017 05	150 60
Lowe . . .	122 65	773 10	54 50	743 25	98 00
Cutler . . .	233 99	1,207 79	107 93	1,036 83	297 02
High School . . .	57 81	273 80	180 80	149 01	73 80
Girls' Vocational . . .	1 55		90		65
Totals . . .	\$3,002 55	\$17,638 69	\$2,179 40	\$15,197 88	\$3,263 96

REPORT OF THE SCHOOL DENTIST

For the School Year Ending June 26, 1915.

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.
September	77	71	7	28	14	23	23	-	-	\$ 6.85
October	162	68	84	60	63	38	36	158	4	18.04
November	110	61	49	49	43	22	23	107	2	8.62
December	110	7	103	34	87	16	27	107	3	10.80
January	130	69	61	49	59	43	29	120	10	13.98
February	89	45	44	28	50	25	20	81	8	6.75
March	171	107	64	86	92	49	53	152	19	17.89
April	103	63	40	32	50	29	25	87	16	13.00
May	139	84	55	47	40	73	34	126	13	15.35
June	85	64	21	52	12	30	18	73	11	12.20
Totals	1176	639	528	465	510	348	288	1011	86	\$123.48

Comparative Financial Statement.

Receipts:—	1913-1914	1914-1915	
Cash on hand at beginning of school year	\$22 21	\$12 78	
From fees	115 08	123 48	
From sale of tooth brushes and powder	106 19	128 75	
	<u> </u>	<u> </u>	\$265 01
Expenditures:—			
For supplies	\$230 70	\$265 01	
Cash on hand at close of school year	12 78	00	
	<u> </u>	<u> </u>	\$265 01

REPORT OF SCHOOL NURSE FROM SEPTEMBER, 1914, TO JUNE, 1915, INCLUSIVE.

DATE	Visits to School or Hospital	No. of Pupils		Treatments in School		Inspections for		Pupils Escorted to Clinics							Operations		*Contagion found in		Home Visits	REMARKS	
		New	Old	Ped.	Uncl.	Eye	Ear	Nose and Throat	*Medical	Surgical	Skin	*Dental	Optician	Corrected Vision	Tonsils	Adenoids	School	Home			
September .	Schools 51 Hospital 1	121	352	10	36	17	2	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	38	Assisted doctors in medical inspection.	
October . .	Schools 69 Hospitals 9	103	206	44	78	8	6	.....	.....	.....	.....	2	.....	3	3	.....	.....	1	1	70	Assisted doctors with inspections of vaccinations.
November .	Schools 68 Hospitals 5	130	296	92	66	11	4	.....	.....	5	2	.....	.....	1	.....	.....	.....	4	1	71	
December .	Schools 62 Hospitals 3	210	238+	74	59+	20	3	.....	.....	1	1	.....	.....	2	1	.....	.....	1	.....	72	Reported a contagious case to Board of Health.
January . .	Schools 64 Hospitals 7	135+	265	95	39	15	7	1	1	4	1	.....	.....	6	3	.....	.....	3	5	71	Case of cervical glands taken to Children's Hospital and operated on.
February .	Schools 51 Hospital 1	140+	229+	74	70+	21+	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	6	2	40	Clothing secured for poor families so that children could return to school.
March . .	Schools 74 Hospitals 10	96	326	102	90	36	9	2	3	1	3	.....	.....	6	5	.....	.....	9	4	86	Reported conditions in two families to S. P. C. C. Reported condition of homes of two state children.
April . . .	Schools 53 Hospitals 7	64+	227	83	31	12	1	...	3	3	5	1	10	1	1	1	1	5	.....	52	Child taken to School for Feeble Minded, after securing commitment by Probate Ct. Children taken to hospitals and operations performed.
May . . .	Schools 72 Hospitals 8	183	240	83	87	32	4	.....	.....	.....	4	.....	.....	2	2	4	4	10	2	57	Von Pirquet test on two children. Child with one-tenth vision found and taken to specialist.
June . . .	Schools 60 Hospitals 3	137+	258+	84	98	30+	.....	1	1	1	1	1	.....	.....	.....	.....	.....	1	.....	55	Several cases for operation were booked for the summer.
Total . .	Schools 624 Hospitals 54	1319+	2637+	741	654	202	37	4	8	15	19	2	10	22	18	5	5	40	15	612	

*Treated by family physician or dentist.



SOMERVILLE TEACHERS' ASSOCIATION.**Officers, 1915.**

President, Roy W. Hatch.

Vice-Presidents, { John M. Jaynes.
 { Abigail P. Hazelton.

Secretary-Treasurer, Mrs. Nellie W. McPheters.

Executive Committee:—

Superintendent Charles S. Clark, ex-officio.

Edith L. Laycock, Prescott.	Arthur J. Marchant, Forster.
Francis A. Ryan, Boys' Vocational.	Harry F. Hathaway, Bingham.
Nellie F. Eaton, Bennett.	Susie L. Luce, Carr.
Minnie A. Perry, Knapp.	Lena Munroe, Morse.
Catherine E. Sweeney, Perry.	Alice E. Morang, Burns.
Julia A. Mahoney, Baxter.	Ella P. McLeod, Proctor.
Frances L. Gwynne, Cummings.	George I. Bowden, Brown.
Annie G. Sheridan, Pope.	Mary L. Bryant, Highland.
Ada G. Macdonald, Bell.	Martha A. Jencks, Lowe.
Isabelle M. Gray, Edgerly.	Inez Prentiss, Hodgkins.
Anna G. Welch, Glines.	Lilla E. Mann, Cutler.
Emma M. Damon, Girls' Vocational.	Mrs. Ethel W. Cutler, Lincoln.

The meetings held under the auspices of this association in the year 1915 were as follows:—

June 7—Professor Benjamin T. Marshall. Subject: "The Opportunity of the Teachers of American Youth and the Challenge of the Task."

October 25—Professor Frank Lewis Duley. Subject: "European Diplomacy."

December 8—Laurence D. Kitchell. Travelogue: Glacier National Park and the Blackfeet Indians.

SOMERVILLE TEACHERS' CLUB.

Officers, 1915-1916.

President, Miss Elizabeth M. Collins.

Vice-Presidents, { Miss Charlotte Holmes.
 { Miss Alice W. Cunningham.

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.

Programme.

January 13—Guest night. Song Recital. Mrs. Mary Howe-Burton

February 9—Somerville night. Mr. Roy W. Hatch.

Mrs. Jarley's Wax Works of Somerville Notables

March 9—Lecture, "The Health of the Teacher and its Bearing Upon her Efficiency" Dr. Evangeline Young

April 12—Benefit Night. The Meistersingers.

May 11—Annual Meeting.

October 18—Reading, "Cousin Kate" Mrs. Elizabeth Pooler Rice

November 9—Reading, "An Encore," Mrs. Margaret Deland

December 14—Christmas Party. Club talent.

At the meeting of the School Board held on March 29, 1915, for the special committee on resolutions in memory of S. Henry Hadley, who died on February 2, Dr. Cholerton offered the following:—

“Mr. S. Henry Hadley was elected a Teacher of Music in the Somerville High School in 1868, and in 1870 was made Supervisor of Music, which position he held up to the time of his death. For forty-seven years he gave his best efforts to his work in our schools.

“Mr. Hadley knew no such word as failure. He was very enthusiastic in his work, and had a wonderful faculty for instilling into the minds of his pupils a love for the best in music. Under his instruction and inspired by his zeal, our High School pupils successfully rendered several very difficult oratorios.

“During his long service he brought out special talent among his pupils. Many singers have said that they owed their success to his help and encouragement. Through his work in the schools his influence reached the entire city, and he will be greatly missed.

“The School Committee takes pleasure in recognizing the long and earnest service of S. Henry Hadley, and in expressing their appreciation of his work as an instructor, and as a man.”

WILLIAM A. WHITEHOUSE,
Supervisor of Penmanship, Public Schools of Somerville,
From 1895 to 1915.
Died June 12, 1915.

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3. Cost per capita of maintaining schools, school year 1914-1915.
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19. Promotions, 1915.
- 19-A. Distribution of pupils by ages, October 1, 1915.
- 19-B. Distribution of pupils, 14 but not 15, October 1, 1915.

CONCERNING TEACHERS.

20. Resignations of teachers, 1915.
21. Teachers elected in 1915.
22. Leave of absence of teachers.
23. Transfers of teachers.
24. Number of teachers employed for a series of years.

STATISTICAL AND GENERAL TABLES.

25. Changes in text-books, 1915.
26. High school graduation exercises, 1915.
27. Grammar school graduation exercises, 1915.
28. Organization of school board for 1916.
29. Teachers in service January, 1916.
30. Officers in service January, 1916.
31. School janitors.

SUMMARY OF STATISTICS.

1.—POPULATION AND SCHOOL CENSUS.

Population, state census, 1895.....	52,200
Population, United States census, 1900.....	61,643
Population, state census, 1905.....	69,272
Population, United States census, 1910.....	77,236
Population, state census, 1915.....	86,854
Children between five and fifteen years of age, October, 1914, by school census.....	13,513
Children between five and sixteen years of age, October, 1915, by school census.....	15,156
Increase	1,643

2.—SCHOOL BUILDINGS.

	1914.	1915.	Change.
Number of school buildings.....	27	27	0
Number of classrooms in use in June.....	306	308	+2
Valuation of school property.....	\$1,767,215	\$1,801,714	

3.—TEACHERS.

	1914.	1915.	Change.
In high schools.....	75	76	+1
In grammar schools.....	167	172	+5
In primary schools.....	101	100	-1
In kindergartens	8	8	0
Total in elementary schools.....	276	280	+4
Vocational school for boys.....	6	6	0
Vocational school for girls.....	10	9	-1
Atypical classes.....	2	2	0
Cadet teachers	8	7	-1
Special	14	14	0
Total	391	394	+3

4.—ATTENDANCE FOR YEAR.

	*1914.	*1915.	Change.
Entire enrollment for the year.....	13,932	14,505	+573
Average number belonging.....	12,320	12,903	+583
Average number attending.....	11,610	12,189	+579
Per cent. of daily attendance.....	94.2	94.5	+3
High school graduates.....	273	311	+38
Grammar school graduates.....	740	789	+49

*School year.

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CON

SCHOOLS.	SALARIES						Books.	White Paper.	Manila Paper.	Blank Books.	Pencils, Pens, etc.	Maps and Charts.	Bookbinding.	Seat Work and Kindergarten Supplies.	Manual Training Supplies.	Drawing Supplies.	Laboratory Supplies.	Bookkeeping Blanks.
	TEACHERS					Administrative												
	Regular.	Substitute.	Special.	Kindergarten.	Total.													
High	\$83,851 10	\$142 00	\$331 84	.....	\$84,324 94	.....	\$2,569 63	\$702 83	\$95 40	\$453 57	\$336 97	\$5 21	\$461 59	.....	\$899 29	\$631 83	\$893 14	\$710 64
Prescott	11,736 00	62 00	662 79	.....	12,460 79	.....	268 71	96 50	44 32	14 30	47 78	14 82	64 94	\$1 73	48 66	23 72	.....	.....
Hanscom	8,990 00	88 00	282 02	\$1,080 00	10,440 02	.....	114 77	68 76	55 38	2 95	28 97	.....	6 46	21 05	5 31	8 97	.....	.....
Bennett	8,446 00	49 50	197 34	1,136 25	9,829 09	.....	74 33	53 62	38 34	1 85	25 41	.....	.....	23 60	.....	13 28	.....	.....
Baxter	3,989 13	16 00	139 51	1,195 00	5,339 64	.....	40 74	29 08	19 38	1 78	12 59	.....	2 55	15 07	3 37	2 08	.....	.....
Knapp	12,232 75	104 00	733 83	.....	13,070 58	.....	189 43	55 19	45 90	26 50	57 28	.....	27 37	3 80	71 13	30 20	.....	.....
Perry	4,700 25	90 25	206 26	.....	4,996 76	.....	75 85	25 19	25 15	1 53	16 90	.....	.....	2 89	11 92	6 23	.....	.....
Pope	10,651 87	58 75	730 32	.....	11,440 94	.....	294 27	56 52	43 53	11 64	39 90	.....	41 61	74	64 15	14 77	.....	.....
Bell	8,908 63	106 50	700 68	.....	9,715 81	.....	137 76	85 73	18 27	5 42	19 10	.....	40 63	.....	58 33	17 08	.....	.....
Cummings	3,092 50	7 00	92 62	.....	3,192 12	.....	36 17	9 18	2 82	34	4 55	.....	.....	18 23	.....	8 44	.....	.....
Edgerly	11,723 26	97 25	701 77	.....	12,522 28	.....	218 08	120 43	65 79	11 76	21 38	1 15	62 39	47	54 58	18 86	.....	.....
Glines	12,034 00	72 50	664 07	1,225 00	13,995 57	.....	183 55	53 54	16 73	6 60	32 43	.....	22 10	60 00	46 35	8 70	.....	.....
Forster	16,217 25	69 25	408 90	.....	16,695 40	.....	285 73	146 81	49 56	19 80	51 25	.....	30 60	43	304 26	30 08	.....	.....
Bingham	14,907 13	71 25	835 05	.....	15,813 43	.....	192 96	93 81	42 27	3 40	55 40	.....	24 74	13	55 29	39 35	.....	.....
Carr	15,434 63	157 00	806 59	.....	16,398 22	.....	129 77	28 37	47 51	14 62	34 81	.....	18 59	27 51	71 86	33 18	.....	.....
Morse	11,534 25	60 75	608 36	.....	12,203 36	.....	188 37	77 06	54 47	11 99	35 39	1 00	16 77	75 38	30 62	45 30	.....	.....
Proctor	5,897 38	82 00	232 10	.....	6,211 48	.....	121 01	51 57	35 01	2 87	22 52	.....	.....	53	13 21	33 13	.....	.....
Durell	3,060 88	30 00	112 19	.....	3,203 07	.....	16 61	9 20	17 27	.....	13 40	4 67	.....	6 86	.....	8 03	.....	.....
Burns	7,341 25	28 50	246 05	.....	7,615 80	.....	131 07	38 51	30 95	2 70	16 17	.....	.....	1 32	13 21	22 14	.....	.....
Brown	9,934 64	75 00	575 27	.....	10,584 91	.....	168 84	96 37	41 41	5 40	20 50	.....	22 74	42	46 07	17 40	.....	.....
Highland	11,460 57	87 25	872 28	.....	12,420 10	.....	154 37	86 21	60 41	13 40	29 71	9 30	177 74	.....	121 51	18 65	.....	.....
Hodgkins	11,698 94	83 25	595 38	.....	12,377 57	.....	156 62	83 54	72 43	6 10	29 65	.....	19 55	1 30	65 04	25 31	.....	.....
Cutler	11,584 75	170 75	594 59	.....	12,350 09	.....	436 13	55 30	21 61	10 08	38 73	1 25	35 33	10 28	67 17	34 83	.....	.....
Lincoln	2,806 38	50 25	88 66	.....	2,945 29	.....	95 83	6 27	29 78	34	26 08	.....	.....	5 12	.....	12 30	.....	.....
Lowe	6,387 50	92 25	147 03	.....	6,626 78	.....	66 60	22 60	13 54	2 70	16 81	.....	36 04	10 78	.....	12 13	.....	.....
Atypical	1,695 75	.....	.....	.....	1,695 75	.....	.....	1 09	1 53	93	67	.....	.....	.....	21 60	2 21	.....	.....
Boys' Vocational	7,260 00	.....	.....	.....	7,260 00	.....	63 20	14 84	10 90	10 63	12 25	.....	.....	.....	549 46	14 22	.....	.....
Girls' Vocational	7,634 85	.....	.....	.....	7,634 85	.....	1 75	40 27	8 37	1 35	6 41	.....	.....	.....	4 53	7 44	.....	.....
Evening, High	4,010 00	.....	.....	.....	4,010 00	.....	45 00	40 49	3 18	.....	12 46	.....	.....	.....	.....	119 95	.....	160 64
Evening, Bell	2,832 00	.....	.....	.....	2,832 00	.....	.....	17 74	2 73	2 70	13 57	.....	.....	.....	.....	72	.....	.....
Evening, Highland	955 50	.....	.....	.....	955 50	.....	.....	7 39	5 70	1 35	6 80	.....	.....	.....	.....	.....	.....	.....
Evening, Industrial	272 00	.....	.....	.....	272 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administration .....	.....	.....	.....	.....	.....	\$7,600 00	25 03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous .....	.....	.....	.....	.....	.....	.....	97 62	63 52	6 88	24 94	107 91	.....	142 94	.....	31 73	.....	.....	.....
Dental	930 00	.....	.....	.....	930 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	\$334 211 14	\$1 951 25	\$11,565 50	\$4,636 25	\$352,364 14	\$7,600 00	\$6,579 80	\$2,337 53	\$1,025 62	\$673 54	\$1,193 75	\$37 40	\$1,111 74	\$431 13	\$2,626 92	\$1,292 26	\$893 14	\$871 28

EXPENDITURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1915.

	Laboratory Supplies.	Bookkeeping Blanks.	Domestic Science Supplies.	Typewriters and Supplies.	Printing.	Expressage.	Mending Tape, Paste, etc.	Pianos, Tuning and Repairs.	Travel.	Graduation Expenses.	Postage.	Tuition and Board of Truants.	Miscellaneous.	Equipment.	Telephone Service.	Electric Service. (Power.)	Census.	Totals.	SCHOOLS.
3	\$893 14	\$710 64	\$29 19	\$320 35	\$408 21	\$16 77	\$6 09	\$3 25	\$13 65	\$134 57	\$29 78		\$635 02		\$86 96	\$97 54		\$9,541 43	High
2						30	1 68	1 50		10 12			67 61		32 32			739 06	Prescott
7						15	2 60	4 00					10 12					329 49	Hanscom
8						5 30	7 15	6 50					121 09					370 47	Bennett
8						15	56		2 20				11 56					141 11	Baxter
0							10 23		5 89	18 28			19 58		33 36			594 14	Knapp
3							2 16						12 03					179 90	Perry
7						50	56	2 50		14 04			13 01		24 57			622 31	Pope
8						45	1 10		14 52	15 50			14 36		25 07			453 32	Bell
4							1 12						10					80 95	Cummings
6						15	1 40	2 50	6 00	18 24			26 61		29 02			658 81	Edgerly
0							3 17		4 22	24 48			21 41		24 13			507 41	Glines
8			51 73	3 00	83 26	1 95	7 05	5 50	28 90	18 90	3 70		22 90	\$26 35	37 53			1,209 29	Forster
5						15	2 55		3 80	15 05			19 47		24 33			572 70	Bingham
8						65	5 24	4 00	2 70	11 84			25 20		27 33			483 18	Carr
0						25	5 96	3 00	3 20	7 66			17 53		24 81			599 26	Morse
3							38						16 22		29 04			325 49	Proctor
3							39	4 50			72		12 31					93 96	Durell
4						15	7 04	1 50	2 80				6 19					273 75	Burns
0						25	4 38	4 00	10 80	13 57			24 76		24 10			501 01	Brown
5						25	8 79		3 80	29 29			22 02		25 10			760 55	Highland
1						40	6 17		3 50	8 65			27 36		24 47			530 09	Hodgkins
3						55	1 10	3 50	12 28	7 67			28 88		29 96			794 65	Cutler
0						50	4 18						13 10					193 50	Lincoln
3						30							20 75					202 26	Lowe
1													08	18 19				46 30	Atypical
2					7 90	6 01			17 10		17 95		127 83		35 57	243 41		1,130 37	Boys' Vocational
4					11 25	12 39	1 54		95		17 73		60 24	125 27	34 77			334 26	Girls' Vocational
5		160 64			18 21	1 00			60	6 75	34 00		1 63					443 91	Evening, High
2					5 25					3 25	10 52		2 00					58 48	Evening, Bell
.					5 25													26 49	Evening, Highland
.																			Evening, Industrial
3				56 95	556 26	2 19	30		233 73		227 50		167 29	5 99	191 48			1,466 72	Administration
.			2 88	63 00	446 75	43 25	20 86					\$1,172 26	192 90	26 83			\$650 66	3,094 93	Miscellaneous
.														35 00				35 00	Dental
5	\$893 14	\$871 28	\$83 80	\$443 30	\$1,542 34	\$94 01	\$113 75	\$46 25	\$370 64	\$357 86	\$341 90	\$1,172 26	\$1,761 22	\$237 63	\$763 92	\$340 95	\$650 66	\$27,394 60	Totals
														For Supplies	\$27,394.60				
														For Salaries	7,600.00				
														Total Spent from Contingent	\$34,994.60				



5.—COST OF SCHOOL MAINTENANCE.

	*1914.	*1915.	Change.
Salaries of teachers.....	\$330,954 98	\$349,981 08	+\$19,026 10
Salaries of officers.....	7,632 05	7,600 00	—32 05
Cost of books and supplies..	26,842 81	29,078 41	+2,235 60
Cost of light.....	6,447 53	5,755 42	—692 11
Cost of janitors' services....	33,711 42	32,673 32	—1,038 10
Cost of fuel.....	18,951 92	18,366 00	—585 92
Telephones	624 47	523 46	—101 01
Total cost of day and even- ing schools	425,165 18	443,977 69	+18,812 51
Per capita cost	34 12	34 41	+0 29
Cost of high school instruc- tion	79,576 30	83,724 52	+4,148 22
Per capita cost	42 60	41 90	—0 70

6.—MISCELLANEOUS.

	*1914.	*1915.	Change.
Paid for new school buildings	\$120,913 29	\$9,745 09	—\$111,168 20
Repairs and permanent im- provements	19,699 49	28,211 77	+8,512 28
Total school expenditures...	565,777 96	481,934 55	—83,843 41
Number of dollars spent to maintain schools out of every \$1,000 of valuation	5 68	5 75	+0 07
Valuation of city.....	74,887,800 00	77,153,500 00	+2,265,700 00
Number of dollars spent for all school purposes out of every \$1,000 of valuation	7 55	6 24	—1 31

*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, 1915, is \$443,977.69.

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.....	\$32,673 32
The cost of fuel is.....	18,366 00
The cost of light is.....	5,755 42
The cost of the school telephones is.....	213 14
A total cost of.....	\$57,007 88
The cost per capita.....	4 42
Cost of repairs.....	\$28,211 77

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

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational.	Elementary.	High and Vocational.	Elementary.
Officers' Salaries	\$7,600.00	.....	.....	.....	.....
Office Expenses	2,316.57	.....	.....	.....	.....
Textbooks	7,772.07	\$2,858.17	\$4,846.29	\$35.33	\$32.28
Stationery and Supplies	16,069.75	8,340.14	7,305.14	340.13	84.34
Other Expenses	1,493.47	.....	.....	.....	.....
Miscellaneous (Tuition, etc.)	1,736.87	.....	.....	.....	.....
Total	\$36,988.73	\$11,198.31	\$12,151.43	\$375.46	\$116.62

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

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

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.	
		High and Vocational.	Elementary.	High and Vocational.	Elementary.
Supervisors	\$5,668.00	\$195.51	\$5,472.49	.....	.....
Principals	41,772.00	7,320.00	33,321.00	\$442.00	\$689.00
Teachers	302,541.08	90,334.59	203,988.49	4,606.00	3,612.00
Total	\$349,981.08	\$97,850.10	\$242,781.98	\$5,048.00	\$4,301.00

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

The *total outlay* for the school year ending June 30, 1915, is as follows:—

Care	\$57,007 88
Contingent	36,988 73
Salaries	349,981 08
Total for school maintenance.....	443,977 69
Paid for repairs.....	28,211 77
Paid for new buildings.....	9,745 09
Total for all school purposes.....	\$481,934 55

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

	1910.	1911.	1912.	1913.	1914.	1915.
Janitors' salaries....	\$0.070	\$0.071	\$0.071	\$0.082	\$0.079	\$0.074
Heat and light.....	0.054	0.053	0.054	0.055	0.060	0.054
Administration	0.017	0.019	0.020	0.018	0.018	0.017
School supplies	0.071	0.068	0.076	0.065	0.065	0.067
Teachers' salaries....	0.788	0.789	0.779	0.780	0.778	0.788
Total	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

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

THE PER CAPITA COST OF DAY SCHOOLS FOR 1914 AND 1915.

	High Schools.			Grammar and Primary Schools.			All Day Schools.		
	1914.	1915.	Change	1914.	1915.	Change	1914.	1915.	Change
Instruction . . .	\$43 41	\$42 66	-\$0 75	\$22 94	\$23 10	+\$0 16	\$26 08	\$26 16	+0 08
Supplies	5 90	5 81	-0 09	1 28	1 46	+0 18	1 99	2 14	+0 15
Care	6 64	5 30	-1 34	4 17	3 93	-0 24	4 55	4 14	-0 41
Total	\$55 95	\$53 77	-\$2 18	\$28 39	\$28 49	+\$0 10	\$32 62	\$32 44	-\$0 18

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

	1911.	1912.	1913.	1914.	1915.
Cost of instruction	\$23 50	\$23 61	\$24 54	\$24 55	\$24 90
Cost of supplies.....	1 95	2 12	1 91	1 89	2 03
Cost of care.....	3 62	3 99	4 18	4 27	3 92
Total	\$29 07	\$29 72	\$30 63	\$30 71	\$30 85

An examination of these tables shows that we have paid seventy-five cents less for the instruction of each pupil in the High School than in 1914, and nine cents less per pupil for supplies.

The grammar and primary schools have cost sixteen cents more per pupil for instruction, and eighteen cents more for supplies.

The amount spent for the school year 1915 was \$5.75, or seven cents more than was spent in 1914. The amount yielded for each child in the average membership of the

schools for 1915, not including the industrial schools, was \$30.85.

Comparative Per Capita. According to the annual report of the State Board of Education for 1914-15, the amount yielded for each child in the average membership of the public schools was \$35.72, giving to Somerville the rank of 116 among the cities and towns of Massachusetts. In 1913-14 the rank was 116. By the same report it is shown that Somerville appropriated to the support of the public schools \$6.08 for each thousand dollars of valuation, and had the rank of 152. The year before the amount spent was \$5.75 and the rank 158.

Teachers' Salaries.

The salaries paid to teachers in January, 1916, are as follows:—

1 man.....	\$3,200	13 women.....	\$875
1 man.....	2,250	15 women.....	850
1 man.....	2,050	10 women.....	825
1 man.....	2,000	1 man, 182 women.....	800
11 men, 2 women.....	1,900	22 women.....	750
3 men.....	1,850	11 women.....	700
1 man, 1 woman.....	1,800	8 women.....	650
7 men.....	1,700	11 women.....	600
1 man.....	1,550	6 women.....	525
1 woman.....	1,500	2 women.....	500
2 men.....	1,300	2 women.....	475
2 men.....	1,250	5 women.....	450
1 man, 3 women.....	1,200	1 woman.....	425
1 man.....	1,150	1 woman.....	400
1 man, 1 woman.....	1,100	2 women.....	360
2 men.....	1,050	2 women.....	350
7 men, 11 women.....	1,000	2 women.....	250
7 women.....	950	7 women.....	200
1 man, 21 women.....	900		

SIGHT AND HEARING.

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

EYES.			
	1914.	1915.	Change.
Tested	11,733	12,028	+295
Defective	1,662	1,691	+29
Per cent. defective	14.2	14.1	—0.1
Notices sent to parents.....	1,087	1,016	
Professionally treated	199	212	
EARS.			
	1914.	1915.	Change.
Tested	12,396	12,472	+76
Defective	263	284	+21
Per cent. defective.....	2.1	2.3	+0.2
Notices sent to parents.....	161	154	
Professionally treated.....	24	27	

TABLE 1.—SCHOOLHOUSES.

NAME.	No. of Classrooms.	No. of Sittings.	Size of Lot, including Space Occupied by Building.	Material.	How Heated.	How Ventilated.	Valuation, including Furniture.	When Built.	Enlargements.
High } West	a44	1,795	*	Brick	Steam	Fan	\$409,602	1895	8 rooms added 1906
School } East	12	585	. . . . .	Brick	Steam	Fan	68,938	1871	30 rooms added 1913
Prescott	13	632	22,000	Brick	Steam	Fan	50,540	1867	4 rooms added 1894
Knapp	12	577	24,517	Brick	Steam	Gravity	85,760	1889	
Pope	12	501	27,236	Brick	Steam	Gravity	50,086	1891	
Bell	12	568	22,262	Brick	Steam	Fan	46,030	1874	
Edgerly	14	672	24,000	Brick	Steam	Gravity	80,540	1871	{ 4 rooms added 1882
Glines	18	817	28,800	Brick	Steam	Gravity	87,445	1891	{ 4 rooms added 1892
Forster	16	791	30,632	Brick	Steam	Gravity	71,955	1866	5 rooms added 1896
Bingham	17	777	35,586	Brick	Steam	Gravity	54,210	1886	6 rooms added 1899
Carr	12	566	20,450	Brick	Furnace	Gravity	48,199	1898	{ 4 rooms added 1894
Morse	12	582	29,000	Brick	Steam	Furnace	60,560	1869	{ 8 rooms added 1904
Highland	14	608	23,260	Brick	Steam	Gravity	79,760	1880	6 rooms added 1890
Hodgkins	18	606	35,034	Brick	Steam	Gravity	122,286	1886	4 rooms added 1891
Cutler	12	499	53,729	Brick	Steam	Gravity	61,769	1912	6 rooms added 1915
Bennett	10	531	17,000	Brick	Steam	Gravity	73,290	1902	4 rooms added 1907
Hanscom	248	11,107	12,756	Brick	Steam	Fan		1897	
Carried forward . . . . .			. . . . .	. . . . .	. . . . .	. . . . .	\$1,450,970	. . . . .

(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, three domestic science rooms, one domestic arts room, two typewriting rooms, two libraries, two supply rooms, five teachers' rooms, five offices, one luncheon room, one hall, and six toilet rooms, making fifty-two rooms devoted to other than classroom uses.

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

TABLE 1 (Concluded).—SCHOOLHOUSES.

NAME.	No. of Classrooms.	No. of Sitings.	Size of Lot, including Space Occupied by Building.	Material.	How Heated.	How Ventilated.	Valuation, including Furniture	When Built.	Enlargements.
Brought forward . . .	248	11,107	.....	.....	.....	.....	\$1,450,970	....
Brown	10	487	20,093	Brick	Steam	Gravity	64,151	1901	4 rooms added 1907
Proctor	8	343	18,000	Brick	Steam	Gravity	42,820	1905	
Burns	8	396	16,080	Brick	Steam	Gravity	34,760	1886	4 rooms added 1899
Lowe	8	386	21,650	Brick	Steam	Gravity	51,826	1903	
Baxter	6	290	11,000	Brick	Steam	Gravity	32,956	1901	
Perry	6	298	46,080	Brick	Steam	Gravity	37,080	1899	
Girls' Vocational . . .	6b	50	8,850	Wood	Furnace	Furnace	9,387	1911	
Boys' Vocational . . .	4	50	30,155	Wood	Furnace	Furnace	27,904	1884	
Cummings	4	196	11,300	Wood	Furnace	Furnace	11,920	1884	
Durell	4	190	13,883	Brick	Steam	Gravity	19,720	1894	
Lincoln	4	189	17,662	Wood	Steam	Gravity	18,220	1885	
Total	316	13,982	.....	.....	.....	.....	\$1,801,714	....

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

TABLE 2.—COST OF MAINTAINING SCHOOLS

FOR SCHOOL YEAR 1914-15.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	Total.
	Instruction and Supervision.	Supplies.	Care.	
High	\$85,236 23	\$11,611 84	\$10,595 06	\$107,443 13
Prescott	12,602 76	1,031 37	1,918 67	15,552 80
Knapp	13,311 95	761 78	1,839 34	15,913 07
Pope	11,687 65	744 62	1,884 00	14,316 27
Bell	9,882 21	559 87	1,634 34	12,076 42
Edgerly	12,484 66	915 99	1,656 83	15,057 48
Glines	14,337 22	693 07	2,352 55	17,382 84
Forster	16,588 59	2,394 99	3,207 30	22,190 88
Bingham	16,411 00	841 31	2,111 46	19,363 77
Carr	16,970 47	836 01	2,311 61	20,118 09
Morse	12,521 94	791 32	1,719 43	15,032 69
Brown	10,882 15	651 77	1,574 58	13,108 50
Highland	12,733 45	706 24	1,932 62	15,372 31
Hodgkins	12,520 47	738 54	1,511 14	14,770 15
Cutler	12,206 40	822 04	2,264 53	15,292 97
Bennett	10,242 94	514 18	2,161 80	12,918 92
Hanscom	10,565 50	477 77	1,391 69	12,434 96
Proctor	6,344 71	379 14	1,463 74	8,187 59
Burns	7,905 36	389 43	1,586 13	9,880 92
Lowe	6,816 88	245 74	1,410 54	8,473 16
Baxter	5,425 04	225 80	1,238 37	6,889 21
Perry	5,009 60	206 25	1,352 38	6,568 23
Cummings	3,353 59	180 55	1,226 86	4,761 00
Durell	3,272 84	156 32	993 29	4,422 45
Lincoln	2,807 36	381 87	1,252 28	4,441 51
Atypical	1,744 09	84 26	273 46	2,101 81
Boys' Vocational	6,554 75	992 52	1,367 53	8,914 80
Girls' Vocational	7,605 18	388 35	1,442 02	9,435 55
Evening	9,556 09	665 79	1,334 33	11,556 21
Total	\$357,581 08	\$29,388 73	\$57,007 88	\$443,977 69

TABLE 3.—PER CAPITA COST OF MAINTAINING SCHOOLS
FOR SCHOOL YEAR 1914-15.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$42 66	\$5 81	\$5 30	\$53 77
Prescott	23 87	1 95	3 63	29 45
Knapp	26 52	1 52	3 66	31 70
Pope	23 10	1 47	3 72	28 29
Bell	23 87	1 35	3 95	29 17
Edgerly	22 87	1 68	3 03	27 58
Glines	23 74	1 15	3 89	28 78
Forster	22 79	3 29	4 41	30 49
Bingham	22 39	1 15	2 88	26 42
Carr	24 81	1 22	3 38	29 41
Morse	24 75	1 56	3 40	29 71
Brown	24 02	1 44	3 48	28 94
Highland	24 25	1 35	3 68	29 28
Hodgkins	24 22	1 43	2 92	28 57
Cutler	23 47	1 58	4 35	29 40
Bennett	23 66	1 19	4 99	29 84
Hanscom	19 14	87	2 52	22 53
Proctor	19 89	1 19	4 59	25 67
Burns	21 02	1 04	4 22	26 28
Lowe	19 82	71	4 10	24 63
Baxter	23 38	97	5 34	29 69
Perry	23 30	91	6 29	30 50
Cummings	19 45	1 04	7 05	27 54
Durell	20 20	96	6 13	27 29
Lincoln	17 33	2 36	7 73	27 42
Atypical	58 14	2 81	9 11	70 06
Evening	9 28	65	1 30	11 23
Gram. and primary	23 10	1 46	3 93	28 49
All schools	24 90	2 05	3 92	30 85
Boys' Vocational	111 10	16 82	23 17	151 09
Girls' Vocational	93 89	4 79	17 80	116 48

**TABLE 4.—ANNUAL COST OF MAINTAINING THE SCHOOLS
FOR A SERIES OF YEARS.**

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

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

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

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

TABLE 5.—ANNUAL COST PER CAPITA OF MAINTAINING SCHOOLS

FOR A SERIES OF YEARS.

[Based on the average membership.]

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

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

TABLE 6.—AMOUNT SPENT ANNUALLY FOR ALL SCHOOL PURPOSES

FOR A SERIES OF YEARS.

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

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

TABLE SHOWING THE NUMBER OF CHILDREN IN EACH WARD OF THE AGES 5 TO 15 INCLUSIVE, BY SEXES, COMPILED FROM THE SCHOOL CENSUS.

September 1, 1915.

Ward	Illiterates	5 Years		6 Years		7 Years		8 Years		9 Years		10 Years		11 Years		12 Years		13 Years		14 Years		15 Years		TOTAL		TOTAL
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
1.....	..	126	126	133	134	110	124	117	94	103	117	103	101	120	116	116	89	84	100	93	106	96	89	1201	1196	2397
2.....	3	99	111	174	144	157	159	160	154	136	153	131	135	132	130	129	161	117	123	100	110	73	92	1408	1472	2880
3.....	..	47	43	58	46	55	61	60	65	50	44	48	59	46	44	46	56	56	49	57	63	54	55	577	585	1162
4.....	..	81	68	64	56	59	64	74	64	63	55	62	59	55	60	54	67	53	51	40	53	47	57	652	654	1306
5.....	..	114	116	109	111	90	109	103	119	107	103	102	88	97	86	109	90	92	111	84	100	78	90	1085	1123	2208
6.....	5	137	123	130	109	127	147	122	112	122	100	101	109	104	113	110	110	113	113	104	117	101	73	1271	1226	2497
7.....	5	135	119	133	134	148	144	131	158	120	119	95	135	111	114	135	130	107	119	107	116	85	111	1307	1399	2706
Total	13	739	706	801	734	746	808	767	766	701	691	642	686	665	663	699	703	622	666	585	665	534	567	7501	7655	15156

TABLE SHOWING THE NUMBER OF PUPILS IN SCHOOL OF THE AGES 5 TO 15 INCLUSIVE, BY SEXES, COMPILED FROM THE SCHOOL REGISTRATION.

October 1, 1915.

	5 Years		6 Years		7 Years		8 Years		9 Years		10 Years		11 Years		12 Years		13 Years		14 Years		15 Years		TOTAL		TOTAL Male and Female.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
Public Schools..	134	142	584	572	634	644	638	681	635	570	600	564	584	602	609	613	564	526	519	572	417	474	5918	5960	11878
Parochial Schools	67	91	152	141	132	147	101	94	98	136	95	94	96	92	89	106	73	96	63	71	23	48	989	1116	2105
All Schools....	201	233	736	713	766	791	739	775	733	706	695	658	680	694	698	719	637	622	582	643	440	522	6907	7076	13983

Number of Boys and Girls, 6 to 15 inclusive, according to School Census:—	801	734	746	808	767	766	701	691	642	686	665	663	699	703	622	666	585	665	534	567	6762	6949	13711
Number of Boys and Girls, 6 to 15 inclusive, according to School Registration:—	736	713	766	791	739	775	733	706	695	658	680	694	698	719	637	622	582	643	440	522	6706	6843	13549



TABLE 8.—ATTENDANCE OF THE PUBLIC SCHOOLS FOR THE SCHOOL YEAR 1914-15.

Rooms Used, or 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 . . .	2,258	1,998	1,894	94.8	1,955	1,911	25*
12	Prescott . . .	608	528	496	94.0	526	528	44
12	Hanscom . . .	628	552	514	93.2	544	560	47
12	Bennett . . .	509	433	400	92.5	450	427	37
6	Baxter . . .	290	232	218	93.8	246	226	38
13	Knapp . . .	563	502	480	95.6	513	511	39
6	Perry . . .	248	215	202	93.9	210	223	37
12	Pope . . .	545	506	479	94.6	497	505	42
10	Bell . . .	440	414	395	95.3	410	403	40
4	Cummings . . .	201	174	160	91.5	183	158	39
12	Edgerly . . .	626	546	513	93.9	557	518	43
13	Glines . . .	694	604	566	93.7	616	587	41
17	Forster . . .	821	728	688	94.6	745	716	42
16	Bingham . . .	814	733	687	93.8	745	728	46
18	Carr . . .	756	684	653	95.4	684	671	37
12	Morse . . .	565	506	480	94.8	524	498	42
7	Proctor . . .	345	319	303	94.8	310	321	53
4	Durell . . .	185	162	152	93.8	167	166	42
8	Burns . . .	415	376	352	93.7	380	335	42
10	Brown . . .	516	453	428	94.6	450	437	44
12	Highland . . .	564	525	507	96.7	513	525	44
12	Hodgkins . . .	570	517	497	96.0	506	504	42
12	Cutler . . .	567	520	497	95.5	521	492	41
4	Lincoln . . .	194	162	150	92.5	144	160	40
8	Lowe . . .	390	344	322	93.7	338	314	39
2	Atypical . . .	29	30	27	89.6	28	31	16
4	Boys' Vocational	64	59	56	95.0	64	49	....
6	Girls' Vocational	100	81	73	90.3	85	70	....
308	Total	14,505	12 903	12,189	94.5	12,911	12,574	
306	Total for 1913-14	13,932	12,320	11,610	94.2	12,438	12,656	

* Per teacher.

**TABLE 9.—STATISTICS OF HIGH SCHOOL FOR SCHOOL YEAR
SEPTEMBER 9, 1914, TO JUNE 25, 1915.**

Number of teachers, including head master	75
Number of days school kept	184
Number enrolled	2,258
Average number belonging	1,998
Average daily attendance	1,894
Per cent. of attendance	94.8
Tardiness	3,334
Dismissals	1,086
In Class 1919-A February, 1915	277
June	249
Per cent. of loss	10.1
In Class 1918-B September, 1914	509
June	442
Per cent. of loss	13.2
In Class 1918-A September, 1914	175
June	164
Per cent. of loss	6.3
In Class 1917-B September, 1914	388
June	336
Per cent. of loss	13.4
In Class 1917-A September, 1914	133
June	118
Per cent. of loss	11.3
In Class 1916-B September, 1914	306
June	284
Per cent. of loss	7.2
In Class 1916-A September, 1914	106
June	92
Per cent. of loss	13.2
In Class 1915-B September, 1914	289
June	286
Per cent. of loss	1.0
In Class 1915-A September, 1914	37
February	31
Per cent. of loss	16.2
Special students, September, 1914	17
June	23
Total, September, 1914	1,960
June	1,994
Per cent. of gain	1.7
Number of graduates, male	129
Number of graduates, female	182
Total	311
Average age, male graduates	18 yrs. 3 mos.
Average age, female graduates	18 yrs. 4 mos.
Number entering college	35
Number of graduates entering technical schools	20
Number of graduates entering normal schools	24
Cost of instruction	\$83,724 52
Cost of supplies	10,775 28
Total cost	94,499 80
Per capita cost of instruction	41 90
Per capita cost of supplies	5 39
Total cost per capita	47 29

TABLE 10.—PUPILS BY GRADES, JUNE, 1915.

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.	
		Men.	Women.		Boys.	Girls.	Total.	Sept.	Feb.
			Regular.	Assistants.					
High	Special . . .	....	....	....	13	10	23		
"	Thirteenth . .	....	....	....	158	220	378		
"	Twelfth . . .	....	....	....	174	228	402		
"	Eleventh . . .	....	....	....	235	267	502		
"	Tenth . . .	....	....	....	271	335	606		
	Total . . .	24	53	....	851	1,060	1,911		
Grammar	Ninth . . .	11	23	....	402	442	844		
"	Eighth . . .	....	23	....	462	452	914		
"	Seventh . . .	....	26	1	569	585	1,154		
"	Sixth . . .	....	30	....	586	598	1,184		
"	Fifth . . .	....	24	....	526	501	1,027		
"	Fourth . . .	....	27	....	537	502	1,039		
	Total gram-mar . . .	11	153	1	3,082	3,080	6,162		
Primary	Third . . .	....	30	3	672	675	1,347		
"	Second . . .	....	30	1	672	670	1,342		
"	First . . .	....	33	5	721	680	1,401	966	367
	Total pri-mary . .	....	93	9	2,065	2,025	4,090		
	Total gram-mar and primary .	11	246	10	5,147	5,105	10,252		
	Kindergarten .	....	4	4	113	90	203		
	Specials . . .	5	12	....	27	31	58		
	Cadets . . .	....	8	....	....	....	....
	Atypical . . .	....	2	....	14	17	31		
	Boys' Vocational	6	....	....	49	....	49		
	Girls' Vocational	....	10	....	....	70	70		
	Grand Total .	46	335	14	6,201	6,373	12,574		

**TABLE 11.—PUPILS IN HIGH AND GRAMMAR SCHOOLS,
1914—1915.**

	High School.	Grammar and Primary Schools.	Kinder- gartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment	2,258	11,756	298	64	100	29	14,505
Average membership	1,998	10,698	207	59	81	30	12,903
Average attendance	1,894	9,951	188	56	73	27	12,189
Per cent. of attendance	94.8	93.0	91.0	95.0	90.3	89.6	94.5
Number cases of tardiness	3,334	4,235	...	45	35	27	8,000
Number cases of dismissal	1,036	2,529	...	5	..	6	3,626
Number cases of punishment . . . . .	....	180	...	...	..	1	181
Membership, October, 1914	1,955	10,562	217	64	85	28	12,911
Membership, June, 1915	1,911	10,310	203	49	70	31	12,574

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

School.	1912-13		1913-14		1914-15.	
	Sept.	Feb.	Sept.	Feb.	Sept.	Feb.
Prescott	44	8	33	13	58	11
Hanscom	72	23	81	24	82	24
Bennett	38	30	76	21	65	9
Baxter	33	11	40	14	32	17
Knapp	34	13	31	14	9	15
Perry	37	10	43	1	33	12
Pope	33	7	29	11	42	6
Bell . . . . .	..	..	..	..	..	..
Cummings	55	22	50	9	61	15
Edgerly	37	17	35	15	33	10
Glines	55	17	41	17	42	31
Forster	66	23	60	21	42	21
Bingham	54	32	64	21	57	27
Carr	39	19	50	21	55	16
Morse	49	17	52	21	44	23
Proctor	41	13	44	10	43	8
Durell	28	12	24	16	3	8
Burns	44	13	47	25	58	27
Brown	47	26	16	16	47	20
Highland . . . . .	..	..	..	..	..	..
Hodgkins	53	27	54	14	50	25
Cutler	20	22	55	26	0	0
Lincoln . . . . .	..	..	..	..	45	30
Lowe	39	34	43	22	65	12
Total	918	396	968	352	966	367
Grand Total	1,314		1,320		1,333	

TABLE 13.—GRAMMAR SCHOOL GRADUATES, 1915.

SCHOOLS.	Number receiving Diplomas.	Number Certified for High School.		Number Entering High School.	
		Conditionally.	Unconditionally.	Conditionally.	Unconditionally.
Prescott	40	6	34	6	25
Knapp	70	2	68	1	52
Pope	55	15	36	11	30
Bell	61	5	54	2	47
Edgerly	67	6	59	5	50
Glines	67	12	55	9	38
Forster	77	15	59	15	52
Bingham	58	0	56	0	42
Carr	46	3	42	1	29
Morse	29	2	27	2	25
Brown	51	1	50	1	42
Highland	105	21	82	18	70
Hodgkins	33	6	27	3	26
Cutler	30	18	9	12	5
Total	789	112	658	86	533

TABLE 14.—COMPARATIVE STATISTICS OF THE ATTENDANCE DEPARTMENT FOR THE SCHOOL YEAR 1914—1915.

	1913.	1914.	1915.	Change.
Number of visits to the schools	831	891	823	—68
Number of visits to the homes	1,534	1,712	1,455	—257
Number of cases investigated	1,674	1,826	1,562	—264
Number of cases found to be truancy or absenteeism	449	431	405	—26
Number of different pupils who were truants or habitual absentees	331	321	311	—10
Number who were truants for the first time	251	259	244	—15
Number who were truants for the second time	54	38	44	+6
Number who were truants for three or more times	26	24	23	—1
Number of girls who were truants or absentees	42	53	52	—1
Number of cases of parental neglect of children found and reported to charitable institutions	5	6	6	0
Number of cases of removal of children from the custody of parents by order of the court . . . . .	..	1	3	+2
Number of visits to mercantile or manufacturing establishments	64	61	58	—3
Number of minors found to be working without employment certificates	43	76	66	—10
Number of employment certificates issued to boys	315	408	210	—198
Number of employment certificates re-issued to boys . . . . .	..	..	115	..
Number of employment certificates issued to girls	261	269	103	—166
Number of employment certificates re-issued to girls . . . . .	..	..	64	..
Number of educational literate certificates issued to minors over 16 years of age	673	2,967	1,158	—1,809
Number of newspaper licenses issued to boys 12 to 16 years of age	140	197	194	—3
Number of transfer cards investigated	1,412	1,492	1,401	—91
Number of truants in the County Training school at the close of the year	13	15	16	+1
Amount paid for board of truants	847.43	718.40	941.86	
Salary of Attendance Officer, Benjamin R. Jones	1,350.00	1,350.00	1,350.00	

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

For School Year 1914—1915.

Disposition of truancy and absenteeism cases:—

Warned and returned to school.....	192
Transferred to other schools.....	7
Obtained certificates (14 to 16 years).....	31
Left school (over 16 years).....	25
Removed from city.....	24
Brought before court and returned to school.....	5
Brought before court and sent to Training School.....	13
Appealed to Superior Court and placed on probation.....	4
Parent brought before court for keeping child out of school (convicted)	1
Sent to Lyman School.....	1
Sent to School for Feeble Minded.....	1
Given in charge of Society Prevention of Cruelty to Children	3
Returned to Training School, violation of parole.....	2
Pending, 1 being kept out of school, 1 absentee.....	2

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

GRADE.	BY AGES.											Totals.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.	4	5	1	1	..	..	..	..	..	..	..	11
II.	1	8	12	8	1	1	..	..	..	..	..	31
III.	2	10	7	3	1	..	..	1	1	1	26
IV.	1	9	8	7	4	2	1	7	..	39
V.	1	1	7	4	6	3	3	1	26
VI.	2	11	6	12	8	7	..	46
VII.	2	10	15	20	20	2	69
VIII.	4	13	21	12	1	51
IX.	1	4	7	1	13
X.	2	3	14	10	29
XI.	1	1	10	12
XII.	12	12
XIII.	2	2
Vocational 1st yr.	7	13	..	20
" 2d yr.	1	1	2
Ungraded	1	2	2	1	1	1	1	3	4	..	16
Total . . .	5	16	26	28	16	30	29	52	72	90	41	405

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

School	No. of Truants
High	53
Prescott	24
Hanscom	9
Bennett	24
Baxter	4
Knapp	4
Perry	6
Pope	25
Bell	17
Cummings	2
Edgerly	15
Glines	11
Forster	11
Bingham	6
Carr	11
Morse	11
Proctor	3
Durell	3
Burns	1
Brown	7
Highland	14
Hodgkins	10
Cutler	5
Lowe	4
Vocational School for Boys	19
Bell Evening	2
Highland Evening	1
Parochial	49
Not attending school; found on street	54
Total	<u>405</u>

TABLE 15.—ATTENDANCE IN ELEMENTARY EVENING SCHOOLS FROM OCTOBER, 1914, TO MARCH, 1915.

		Bell.	Highland.	Total.
Enrolled	Male	543	103	646
	Female	169	53	222
	Total	712	156	868
Ave. membership	Male	245	66	311
	Female	94	32	126
	Total	339	98	437
Ave. attendance	Male	189	51	240
	Female	73	25	98
	Total	262	76	338
Per cent. Att. out of No. belong- ing		77.3	77.7	77.3
Per cent. Att. out of No. en- rolled		36.8	48.7	38.9
Ave. No. of teachers	Male	2	3	5
	Female	20	3	23
	Total	22	6	28
No. of sessions		77	77	
Teachers, cost of		\$3,274.00	\$1,027.00	\$4,301.00
Janitors, fuel, supplies and lights, cost of		439.64	309.57	749.21
Total		\$3,713.64	\$1,336.57	\$5,050.21
Cost per pupil per evening		\$0.142	\$0.177	\$0.15
Cost per evening		48.23	17.36	65.59
Cost per pupil in ave. membership		10.95	13.64	11.56
Cost per pupil in ave. attend- ance		14.17	17.59	14.94

TABLE 15 (Concluded).—Evening High School, Season of 1914—1915.

	Male	Female	Total
Enrolled	566	359	925
Average membership	277	208	485
Average attendance	235	156	391
Number of teachers.....	16	11	27
Number of sessions.....			57
Cost of instruction.....		\$4,496 00	
Cost of janitors, fuel, supplies and light.....		989 38	
Total cost.....		<u>\$5,485 38</u>	
Cost per pupil per evening.....		\$0 198	
Average attendance: October, 547; November, 532; December, 445; January, 355; February, 324; March, 391.			

TABLE 16.—GRAMMAR SCHOOL GRADUATES

FOR A SERIES OF YEARS.

YEAR.	Prescott.	Bell.	Forster.	Morse.	Highland.	Egerly.	Pope.	Knapp.	Hodgkins.	Glines.	Carr.	Bingham.	Brown.	Cutter.	Total.	Average Membership of Grammar and Primary Schools.	Per cent. of Average Membership	Entered High School.	Per cent. Entering of those Graduating.
1890	54	106	45	56	57										318	6,062	5.24	184	57.86
1891	44	73	41	55	44	39									296	6,035	4.90	199	67.23
1892	41	36	75	49	45	49	36	39							370	6,525	5.67	228	61.62
1893	40	60	48	63	67	46	36	38							398	6,674	5.97	240	60.30
1894	39	29	79	66	68	41	35	32							389	6,600	5.89	253	65.04
1895	36	32	58	63	73	42	36	34							374	6,955	5.37	255	68.18
1896	38	34	72	38	70	46	37	35							370	7,201	5.13	281	76.00
1897	34	39	50	48	41	29	30	25	45	27					368	7,602	4.84	273	74.19
1898	36	43	31	46	36	50	36	28	41	35					382	8,029	4.75	281	73.56
1899	37	50	62	48	49	40	34	34	39	37					468	8,351	5.60	345	73.72
1900	36	45	43	31	43	47	44	34	42	36	38				434	8,689	4.99	317	73.00
1901	34	38	70	43	72	47	43	38	41	35	36				497	8,811	5.64	372	74.80
1902	41	48	61	45	67	46	35	31	32	40	51				497	9,328	5.33	350	70.40
1903	34	45	62	35	65	51	28	34	52	31	47				484	9,362	5.17	354	73.14
1904	31	35	84	46	79	44	36	38	40	36	43				512	9,739	5.26	367	71.68
1905	40	40	74	44	85	47	42	48	61	36	58	31			606	10,298	5.88	463	76.40
1906	35	54	67	44	109	49	44	64	58	40	43				640	10,209	6.22	474	74.10
1907	37	62	67	44	126	81	36	56	59	36	60				725	10,440	6.94	561	77.40
1908	44	51	71	71	88	50	64	66	61	42	58	35	40		742	10,410	7.13	551	74.26
1909	27	59	73	44	95	82	48	70	55	43	66	36	43		741	10,582	7.00	546	73.68
1910	30	53	72	48	96	68	56	80	62	32	57	39	50		743	10,451	7.10	521	70.12
1911	35	69	82	63	93	48	43	82	73	75	59	37	46		805	10,101	7.97	609	75.65
1912	40	75	79	56	90	70	62	79	62	33	43	47	45		781	9,806	7.96	538	68.88
1913	41	34	71	44	113	51	39	59	38	26	43	46	47	39	691	9,961	6.94	533	77.13
1914	62	72	66	38	85	65	47	58	26	28	61	51	47	35	741	10,098	7.32	587	79.21
1915	40	61	77	29	105	67	55	70	33	67	46	58	51	30	789	10,765	7.33	619	78.45
	1,006	1,343	1,680	1,257	1,961	1,295	1,002	1,172	920	761	842	449	369	104	14,161	229,084	6.18	10,301	72.74

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

* June.

TABLE 18.—MEMBERSHIP, ETC., OF HIGH SCHOOL
FOR A SERIES OF YEARS.

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

*For school year ending June 30.

**TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING
JANUARY 22, 1915.**

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	1,625	1,305	52	246	22	3	2
II	1,361	1,142	66	103	50	3	11
III	1,311	1,072	93	132	14	10	7
IV	1,047	779	115	88	65	12	4
V	1,082	792	180	94	16	3	1
VI	1,232	935	186	99	12	16	2
VII	1,185	849	215	105	16	1	3
VIII	983	661	196	97	29	3	2
IX	787	618	133	25	11	7	3
Total	10,613	8,153	1,236	989	235	58	35

Percentage of Promotions for Semester Ending January 22, 1915.

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	100	80.3	3.2	15.1	1.4	0.1	2.2
II	100	83.9	4.8	7.6	3.7	0.2	11.8
III	100	81.8	7.1	10.0	1.1	0.7	8.9
IV	100	74.4	10.9	8.4	6.3	1.2	3.1
V	100	73.2	16.7	8.7	1.4	0.2	0.6
VI	100	75.9	15.1	8.1	0.9	1.3	0.9
VII	100	71.7	18.1	8.9	1.3	0.1	1.4
VIII	100	67.3	19.9	9.9	2.9	0.3	1.1
IX	100	78.5	16.9	3.2	1.4	0.8	2.4
Average	100	76.9	11.6	9.3	2.2	0.5	2.7

TABLE 19.—PROMOTIONS FOR SCHOOL SEMESTER ENDING JUNE 25, 1915.

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	1,401	1,131	78	177	15	3	1
II	1,384	1,147	108	107	22	7	3
III	1,371	1,102	115	97	57	15	2
IV	1,059	806	115	79	59	3	2
V	1,086	840	167	68	11	3	6
VI	1,195	899	183	102	11	..	3
VII	1,079	766	198	103	12	8	10
VIII	929	656	171	91	11	2	11
IX	853	644	136	61	12	7	..
Total	10,357	7,991	1,271	885	210	48	38

Percentage of Promotions for Semester Ending June 25, 1915.

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	100	80.9	5.5	12.6	1.0	0.2	1.9
II	100	82.9	7.8	7.7	1.6	0.5	4.6
III	100	80.3	8.4	7.1	4.2	1.1	2.2
IV	100	76.1	10.9	7.5	5.5	0.3	1.7
V	100	77.3	15.4	6.3	1.0	0.3	3.3
VI	100	75.2	15.3	8.5	1.0	...	1.6
VII	100	71.0	18.4	9.5	1.1	0.8	4.7
VIII	100	70.6	18.4	9.8	1.2	0.2	5.6
IX	100	75.5	15.9	7.2	1.4	0.8	...
Average	100	77.2	12.3	8.5	2.0	0.5	3.1

TABLE 19-A.—DISTRIBUTION OF PUPILS BY AGES, OCTOBER 1, 1915.

GRADE.	AGE.													Total.	Above Normal Age.	Per cent. Above Normal Age.				
	4	5	6	7	8	9	10	11	12	13	14	15	16				17	18	19	20 or over
Kgn....	4	206	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	212	.....	.....
1.....	67	1,047	316	45	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,488	58	3.89
2.....	3	104	830	83	357	19	4	1	.....	.....	.....	.....	.....	.....	.....	.....	1,402	108	7.70
3.....	4	124	730	359	100	27	10	1	1	1	.....	.....	.....	.....	.....	1,357	140	10.32
4.....	6	164	576	295	108	36	21	3	5	.....	.....	.....	.....	.....	1,214	173	14.25
5.....	18	147	466	234	129	55	13	3	.....	1	.....	.....	.....	1,066	201	18.86
6.....	1	24	238	372	248	124	40	20	2	.....	.....	.....	.....	1,069	186	17.40
7.....	32	367	381	212	127	36	1	.....	.....	.....	.....	1,156	164	14.19
8.....	4	64	340	308	242	78	18	3	.....	.....	.....	1,057	99	9.37
9.....	5	52	267	268	132	44	6	.....	.....	.....	774	50	6.46
10.....	12	88	259	256	112	35	5	2	.....	769	42	5.46
11.....	4	87	228	157	59	14	1	.....	550	15	2.73
12.....	11	63	168	120	35	4	2	403	6	1.49
13.....	12	60	148	101	28	6	355	6	1.69
P. G....	3	9	1	1	14	.....	.....
Total.	4	276	1,156	1,277	1,315	1,201	1,154	1,182	1,209	1,080	1,051	835	562	375	164	36	9	12,886	.....	.....
Under Normal Grade.....	45	95	119	140	176	201	184	144	65	45	19	7	8	.....	.....	.....
Per cent. under Normal Grade.....	3.42	7.91	10.31	11.84	14.56	18.61	17.51	17.25	11.57	12.00	11.59	19.44	88.89	.....	.....	.....

This table does not include children in special classes or vocational schools.

TABLE 19-B.—DISTRIBUTION OF PUPILS, 14 BUT NOT 15, OCTOBER 1, 1915.

	NUMBER OF GRADES													Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13		
High.....	259	87	11	0	357	
Prescott.....	1	1	3	7	15	23	..	..	..	..	50	
Hanscom.....	0	
Bennett.....	2	..	..	..	..	..	..	..	..	2	
Baxter.....	0	
Knapp.....	2	14	8	20	..	..	..	..	44	
Perry.....	1	1	..	..	..	..	..	..	..	..	2	
Pope.....	5	16	17	25	..	..	..	..	63	
Bell.....	2	14	14	15	..	..	..	..	45	
Cummings.....	0	
Edgerly.....	1	1	5	16	14	..	..	..	..	37	
Glines.....	1	5	17	16	..	..	..	..	39	
Forster.....	10	25	26	..	..	..	..	61	
Bingham.....	3	3	12	17	19	..	..	..	..	54	
Carr.....	1	3	8	6	17	29	..	..	..	..	64	
Morse.....	1	1	7	25	17	..	..	..	..	51	
Proctor.....	4	1	..	..	..	..	..	..	5	
Durell.....	0	
Burns.....	4	..	..	..	..	..	..	4	
Brown.....	1	3	8	..	..	..	..	12	
Highland.....	3	7	31	35	..	..	..	..	76	
Hodgkins.....	6	11	18	9	..	..	..	..	44	
Cutler.....	1	1	7	19	12	..	..	..	..	40	
Lincoln.....	0	
Lowe.....	1	..	..	..	..	..	..	..	..	..	..	1	
*Specials.....	40	..	..	..	..	..	..	..	..	..	..	..	..	40
Total by grades.....	40	0	0	1	3	13	40	127	242	268	259	87	11	0	1,091
P. C. by ".....	.037	0	0	.001	.003	.012	.036	.116	.221	.246	.238	.08	.01	0	1.00

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

TABLE 20.— RESIGNATIONS OF TEACHERS, 1915.

SCHOOL.	Teacher.	Resignation Took Effect.	In Service.
High	Roy W. Hatch	June 30, 1915	6 years
"	Marjorie L. Henry	" " "	1 year
"	Louise B. Hoyle	March, "	1 year 6 mos.
"	Nancy B. Kimball	June 30, "	5 years
"	Howard W. Poor	" " "	19 years
"	Anna Pushee	" " "	11 years
"	Edward N. White	" " "	3 years
Edgerly	Sophia C. Mague	Feb. 19, "	1 year 6 mos.
Glines	Ellen C. Boynton	Jan. 29, "	23 yrs. 5 mos.
Forster	Jessie L. Paine	June 30, "	9 months
"	Ellen J. Whitcomb	" " "	9 months
Carr	Mary A. Haley	Jan. 29, "	47 yrs. 5 mos.
"	Blanche L. Paine	June 30, "	10 years
"	Dorothy Perry	" " "	1 year
Morse	Helen O. Locke	" " "	3 years
Cutler	Anna L. Brown	" " "	3 years
"	Edna F. Gordon	May, "	2 yrs. 5 mos.
Girls' Vocational	Ruth Meister	June 30, "	9 months
Special	E. Christabel Winslow	April 1, "	2 yrs. 7 mos.

Died: S. Henry Hadley, February 2, 1915.

William A. Whitehouse, June 12, 1915.

TABLE 21.—TEACHERS ELECTED IN 1915.

SCHOOL.	Teacher.	Coming From.	Began Service.	Salary.
High . . .	Fred W. Carrier	Wilmington	Sept. 1915	\$1,200
High . . .	Irving P. Colman	Milford, Conn.	Sept. 1915	1,100
High . . .	Frances C. Hall	Somerville	Feb. 1915	600
High . . .	Joseph I. Horton	Somerville	Sept. 1914	1,000
Bennett . . .	Julia M. Riordan	Somerville	Sept. 1914	450
Edgerly . . .	Berta M. Burnett	Malden	Apr. 1915	750
Glines . . .	Ruth E. Clarke	Medford	June 1915	750
Forster . . .	Anna R. Canfield	Somerville	Sept. 1914	450
Forster . . .	Ethel V. Chisholm	Somerville	Sept. 1914	450
Forster . . .	May A. Daly	Passaic, N. J.	Sept. 1915	700
Forster . . .	Anna R. Walsh	Somerville	Sept. 1914	450
Bingham . . .	Grace M. Lovering	Somerville	Sept. 1913	525
Carr . . .	Eva S. Bent	Everett	Mar. 1915	750
Carr . . .	Bessie I. Berry	Everett	Sept. 1915	750
Burns . . .	Margaret Beattie	Somerville	Sept. 1914	450
Highland . . .	Bessie M. Royce	Malden	Jan. 1915	700
Cutler . . .	Mary L. Ennis	Hillsboro, N. H.	Sept. 1915	650
Cutler . . .	Inez M. Rodgers	Passaic, N. J.	Sept. 1915	750
Boys' V. . . .	Fred P. Carter	Not teaching	Nov. 1914	1,000
Boys' V. . . .	Arthur E. Gordon	Not teaching	Nov. 1914	1,000
Boys' V. . . .	Herbert L. Gregory	Not teaching	Oct. 1915	900
Special . . .	Joseph S. Hawthorne	Pepperell	Apr. 1915	1,000
Special . . .	James P. McVey	Somerville	Mar. 1915	1,700
Special . . .	Ruth L. Whitehouse	Somerville	June 1915	750

TABLE 22.—LEAVE OF ABSENCE OF TEACHERS.

April 26, 1915, Clara B. Parkhurst, until June 30, 1915.
 June 30, 1915, Mabel G. Curtis, for year ending June 30, 1916.
 June 30, 1915, Francis A. Ryan, for year ending June 30, 1916.
 September 8, 1915, Mary C. Buck, for indefinite length of time.

Cadets.

Helen M. Farr	Dorothy L. Lundgren
Agnes M. Keating	Mary L. McKenna
Ethel M. Gross	Florence W. Schroeder
Bessie Thorpe	

TABLE 23.—TRANSFER OF TEACHERS.

TEACHERS.	From	To
Marion F. Orne	High	Knapp
Bessie N. Page	Knapp	High
L. Alice Grady	Glines	Carr
Hazel N. Friend	Forster	Edgerly
Harriet F. Ward	Bingham	Glines
Lillian M. Wentworth	Carr	Lincoln

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	1	0	9	114	123
1888	10	66	52	4	7	9	130	139
1889	10	60	56	4	7	10	127	137
1890	10	78	58	5	7	12	146	158
1891	12	86	63	5	13	12	167	179
1892	13	90	67	5	10	12	173	185
1893	14	88	63	5	19	12	177	189
1894	15	91	66	6	11	12	177	189
1895	28	91	73	5	12	19	186	209
1896	30	102	74	6	14	22	208	230
1897	31	109	85*	6	18	22	227	249
1898	32	112	87*	7	13	23	229	252
1899	36	119	92*	7	9	23	240	263
1900	40	127	96*	7	6	24	249	273
1901	44†	130	94*	7	8	26	257	283
1902	45†	140	91*	7	9	26	266	292
1903	46†	143	96*	7	14	25	281	306
1904	48†	152	98*	7	9	27	285	312
1905	48†	153	100*	7	7	27	288	315
1906	54†	157	99*	7	9	29	297	326
1907	57†	160	97*	9	14	32	305	337
1908	58†	164	97*	10	16	34	311	345
1909	59†	166	99*	10	16	36	314	350
1910	63†	165	87*	13	11	41	298	339
1911	62†	164	86*	20	11	40	303	343
1912	66†	168	84*	22	9	40	309	349
1913	68†	166	91*	28	12	39	326	365
1914	75†	167	99*	30	20	44	347	391
1915	76†	172	100*	31	15	45	349	394

* Including four kindergartners.

† Including two secretaries.

‡ Including one secretary.

TABLE 25.—BOOKS AUTHORIZED FOR USE, 1915.

For High School.*As text-books.*

A First Course in Physics, Milliken & Gale.....	Ginn & Co.
Essentials of Chemistry, with Laboratory Exercises, Hessler & Smith	Benjamin H. Sanborn & Co.
Elementary Biology, Peabody & Hunt.....	Macmillan Co.
A Spanish Grammar (complete edition), Olmsted & Gordon,	Henry Holt & Co.
A Spanish Commercial Reader, E. S. Harrison.....	Ginn & Co.
All Spanish Method, First Book, Guillermo Hall..	World Book Co.
All Spanish Method, Second Book, Guillermo Hall,	World Book Co.
Textiles, William H. Dooley.....	D. C. Heath & Co.
Shop Problems in Mathematics, Breckenridge, Mersereau, & Moore	Ginn & Co.
Modern Business Punctuation (without exercises), Benjamin J. Campbell	Bobbs-Merrill Co., Indianapolis
Exercises in Plane Geometry.....	Newton & Lynde
Fabulæ Faciles, Ritchie, edited by Kirkland,	Longmans, Green & Co.
Outlines of European History.....	Ginn & Co.
Part I. Robinson and Breasted.	
Part II. Robinson and Beard.	
American History, D. S. Muzzey.....	Ginn & Co.

For High and Forster Intermediate Schools.*As text-book.*

Essentials of Latin, Henry Carr Pearson.....	American Book Co.
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For Elementary Schools.*As text-book.*

Progressive Steps in Writing, Farley, Whitehouse & Gunnison,	Silver, Burdett & Co.
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TABLE 26.—GRADUATION EXERCISES.**High School.**

The first high school class to graduate in January held their graduation exercises in the High School Hall on Thursday, January 21, 1915, 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.
High School Orchestra, John Chipman, Leader.
2. Singing.
Chorus "Oh, Italia, Beloved," (from "Lucretia Borgia")
Donizetti
3. Prayer.
Rev. Ernest Lyman Mills, Ph. D., Pastor of the First Methodist
Episcopal Church, Somerville.
4. Essay.
"Opportunities of Youth,"
Eleanor J. Sutherland.
5. Singing.
"The American Hymn." Keller
6. Address.
"Courtesy,"
Walter F. Coleman.
7. Class Ode.
Eugene B. Frisby.
8. Singing of Class Ode.
9. Presentation of Diplomas.
George E. Whitaker, Chairman of School Committee.
10. Postlude.
High School Orchestra.
Singing under the direction of S. Henry Hadley, Teacher of
Music in the Public Schools.

LIST OF GRADUATES.

January, 1915.

Marguerite Freeman Atwood	Alma Joy Wood
Jennie Rose Bernson	Esther Belle Wyman
Isabelle Alexandra Brown	
Lucile Meredith Cobb	William Francis Bennett, Jr.
Josephine Agnes Donahue	Walter Francis Coleman
Doris Dewey Farr	Earl Isaac Cushing
Marcella Mary Garrick	Myrton Files Evans
Mary Margaret Hart	Eustace Bridge Fiske
Ethel Eleanor Lacey	Eugene Bruen Frisby
Lydia Mildred Lindgren	George Albert Kendall
Margaret Florence Malcomson	John Thomas Robinson
Hazel Florence Bates Morrill	Ralph Leslie Rood
Heleña Frances Nangle	Carl Victor Sammet
Margaret Ethel Rose	Raymond Cameron Smith
Eleanor Jane Sutherland	Harold Van Ummersen
Mae Gordon Weldon	Joseph Patrick Walsh

The June graduation exercises of the high school occurred on Thursday, June 24, in the High School Hall.

Order of Exercises.

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

1. Overture.
Processional March. D. Ertl
High School Orchestra, John Chipman, Leader.
2. Prayer.
Rev. William H. Dyas, Pastor of the Grace Baptist Church,
Somerville.
3. Singing.
"Prayer of Thanksgiving." Kremser
4. Oration.
"Perseverance,"
Helen V. Anderson.
5. Selection from "Carmen." Bizet
High School Orchestra.
6. Address to Graduates.
His Honor, Mayor Cliff.
7. Singing.
"Send Out Thy Light." Gounod
8. Oration.
"The New Agriculture,"
Donald B. Smith.
9. Singing.
Class Ode. (Written by Marguerite Danforth.)
10. Presentation of Diplomas to Girls.
11. Violin Solo.
"Berceuse," from "Jocelyn." Godard
Harry Berman.
12. Presentation of Diplomas to Boys.
13. Singing.
Triumphal March from "Aida." Verdi
14. Postlude.
Finale, "Aida." Verdi
High School Orchestra.

LIST OF GRADUATES

June, 1915.

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

*Martha Aldrich	Catherine Julia Burke
*Helen Victoria Anderson	Dorothy Sayward Calder
Irene Ethel Andrews	Mabel Campbell
Edna Dorothy Atwood	Margaret Henrietta Campbell
Ruth Evelyn Babcock	Bessie Geneva Carpenter
*Evelyn Lillian Bailey	Agnes Margaret Carroll
Martha Brown Baker	Ethel Grace Carvell
Florence Irene Barnes	Ruth Gertrude Chamberlin
Caroline Harriett Bennett	Mary Agnes H. Chapman
Dorothy Geneva Bowers	*Elsie Marie Chick
Elsie Macdonald Bremner	*Marion Spring Clark
Margaret Mary Brenner	Alice Rose Clarke
Margaret Mary Bryan	Mae Jackson Clouse
Esther Pamela Bryant	Martha Jane Conway
Evelyn Josephine Bucknam	Margaret Manning Cousens

Hazel Effie Craft	Cordelia Bates Hodgdon
Helen Elizabeth Crane	Doris Orne Humiston
Doris Bonta Cresto	Jennie Louise Hunt
Theresa Rose Crocker	Carita Beryl Hunter
Dorothy Veronica Cull	Helen Gertrude Ireland
Alice Margaret Cumming	Marjorie Winthrop Jackson
*Lutina Louisa Cunha	Blanche Lillian Jolley
Marian Worth Curtis	Eleanor Webster Jones
Florence Bickford Dalton	Ruth Veletta Jones
Marguerite Danforth	Elmira Mary Jordan
Rita Eleanor Dawson	Gertrude Marie Kelley
Isabel Dearborn	Ellen Margaret Kennedy
Ada May Dennis	Louise Kingman
Helen Gertrude Dewire	Irma Jeannette Knight
Ruth Evangeline Donaldson	Mary Downey Knowles
Agnes Donnelly	Beatrice Apoline Laurent
Theresa Alice Druhan	Helen Gertrude Leavitt
Beatrice Nellie Dugmore	Dorothy Maë Lewis
Mary Agnes Dunleavy	Laura Wright Lewis
Ella Pauline Evenson	Bessie Ruth Lieb
Rose Mary Fenochetti	Florence Sylvia Long
Lewena Margaret F. Fermoyle	Catherine Augusta McLaughlin
Esther Louise Fielding	Elizabeth Loretta Maloney
Elizabeth Agnes Fitzpatrick	Ruby Marion Martin
Margaret Mary Flynn	Laura May Mason
*Olive Flowers Foster	Alva Gertrude Maynard
Lillian Blanche Fowler	*Mary Gertrude McCarthy
Hattie Wright Fraser	Dorothy Mary McCoy
*Mary Lois Frazee	Ruth Forsey McKay
Ruth Gove Fuller	Estelle Mary Hurl McLean
Gertrude Elizabeth Gaddis	Ethel Gertrude McNeill
Ruth Anna Gifford	Mildred Alice McQuinn
Mildred Burton Glawson	Ruth Agnes Miller
Gustina Rose Gnecco	Hazel Thelma Moore
Grace Otis Goodspeed	*Edith Elizabeth Morang
Marion Frances Goss	Dorothy Helen Morris
Helen Louise Goudie	Mildred Muller
Irene Annie Graves	Esther Katherine Murphy
Nina Geraldine Gray	Reta Edith Myers
Thelma Gray	Edna Noyes
Anna Louise Gurvin	Lucy Augusta Ohse
Anna Marion Haggens	Lina Marie Pecorari
Margery Augusta Haggerty	Laura Agatha Perron
Annie Gertrude Haggie	Isabel May Petrie
Ruth Miller Hall	Theresa Agnes Pratt
Margaret Mary Hallion	Rose Agnes Quigley
Madeline Frances Hamblett	Hope Ethel Ramsdell
*Margaret Mary Hanlon	Alice Theresa Reardon
Agnes Ruby Harper	Ethel Reed
Katharine Anna Harrington	Alice Euleta Rice
Edna May Hart	Marion Rich
Doris Abigail Haseltine	Mary Elinor Ritchie
Constance Frances Hastings	Viola Agnes Rooney
Annie Sinclair Henderson	Grace Wilhelmena Sandberg
Ruth Marguerita Henriques	Barbara Sawyer
Florence Herring	Catherine Gertrude Sharkey
Mary Ellen Hession	Mina Sherman
May Edith Hewins	Miriam Althea Sherman
Alice Newcomb Higgins	*Irene Ivers Smith
Viola Mildred Hiltz	*Florence Edna Spaulding

Hazel French Stanley	Edward Fitzpatrick
Mildred Wisdom Stevens	Chester Gerard Flahive
Ruth Marie Stokes	Hugh Joseph Flynn
Bertha Frances Sullivan	Horace Hills Ford
Grace Bond Summers	Francis John Gillis
Marion Bertha Temple	Ernest Armand Giroux
Hazel May Thorpe	Brian Paul Gowen
*Doris Underhill	Theodore Irving Hall
Anna Sarah Walker	Harold Edwin Hamlin
Ethel Hildur Werner	Ernest Lincoln Hayward
Helen Wiley	John Joseph Hogan
Margaret Wiley	Richard Hollis Hopkins
Rizpah Margaret Williams	Charles Herbert Jefferson
Thelma M. Winchenbaugh	Robert Burckes Jones
Ethel Marie Wood	Isaac Lauren Laird
Ruth Stewart Woodbridge	David John Lanigan
Mabel Worcester	Walter Olaf Larsen
Mary Elizabeth Wylie	Alexander John McLellan
Grace Shatswell Young	George Roland MacMaster
	Basil Stuart Macmillan
Warren Lincoln Adams	Frank Anthony Magno
*Howard Franklin Allen	Edgar Alexander Marchant
Willard Day Allen	Bernard Love Maxwell
George Anderson	Maurice Edward McCarthy
Charles David Applin	William Vincent J. McCarthy
Henry Clark Ashton	Albert Chester McMenimen
Leonard Baer, Jr.	Herbert Joseph McNulty
Hyman Baker	Joseph Henry McSweeney
Harold Richardson Bates	George Edward Mitchell
Roy Albert Berg	Charles Earl Moore
Harry Berman	Raymond Douglas Morrison
Anthony Ferdinand Bianchi	Joseph Arthur Mulloney
Jason Frederick Bickford	Joseph Gerard Murphy
James Anthony Bowe	Francis Joseph Nardini
*Harold Chester Breckenridge	Ray Elmer Nichols
*Royden Lyman Burbank	Arvid Leonard Olson
James Thomas Burke	Russell Smith Palmer
*Henry John Burt	David McClure Paul
George Lincoln Callahan	Elmer Knapp Pilsbury
John Joseph Canniff	Harold Lloyd Pinkham
Hall Bryant Carpenter	Forrest Langdon Pitman
Bernard Lorenzo Chapin	*Kenneth Cass Reynolds
John Hale Chipman	David Ashur Rubenstein
Waldo Bishop Clark	Harold Lyman Ryan
Thomas Allerton Cushman	William Reynolds Sanders
Benjamin Davidson	Carroll Whitman Sawyer, Jr.
Curtis Fisher Day	Chester Norwood Shaffer
*Henry Staniford Derby	Robert Henry Sharkey
Eugene Stephen Dinan	Lawrence Leo Shea
George Donovan, 2nd	Frank Leslie Sibley
*Everett Fitz Doten	Albert Laurence Smith
George William Doughty	*Donald Borden Smith
Francis Downing	Thomas Patrick Smith
John Patrick Dromgoole	Louis Specter
Charles Francis Dugan	Allan Westlake Speirs
Clayton Carey Ellis	Ralph Livingstone Stewart
*Morton Scott Enslin	Thomas Hudson Taylor
Albert Reed Fitch	Francis Tiernan
Harold Carlton Fitz	Harold Arnett Todd
William Francis Fitzgerald	John Xavier Tracy

Fred Ellsworth Trefren
 Raymond Martin Vorce
 *Edward Augustus Waldron
 Merrill Gregory Wallace
 Philip Kimball Watson
 Harry Edgar Waugh

Samuel Weiner
 Oscar Gustaf A. Westerberg
 *Charles Edward Westland
 Harold George Wilson
 Clifton Harold Wood

TABLE 27.—VOCATIONAL SCHOOL GRADUATES.

Boys' Vocational School, June, 1915.

(From the Machine Department)

Philip C. Colley	Lewis B. Robie
Stanley B. Frederick	Pearson Trousdale
Joseph A. Harney	Andrew F. Young
Robert P. Paine	

(From the Cabinet Department)

Herbert Bohlin	William Smith
Philip L. Galley	Leo F. Theriault

GRAMMAR SCHOOL GRADUATES.

Grammar school graduations occurred in the several grammar school buildings on January 21 and on June 24.

January, 1915.

Prescott

Ethel May Briggs	Carroll Edwin Hunnewell
Esther Craft	Richard Francis Kelley
Marion Danforth	Lillian McGonnell
Leo Bernard Fisher	Gladys Evelyn Morrill
Raymond L. Head	Mary T. Pedrazzi
John Francis Hudd	

Knapp

Bridie Anne Coakley	Alexander Joseph McKay
Winifred Elizabeth Dewire	Catherine Virginia McGoldrick
Rose Mary Fisher	Allen Joseph Riley
Viola Mae McNamara	Manuel Ferry Vincent
Oliver Arthur Marchant	Ida Paly

Pope

John H. Ahearn	Herbert F. Keefe
Ella Marion Bowman	Mary Helen Lazzaro
Florence M. Carterino	Arthur Mabey
Joseph Frederick Collins	Irene P. McRae
Mary V. Corbett	Marie Louise Meyer
Dominik J. Cusolito	Helen Josephine Pierce
Philip J. Druhan	Hazel C. Quirk
Ruth G. Flanagan	Alice Gladys Sears
Bertha M. Harvey	George E. Smith
John L. Hourihan	James J. Walsh

Bell

Alfred J. Bertelli	Edward Augustus Davenport 2nd
Samuel Bronstein	Annie Isabella Doran
William James Conway	Marjorie Cynthia Fogg

Kenneth A. Frazee
 Mary Arline Gallagher
 Ethel I. Goland
 Edith Hobart Goss
 Vivienne Emma James
 Mildred Homans Maynard
 Joseph Dana Pierce
 Mildred Delphine Rich
 Mary Agnes Roche

Gladys Olive Sargent
 Frederic Warren Smith
 Hilma Swanson
 John Driscoll Sweeney
 Kenneth Webster Whiting
 Lawrence Irving Williams
 Jacob Arthur Winthrop
 Marie Anna Würdemann

Edgerly

Anna Bonanno
 Dorothy M. Booker
 Annie E. Bowl
 Sibella A. Cameron
 John J. Crowley
 Beatrice E. Drake
 Charles W. Gilman
 Emma S. Grove
 E. Mildred Hale
 Henry H. Hochheim
 Robert Hughes
 Bertha Kerner
 Edward M. Kerner

Doris MacDonald
 Hazel A. MacDonald
 James L. Maher
 Arthur S. Miers
 E. Adelaide Morey
 Robert A. Proverbs
 Franklyn R. Staples
 Joseph Stokes
 Earl Waul
 Irene G. Wilson
 Harold M. Wren
 Abraham H. Weene

Glines

Clarence D. Ash
 Maybelle D. Ball
 Malcolm Prentice Bergmann
 Melba O. Cadario
 Dennis Joseph Doherty
 Antonio Eberare
 Norman L. Eddy
 Alfred Ferri
 John Elmer Fisher
 Florence Gladys Gray
 Annie Kiley

Elsie M. Lacey
 A. Herbert MacEachern
 Angelyn E. Marston
 Walter F. Murphy
 Francis A. O'Shaughnessy
 Henry Leslie Pearce
 Esther L. Schleicher
 Raymond Mason Silva
 John F. Vercellini
 John Edward Young

Forster

Manly P. Barber 3rd
 Ralph F. Baxter
 Velma M. Bloomer
 Oscar R. Brown
 Thelma L. Burns
 Alberta F. Caswell
 Dorothy Caswell
 Marion E. Chute
 Vivian C. Davidson
 Joseph Desmond
 James H. Dunton
 Olive Dunton
 R. Bernice Edgar
 Ruth V. Fisher
 Helen R. Goodwin
 Reginald A. Griffith
 C. Harold Guile
 Margaret T. Hession

Myron E. Jensen
 James C. Jones
 Ruth I. Marsters
 A. Edna Mills
 George H. Mulholland
 Clarence H. Peltier
 Douglas B. Pitman
 Helen B. Platt
 Eunice A. Ryan
 Bernard B. Schroeder
 Elsie H. Sibley
 Fred N. Simpson
 Albert Smith
 Ralph I. Tripp
 Edna B. Tuttle
 Vivian A. Webber
 Viola G. Wedger
 Irma Whiton

Bingham

Ellen M. Clark
 George W. Costa
 Ellen M. Creighton
 Alice M. Donahue
 Marie M. Dunford
 Warren J. Farrell
 Edward T. Johanson
 Astrid J. Johnson
 Francis C. Lynch
 Francis Murphy

Livien Nottebaert
 Dorothy L. Page
 Thelma B. Seller
 Mary E. Sexton
 Louise H. Sheridan
 Harold J. Traynor
 Robert C. Traynor
 Edward J. Webb
 Chauncey C. Witcher
 Edward L. Williams

Carr

Carrie C. Barbera
 Earl W. Boyce
 A. Josephine Casey
 Florence Amalia Catani
 Anna Marie Chapman
 Florence Veronica Daykin
 Charles C. Driscoll
 Alice Lenore Hogan
 Margaret C. Keane

Bessie M. Kreem
 Wilhelmina E. Lawler
 John Edward J. McAvoy
 James Main
 Hazel Eleanore Prowse
 Harry Francis Shackford
 George E. Tosi
 Emily M. Walsh
 John K. Young

Morse

Lawrence E. Cirella
 John W. Eklof
 Herbert C. Lawson
 J. Ernest Taylor
 Mildred Appley

Avis P. Christopher
 Ruth F. Foster
 Florence E. McNeil
 Emily L. Pride
 Laura C. Smith

Brown

Grace Anna Anderson
 Elizabeth A. Dickerman
 Francis Xavier Emmett
 Rachel Minot Fiske
 George Edward Gavin
 Edward J. Geran
 Roy Francis Goggin
 Dorothy Leona Jacobs

Marion E. McCaig
 Eleanor Vita Nemser
 Florence H. Parker
 Andrew S. Phillips
 Frank Sanborn
 Beatrice Maud Steed
 G. Wilbur Stiglich
 Muriel Arline Wardrobe

Highland

Helen Frances Barnard
 Charles Albert Birch
 James Daniel Blackall
 Arthur Blanchard
 Roger Edward Bowlby
 Elliot Ernest Brown
 Martin Richard Brackett
 Myron Kennard Chandler
 Leonard Paul Clark
 John Francis Connor
 Herbert Manning Crowley
 Augustus William Cummings
 Maria Catherine Downey
 Floyd Locke Drake
 Gilbert Leonard Felch

Walter Joseph Finlay
 Gladys Collings Fraser
 Clara Louise Fuller
 Mildred Anna Fuller
 Gladys Pauline Hadley
 Mary Blanche Harrington
 Florence Elizabeth Hollis
 Amy Ethel Hughes
 Albert Olof Laubinger
 William Foster Macdonald
 Pearl Genevieve MacLean
 Herbert Williamson Mauch
 Marion Grace McGowan
 Ruth Veronica McGowan
 Mildred Louise Minard

John Francis Mocklar
 Mary Niles
 Mary Margaret O'Connell
 Dorcas Blanche Patrician
 Mabel Josephine Pigott
 Bertha Josephine Reed
 Linwood Loring Reed
 Eleanor Gertrude Springer

Grace Adams Stack
 Catherine Smith
 Grace Evelyn Sughrue
 Violet Grace Thompson
 Charles Herbert Treat
 Arthur William Trump
 Bernard Irvin Wilson
 Edward Stephen

Hodgkins

Norman Alfred Shaffer
 George A. Watkins
 James W. Macbeth
 Aram Benjamin Sarkisian
 Dudley Moore
 Earle Frederick Evans
 Joseph Beaver
 F. Weston Eames

Edith C. Walker
 Lillias M. Hale
 Gertrude Mary Hale
 Vera E. Ramsey
 Esther Gertrude Fitzpatrick
 Hazel Lavinia Smith
 Jessie Elizabeth Moore
 Vilinda Morrissey Spinney

Cutler

John W. Ayer
 Charles W. Hawes
 E. Melba Mersereau
 Olive Marjorie Roundy

Ethel Louise Shaw
 Hazel M. Smith
 E. Beatrice Towle

GRAMMAR SCHOOL GRADUATES.

June, 1915.

Prescott

Clara Sophia Ahlner
 Eva Bryden
 Elizabeth H. Decker
 Alice M. Doherty
 Barbara E. Donohue
 Marjorie Virginia Drew
 Mary E. Drew
 Ethel Leah Durning
 Gertrude M. Frazer
 Carrie May Freeto
 Lillian I. Getchell
 William Foster Hammond
 Eva P. Harmon
 George E. Harris

Chester Williams Hayes
 Catherine M. Howard
 Charles L. Lane
 Hazel L. Lennon
 Mary E. Linehan
 Helen E. Murray
 George Franklin Newell
 Thomas Joseph O'Hare
 Grace D. Paine
 Samuel Price
 Raymond Eldridge Ricker
 Gracia M. Ross
 Raymond Walter Sargent
 Marian S. Turner

Knapp

Florence C. J. Andersen
 Ralph Leonard Bell
 Elvira C. Borges
 Edna May Bryant
 Irene V. Casey
 H. Edward Collins
 George Collins
 John Joseph Collins
 David Jordan Condon
 Madeline Clare Croke
 George Arthur Devine
 Catherine L. Donnelly
 Muriel Beatrice Edwardes

John F. Fitzgerald
 Ernest T. G. Fitzpatrick
 Timothy Francis Fitzpatrick
 Margaret Catherine Fitzpatrick
 Harold B. Ford
 Edna Mabel Gilmore
 Cecilia Rose Glynn
 Alfred Benedict Goding
 Alice F. Grady
 Ruth Alicia Groombridge
 Francis Xavier Grue
 K. J. George Gulbranson
 Gladys M. Heanue

James Thomas Hogan
 Albert Holmes
 George Jackson Hurst
 Edith Viola Jones
 Irene Lillian Kirchner
 Thomas Edward Kissling
 Homer H. MacCutcheon
 Helen MacDonald
 Margaret J. MacDonald
 Margaret J. MacWilliams
 Walter J. Mack
 Alice Marie Madden
 Cecilia Marshall
 John J. McCarthy
 George Edward McLane
 E. William Moore
 Edward John Weldon Morrison

Sadie A. Norton
 Harry Pearlman
 Rose Pearlman
 Maurice Sigel Robinson
 Alice P. Roderick
 James D. Ryan, Jr.
 John Russell Shaw
 Alice M. Sullivan
 Anna Marie Sullivan
 Esther Elena Tarkka
 Solomon H. Tashjian
 Michael J. Tierney
 Crystal Myrtle Vosburgh
 Mildred Amanda Walker
 Jeanette Weiner
 Marie Elizabeth Weymouth
 Edward John Wright

Pope

Dorothy M. Burke
 Eva G. Burns
 William Joseph Callahan
 Norman Jay Carter
 Frank Harold Carterino
 John Cusolito
 Helen Elizabeth Donehey
 Mary Emily Dutra
 John J. Eurglunes
 Ellen Mary Gray
 Francis Thomas Hallett
 John W. Hopkins
 John J. Kelley
 Mary Catherine Linehan
 Francis L. Long
 Christina M. Lowry
 Julia E. Lynch
 Mae A. Magwood

Mildred V. Marmaud
 Ruth Ellis Martinson
 Thomas F. McDermott, Jr.
 William F. Mullin
 Lillian Gertrude Peters
 Harold I. Purdy
 Arthur John Rourke
 Gertrude Emily Russell
 Elizabeth Mary Ryan
 Frank Pietro Scigliano
 Julia Mary Scotti
 Sophie B. Siegel
 Ruth Isabel Sullivan
 Ruth C. Trowsdale
 Maxwell G. Wallack
 Fritz E. Westlin
 Stearns H. Whitney

Bell

Ruth Olive Adams
 Edith Backer
 Theodore R. Bickford
 Edwin Charles Boone
 Eleanor Margaret Bowen
 Emily Edith Brack
 John Andrew Carney
 James Joseph Carroll
 Arthur Lincoln Carvill
 Gladys Elizabeth Caswell
 Randolph W. Chaffee
 William Lumb Copithorne
 Louis Faith Cunningham
 Howard Hittinger Davenport, Jr.
 Edna Priscilla Dykens
 Harry William Eady
 Gordon Kingsley Edgar
 John Albert Emerson
 Franklin Henderson Freudenberger

Percy R. Fuller
 George Albert Hartney
 Emily Fairwin Higgins
 John Porter Leavis
 Dorothy E. Leith
 Edward M. Long
 Ruth Frances Makant
 Norman Hill Martin
 Viola Frances May
 Margaret Helen Mills
 Robert George Milne
 Helen Angelina Patten
 John Stephen Patten
 Ruth Marion Patterson
 Walter Aloysius Quigley
 Edward Joseph Sharkey
 Irene Adella Shelley
 Ethel Louise Woods
 Alice Ethel Wyse

Edgerly

Richard A. Ash
 George T. Beattie
 Emily A. Bell
 Raymond E. Brinig
 Rebecca L. Burgess
 Myrtle Burt
 Ronald Bussey
 Marion G. Charlesworth
 Eugene F. Collins
 George E. Dearborn
 Letitia M. DeMita
 Sherwood O. Dodge
 Annie J. Doherty
 William F. DuBrau
 Edna A. Eaton
 Herman V. Everett
 Lawrence A. Greaves
 Rebecca H. Hale
 H. Curtis Kirkland
 Marjorie L. Lambert
 Margaret E. Linnehan
 Hilda Maraniss
 Joseph F. McCarthy

Helen W. McEvoy
 Catherine M. Mobilia
 Marion E. Morgan
 Genevieve M. Murphy
 Beulah J. Nowell
 Thomas L. O'Donnell
 Agnes M. O'Leary
 Henry Overlock
 Florence E. Pearsons
 Christine H. Phelps
 William V. Reagan
 Emma C. Stanchfield
 Florence A. Steeves
 Arthur W. Stinson
 Lloyd C. Thayer
 Dorothy L. Thorne
 William Tobin
 Avis M. Vass
 Olive J. Wallace
 Edith L. Washburn
 Celia R. Weinfeld
 Gladys E. Wilbur
 Marion K. Yorke

Glines

Ernest Allen
 Annie L. Blair
 Emerson Roberts Brooks
 Eleanor L. Cadario
 Henry Caughlin
 Frances Chick
 Clifford M. Clark
 Nona Cohen
 George F. Corkhill
 Helen Irene Crotty
 Leon Winfred Dean
 Russell P. Dearborn
 Luthera Abbie Ellis
 G. Herbert Flewelling, Jr.
 Mary D. Furiga
 Baptiste C. Furiga
 Irma A. Greenleaf
 Helen A. Hinkley
 Ralph B. Jones
 Margaret Kiley
 Thomas J. Kiley
 Florence Sellers Kimball
 Charles Roy Kolb

Albert P. Luscomb
 M. Kathleen MacLellan
 Walter B. McKenna
 Veronica McKinnon
 Percival Daniel Messenger
 Ruth A. Milliken
 Beatrice C. Mitchell
 Joseph A. Moore
 Daniel F. Moran
 Alfred James Morgan
 John J. Nolan
 Harold M. Noyes
 Francis Robbins Pray
 Lucius Kendall Reed
 Myron B. Rich
 M. Edna Roach
 Ruth Edwina Smith
 Florence M. Sornberger
 Violet Marian Smith
 George G. Walker
 Ella Weston
 Thelma B. Weston
 Eleanor J. Williams

Forster

Lillian Rebecca Anderson
 John Avery
 Helen Chadwick Brainerd
 John Brookhouse
 Melvin J. Cohen
 Edward Williston Cook

Giles L. Corey
 Arthur Mackeen Currier
 Wellman C. Daniels
 Dorothy Isabelle Diggdon
 Louis Doctoroff
 Franklin Ford Doten

Inez C. Dyer
 Helen C. Estee
 Barnet Farberman
 Freda Celia Farberman
 Edith E. Fielder
 Lionel George Gale
 Edgar J. Gerrior
 Norman Hammond
 Homer P. Harding
 Hazel V. Hilles
 Rosina D. Holloway
 Carolyn E. Humphrey
 Katherine G. Hurley
 Mildred I. Leach

Ethel Gould Long
 Ruth Marble
 Marion E. Marshall
 Charles A. McCarthy, Jr.
 Alicia Charlotte Mullen
 Warren Leslie Prescott
 Gordon Withington Robinson
 Lawrence Herbert Russell
 Eunice A. Ryan
 Bertha Estelle Sargent
 Leah P. Scholes
 Evelyn F. Stockbridge
 Mabel Florence White
 Leslie George Williams

Bingham

Rose Catherine Arata
 Mary Josephine Barry
 Frances Ethel Biller
 John Francis Boyle
 Evelyn G. Briggs
 Howard Leo Brown
 Edward Burke
 Olga Mary Cappuccio
 Edward John Chisholm
 Eleanor F. Costello
 James A. Cudmore
 Catherine E. Flanagan
 Catherine Agnes Foley
 Everett M. Fuller
 Florence M. Gallen
 Gertrude Mae Gabel
 Bernadette Octava Gratzky
 Adele Gutosky
 Clarence Edward Hallion

William J. Hallion
 Florence Catherine Harrigan
 Margaret Gertrude Hogan
 Margaret M. Kelleher
 Frieda Levine
 Ellen B. McHale
 Laura Ellen McHugh
 Ralph Willard Michaud
 Joseph Francis Morgan
 Carl Wilbur O'Neil
 Roland A. Palmer
 Elizabeth F. Perkins
 Mary Elizabeth Pullo
 Aurelia Gertrude Quessy
 Ralph T. Schofield
 Harold John Stacy
 George Joseph Sisk
 Ethel Mae Turner
 Clarence E. Wright

Carr

Rose Madeline Albertini
 Mary G. Carr
 Dwight I. Chapman
 Lawrence J. Chapman
 Margaret Creamer
 Lucy A. De Simone
 Edith C. Diozzi
 Alice F. Flynn
 Ernest G. Gauthier
 Arthur R. Hurd
 George E. Keegan
 Wilfrid J. MacCarthy
 Graham Claude Magee
 Carl Axel Magnusson

Charles E. Mongan
 Elmer N. Morang
 Joseph P. Padovani
 John P. Purtell
 George Peterson
 Yvonne E. Richards
 Clara Roberts
 William C. Rossiter
 Marguerite M. Sainato
 Adelina C. Salvi
 Mildred B. Sullivan
 Gertrude A. Turnbull
 William P. Urbati
 Joanna F. Walsh

Morse

Henrietta M. Allen
 Francis R. Begley
 William H. Burgess
 Francis E. Coit
 Marion L. Fowler

Fred J. Gardini
 Lillian M. Garside
 Virginia Gilmore
 Orlando P. Guazzaloca
 Frances E. Harrington

Francis Edwin Higgins
 Gertrude L. McDonnell
 Martha C. Porch
 Wilbur C. Pound
 John N. Price

Joseph Warren Sullivan
 Roland F. Tyler
 Raymond S. Yeaton
 Annie M. Zambenardi

Brown

Beatrice Alice Aery
 Ethel Augusta Bacon
 Lottie Baker
 Alberta M. Blackman
 Arthur R. Bowden
 Arthur Clement Coffey
 Henry Isaac Coulson
 Helen Tremaine Currie
 Francis Jerome Donovan
 Mary Bernardine Gavin
 Doris E. Graham
 Ruth Harriman
 Eleanor May Horrell
 Doris Estelle Keddy
 Charles Cobb Henry Kendall
 J. Carleton Knox
 Ragnar Oliver Lindgren
 S. Mildred MacKinnon
 Helen Louise May

Anna Mitrano
 Earl Seymour Myers
 James A. Murray
 Morrill Albert Nichols
 Hildegard M. Ohse
 Barbara Louise Perry
 Harry Arthur Pousland
 Michael Rubenstein
 Josephine Agnes Saunders
 Constance E. Shaw
 Mary Estel Shuman
 Melvin Adams Stephens
 Harold Alexander Thurston
 Helen Louise Traverse
 Dorothy Eva Wallace
 Bertha Washington Wilson
 Hazel Florence Wolf
 Albert A. Wood

Highland

Grace Barnes
 Frank Herbert Blackman
 Edith Brown
 Juniata Burnett
 Maynard Starr Calkin
 Frank George Calkin
 Helen Mary Campbell
 Edith Marguerite Canavan
 Marion Emma Casey
 Harold Edward Condon
 Dorothy Mary Cuddy
 Mildred Louise Dillingham
 Donald Holt Dowe
 James Anthony Downing
 John Marcus Duhig
 Margaret Theresa Evans
 Marion Agnes Fitzpatric
 Ada Elizabeth Groves
 Paul Hallett
 Edward Francis Herring
 Aletha Maud Gooche
 Madeline Elsie Kelley
 Edwin Rodney Kennedy
 Malcolm Chester King
 Allan Roy Kingston
 Hazel Madeline Lothrop
 Edgar Reginald Lyle
 Francesca Eugenie Marier
 Herbert Mack
 Eleanor Louise McLaughlin

Alice Beatrice Niles
 William Henry O'Connell
 Hazel Marguerite Ostler
 Anna Margaret Phalen
 Ralph Wilson Pierce
 Clifford Firth Pinkham
 Olivia Mae Quail
 Helen Agnes Quanstrom
 Alice Frances Roberts
 Elmer Sanders
 Josephine Abbott Semple
 Marion Girdwood Simpson
 Harold Francis Skaling
 Edward Brown Spaulding
 Dorothy Hortense Sawyer
 Florence Slade
 Katherine Marguerite Spencer
 Robert Jesse Spratlin
 Ada Isabelle Stevens
 Helen Sweet
 Elizabeth Tholander
 Marguerite Lillian Trask
 William Triglia
 Henrietta Lillian Tucker
 William Thomas Wardrope
 Sarah Leone Warren
 Donald Edson Wallis
 Wilbur Ashel Whitcomb
 Howard Ellison Whitney
 Doris Wilder

Hodgkins

John R. Bracey
Walter E. Donnelly
Charles L. S. Easton
Bernard Joseph Flynn
Harold Witherell Geddes
Edward Arthur Jackson
Paul Record
Robert Record
Gladys Ferguson

Anna J. Fitzpatrick
Alice R. Kelley
Lillian M. Lane
Elizabeth E. Quinn
Marguerite Elizabeth Rogers
Florence Mary Shannon
Dorothy M. Wood
Elizabeth S. Wood

Cutler

William E. Baldwin
Adolph F. Blomquist
William E. Boyer
Marion L. Bridges
S. Merton Cook, Jr.
Mildred Cook
Beatrice M. Crawford
Viola C. Dailey
Frederick Fermoye
Susie M. Gordon
Mildred M. Gould
Marion Emery Hodgkins

Edith L. Kennedy
Georgiana A. Landreville
Eldith M. Lewis
Gertrude A. McNamara
Lillian R. McNamara
Isabel M. Moore
Maybelle O. Nelson
Thelma B. Parsons
Edwin S. Powell
Wesley C. Urquhart
Arthur J. Walsh

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1916.

School Committee.		
GEORGE E. WHITAKER	. . . . .	Chairman
HERBERT CHOLERTON	. . . . .	Vice-Chairman
Members.		
EX-OFFICIIS.		Term expires January.
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	1917
JAMES J. RUDD,	46-A Franklin street	1918
WARD TWO.		
CHRISTOPHER J. MULDOON, JR.	88 Concord avenue	1917
DANIEL H. BRADLEY,	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	1917
HARRY A. STONE,	254 Broadway	1918
WARD FIVE.		
MRS. JULIA R. ALDRICH,	262 School street	1917
HARRY M. STOODLEY,	283 Highland avenue	1918
WARD SIX.		
MRS. MARY R. BREWER,	170 Summer street	1917
GUY E. HEALEY,	34 Benton road	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.

Board Meetings.

January 31.	April 24.	September 25.	December 22.
February 28.	May 29.	October 30.	December 29.
March 27.	June 26.	November 27.	

8.15 o'clock.

TABLE 28.—ORGANIZATION OF SCHOOL BOARD, 1916.—
 Concluded.
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, FERRY, 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.

TABLE 29.—TEACHERS IN SERVICE JANUARY, 1916.

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, 14 Heath Street	1,850	1906
John L. Hayward, Master, 242 School Street	1,850	1913
Harry F. Sears, Master, Melrose Highlands	1,850	1901
William W. Obear, Master, 86 Belmont Street	1,800	1906
George M. Hosmer, Sub-Master, 13 Arlington Street	1,700	1901
Laurence A. Sprague, Sub-Master, West Newton	1,700	1906
John M. Jaynes, Sub-Master, 29 Putnam Street	1,700	1901
John M. Nichols, 41-A Brent Street, Dorchester	1,700	1913
Guy C. Blodgett, Sub-Master, 92 Belmont Street	1,700	1910
Walter I. Chapman, Sub-Master, 18 Central Street	1,700	1911
Albert W. Hopson, Sub-Master, 66 Hudson Street	1,300	1914
Fred W. Carrier, Sub-Master, Wilmington	1,200	1915
Augustus B. Tripp, Junior Sub-Master, 67 Wallace Street	1,300	1909
S. Thomas Hall, Junior Sub-Master, 62 Highland Avenue	1,250	1910
Clarence L. Foster, Junior Sub-Master, 32 Central Road	1,250	1911
Irving P. Colman, Assistant, 47 Curtis Avenue	1,100	1915
Stephen H. Mahoney, Junior Sub-Master, 16 Parker Street	1,050	1914
Lester W. Dearborn, Assistant, 61 Lowden Avenue	1,000	1914
Joseph I. Horton, Assistant, 202 School Street	1,000	1914
George E. Pearson, Assistant, 325 Highland Avenue	1,000	1914
A. Marion Merrill, Assistant, 24 Central Road	1,200	1935
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	1,000	1899
Elizabeth Campbell, Assistant, 6 Aldersey Street	1,000	1902
A. Laura Batt, Assistant, 24 Central Road	1,000	1895
M. Helen Teagle, Assistant, 11 Jason Street, Arlington	1,000	1895
Clara A. Johnson, Assistant, 177 Central Street	1,000	1897
Elizabeth H. Hunt, Assistant, 121 St. Stephen Street, Boston	1,000	1908
*Mabel G. Curtis, Assistant, Cambridge	1,000	1903
Blanche S. Bradford, Assistant, 157 Summer Street	1,000	1903
Grace E. W. Sprague, Assistant, Cambridge	1,000	1908
Mrs. Lucy I. Topliff, Assistant, 57 Cypress Street, Brookline	1,000	1914
Eudora Morey, Assistant, Boston	900	1874
Ella D. Gray, Assistant, 147 Walnut Street	900	1901
Ruth Tousey, Assistant, 106 Professors Row	900	1904
Bessie L. Forbes, Assistant, 92 Orchard Street	900	1899
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, 49 Vinal Avenue	900	1906
A. Marguerite Browne, Assistant, Cambridge	900	1908
Edith L. Hurd, Assistant, 125 Central Street	900	1910
Julia T. Connor, Assistant, 59 Church Street	900	1910
Esther Parmenter, Assistant, 206 Sycamore Street, Waverley	900	1911
Charlotte A. Norton, Assistant, 5 Gorham Street	900	1914
Annie C. Woodward, Assistant, 2 Madison Street	900	1906
Alice A. Todd, Assistant, 82 Munroe Street	900	1913
Hattie M. Baker, Assistant, 70 Pearson Avenue	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, 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, Watertown	850	1911

* Leave of absence.

TABLE 29.—Teachers in Service January, 1916.—Continued.

NAME AND RESIDENCE.	Salary.	Began Service.
Gladys S. Jennison, Assistant, 28 Vinal Avenue	850	1913
Laura R. Cunningham, Assistant, 62 Highland Avenue	850	1914
Ruth A. Davis, Assistant, 15 Evergreen Avenue	850	1914
Mary L. Johnston, Assistant, 14 Fellsway West	850	1914
Lillian B. Treadwell, Assistant, 68 Ossipee Road	850	1914
Bessie N. Page, Assistant, 106 Summer Street	825	1911
Julia A. Haley, Assistant, 88 Prospect Street	800	1913
Laurence C. Chase, Assistant, 11 Madison Street	800	1915
Ruth E. Low, Assistant, Reading	800	1913
Helen J. Coffin, Assistant, 10 Rosedale Street, Dorchester	800	1913
M. Genevieve Smith, Assistant, 11 Walter Terrace	750	1915
Ilene C. Ritchie, Assistant, 17 Willoughby Street	650	1912
Helen F. Lyon, Assistant, 392 Broadway	600	1914
Frances C. Hall, Assistant, 124 Summer Street	600	1915
* Mabel Williams, Librarian, 9 Aldersey Street	400	1914
Mabell M. Ham, Clerk, 41 Boston Street	800	1906

* Part-time.

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
(WILLIAM H.) PRESCOTT SCHOOL.			
Pearl and Myrtle Streets.			
9.	SAMUEL A. JOHNSON, Master, 83 Thurston Street	\$1,900	1893
9.	Elizabeth M. Warren, 46 Vinal Avenue	875	1897
9, 8.	Mary L. Norton, 20 Watts Street, Malden	825	1914
8, 7.	Sarah H. Christie, 61 Pearl Street	800	1914
8, 7.	Edyth M. Grimshaw, Readville	800	1909
7, 6.	Euphemia K. Potts, 13 Langmaid Avenue	800	1913
7, 6.	Edith L. Laycock, 43 Franklin Street	750	1913
6, 5.	Mary L. Abbott, 32 Alaska Street, Roxbury	800	1910
5, 4.	Angie M. MacRitchie, Concord Junction	800	1912
4, 3.	Clara Taylor, 36 Flint Street	800	1871
3, 2.	Elizabeth L. Marvin, 40 Greenville Street	800	1898
2.	Louise E. Pratt, 40 Greenville Street	800	1889
1.	A. Louise Bean, 9 Hamlet Street	800	1904
Asst.	Mildred Archibald, 21 Warner Street	350	1914
SANFORD HANSCOM SCHOOL.			
Webster and Rush Streets.			
	ELIZABETH M. COLLINS, Principal, 2 Madison Street	\$1,500	1901
5.	Mrs. Agness M. Travis, Winthrop Highlands	850	1908
5.	Carrie M. Frost, 27 Winter Street, Arlington	800	1912
4.	Frances E. Robinson, 87 Flint Street	800	1908
4.	Marion A. Viets, 170 Lexington Street, Waltham	800	1912
3.	Jennie M. Twiss, 67 Berkeley Street	800	1903
3.	Maude A. Nichols, 15 Pleasant Avenue	800	1906
3, 2.	Mrs. Nellie W. McPheters, 163 Summer Street	700	1914
2.	Martha L. Littlefield, 65 Glen Street	800	1897
2.	Alice M. Saben, Arlington	750	1903
1.	Mary J. Dewire, 384 Washington Street	525	1913
1.	Florence M. Shaw, 37 Madison Street	600	1909
Kind'n.	Elizabeth J. Baker, 49 Vinal Avenue	700	1907
Asst.	Frances L. McGann, 45 Putnam Street	425	1914
VOCATIONAL SCHOOL FOR BOYS (Day).			
Davis Bldg., Tufts Street.			
	Harry L. Jones, Principal, 137 Powder House Boulevard	\$1,850	1914
	Charles A. Kirkpatrick, 27 Sewall Street	1,150	1913
	Nehemiah E. Gillespie, 28 Worcester Square, Boston	1,300	1911
	Fred P. Carter, 43 Auburn Avenue	1,000	1914
	Arthur E. Gordon, 59 Elm Street	1,000	1914
	* Francis A. Ryan, Canton, Mass.	900	1913
	Herbert L. Gregory, 202 School Street	900	1915
	Lucie C. Norton, Secretary, 79 Ossipee Road	\$9 per wk.	1915
CLARK BENNETT SCHOOL.			
Poplar and Maple Streets.			
	ELIZABETH M. COLLINS, Principal, 2 Madison Street . . . . .	....	1912
5.	Kate B. Gifford, 29 Robinson Street	\$850	1902
4	S. Ellen Brown, 8 Aldersey Street	750	1913
4, 3.	Mrs. Nettie L. Fay, 12 Grand View Avenue	800	1901
3.	Nellie F. Eaton, 15 Pleasant Avenue	800	1906
2.	Isadore E. Taylor, 36 Flint Street	800	1833
2.	Eleanor W. Nolan, 13 Pleasant Avenue	800	1909
1.	Alice M. Hayes, 21 Highland Avenue	750	1913
1.	Mary L. Gallagher, 19 Beacon Place	525	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	800	1906
Kind'n.	Caroline G. Baker, 40 Benton Road	700	1896
Asst.	Helen Harrington, 28 Hurlburt Street, Cambridge	475	1912
Ungraded	Julia M. Riordan, 165 Albion Street	450	1914
Non-Eng.	Mrs. Lillias T. Lawton, Dorchester	600	1913

* Leave of absence.

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
GEORGE L. BAXTER SCHOOL.			
Bolton Street.			
5.	MARY G. BLACKWELL, Principal, 45 Ibbetson Street	\$875	1900
4.	Etta R. Holden, 30 Warren Avenue	800	1908
3.	Julia A. Mahoney, 16 Parker Street	800	1904
2.	Sue A. Fitzpatrick, 451-A Somerville Avenue	750	1912
1.	Maria D. McLeod, 1 Highland Park, Cambridgeport	800	1906
Kind'n.	Eleanor A. Connor, 59 Church Street	700	1903
Asst.	Martha W. Delay, 48 Beacon Street	525	1911
OREN S. KNAPP SCHOOL.			
Concord Avenue.			
	JOHN SHERBURNE EMERSON, Master, 3 Preston Road	\$1,900	1894
9.	Clara M. Burns, 620 Main Street, Malden	875	1914
9, 8.	Marion F. Orne, 43 Fairmount Avenue	750	1912
8.	Nellie Theresa McCarthy, Woburn	800	1909
8.	Minnie A. Holden, 30 Warren Avenue	800	1906
7.	Clara B. Parkhurst, 22 Highland Avenue	800	1889
7.	Clara B. Sackett, 91 Summer Street	800	1891
6.	Edith Hersey, 154 Washington Avenue, Chelsea	800	1899
6.	Florence M. Hopkins, 65 Chandler Street	800	1907
5.	Nona E. Blackwell, 45 Ibbetson Street	800	1906
4.	Annie E. Robinson, 31 Warren Avenue	800	1876
3.	Olivia H. Norcross, Wilmington	800	1914
2.	Minnie Alice Perry, 21 Summit Avenue	800	1891
1.	M. Edith Callahan, Woburn	800	1911
ALBION A. PERRY SCHOOL.			
Washington Street, near Dane Street.			
6.	CATHERINE E. SWEENEY, Principal, 633 Broadway	\$875	1901
5.	Mary A. Mullin, 27 Shawmut Street	800	1910
4.	Irene Vincent, 47 Vinal Avenue	800	1903
3.	L. Gertrude Allen, 230 Washington Street	800	1884
2.	Grace R. O'Neil, 347 Washington Street	650	1913
1.	Mrs. Sarah E. Murphy, 21 Fountain Avenue	800	1906
CHARLES G. POPE SCHOOL.			
Washington and Boston Streets.			
	GEORGE M. WADSWORTH, Master, Whitman	\$1,900	1891
9.	Florence A. Chauey, 56 Boston Street	950	1892
9, 8.	Alice I. Norcross, 90 Russell Avenue, Watertown	825	1885
8.	Harriet M. Clark, 10 Vernon Street, West Medford	800	1893
7.	Mrs. Blanche G. North, 24 Warren Avenue	800	1893
7.	M. Abbie Tarbett, 11 Washington Street, Stoneham	800	1906
6.	Emma J. Kennedy, 9 Pleasant Avenue	800	1912
6.	Edith L. French, 17 Aldersey Street	800	1912
5, 4.	Lizzie W. Parkhurst, 22 Highland Avenue	800	1885
4, 3.	Annie G. Sheridan, 57 Stanley Avenue, Medford	800	1886
3, 2.	M. Katherine Davis, 9 Harvard Place	800	1904
2, 1.	Florence E. Locke, 9 Prospect Hill Avenue	800	1899
1.	Alice B. Frye, 131 Buckman Street, Everett	800	1904

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
LUTHER V. BELL SCHOOL.			
Vinal Avenue.			
	GEORGE M. WADSWORTH, Master, Whitman . . . . .	....	1912
9.	Alice L. Davis, 40 Vinal Avenue	\$950	1895
9, 8.	Rena S. Hezelton, 26 Cambria Street	825	1909
8.	Esther L. Small, 17 Pleasant Avenue	800	1914
7.	Eva R. Barton, Stoneham	800	1904
7, 6.	Ada G. Macdonald, 308 Commonwealth Avenue, Boston	750	1914
6.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	800	1893
6, 5.	Lillian E. Haskell, 41 Putnam Street	800	1913
5, 4.	Julia A. Simmons, 11 East Newton Street, Boston	800	1911
4, 3.	M. Eunice Young, Winchester	800	1912
(JOHN A.) CUMMINGS SCHOOL.			
School Street, near Highland Avenue.			
	GEORGE M. WADSWORTH, Master, Whitman . . . . .	....	1912
3.	FANNIE L. GWYNNE, Principal, 65 School Street	\$850	1886
2.	Angeline Cann, Hotel Woodbridge	800	1897
2, 1.	Elizabeth L. Hersey, 96 Oxford Street	800	1896
1.	Mrs. Stella M. Hadley, 11 Greene Street	700	1914
(JOHN G.) EDGERLY SCHOOL.			
Cross and Bonair Streets.			
	CHARLES E. BRAINARD, Master, 82 Munroe Street	\$1,900	1889
9.	M. Eva Warren, 21 Highland Avenue	875	1906
9, 8.	Annie L. Dimpsey, Hotel Woodbridge	825	1891
8.	Mary E. Richardson, 109 Glen Street	800	1893
8, 7.	Isabelle M. Gray, 23 Webster Street	800	1897
7.	Mabel C. Mansfield, 109 Glen Street	800	1893
6.	Edith M. Snell, 4 Vine Street, Melrose	800	1900
6.	Hazel N. Friend, 128 Rowe Street, Melrose	800	1915
6.	Berta M. Burnett, 1619 Massachusetts Avenue, Cambridge	750	1915
5, 4.	G. Hortense Pentecost, 154 Walnut Street	800	1905
4, 3.	J. Louise Smith, 196 Washington Street, Lynn	800	1896
3, 2.	Lillian Nealley, 109 Glen Street	800	1882
2, 1.	Alice W. Cunningham, 62 Highland Avenue	800	1901
1.	Martha M. Power, 37 Gleason Street, West Medford	800	1890
JACOB T. GLINES SCHOOL.			
Jaques Street, near Grant Street.			
	MARY E. NORTHUP, Master, 9 Forster Street	\$1,900	1878
9.	Mary E. Stiles, 9 Forster Street	875	1883
8.	Lilla M. Marble, 85 Heath Street	800	1902
8, 7.	Louise V. Richardson, 37 Heath Street	800	1907
7, 6.	Ruth E. Clarke, 35 Montrose Street	750	1915
6, 5.	Margaret A. Orr, 146 Massachusetts Avenue, Boston	800	1890
5.	Harriet F. Ward, 18 Forster Street	800	1895
4.	Mary A. Goddard, 9 Winter Hill Circle	800	1893
4, 3.	Mrs. Carrie Armitage, 57 Madison Street	800	1899
3.	Florence E. Baxter, 49 Hudson Street	800	1891
3, 2.	Anna G. Welch, 22 Fenwick Street	800	1897
2.	Edith M. Dow, 2 Pleasant Avenue	600	1914
1.	Leslie Caverly, 9 Wildwood Street, Winchester	800	1908
1.	Isabel J. Tift, 37 Madison Street	800	1892
Kind'n.	Mrs. Etta D. Ellsworth, Trinity Court, Boston	700	1897
Asst.	Ida M. Kane, 28 Fellsway West	525	1905

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
(CHARLES) FORSTER SCHOOL.			
Sycamore Street and Evergreen Avenue.			
	JOSSEPH A. EWART, Master, 85 Bartlett Street	\$1,900	1913
	Irene S. Nightingale, 12 Court Street, Arlington	875	1895
	Emma G. Blanchard, 146 Mass. Ave., Boston, Suite 622	825	1902
	Alice E. Wright, 12 Evergreen Avenue	600	1915
	M. Edna Merrill, 228 Broadway	800	1909
	Anna R. Walsh, 27 Avon Street	450	1914
	Arthur J. Marchant, 29 Evergreen Avenue	1,050	1914
	Ethel V. Chisholm, 43 Franklin Street	450	1914
	Anna J. Dolan, 27 Hancock Street, Dorchester	600	1915
	Ruth Kingman, 11 Westwood Road	250	1913
6.	Mrs. Mina P. Bickford, 216 Park Street, Medford	800	1903
6.	Elizabeth F. Clement, 29 Kidder Avenue	800	1884
5.	Mary I. Bradish, 112 Magoun Avenue, Medford	800	1899
5.	Elizabeth S. Brown, 58 Thurston Street	800	1897
4.	Annie S. Gage, 32 Marshall Street	800	1881
4.	Anna R. Canfield, 205 Cedar Street	450	1914
3.	Mrs. Annie J. Ireland, 62 Evergreen Avenue	800	1909
3, 2.	May A. Daly, 437 Medford Street	700	1916
2.	Carrie T. Lincoln, 65 Ashland Avenue, Medford	800	1893
1.	Cora J. Demond, 146 Massachusetts Avenue, Boston	800	1900
1.	Grace Shorey, 23 Forster Street	800	1892
(NORMAN W.) BINGHAM SCHOOL.			
Lowell Street, near Vernon Street.			
	HARRY F. HATHAWAY, Master, 495 Broadway	\$1,900	1890
9	Elizabeth J. O'Neil, 61 Central Street	950	1894
9, 8.	Elizabeth J. Mooney, 168 Summer Street	825	1904
8.	Jane Batson, 61 Washington Street, Malden	800	1900
7.	Mary F. Mead, 35 Kidder Avenue	800	1905
7.	Catherine Heagney, 32 Sewall Street	800	1912
6.	Maude M. Cunningham, 61 Central Street	750	1913
6, 5.	Cora E. Crawford, 247 W. Newton Street, Boston	800	1912
5.	Helen L. Galvin, Braintree	800	1903
4.	Eva M. Barrows, 76 Boston Street	800	1903
4.	Bessie J. Baker, Malden	800	1905
4, 3.	Clara L. Griffiths, 39 Ames Street	800	1902
3, 2.	Harriet M. Bell, 62 Highland Avenue	800	1904
3, 2.	Lynda V. Merrill, 26 Brastow Avenue	750	1912
2.	Priscilla A. Merritt, 96 Oxford Street	800	1885
1.	Mabel E. Mansir, 77 Albion Street	800	1894
2, 1	G. Marion Lovering, 27 Flint Street	525	1913
Asst.	Lillian F. Commins, 24 Hanson Street	350	1914
MARTIN W. CARR SCHOOL.			
Beech Street.			
	CHARLES G. HAM, Master, Watertown	\$1,900	1898
9.	May E. Berry, 14 Billingham Street	875	1884
9, 8.	Clara D. Eddy, 71 Central Street	825	1900
8.	Mrs. Mary E. Soule, 39 Walnut Street	800	1902
7.	Harriet A. Hills, 14 Billingham Street	800	1877
7.	Susie L. Luce, 21 Francesca Avenue	800	1891
7, 6.	Leila L. Rand, 43 Norfolk Road, Arlington	800	1906
6.	Marie T. Smith, 15 Day Street	800	1898
6.	L. Alice Grady, 85 Heath Street	800	1912
5.	Elizabeth S. Foster, 10 Cambria Street	800	1895
5.	Grace T. Merritt, 47 Cherry Street	800	1897
4.	Katherine Pike, 24 Cambria Street	800	1906
4, 3.	Eva S. Bent, 6 Steeves Circle	750	1915
3.	Bessie I. Berry, 38 Wylles Avenue, Everett	750	1915
2.	Annie B. Russell, 14 Kidder Avenue	800	1901
2.	Pearl F. Dame, 1 Ellsworth Street	800	1906
1.	Frances E. Welch, 303 Highland Avenue	650	1908
1.	Mabel Ingham, 27-B Summer Street	475	1912

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
GIRLS' VOCATIONAL SCHOOL.			
41 Atherton Street.			
	Mary Henleigh Brown, Director, 85 Rockview St., Jamaica Plain	\$1,600	1911
	Helen C. French, 60 Adams Street	600	1912
	Mary Donoghue, 21 St. James Avenue	800	1911
	Margaret J. Sullivan, 47 Vinal Avenue	600	1913
	Theresa Morrison, 8 Johnson Avenue, Charlestown	600	1912
	Lucy Dorr, 121 St. Stephen Street, Boston	700	1911
	Marion P. Crawford, 9 Monmouth Street	900	1911
	Mrs. Helen G. Leitch, 93 Liberty Avenue	600	1913
	Emma M. Damon, 64 Vinal Avenue	800	1908
	Flora E. Stevens, Secretary, 45 Kidder Avenue	\$9 per wk.	1915
(ENOCH R.) MORSE SCHOOL.			
Summer and Craigie Streets.			
	MINA J. WENDELL, Master, 211-A Summer Street	\$1,900	1882
9.	Mrs. Harriette C. Hamilton, 135 Lowell Street	875	1900
8	Mrs. Clara A. Ball, 2 St. Paul Street, Cambridge.	800	1906
8, 7.	Mrs. Jennie E. Stevens, 9 Bradford Avenue	600	1912
7.	Lennie W. Bartlett, 196 Summer Street	800	1893
6.	Blanche E. Thompson, 33 Hudson Street	800	1906
5.	Catherine Faircloth, 26 Lowden Avenue	800	1914
4.	Mrs. Elra A. Cutler, 36 Powder House Boulevard	800	1911
4, 3.			
3, 2.	Mrs. Agnes C. Rice, 34 Highland Avenue	800	1900
2.	Lena Munroe, 211-A Summer Street	750	1913
2.	Alice C. Ray, 26 Lowden Avenue	750	1914
1.	Helen L. Tuck, 54 Shirley Avenue, Revere	800	1912
Asst.	Gladys A. Kingsley, 169 Highland Avenue	525	1914
GEORGE O. PROCTOR SCHOOL.			
Hudson Street.			
	HARRY F. HATHAWAY, Master, 495 Broadway	....	1912
7, 6.	NORA F. BYARD, Principal, 27 College Avenue	\$950	1884
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	1888
3, 2.	Edith L. Hunnewell, 23 Milton Street	800	1894
2.	Mary S. Richardson, 347 Boston Avenue, Medford	800	1906
1.	Lucia Alger, 10 Cambria Street	800	1889
GEORGE W. DURELL SCHOOL.			
Beacon and Kent Streets.			
4.	ABIGAIL P. HAZELTON, Principal, 33 Chatham St., Cambridge	\$850	1902
3.	Grace E. Packard, 12 Carlisle Street, Roxbury	800	1912
2.	Mary Winslow, 23 Hall Street	800	1887
1.	Alice M. Dicker, 82 Marion Street, East Boston	700	1912
MARK F. BURNS SCHOOL.			
Cherry Street, near Highland Avenue.			
7.	LAURA J. BROOKS, Principal, 31 Stevens Street, Stoneham	\$950	1883
Asst.	*Mrs. Mary C. Buck, 12 Powder House Terrace	400	1899
Asst.	Mrs. Bertha Temple, 11 Laurel Street	250	1915
6.	Carla M. Johnson, 80 Garfield Street, Cambridge	600	1897
5.	Lizzie E. Hill, 11 E. Newton Street, Boston	800	1890
4.	Mrs. Margaret D. Hellyar, 786 Main Street, Greenwood	800	1909
3.	Annie L. Brown, 4 Saginaw Avenue, North Cambridge	800	1885
2.	Mary E. Lacy, 63 Cherry Street	800	1890
2, 1.	Ardelle Abbott, 71 Craigie Street	800	1896
1.	Alice E. Morang, 38 Cambria Street	800	1893
Asst.	Margaret Beattie, 401 Washington Street	450	1914
Asst.	Louise Deady, 84 Bay State Avenue	200	1915

* Leave of absence.

TABLE 29.—Teachers in Service January, 1916.—Continued.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
BENJAMIN G. BROWN SCHOOL.			
Willow Avenue and Josephine Avenue.			
	GEORGE I. BOWDEN, Master, 92 Monument St., West Medford	\$1,900	1908
9.	Annie G. Smith, 59 Maple Street, Malden	875	1901
8.	Martha R. Taylor, 26 Simpson Avenue	750	1914
7.	Ida M. Record, 8 Aldersey Street	800	1899
6.	Gladys Stimson, 26 Lowden Avenue	700	1914
5.	Annie Sanburn, 11 East Newton Street, Boston	800	1906
4.	Mary T. Ford, 26 Gibbens Street	800	1911
4, 3.	Anna N. Johnson, 33 Everett Avenue	650	1913
3, 2.	Alice M. Dorman, 159 Morrison Avenue	800	1903
2.	Mrs. Grace H. Bliss, 28 Fairmount Avenue	800	1900
1.	Katherine T. McMahon, 168 Summer Street	800	1913
HIGHLAND SCHOOL.			
Highland Avenue and Grove Street.			
	FRANK W. SEABURY, Master, 18 Winslow Avenue	\$1,900	1911
9.	Grace M. Clark, 10 Vernon Street, West Medford	875	1898
9.	Marguerite Burns, 73 Hancock Street, Boston	825	1907
9, 8.	Sarah E. Pray, 58 Liberty Avenue	825	1877
8.	Mary L. Bryant, 24 Hall Avenue	800	1903
8.	Mrs. Nellie G. Stewart, 15 Norway Street, Boston	800	1908
8, 7.	Mary H. Joyce, 76 Boston Street	800	1891
7.	Elsie M. Ross, 15 Norway Street, Boston	800	1908
7.	Bessie M. Royce, 16 Dover Street	750	1914
6.	Lillian F. Richardson, 129 Mount Auburn Street, Cambridge	800	1904
6.	Marie Clifford, 35 Langdon Street, Cambridge	800	1907
5.	Marion Allen, Danvers	800	1911
5.	Eva E. Perkins, 48 Astor Street, Boston	800	1911
WILLIAM H. HODGKINS SCHOOL.			
Holland Street.			
	ARTHUR L. DOE, Master, 27 Spruce Street, Malden	\$1,900	1896
9.	Edith W. Emerson, 135 Central Street	875	1896
8.	Alice S. Hall, 135 Central Street	800	1896
7.	Mrs. Gertrude W. Leighton, 26 Gibbens Street	800	1895
7.	Augusta M. Harris, 80 Orchard Street	800	1914
6.	Isabel M. Brunton, 33 Walnut Street	750	1910
6, 5.	Flora A. Purgess, Arlington Heights	800	1894
5.	Catherine A. Burden, 33 Billingham Street	800	1902
4.	Genieve R. Barrows, 52 Westland Avenue, Boston	800	1905
4, 3.	Katherine M. Fox, Stoneham	800	1896
3, 2.	Inez Prentiss, 54R College Avenue	800	1913
2, 1.	Nellie F. Wright, 890 Broadway	800	1912
1.	May V. Powell, 47 Centre Street, Malden	800	1913
S. NEWTON CUTLER SCHOOL.			
Powder House Boulevard, near Raymond Avenue.			
	HARLAN P. KNIGHT, Master, 22 Hamilton Road	\$1,900	1897
9.	N. Irene Ellis, 29 Newbury Street	875	1903
8.	Elizabeth R. Henderson, 83 Ossipee Road	800	1912
8, 7.	Lilla E. Mann, 50 Curtis Street	800	1902
7.	Katherine A. Breen, 81 Avon Street	800	1912
6.	Edith A. Maxwell, 4 Whitfield Road	800	1906
5.	Bernice J. Andrews, 10 Locke Street	800	1914
5, 4.	Ella H. Bucknam, 1105 Broadway	800	1897
4.	Olevia M. Woods, 116 Powder House Boulevard	800	1908
4, 3.	Inez M. Rodgers, 96 Pearson Road	750	1915
3.	J. Elsie Macdonald, 50 Bromfield Road	650	1914
3, 2.	Almena J. Mansir, 77 Albion Street	800	1899
2.	Mary L. Ennis, 785 Broadway	650	1915
1.	Annie H. Hall, 97 College Avenue	800	1906

TABLE 29.—Teachers in Service January, 1916.—Concluded.

Grade.	NAME AND RESIDENCE.	Salary.	Began Service.
LINCOLN SCHOOL.			
Broadway, near Teele Square.			
	HARLAN P. KNIGHT, Master, 22 Hamilton Road . . . . .	....	1914
2.	Eliza H. Lunt, Principal, 50 Curtis Street	\$850	1889
3.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	800	1911
1.	Hortense F. Small, 91 Electric Avenue	750	1912
1.	Mrs. Ethel W. Cutler, 24 Brastow Avenue	600	1914
MARTHA PERRY LOWE SCHOOL.			
Morrison Avenue, near Grove Street.			
	FRANK W. SHABURY, Master, 18 Winslow Avenue . . . . .	....	1912
4.	MAY E. SMALL, Principal, 12 Day Street, Cambridge	\$950	1900
4.	Stella M. Holland, 32 Hall Avenue	800	1903
3.	Maude C. Valentine, 1098 Broadway	800	1901
3.	Mrs. Jane M. Taaffe, 159 Morrison Avenue	800	1888
2.	Katherine E. Hourahan, 15 Summit Street	800	1892
2.	Clara G. Hegan, 100 School Street	800	1897
1.	Martha A. Jencks, 10 Powder House Terrace	800	1898
1.	Eleanor J. Homer, 82 Hudson Street	700	1914
EVENING SCHOOL PRINCIPALS.			
	HARRY L. JONES, High	\$6.00	
	JOHN S. EMERSON, Bell	5.00	
	CHARLES E. BRAINARD, Highland	4.00	
CADET TEACHERS.			
	Ethel M. Gross, 7 Lowell Circle	\$200	1915
	Agnes M. Keating, 44 Tower Street	200	1915
	Dorothy L. Lundgren, 50 Harrison Street	200	1915
	Mary L. McKenna, 294 Lowell Street	200	1915
	Florence W. Schroeder, 268 Summer Street	200	1915
	Helen M. Farr, 8 Atherton Street	200	1915
	Bessie Thorpe, 16 Park Place	200	1915
SPECIAL TEACHERS.			
MUSIC.			
13-7.	James P. McVey, 103 Hammond Street, Cambridge	\$1,700	1915
6-1.	Mrs. Charlotte D. Lawton, 11 East Newton Street, Boston	1,000	1898
DRAWING.			
9-1.	Clara M. Gale, 7 Westwood Road	1,100	1911
SEWING.			
	Mary H. Brown, Supervisor, 85 Rockview St., Jamaica Plain	*200	1913
8-5.	Mary L. Boyd, 74 Heath Street	800	1888
8-5.	Mrs. Emma J. Ellis, 54 Marshall Street	800	1900
8-5.	Charlotte Holmes, 24 Cambria Street	800	1913
8-5.	Jennie Williston, 3 Monmouth Street	500	1913
PENMANSHIP.			
9-1.	Ruth L. Whitehouse, 333 Broadway	750	1915
MANUAL TRAINING.			
	Harry L. Jones, Supervisor, 137 Powder House Boulevard	†200	1911
9, 8.	Kathinka Fessman, 68 Warrenton Street, Boston	850	1912
9, 8.	Joseph S. Hawthorne, 18 Forster Street	1,000	1915
9, 8.	Eva G. Hardy, 64 Avon Street	850	1912
PHYSICAL INSTRUCTION			
9-1.	Ernst Hermann, 9 Humboldt Street, Cambridge	1,000	1914
ATYPICAL.			
	Mary A. Holt, 72 Boston Street	850	1910
	Bertha M. Martindale, 21 Highland Avenue	850	1913

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

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

TABLE 30.—OFFICERS, ETC., IN SERVICE JANUARY, 1916.

NAME AND ADDRESS.	Salary.
SUPERINTENDENT AND SECRETARY.	
Charles S. Clark, 75 Munroe Street	\$3,500
CLERKS.	
Justin W. Lovett, 29 Cambria Street	1,300
Mary A. Clark, 42 Highland Avenue	800
Mildred A. Merrill, 26 Cambria Street	650
ATTENDANCE OFFICER.	
Benjamin R. Jones, 25 Loring Street	1,350

TABLE 31.—SCHOOL JANITORS, JANUARY, 1916.

School.	Name.	Residence.	Weekly Salary
High School, S	John H. Kelley	7 Madison St.	\$25.00
High School, assistant	Andrew R. Burke	337 Lowell St.	14.00
High School, assistant	Maurice T. Mullins	13 Fremont Ave.	15.00
High School, assistant	John N. Quirk	202 Somerville Ave.	14.00
High School, assistant	Jeremiah J. Sullivan	60 Newton St.	14.00
High School, fireman	Charles Hoyt	18 Trull St.	16.00
Prescott, S, 12	George A. McGunnigle	88 Glen St.	17.00
Hanscom, S, 10	Charles F. Rose	15 Brastow Ave.	15.00
Boys' Vocational, F, 4	George H. Clapp	35-A Franklin St.	12.00
Bennett, S, 12	Michael Mullaney	467 Somerville Ave.	17.00
Baxter, S, 6	Israel Winterbottom	46 Laurel St.	14.00
Knapp, S, 12	John H. Lane	5-A Belmont St.	17.00
Perry, S, 6	*George B. Phillips	Everett St.	14.00
Pope, S, 12	John J. Kilty	662 Somerville Ave.	17.00
Bell, S, 12	William Meskill	53 Partridge Ave.	17.00
Cummings, F, 4	Lewis G. Keene	56 Prescott St.	16.00
Edgerly, S, 12	Charles P. Horton	22 Everett Ave.	17.00
Glines, S, 14	†Roy C. Burckes	249 School St.	18.25
Glines	Michael A. Mullin	16 Bowdoin St.	17.00
Forster, S, 18	George W. Coombs	30 Tufts St.	18.00
Forster, assistant	Jerry M. Brennan	9-A Glenwood Rd.	14.00
Bingham, S, 16	John F. O'Brien	347 Lowell St.	21.00
Carr, S, 16	*Albert F. Rich	206 Highland Ave.	23.00
Morse, F, 12	John W. Cremen	69 Oxford St.	17.00
Proctor, S, 8	Charles T. McGrath	320 Lowell St.	14.00
Durell, S, 4	Ellsworth C. Lundgren	50 Harrison St.	12.00
Burns, S, 8	*Daniel E. Cunningham	23 Fitchburg St.	15.00
Brown, S, 10	James J. Cooper	105 Willow Ave.	15.00
Highland, S, 12	E. Parker Cook	398 Highland Ave.	16.00
Hodgkins, S, 14	Chauncey B. Phelps	25 Joseph Street	17.00
Cutler, S, 12	Daniel Campbell	85 Lexington Ave.	20.00
Cutler, Assistant	Walter M. Burns	23 Avon St.	14.00
Lincoln, S, 4	Thomas F. O'Day	134 Lowell St.	14.00
Lowe, S, 8	John F. Richardson	190 Morrison Ave.	15.00
Girls' Vocational, assistant	*George W. Hooper	166 Lowell St.	14.00

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.

* Temporary.

Leave of absence.

PUBLIC LIBRARY.

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DREW B. HALL	Secretary and Librarian

Committees.

Administration—Wellington, Parker, Noyes, Fulton; the President.
Books and Catalogues—Barber, Yates, Buffum, Bryant; the President.
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-third 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 7, 1916.

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. to 1 p. m., also.

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

UNION SQUARE, Washington Street and Bonner Avenue—
2 to 9 p. m.

SOUTH AGENCY, 518 Somerville Avenue.

THE STAFF AS OF DECEMBER 31, 1915.

GRADED—PROFESSIONAL.

DREW B. HALL, Librarian.

LUCY B. CRAIN, Assistant Librarian, in charge of circulation, of staff personnel, and of "Central," and supervising children's work.

NELLIE M. WHIPPLE, Assistant Librarian in charge of West Somerville Branch.

Edith B. Hayes, Chief Cataloguer.

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

Esther M. Mayhew, Reference Librarian.

Lucinda F. Spofford, Branch Librarian, Union Square.

Carrie L. Williams, Branch Librarian, East Somerville.

Mabel Williams, High School Librarian.

Mabel E. Bunker, Assistant Branch Librarian, West Somerville.

Bessie L. Duddy, Secretary and Accounts. (Resigned June 19th.)

Hazel M. Graham, Secretary and Accounts.

Helen Luitwieler, Classification and Reference.

Anna L. Stone, Cataloguing.

Mary S. Woodman, Classification.

Senior Assistants.

Susan W. Curtis, West Somerville.

Juliana Donovan, Union Square.

Nectar M. Eksbergian, Cataloguing.

Ruth S. Fales, West Somerville.

Rose Greenberg, East Somerville.

Ethel M. Nute, Union Square.

Esther W. Shaw, Registration and Binding.

Helen P. Smith, Circulation.

Anna B. Truesdale, Children, West Somerville.

Elsie K. Wells, East Somerville.

Edna C. Woodbury, Children.

Junior Assistants.

Bertha F. Kerner.

M. Hope Carpenter.

Myrtle Nicholson.

UNGRADED—CLERICAL.

Typewriters.

Mary Morgan.

Marion L. Fall.

Pages.

Harold C. Fitz.

Lillian McGowan

Margaret T. Desmond.

Hazel Moore.

Mae L. Gormley.

Raymond Morrison.

High School Attendants and Pages on Part Time.

Lawrence W. Coddling

Hazel Cloyes.

Roger Estey.

L. Eugenia Carter.

Donald P. Geddes.

Evelyn G. Smith.

Ronald A. Moore.

Lucy M. Lannigan.

Edna D. Atwood.

Bessie Berman.

Frances E. Haggens.

Gertrude French.

ANNUAL REPORT OF THE LIBRARIAN.

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

Gentlemen,—The forty-third annual report of the Librarian is herewith submitted, being that for the year 1915.

Buildings.

The increased facilities of the new Central building for comfortable and extended library use have continued to prove themselves, especially the facilities for serious reading and study. On the administrative side it is proving more economical than the old building, so that the appropriation and expenditure has not been increased. Although the new building does not necessitate an increase, a few thousand more dollars is highly desirable to meet requests for additional books and more copies of those in serious demand. The walls of the children's room and staff quarters were painted in oils during the year by the building commissioner and it is his intention, we understand, to treat likewise the main floor next year. Such tinting would complete and add much to the finest building in the city.

In previous reports I have urged that proper provision be made for children at each of the branches. "Nowhere in the city's activities would a few hundreds (not thousands) of dollars do so much for the pleasure and good of the community." The truth of this statement is more widely appreciated than ever before. If the expressions at the library desks mean anything, the people would vote overwhelmingly to give both adults and children a better chance by freeing adult rooms from children.

This situation is especially acute in the very small room at East Somerville, which is about the size of two large parlors; being 17 by 35 feet. The smallness of the shelf space and seating capacity make it more extravagant to administer than any other building; the satisfaction received by the citizens less; and the difficulty of maintaining order greater. It ought to be transferred immediately to more suitable quarters; and I think the facts as to Somerville's population, which will be had officially in the forthcoming report on the State Census of 1915, will give a basis from which to urge a new building. At Union Square, space could very easily and economically be had by removing some partitions and renovating the rear room of the floor which it now occupies. For a sum in the neighborhood of one thousand dollars, changes could be made which would add a space 36 by 57 feet to the room 34 by 34 feet, now available. Proper

adjustment of partitions and loan desk would make it possible to serve the same number of readers comfortably in the two rooms with very little, if any, additional help.

Circulation.

The plan for extending and liberalizing the use of books was given its final form during the summer. In 1911 the first elements of the plan to be put into operation were a reserve system, methods of renewing books by mail, telephone or in person, and the extension of the number limit on non-fiction to any reasonable number. In 1912 the time limit on non-fiction was extended from a fortnight to a calendar month, and all card holders were given the privileges previously enjoyed only by "specials," for the librarian believes that what is good for one person may be appreciated and properly used by all. To guard against unreasonable delay to a second user who wanted a book that was out, the right to "recall" any volume after two weeks was retained. In 1913 re-registration of borrowers, begun at the end of 1912, was largely completed; so that positive identification of the person to whom a number had been assigned is possible, the "floating" cards in the hands of unauthorized persons were rendered useless and the legitimate card holders were properly protected in their use of the library. Preparation for occupying the new building, and the actual settling in it, made the adoption of further extensions in 1913 and 1914 seem unwise. This year has seen the final extensions of number and time limits on standard fiction. (See "Rules and Regulations," Appendix E.)

Use.

The use of these facilities of buildings and books has been more widespread than ever before. Nearly five thousand new borrowers have added their names to the register, making a total of 23,940 names since October, 1912; of these persons 15,126 have actually used their cards within the last two years. They have taken home, actually charged to them personally from the library desks, 422,456 volumes, which does not include estimates of any deposits or room use. A test not commonly applied is the number of books actually out at any one moment; on November 9 the number of volumes so charged was 13,123, the great majority of which were for month periods, the remainder for one week loans.

Departments.

The several departments have continued their work along the lines of the last few years. The newest one, the High

School Library, has increased in its influence, both as a factor in the high school work and as a connecting link between that large body of 2,000 juvenile citizens and the public library. The children's work at Central and the Branches has made substantial progress toward better self-control on the part of the children and better service on the part of the library in guiding reading. The influence of the moving picture has become a seriously disturbing one, and its power can be appreciated when it is realized that the citizens of Somerville are paying five dollars a year each to the "movies," totaling a sum ten times as great as the amount they appropriate for the library.

The catalogue revision, begun nearly four years ago, is mainly completed. Straightening out the difficult lingering questions and the finding of the last book are rather slow processes. To completing the catalogues of the Branch collections, attention must, if possible, be given immediately.

The reference work everywhere has gained, both in quantity and in quality. As careful attention is now given to getting the right novel as to getting the right answer to a "reference" question.

The reports of the heads of the several departments which follow, show the aims and accomplishments of the year's work in somewhat greater detail.

In General.

In the library affairs of the state, the library has been actively represented, as heretofore. The librarian has continued upon the executive committee of the Massachusetts Library Club and is with some frequency consulted on library matters by librarians and trustees; and has been requested by the Free Public Library Commission of the State several times to appear before legislative committees. The committee of the club for improving children's work throughout the state has received much support from members of this staff, as chairmen of the general committee and of one of its sub-committees; this work, which has just begun, seems to me to promise important results. Two of the branch librarians attended the American Library Association conference in Berkeley, California, and generous representations of the staff have been present at the three meetings of the Massachusetts Club.

Several important members of the staff have resigned during the year. In a staff where adjustment of person to duties and of duties to full capacity of the person are so exact as in this staff, such retirements occasion more than the ordinary re-adjustment, and are therefore to be much

regretted. The uncomfortable hours and severe conditions of library work necessitate compensation rather above the "market price." As has been urged at various times in the past two years, increases in certain grades of salary are extremely desirable, if not necessary, and no more than just.

As in the past, you gentlemen have this year watched carefully over the interests of the institution, and though there have been an unusual number of matters claiming your attention, the present result, I think you must realize, is worth while.

Very respectfully,
DREW B. HALL,
Librarian.

December 31, 1915.

EXECUTIVE REPORTS.

Staff Personnel, Juvenile Supervision, and General Circulation.**The Staff.**

Four of the senior assistants have resigned this past year, two to be married, one for a business position and one on account of ill health. The Librarian's secretary, who for fifteen years had given most faithful and efficient service, resigned in June to be married. These resignations have made some changes in the assignment of responsibility and routine work necessary, but the willingness of the assistants to fill in the gaps has been most gratifying.

In January, two Somerville young women were added to the staff from the apprentice class of 1914.

During the summer and fall, temporary positions were given three Simmons graduates, two of whom would have been given regular appointments had not Brooklyn and New York offered them larger salaries.

Among the ungraded assistants, there have been many changes. Boys, who have been in the library for some time, felt the desire to get into positions which promised more to future advancement. The attendants and pages, who are girls and boys attending the high school, leave us upon graduating for other lines of work or higher schools. The increased interest among the high school students in library work has been shown by the number applying for positions, some with the idea of continuing in library work. This is partly due to the talks given by the high school librarian on the use of the library and the development of a real library in the high school building.

Two Albany students spent the month of March in the library observing and getting general practice work. A young woman from Switzerland who was anxious to learn something of libraries and library methods in this country was also given an opportunity to get some practical experience in the various departments.

During October, November and December, two apprentices were given instruction in general work. One of the young women is a college graduate and the other had served for some time as an attendant in one of the branches.

School and Children's Department.

The children's work throughout the system has increased this last year both in circulation of books and in the use of the libraries as a place for reading and reference work. The Central children's room has shown the effect of an assistant in charge who knows children and juvenile books. The cir-

ulation has materially increased and the use of the room for school reference work has more than justified the expenditure of money for the small reference collection, but we feel the need of more books.

The problem of discipline has been given much thought and a reasonably quiet room, with seventy-five or more children at one time reading and selecting their books, is the result. We feel that a closer co-operation exists between the children and the library assistants. In general, the children show more respect for the library and are beginning to appreciate what we can do for them. This is largely due to having one or two assistants who know the books in the room and are able to interest the children in them.

At the West Somerville Branch, special attention given to the children has proved most valuable. Not only children, themselves, are constantly appealing to the children's worker for help in selecting their books but parents are more and more relying upon her for assistance in choosing books to read to their children. The work is handicapped, however, by the lack of space both for books and tables and chairs. Often, there are fifty children in the room with only twenty-eight chairs.

The East and Union Branches are devoting much time and energy to work with children and more and more have felt the need for a person who can give all of her time to them. The overcrowded condition of the rooms makes discipline doubly difficult. While there is much reference work done among the school children, we feel there is a great opportunity for more if there could be a librarian in charge of the children's work; it is impossible for one person to do full justice to both adults and children at the same time.

During the summer, a special collection of books suitable for the use of playground teachers was kept in the Central children's room. Two assistants, one from the Central Library and one from the Union Square Branch, told stories three times a week on the playground. The carefully selected program of fairy tales, mythological and hero stories was prepared for these story hours. While this proved a successful experiment, it is doubtful whether the library will feel justified in taking the time and strength of assistants for this work another year at its own expense.

School visiting has been done this year by the supervisor and two other assistants. We feel that this is an important part of the school work, as it gives us a closer insight into the needs of the teachers and an opportunity to acquaint the teachers with the resources of the library. Often, too, an opportunity is given to speak directly to a group of children about the library and books. During school

hours, classes have come with their teachers both to the Central Library and the Union Square Branch for book talks and instruction in the use of books for reference. Several times, similar talks have been given in the schoolroom by assistants from the library.

At the end of the school year, we realized that hundreds of books were showing the wear and tear of the years of service and that newer titles and fresher books must be added to the school library. Funds at the disposal of the library did not permit replacing all of the books and, consequently, the school deposits were only twenty-five instead of forty books as in previous years.

The picture collection suitable for school circulation has enlarged and will be added to, from time to time, as the demand from the teachers increases. We have also sent to the schools the "available sets" from the Library Art Club.

Intermediate Work.

The intermediate work, begun last year, has progressed slowly because of the lack of time to devote to it.

At the close of the high school, when many of the boys and girls come to the public library, a librarian is assigned to it and again for two hours later in the afternoon. A small section in the book room is used for books especially suited and attractive to the older boys and girls. Lists have been compiled on "Camping and Woodcraft," "School and College," "Adventure and Adventurers" and other subjects. The increasing number of boys and girls who voluntarily ask for help in their book selection shows the need of a person especially adapted for this work.

High School Library.

The co-operative work of the public and high school libraries has made some definite advancement this past year. The high school library is now entirely devoted to real library work, the pupils using it voluntarily from all departments rather than as a part of assigned work. This has made the discipline easier and afforded a better opportunity to introduce the pupils to a wider range of literature.

The beginning of this school year, a permit system was installed allowing boys and girls to go during school hours to the public library for reference questions which could not be answered in the high school library.

High school pupils are using the public library more freely for reference work and general reading. We are hoping before the end of the school year to give some instruction in classification and the use of simple reference books.

Circulating Department.

The circulation rules have been further extended this past year, and with the exception of new fiction, the time limit of all adult books has been made one month. Each adult borrower may now have, at one time on his card, one seven-day book, one unbound periodical and any reasonable number of other books.

The time limit on all juvenile books still remains two weeks and the children are restricted, for their own use, to one juvenile fiction and one juvenile non-fiction. (Appendix E.)

LUCY B. CRAIN.

Reference Department.

The reference work has increased during the year 1915, especially in the use of the bound periodicals for debating material and topics of current interest.

Books have been reserved on special shelves on the following subjects: California, Christmas, Civics, The European War, Hallowe'en, Abraham Lincoln, Social Service, Some Noted Biography, Thanksgiving, and Teachers' Training Class.

Through the special loan of reference or other restricted books, 916 volumes have been loaned.

Through the inter-library loan system, forty volumes were borrowed from the Boston Public Library.

Questions answered for the year, 1915:—

Reference	7,009
General Information	14,006
By telephone	244
	<hr/>
Total	21,259

Through the daily reference interchange with the branches 5,947 volumes have been sent to answer questions not satisfactorily handled by their collections.

To make the reference work more efficient, the following recommendations are made:—

Music Department: A title list of songs.

Literature: A complete set of the volumes indexed in "Grainger's Index to Poetry," for reference use only.

Better editions of the American and English poets.

Technical books: There has been an increase in the use of the books in the Technical department and I would recommend the purchase of more volumes of the following subjects: Engineering (Mechanical and Locomotive); Wireless Telegraphy; Automobiles; Stenography; Commercial Law; Bookkeeping and Accounting; Business Correspondence, and Salesmanship.

Fine Arts: Books on Decoration and Design; Costumes; Mechanical Drawing.

Vertical File: For the care and use of pamphlets, clippings, bulletins, programmes, lists and leaflets which have proved useful for daily information calls; in this file to be placed material to furnish the up-to-date information unavailable in books and unindexed in magazines.

ESTHER M. MAYHEW.

Catalogue Department.

This department has handled 12,945 volumes this year. Of this number 7,215 were new books added and 5,730 were old books reclassified.

The revision of juvenile books was begun March 1st and completed in September. This meant not only the handling of 1,542 volumes, but preparing cards for each title for the book room and children's room catalogues. We have practically finished the reclassification which was begun in September, 1912.

From January, 1914, there were two card catalogues in the book room, one of the revised books and one of the unrevised books. In August the process of combining these was completed, making one complete catalogue of all the books in the system. This catalogue contains 136,944 cards.

Dr. E. C. Booth gave the library fifty volumes on various subjects.

EDITH B. HAYES.

The Children's Room at Central.

During the year 1915 the aim has been to advance the work of the children's room along two lines—first, to help the children towards a love for literature as a further step beyond the mere desire to read, and second, to create among the users of the room a greater respect for the library as a public institution with a clearly defined use to be made of it by citizens.

The first needs felt for accomplishing these objects were a better collection of books and a better knowledge, on the part of the assistants, of the contents of the books. Both are a necessary equipment for improving the quality of the circulation and in regulating discipline.

During the year, 1,447 books were added to the children's room with especial attention to building up the reference collection, which now numbers 202 volumes, and to making more complete the classes of science, nature study, useful arts, biography, history and geography. In fiction, titles have been replaced which kept breadth of interest and

variety for the collection while only those new stories have been added which stood the test of critical reading. The total number of volumes, obtained by actual count of the revised shelf list in December, is 4,917.

From December, 1914, to June, 1915, a series of eighteen meetings was held for assistants who are working with children in order to give them some instruction in children's literature. The general principles of book selection were discussed and a list of standard stories for children was taken as a basis for book reviews during the winter. The classes of books considered were picture books, heroic biography, folk tales, stories for girls, stories of school life and athletics, editions of King Arthur, collections of poetry, adventure, United States history, Indians in history and legend. An examination was held in May for all who attended the meetings.

The children's room has been the scene of many encounters during the year with boys who were making a wrong use of the library, the worst feature of their abuse of library privileges being their lack of respect for an institution which might be of service to them. In almost every instance the lack of control over these boys has been greatest when they were not library members.

In a room open only to card holders the amount of time and energy spent on matters of discipline is relatively small, leaving a greater opportunity for library rather than police work. The policy of allowing every boy and girl whether he is willing to assume the responsibility of library membership or not to enter the children's room imposes a questionable expense upon the room, since the number of workers has to be related to the total attendance rather than to the total circulation. The use of the children's room as a rendezvous for "boy-crazy" girls has been nearly done away with, by making very clear to them that there would be no tolerance of their continuing in a wrong way of using the library.

As a help to children in choosing books for the summer vacation, a reading list was prepared, printed and distributed in June. At the same time, mounted pictures calling attention to the books on the list were posted on the bulletin boards with much resulting pleasure to the boys and girls and noticeable effect on the circulation of the books.

In the summer the illustrated material which had been accumulating as a nucleus for a picture file was sorted, the pictures were cut and classified and the mounted pictures at the branches were transferred to the Central collection. On January 1, 1916, there were 1,884 mounted pictures in the collection, of which 1,156 are of the stock size and filed

in the new cabinet in the children's room. A shelf list has been made of these and guide cards are being placed in the file. All requests which cannot be filled are kept as a basis for further extension of the range of subjects covered.

An effort was made during the spring to give instruction to school pupils in the use of the library. Classes of seventh and eighth grade pupils from the Bell, Vocational and Edgerly Schools with a total attendance of 216 came to the library for school reference work and talks on the use of the library. Instruction was given also to classes of the seventh and eighth grades at Forster School. During the fall visits have been made at Bell, Cummings, Glines, Forster, Bingham, Carr and Proctor Schools, covering eighty-four classrooms, in order to plan with the teachers for their school libraries.

From November 22 to December 18 an exhibition of children's books for boys' and girls' own libraries was held in the lecture hall with a special invitation to teachers to attend on the first two opening days. There were about 200 books chosen as those most worth ownership and a list of these was printed and distributed. The use of this exhibition was in the main by those who were intending to buy books for Christmas gifts to children and who came for suggestions before going to the bookstores. Although the total attendance was small, it represented so satisfactory a use of the exhibition that the library's effort seemed really to have been of some service to the community.

The children's room was closed a week, September 15 to 22, while the walls and ceiling were being tinted. During Christmas week three new pictures, reproductions of Abbey's paintings, were hung there. The children have been especially appreciative of the two scenes from Pennsylvania history, and rarely have to be told what historical episodes they illustrate. With the addition of a few good pictures and pieces of pottery, the room will be sufficiently decorated.

On the whole, the work of the children's room during the year has gained focus. The library has something worth while to offer to boys and girls. The problem for the coming year is to make it vital to a larger group of the children of Somerville.

ALICE G. HIGGINS.

High School Library.

Besides the steadily increasing reference work carried, and the supervision of the room, talks have been given to twelve groups of seniors and freshmen on the use of the library and the catalogue. These talks illustrated by charts

were followed by a problem to be done at the public library. The lectures were a success, but are not yet recognized as regular school work. Such recognition is the next step.

The high school librarian was appointed a member of the Vocational Guidance Committee of the high school, in view of the fact that she was taking the University Extension course with Mr. Bloomfield; and through the public library had a broad view of developments on this line.

During the February vacation several high school libraries were visited in New York City and Brooklyn, and many new ideas and much inspiration received. A full report of the visit has been filed.

At the end of the school year, in May, a statement of the progress made and of needs for the future was handed to the school authorities. Throughout the summer months, at irregular intervals, these needs were re-presented.

The walls of the room were retinted during the summer; ceiling whitened; new book shelves put in; the tables, desks, and woodwork done over. The improvement is greatly appreciated by teachers and pupils.

A permit system has been introduced with success. The librarian issues all permits, and is thus able to prevent overcrowding during any one period. The public library permit is a great benefit, especially to debaters.

At a joint conference of library and school authorities in November, arrangements were made for putting the use of the school library on an entirely voluntary basis; a definite sum of money was promised for books and periodicals from the school department; and a plan for freshman lectures was outlined, to be followed by detailed instruction to small groups in the school library.

The accessions to the library have been noticeably increased. The school department has added fifty volumes, including books of permanent value to the school; namely, reference, debating and vocational guidance. Twelve periodicals have also been subscribed for. The public library has purchased, especially for high school use, one hundred ten volumes. The book ordering has been done by the high school librarian after consultation with department heads of the high school. These books have been the direct means of opening new fields of work and of proving the serious intent and worth of such a department in the school.

More assistance will be absolutely necessary if the work increases as it now promises. There is an unlimited field for the development of the cultural side of the work,—book selection, and the encouragement of the reading habit. The teachers are more eager for this than any other one thing the new arrangement offers; and already the public library

is giving extra hours, almost doubling the time contracted for, not to mention the assistance given in preparing books for the shelves, and the reference work done through the interchange.

MABEL WILLIAMS.

Intermediate Work.

The need of an assistant to guide and care for the boys and girls too old for the children's room had been felt, and a year ago the intermediate work was organized to meet this want. There is a two-fold purpose in it: To guide the children in the selection of books and the use of the library, and to supplement the work done by the High School Librarian.

An assistant is scheduled every afternoon from 1.30-2.30 and from 3.30-5.30, as this is the time when the greatest number of boys and girls of this age come to the library. Since January, 1915, 1,621 questions have been answered, varying from requests for cross stitch designs and the best western story to material for high school debates. Lists of books suitable for these boys and girls have been prepared on the following subjects: Adventure and Adventurers; After School—What! ; Boy Life; Camping and Woodcraft; Girl Life; and School and College Stories.

We have a collection of about 100 books by some of the best known authors, and it is our desire that a child, after reading these, will seek others. At present we are unable to do as much individual work as we wish, because we should have more books in one place, and one or two tables, where we can help each reader quietly and to much better advantage than is possible at present.

HELEN LUITWIELER.

West Somerville Branch.

During the past year the activities of the West Somerville Branch Library have continued. Of the 10,425 books in the library, 1,116 have been added the past year.

Since the revision of the books and the catalogue was started, 5,000 books have been handled through the various processes required. To finish it rapidly, the cataloguing department has made arrangements to give the full time of three persons.

One of the most important functions of a branch is to assist the reader and the student in the search for books and information. During the past year, 13,000 questions have been handled on the floor; while 2,062 books have been sent from Central to meet their needs. Working men and women who come only at evening are glad of assistance in selecting books relating to their work; while there is a constant call

for good short stories, cheerful books for the invalid, stories of adventure and the sea. For the sake of reaching those people whom it is difficult to get to come to the Branch, we hope to do some systematic advertising in the stores and shops. This would establish a personal relation that would be exceedingly helpful to the Branch.

Special attention has been given to the "special shelf" where desirable books on various subjects have been placed, as, Trades and Professions; Summer Sports; Gardening; Out-of-door Stories; Travel and Biography.

The opportunities afforded in the children's room with a special assistant have been much appreciated. An increased interest is shown in the books and periodicals which are read by the children at the tables. Many of the books in that department have been discarded and replaced by new titles. The books for the younger readers as well as the fairy have been placed by themselves and the children have used them constantly, while some books for the intermediate grade have been placed together. The need of enlargement of room is again emphasized.

The thing in the daily routine of a library that most influences the public is the management of the issuing and charging of books. The past year an enlarged delivery desk has been installed which has given us better facilities to handle the large number of books issued with less congestion.

NELLIE M. WHIPPLE.

East Somerville Branch.

Particular attention has been given during the year to increasing the number and variety of children's books. Many new titles and replacements of standard books have been purchased to make a well rounded selection. An increase of nearly 1,000 in the juvenile circulation is the immediate result. Except for lack of shelf room the collection could be further enlarged to the advantage of the children.

A new catalogue case makes it possible to have the card catalogue in an accessible place, and after a complete revision under the direction of the catalogue department it will be of great assistance both to the public and to the assistants in charge.

The need of larger rooms increases with the growing use of the reading room. It will never be possible to provide a quiet reading place for the older readers while the entire space permits less than thirty chairs and the children frequently number from forty to fifty. But if it must do duty temporarily, it is gratifying to have it as pleasant and com-

fortable as additional light and fresh paint and paper can make it.

CARRIE L. WILLIAMS.

Union Square Branch.

On the fourth of March, 1916, the Union Square Branch completes its fourth year of service, and it has justified its existence.

The ordinary reader, the man or woman of fairly good education, who reads for entertainment or profit, will rarely go far to get his book. For the gangs of boys, who have no particular place to go, the branch is a place to spend a few profitable hours. To get and hold such readers is the business of the branch library.

This year we have accomplished the usual amount of work. We have spent much time in helping people get their first impressions and initiating them into the mysteries of the library, and have tried to raise the standard of reading; for "Reading is an art, an uplifting, consoling and educative art."

An attempt has been made to co-operate more fully and completely with the schools and to be more helpful to those who are new to our country.

During the year we have continued to have calls for books in foreign languages; Italian and Russian books being the most called for. Our Italian magazine, in spite of its delayed arrival, due to the war, is much used both for reading room and home use.

The library as an institution of no creed, an institution free to all people, is the best fitted to carry out the work of instruction in the history and traditions of our country and enable the foreigner to meet the new conditions. The children of these newcomers are much easier to reach than the parents, due without doubt, to their connection with our public school system, and to the inability of the parent to speak the language; and to the early traditions to which they still cling. A great many books reach the home only through the children. The father may come to the library to find out how to become an American citizen. Later it may be that a little one will come and say: "I have brought my mother to get a book." It is at this time that the librarian wishes for more books in the language, "book with pictures" and more time at her disposal. Our needs in this respect are:—

1. Space where foreign books can be kept together.
2. A room free from children; "a real grown up room."
3. A librarian who has much time to spend in welcoming, instructing and encouraging these new citizens.

Through the reading room the library has special opportunities to direct the "misfits" who come to the library for

clues to better occupations, and to help the young men or women who do not know what occupations are open to them.

In our efforts to co-operate with the schools and to promote worth-while reading, every schoolroom in the Union Square district has been visited. Some teachers have asked to have compiled lists of books suitable for home reading.

During the summer one of the librarians told stories on the Bennett School playground. From this, the Saturday morning story hour has been started at the Branch with these aims in view: To improve conduct, to familiarize the children with good books, and to establish more personal and helpful relations between children and the staff.

The Union Square Branch could never have reached its present efficiency or have circulated as many books had it not been for the daily interchange of books from the Central collection. The interchange circulation represents a higher quality than the room circulation and also shows the growing confidence in our ability to meet needs.

If the Branch is to promote good reading and interest people in books there must be available plenty of good fiction, drama, biography, books of travel and popular science, books of popular appeal.

The Branch needs books, plenty of books; not little used books, but a live collection and appropriations large enough to allow of the buying of plenty of new books; space to have the room arranged more homelike; space so that the adult readers can be comfortably seated and not at tables overcrowded with children.

Nowhere can a comparatively small sum be expended with more telling effect than in equipping the unused portion of the "Old Prospect Hill Schoolhouse" for library use. Nowhere in the city would the expenditure reach more homes or bring more hope and uplift.

LUCINDA FIELD SPOFFORD.

THE PUBLIC LIBRARY OF THE CITY OF SOMERVILLE.

APPENDIX A.

Statistical Report for 1915.

	Central.	West.	East.	Union.	Total.
Volumes in library, January, 1915	95,183	10,391	1,800	2,735	110,109
Volumes added	4,936				
Volumes transferred to	186				
Volumes transferred from	9				
Volumes withdrawn	6,751				
Volumes gained	*1,638	34	324	20	8,475
Total volumes January 1, 1916	93,545	10,425	2,124	2,755	108,849
Volumes circulated—Adult	142,466	90,438	39,561	41,625	314,090
Volumes circulated—Juvenile	41,064	27,605	15,701	24,006	108,376
Total volumes circulated	183,530	118,043	55,262	65,631	422,466
Estimated circulation "old basis"					97,516
Total circulation "old basis"					519,982
Registration	2,176	1,470	546	726	4,918
Valid borrowers' cards, i. e. issued or renewed within two years.					15,126

Decrease.

APPENDIX B.
Financial Statement, 1915.

	Central.	West.	East.	Union.	Total.
Materials:—					
Books	\$4,654 91	\$1,089 04	\$429 57	\$432 62	\$6,606 14
Music	27 69	11 91	.....	1 00	40 60
Periodicals	680 25	317 81	120 85	143 25	1,262 16
Binding	1,159 32	506 45	247 12	349 63	2,262 52
Total Books	\$6,522 17	\$1,925 21	\$797 54	\$926 50	\$10,171 42
Power:—					
Services	\$16,635 10	\$4,325 60	\$2,035 60	\$1,979 04	\$24,975 34
Tools:—					
Printing and Stationery	298 30	35 90	8 35	18 85	352 40
Express, Postage and Tele- phone	265 78	158 31	143 68	155 90	723 67
Catalogue Supplies and Sundries	1,081 73	53 24	14 83	19 02	1,168 82
Totals	\$24,803 08	\$6,493 26	\$3,000 00	\$3,099 31	\$37,391 65

And in addition \$457.02 for books from Funds; making a total for printed matter..... \$10,628 44
For janitorial service and care of buildings under the Commissioner of Public Buildings, \$6,627.70 was expended.

APPENDIX C.

American Library Association Form for Uniform Statistics.

Annual report for year ended December 31, 1915.			
Name of Library, The Public Library.			
City or town, Somerville; State, Massachusetts.			
Population served (State Census in 1915).....			86,854
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 for lending, 356 for reading.			
Hours open each week for lending (Central library).....			72
Hours open each week for reading (Central library).....			75
Number on staff (library service, adding part "timers" to make whole units).....			
			42
Number of volumes at beginning of year.....			110,109
Number of volumes added during year by purchase.....			7,063
Number of volumes added by gift or exchange.....			12
Number of volumes added during year by binding material not otherwise counted.....			
			140
Number of volumes withdrawn during year.....			8,475
Total number at end of year.....			108,849
	Adult.	Juvenile.	Total.
Number of volumes of fiction lent for			
home use.....	217,115	65,069	282,184
Total number of volumes lent for home use..	314,090	108,376	422,466
<i>All books except 7 day and juvenile (2 weeks) lent for one calendar month.</i>			
Number of borrowers registered during year.....			4,918
Total number of valid cards December 31 (<i>used within two years</i>)			
			15,126
<i>Registration period two years.</i>			
Number of newspapers and periodicals currently received, titles, 585 copies.			210

Receipts From

Unexpended balance:—	
Local taxation	\$40,302 23
State grants.....	
Endowment funds.....	888 62
Membership fees.....	
*Fines and sales of publications.....	1,512 82
Duplicate pay collection.....	
Gifts	
*Other sources: Dog licenses.....	3,284 95
Total	\$45,988 62

*These items are covered into the treasury of the City, which figures its appropriation to include them.

Payments For

Maintenance:—

Books	\$7,103 76
Periodicals	1,262 16
Binding	2,262 52
Salaries, library service.....	24,975 34
Other maintenance and incidentals.....	2,300 29

The following five sums aggregating \$6,627.70 were expended by the Commissioner of Public Buildings from separate appropriations:—

Janitor salaries and wages	2,841 40
Rent	240 00
Heat	1,072 87
Light	1,703 41
Buildings supplies, etc.	770 02

Total expenditures	44,531 77
Balances: Endowment income to 1916.....	557 71
Appropriation transferred by City Government to other accounts.....	899 14

\$45,988 62

APPENDIX D.
Trust Funds Accounts—1915.

RECEIPTS.

	Bal. from 1914.	Income, 1915.	Total.	Central.	West.	East.	Union.	Total.	Balance to 1916.
Cutler	\$29 90	\$45 98	\$75 88	.....	.....	.....	.....	.....	\$75 88
Hunt Art (objects)	44 89	114 01	158 90	\$55 40	.....	.....	.....	.....	103 50
Hunt Book	49 16	494 51	543 67	118 13	\$50 22	\$98 84	\$95 13	362 32	181 35
Pitman Art (books)	35 58	180 70	216 28	68 61	.....	.....	.....	68 61	147 67
Pitman Poetry	18 30	45 18	63 48	26 09	.....	.....	.....	26 09	37 39
Wilder Children	3 68	8 24	11 92	.....	.....	.....	.....	.....	11 92
Totals	\$181 51	\$883 62	\$1,070 13	\$268 23	\$50 22	\$98 84	\$95 13	\$512 42	\$557 71

EXPENDITURES.

APPENDIX E.

Rules and Regulations.

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 canceled.

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, will be charged for each volume or number over-detained.

RESERVES. Other than seven-day books and unbound periodicals may be reserved by the payment of one cent for a post-card notice, and the filling in of the card.

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

(See Librarian's Report—"Circulation" on page 7 for the plan of extension.)

BOARD OF HEALTH.

1915.

JACKSON CALDWELL, Chairman.

JOHN A. BLASER.

RALPH F. HODGDON, M. D.

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD.

Agent.

CALEB A. PAGE.

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, 1916. }

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

Gentlemen,—We respectfully submit the following as the thirty-eighth 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, 1915.

Nuisances.

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

Complaints investigated and causes removed:—

Animals kept in cellars	7
Blacksmith shops whitewashed	19
Cellar, water in	17
Cellars, filthy	11
Cesspools removed	1
Defective garbage houses	9
Dirty milk utensils	14
Factories unsanitary	4
Fish box unsanitary	8
Fish, foul odors from	4
Garbage thrown in yards	4
Hens being kept without permit	14
Hens running at large	2
Manure heaps, foul odors from	15
Milk rooms, screens not on	2
Plumbing unsanitary	35
Privy vaults, foul odors from	2
Roosters crowing	6
Rubbish on vacant land	18
Stables offensive	23
Stables whitewashed	64
Stables ventilated	6
Stores (bakeries) whitewashed	2
Stores and utensils dirty	32
Tenements unsanitary	8
Unlicensed animals	18
Unclassified	39
Water closets, foul odors from	3
Water-closets without water	2
Water pipes burst	2
Water turned off, house not tenantable	7
Yards filthy	124
Total	522
Complaints referred from 1914	6
Complaints received during 1915	522
	<hr style="width: 100%;"/>
Complaints referred to 1916	6
	<hr style="width: 100%;"/>
Nuisances abated 1915	522
Second, third and fourth notices sent on nuisances	36
	<hr style="width: 100%;"/>
Total notices sent	558

In addition to the above, 296 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.—Fourteen cases of glanders have been reported during the year, which was the smallest number reported for the last twenty years. Prompt action was taken in every case, and ten of the horses were killed, four 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.—Fourteen applications were received for permits to keep seventeen cows, which were granted.

Swine.—Eighteen applications were received for permits to keep forty-five swine, fourteen of which were granted to keep thirty-one swine. The fee is one dollar for each swine.

Goats.—Three applications were received for permits to keep three goats, which were granted. The fee is one dollar for each goat.

Hens.—One hundred and two applications for permits to keep 1,532 hens were received. Eighty-six permits to keep 1,440 hens were granted, and twenty-five permits were refused.

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

Melting and Rendering.—Two 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.—Fifteen persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

Pedlers.

Three hundred and twenty-three 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, twenty-two petitions for licenses to occupy stables were received, thirteen were granted, six were refused, and action on three is still pending.

Board of Infants.

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

Deaths.

There were 1,003 deaths and sixty-eight stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of thirteen.

Deaths at Somerville hospital during the year	69
Deaths at hospital for contagious diseases and tuberculosis	37
Deaths at home for aged poor (Highland avenue),	39
Deaths at city home	16
Deaths at other institutions	21

DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one	142	75	67
One to two	33	19	14
Two to three	14	11	3
Three to four	6	4	2
Four to five	6	3	3
Five to ten	23	8	15
Ten to fifteen	10	3	7
Fifteen to twenty	13	6	7
Twenty to thirty	42	22	20
Thirty to forty	69	34	35
Forty to fifty	92	46	46
Fifty to sixty	120	64	56
Sixty to seventy	169	73	96
Seventy to eighty	169	68	101
Eighty to ninety	81	28	53
Ninety and over	14	6	8
Total	1,003	470	533

Mortality in Somerville in 1915.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. GENERAL DISEASES.													
<i>(A. Epidemic Diseases.)</i>													
Scarlet fever		1	1	1	1								4
Diphtheria	4	1	2		2		1	3			5		18
Typhoid fever	1				1	2		1		2	2	2	11
Measles	3			2									5
Cerebro-spinal meningitis	1												1
Pertussis						4						2	6
Actinomycosis											1		1
<i>(B. Other General Diseases.)</i>													
Septicæmia	1	1		2							1		5
Rheumatism	2									1		1	4
Pernicious anæmia		1				1		2			1	1	6
Cancer breast		1		1			1		1		2		6
Cancer intestines	2	1	1		1	2	3		2		1	1	14
Cancer stomach	4	2		2	3	2		6	3	1	1		24
Cancer rectum							1				1	1	3
Cancer uterus	1	1			1			1	4			1	9
Cancer other forms	1	4	2	2		1	2	3	2	1	3	2	23
Diabetes		1		1	3	1	2		1	5	1	3	18
Tuberculosis pulmonary	6	8	10	3	8	5	3	9	4	1	6	6	69
Tuberculosis other forms	2	2			1								5
Abscess			1				1						2
Erysipelas					1							1	2
Status lymphaticus		1											1
Delirium tremens			1										1
Otitis media				1								1	2
Rachitis						1							1
II. DISEASES OF THE NERVOUS SYSTEM.													
Meningitis	1	1	1	1				1	1	2	1	1	10
Apoplexy	7	10	14	10	7	6	5	3	2	10	5	5	84
Paralysis	1	3				1			1	1	1		8
Hemiplegia					1				1		1		3
Epilepsy		1	2										3
Eclampsia					1				1	1			3
III. DISEASES OF THE CIRCULATORY SYSTEM.													
Heart disease	8	2	7	8	9	6	12	4	8	8	4	10	86
Endocarditis	3	2		3			2	1		2	1		14
Myocarditis	6	2	5	4	3	2	2	2	2	4	6	3	41
Phlebitis				1									1
Angina pectoris	2		1	1		2						2	8
Aneurism of aorta				1									1
Regurgitation		3	3	2	1	1	1		1		4	4	20
Pericarditis								1					1
IV. DISEASES OF THE RESPIRATORY SYSTEM.													
Pneumonia	21	14	18	28	6	7	3	6	9	9	8	18	147
Bronchitis	2	3		2	1		1	2		1	2	2	16
Pulmonary œdema	2				1	1		1	1				6
Pulmonary embolism		1		1									2
Asthma									1				1
Laryngitis	1											1	2
Influenza				1									1
Empyema								1					1

Mortality in Somerville in 1915.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISEASES OF THE DIGESTIVE SYSTEM.													
Acute indigestion				2	1		1						4
Colitis				1				2	3				6
Gastritis								1					1
Peritonitis	1	1		1	1	1							5
Diarrhea		1					1	1					3
Gastric ulcer										1			2
Enteritis				2			1	4	4	3	2	1	17
Jaundice												1	1
Intestinal obstruction	1			1		1	1	1				1	6
Appendicitis									1				1
Intestinal toxæmia				1									1
Cirrhosis liver								1				2	3
VI. DISEASES OF GENITO-URINARY SYSTEM.													
Bright's disease					2	1			1			1	5
Uraemia				1	1						1	1	4
Nephritis	3	5	2	7	5	2	1	2	5	3	6	3	44
Pyelitis												1	1
Paresis	2												2
VII. CHILDBIRTH.													
Placenta previa		1											1
Childbirth												1	1
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
Gangrene			1		1							1	3
Chronic eczema					1								1
IX. MALFORMATIONS.													
Hydrocephalus													
X. EARLY INFANCY.													
Malnutrition			1			1			2			1	5
Asphyxia neonatorum					2		1	1	1				5
Premature birth and congenital debility	6	5	4	5	7	5	4	6	2	5	2	10	61
Atalectosis	1												1
Overlying											1		1
XI. OLD AGE.													
Old age								2					2
Senile dementia	1	1		1			2	1	1	1	1		8
Arterio-sclerosis	6	8	5	4		6	4	7	9	6	5	8	68
XII. VIOLENCE.													
Drowning			1				1						1
Railroad					2	1						1	5
Suicide	4		1	1		1							7
Accidental burns from hot water							1						1
Accidental gas poisoning		1											1
Fracture of skull		1		1		2					1		5
Surgical shock						2	1	1					4
Accidental poisoning											1		1
Accidental fall						2			1	1		1	5
Run over by team						1			1		2	1	5
Accidental burns		1			1			1			1		4
Accidental electric shock									1				1
Total	107	92	84	106	76	71	59	77	77	69	81	104	1003

Population 86,854
 Death rate per thousand 11.55

Diseases Dangerous to the Public Health.

This board has adjudged that the diseases known as actinomycosis, anterior polimyelitis, 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.—Three hundred thirteen cases of scarlet fever have been reported during the year, four of which resulted fatally. In 1914 there were 376 cases, eleven of which resulted fatally.

Diphtheria.—Two hundred thirty-seven cases of diphtheria have been reported during the year, eighteen of which were fatal. In 1914 there were 307 cases, twenty-five 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 forty-one cases of tuberculosis have been reported during the year. There were sixty-nine deaths from this disease.

Typhoid Fever.—Thirty-one cases of typhoid fever have been reported during the year, eleven of which have proved fatal. In 1914 there were thirty cases reported, six of which were fatal.

Number of persons with diphtheria or scarlet fever taken in ambulance to hospital by agent	262
Number of cases of scarlet fever and diphtheria for which houses were placarded	276

Fumigation.

On September 3, the Board voted to discontinue disinfection with formaldehyde; the following instructions were adopted and a copy is left by the Agent at the premises, after the death, removal or recovery of persons ill with infectious diseases:—

Somerville Board of Health,
October 1, 1915.

This Board, having voted to discontinue disinfection with formaldehyde, recommends the following instructions to householders, after the death, removal or recovery of persons ill with infectious diseases.

1. Remove all washable clothes from the bed, such as sheets, pillow slips and blankets and wash them thoroughly with soap and boiling water.
2. Wash all washable clothes of the patient with soap and boiling water.
3. Give patient a thorough tub bath with soap and water, including a shampoo of the head.
4. Take all other clothes and bedding, including mattresses and pillows and place them out of doors in the fresh air and sunlight for eight hours.
5. Give the room and furniture, especially the bed, chairs and tables that the patient has touched, a thorough house cleaning with soap and water.
6. Open all windows and thoroughly air the room for eight hours.
7. Burn all paper, magazines, books, toys, etc., which the patient has used during convalescence, and which cannot be washed with soap and water or immersed in alcohol.

LAURENCE S. HOWARD,
Clerk.

Prior to the above date 584 premises were disinfected by the Agents, twenty were made at the request of attending physicians whose patients had been ill with typhoid fever, cancer, or other diseases. One hundred four schoolrooms were disinfected, sixty-four for scarlet fever, forty for diphtheria, and eight-one premises for tuberculosis, in compliance with the regulations passed by this board.

Many library books have also been disinfected, and quantities of infected bedding and other material have been burned.

TABLES.

The prevalence of scarlet fever, diphtheria, and typhoid fever in the city during the several months of the year 1915 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 1915.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	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 . . .	25	0	....	28	4	14.3	0	1	100.0
February . . .	32	1	3.1	35	1	2.8	1	....	....
March . . .	28	1	3.6	25	2	8.0	3	....	....
April . . .	51	1	1.9	27	0	....	1	....	....
May . . .	50	1	2.0	28	2	7.1	3	1	33.3
June . . .	29	0	....	10	0	....	1	2	100.0
July . . .	23	0	....	13	1	7.7	1	....	....
August . . .	5	0	....	5	3	60.0	7	1	14.3
September . . .	7	0	....	9	0	....	1	....	....
October . . .	18	0	....	12	0	....	9	2	22.2
November . . .	25	0	....	27	5	18.5	1	2	100.0
December . . .	20	0	....	18	0	....	3	2	66.6
Total . . .	313	4	1.3	237	18	7.6	31	11	35.7

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

MONTHS.	SCARLET FEVER.					DIPHTHERIA.					TYPHOID FEVER.									
	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.
January . . .	3	2	1	1	1	1	4	5	1	1	4	1	1	1	1	1	1	1	1	1
February . . .	2	1	1	1	1	1	3	3	4	2	1	1	1	1	1	1	1	1	1	1
March . . .	1	3	1	1	1	1	2	2	1	3	3	2	2	1	1	1	1	1	1	1
April . . .	1	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1
May . . .	1	1	1	1	1	1	1	1	1	1	4	2	2	1	1	1	1	1	1	1
June . . .	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
July . . .	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
August . . .	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1
September . . .	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
October . . .	1	1	1	1	1	1	1	1	1	1	3	3	3	4	1	1	1	1	1	2
November . . .	1	1	1	1	1	1	1	1	1	1	4	3	3	5	1	1	1	1	1	2
December . . .	2	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	2
Total . . .	12	4	9	5	3	2	4	11	4	15	9	11	27	20	15	14	13	25	18	11

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000
1906	1,004	13.94
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
Average death rate per 1,000 for ten years		12.63

Table Showing the Five Principal Causes of Death in Somerville in 1915.

PNEUMONIA.		HEART DISEASE.		APOPLEXY.		CANCER.		TUBERCULOSIS.	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
147	16.9	141	16.2	84	9.6	79	9.1	74	8.5

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 children 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, 9,000 children have been referred to the inspectors during their daily visits, and 573 have been sent home because of illness.

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

List of Diseases and Number of Cases Reported.

1. Infectious diseases:—	
Measles	216
Whooping cough	4
Chicken pox	49
Mumps	25
Scarlet fever	26
Total	320
2. Diseases of the nose and throat:—	
Enlarged tonsils and adenoids	657
Inflammatory diseases	160
Other abnormal conditions	80
Total	897
3. Diseases of the eyes:—	
Inflammatory conditions of the eyes and lids	43
Foreign bodies and injuries	2
Other abnormal conditions	104
Total	149
4. Diseases of the ears:—	
Inflammatory conditions	28
Other abnormal conditions	25
Total	53
5. Diseases of the skin:—	
Pediculosis	951
Impetigo	94
Scabies	9
Eczema	49
Tinea	16
Herpes	61
Miscellaneous conditions	140
Total	1,320

6. Miscellaneous diseases:—

Constitutional diseases	48
Diseases of the digestive system	140
Diseases of the respiratory system	80
Diseases of the circulatory system	11
Diseases of the lymphatic system	27
Diseases of the nervous system	57
Diseases of the urinary system	5
Wounds and injuries	51
Diseases of teeth	268
Other conditions	169
Total	856
Total number of diseases reported	3,595
Vaccinations performed	262
Examinations for vaccinations	1,006

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:—

R. A. Peckham, 154 Perkins street.

Edward Edwards, 25 Union square.

John Morrison, Highland avenue, corner Cedar street.

Percy A. Hall, Hobbs building, Davis square.

Henry W. Perry, 529 Medford street, Magoun square.

Richardson Pharmacy, 310 Broadway.

George E. Wardrobe, 693 Broadway.

Willis S. Furbush & Co., 1153 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-two persons have been duly licensed as undertakers.

Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

FINANCIAL STATEMENT FOR 1915.

Health Department.

CREDIT.		
Appropriation		\$13,500 00
Received from Highways Maintenance		200 00
Received from refunds		53 00
		\$13,753 00
Amounts transferred:—		
Inspection of milk and vinegar	\$50 00	
Police department	350 00	
Refuse disposal	800 00	
	1,200 00	
Net credit		\$12,553 00
DEBIT.		
Salaries	\$4,720 29	
Books, printing, etc.	264 79	
Telephones	170 43	
Care of tuberculosis in other institutions	2,064 39	
Care of other diseases	3,164 82	
Maintenance of vehicles	971 02	
Other expenses	472 14	
New auto ambulance and equipment	714 90	
	\$12,542 78	
Total debit		\$12,542 78
Balance unexpended		\$10 22

Contagious Hospital.

CREDIT.		
Appropriation		\$21,400 00
Received from Poor Department		57 86
Received from refunds		28 46
Transferred from City Home Account		46 00
		<hr/> \$21,532 32
Amounts transferred:--		
Water works extension	\$900 00	
Refuse disposal	200 00	
		<hr/> 1,100 00
Net credit		<hr/> \$20,432 32
DEBIT.		
Salaries and wages	\$9,738 73	
Groceries and provisions	8,376 34	
General supplies	1,320 10	
Other expenses	494 03	
		<hr/>
Total debit		\$20,429 20
Balance unexpended		<hr/> \$3 12

Inspection of Animals and Provisions.

CREDIT.		
Appropriation		\$1,250 00
DEBIT.		
Salary	\$1,200 00	
Expenses	25 51	
		<hr/>
Total debit		\$1,225 51
Balance unexpended		<hr/> \$24 49

Inspection of Milk and Vinegar.

CREDIT.		
Appropriation		\$2,700 00
Transferred from Health Department		50 00
		<hr/> \$2,750 00
DEBIT.		
Salaries	\$1,968 57	
Maintenance of laboratory	121 03	
Maintenance of automobile	422 69	
Telephone	22 79	
Printing, stationery and postage	124 58	
Other expenses	90 27	
		<hr/>
Total debit		\$2,749 93
Balance unexpended		<hr/> \$ 07

Inspection of School Children.

CREDIT.	
Appropriation	\$2,330 00
DEBIT.	
Salaries	\$2,280 00
Other expenses	45 40
	<hr/>
Total debit	\$2,325 40
	<hr/>
Balance unexpended	\$4 60

JACKSON CALDWELL, Chairman,
 JOHN A. BLASER,
 RALPH F. HODGDON, M. D.
 Board of Heath.

Attest:

LAURENCE S. HOWARD, Clerk.

REPORT OF THE MEDICAL INSPECTOR.

Somerville, January 1, 1916.

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

Gentlemen,—I herewith present the report of the medical inspector for the year 1915, including the statistics of the contagious disease hospital and the bacteriological laboratory.

Scarlet Fever. During the year 313 cases of this disease were reported in the city, a decrease of sixty-three in number from the previous year. 215 cases were reported during the first six months of the year, when the disease was particularly prevalent. Each case has been inspected before release from quarantine and 207 visits were made at residences to determine when desquamation was complete.

Diphtheria. During the year 237 cases of diphtheria were reported in the city, a decrease of seventy in number from the previous year. 144 cases were reported during the first five months of the year, when the disease was particularly prevalent. Before patients are released from quarantine two successive negative cultures must be obtained, and during the year 237 visits were made at houses for this purpose.

Typhoid Fever. During the year thirty-one cases of this disease were reported, an increase of one case over the previous year.

Tuberculosis. During the year 141 cases of this disease were reported, a decrease of eighteen cases from the previous year.

Ophthalmia Neonatorum. During the year forty-three cases of this disease were reported, an increase of five cases over the previous year. An investigation was made of all of these patients.

Contagious Disease Hospital.

During the year 396 visits were made at the hospital.

Scarlet Fever. During the year 146 cases were admitted, four of which proved fatal. The average stay in the hospital was thirty-eight days.

Diphtheria. During the year 162 cases were admitted, twelve of which proved fatal. The average stay in the hospital was sixteen days.

Tuberculosis. During the year sixty-three cases were admitted, twenty of which proved fatal. The average stay in the hospital was seventy days.

Other Diseases. Two cases of measles were admitted, three cases of erysipelas, one of post diphtheritic abscess, and one case of meningitis, which was fatal.

Bacteriological Department.

During the year, 1,217 examinations were made of diphtheria cultures, 242 examinations of sputum, and 103 examinations of blood for typhoid fever.

Respectfully submitted,

FRANK L. MORSE,

Medical Inspector.

REPORT OF INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass., January 1, 1916.

Board of Health:—

Gentlemen,—I herewith present my report for the year ending December 31, 1915.

In carrying out the provisions of Chapter 56, Revised Laws of 1902, and Chapter 329, Acts of 1908, many visits have been made to stores, and pedlers' teams examined in order to detect any food unfit for use. As a result of these inspections, the following tables show the amount of such foods found unfit for use.

Meats.

Fresh beef, 836 pounds; corned beef, 569 pounds; lamb, 721 pounds; veal, 416 pounds; poultry, 1,137 pounds; fresh pork, 485 pounds; salt pork, 139 pounds; common sausage, 42 pounds; smoked sausage, 210 pounds; pigs' feet, 108 pounds; liver, 84 pounds; tripe, 76 pounds; Hamburg steak, 97 pounds; lard, 27 pounds.

Fish.

Oysters in shell, 1 bushel; oysters opened, 4 gallons; clams opened, 6 gallons; clams in shell, 3 bushels; fresh mackerel (whole), 392; salt mackerel (whole), 131; fresh herrings (whole), 863; salt herrings (whole), 112; swordfish, 36 pounds; salmon, 43 pounds; pollock, 79 pounds; halibut, 227 pounds; haddock, 631 pounds; salt fish, 62 pounds.

Fruit.

Pears, 34 bushels; apples, 11 barrels; peaches, 38 baskets; cantaloupe melons, 16 crates; water melons, 8 whole; bananas, 21 dozen; grapes, 36 baskets; grape fruit, 6 crates; raspberries, 2 crates; blackberries, 38 quarts; strawberries, 82 quarts; lemons, 29 dozen; oranges, 9 boxes; plums, 14 baskets.

Vegetables.

Beets, 2 bushels; green beans, 4 baskets; tomatoes, 9 bushels; tomatoes, 37 cans; onions, 9 bushels; cabbage, 7 barrels; cucumbers, 6 bushels; celery, 245 bunches; green corn, 7 bushels; corn, 65 cans; lettuce, 9 dozen; greens, 11 bushels; common potatoes, 9 bushels; sweet potatoes, 8 baskets; squash, 12 barrels; asparagus, 46 bunches; turnips, 10 bushels; rhubarb, 9 crates; cauliflower, 47 heads.

Groceries.

Macaroni, 8 boxes; olives, 10 quarts; crackers, 15 cans; cereals, 271 packages; spices, 124 packages; currants, 22 packages (dry); pickles, $\frac{1}{2}$ barrel; cheese, 60 pounds; butter, 19 pounds; peanut butter, 6 pounds; tea, 24 pounds; coffee, 11 pounds; sugar, 43 pounds; condensed milk, 47 cans; salt, 295 pounds; flour, 14 bags.

Eggs.

Eggs, 68 dozen.

Inspected for 1915.

Constant supervision has been exercised over the different slaughter houses, markets, grocery stores and street

pedlers, in order that the products which they sell may be handled in a proper sanitary manner and thus safeguard the consumer. In carrying out this work the following table shows the number of inspections made.

Wholesale slaughter house	153
Retail markets and grocers	4,781
Retail fish markets	673
Retail pedlers and hawkers	1,724
Total	<u>7,331</u>

Slaughter House Inspection.

During the year weekly visits have been made to all of the large slaughtering establishments, and the animals inspected for disease. The number of animals slaughtered was larger than the previous year and totaled 1,510,473, as shown by the following table. Many improvements have been made during the year in the stock yards and hog houses, so that the animals could be better cared for, also great improvements in the sausage manufacturing rooms.

Swine	1,089,777
Cattle	30,031
Lambs	311,217
Veal	79,448
Total	<u>1,510,473</u>

Animals.

Frequent visits have been made to all of the stables in the city and all animals examined. The following table shows the number of inspections, the number of animals found diseased, and the disposition of each case. The fourteen horses quarantined for glanders is the smallest number quarantined in the past twenty years.

	Inspected.	Quaran- tined.	Killed.	Released.
Horses (glanders)	3,982	14	10	4
Cows	19			
Goats	3			
Swine (hog cholera)	186	137	12	125
Dogs (rabies)	14	6	3	3
Total	<u>4,204</u>	<u>157</u>	<u>25</u>	<u>132</u>

Lunch carts, bakeries and restaurants have been inspected 1,080 times during the year.

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.

Daily assistance has been rendered to the agent in his work and in conveying patients to the Contagious Hospital by ambulance.

Respectfully submitted,

CHARLES M. BERRY, V. S.

Inspector.

REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

LABORATORY OF INSPECTOR OF MILK AND VINEGAR. }
 City Hall Annex, Somerville, Mass., January 1, 1916. }

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

Gentlemen,—I herewith present my annual report for the year ending December 31, 1915.

On the above date there were in this city licensed to sell milk, five hundred twenty-eight stores and sixty-nine pedlars, and thirteen stores to sell oleomargarine.

Of the sixty-nine pedlars thirty-three are located in this city and thirty-six in the neighboring cities and towns.

There are approximately 6,500 gallons of milk distributed in Somerville daily, and twenty-eight dealers selling pasteurized milk supply over eighty per cent. of this amount.

Table 1.

Months.	Licenses Issued.	License Fees.	Analytical Fees.	Cash paid City Treas.	Analyses on Account.	Total Income for Dept.
January	14	\$7.00	\$2.00	\$9.00	\$20.50	\$29.50
February	6	3.00	10.50	13.50	13.00	26.50
March	13	6.50	2.50	9.00	69.50	78.50
April	58	29.00	2.50	31.50	44.50	76.00
May	293	146.50	2.00	148.50	45.50	194.00
June	121	60.50	.50	61.00	44.00	105.00
July	24	12.00	1.00	13.00	12.50	25.50
August	15	7.50	16.50	24.00	28.50	52.50
September	13	6.50	1.00	7.50	16.50	24.00
October	19	9.50	2.00	11.50	41.00	52.50
November	11	5.50	....	5.50	27.50	33.00
December.	23	11.50	....	11.50	69.50	81.00
Total	610	\$305.00	\$40.50	\$345.50	\$432.50	*\$778.00

* In addition to above fines imposed amounted to \$205.00 and one case continued for sentence.

Table 2.

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

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples left at Office.	Total Examinations.
January	74	42	30	146	41	187
February	175	127	16	318	26	344
March	244	96	108	448	144	592
April	191	66	62	319	69	388
May	222	81	22	325	88	413
June	182	116	41	339	84	423
July	139	99	94	332	21	353
August	233	83	4	320	83	403
September	250	111	0	361	27	388
October	112	80	137	329	84	413
November	198	77	17	292	49	341
December	173	165	32	370	99	469
Total	2,193	1,143	563	3,899	815	4,814

Table 3.

Months.	Chem. Notices.	Bact. Notices.	Sanitary Notices.	Total Notices.	Inspections.	Infected Samples.
January	13	4	8	25	51	0
February	44	4	5	53	60	2
March	41	3	65	109	52	0
April	53	8	14	75	24	1
May	34	4	4	42	22	0
June	37	4	50	91	102	0
July	40	0	15	55	50	2
August	41	3	4	48	41	0
September	53	6	2	61	40	0
October	4	4	40	48	40	0
November	12	1	5	18	66	1
December	2	6	15	23	31	3
Total	374	47	227	648	579	9

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, examina-

tion of milk from dairies for visible dirt and bacteriological standard, inspection of milk plants and stores and the taking of samples of milk at railroad stations, teams, stores, lunch rooms and hotels. I desire to call attention to the increased number of samples analyzed in the laboratory during 1915. This was made possible by the appointment of George E. Plimpton, as collector of samples, in February.

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); the sterilization of all apparatus used in this work; notifying dealers of chemical, bacteriological and sanitary violations and the prosecution of court cases where advice and instruction do not accomplish the required results.

Nuisances dealt with by this department were as follows: Dirty milk containers, improper tasting of milk, milk containing foreign substance, improper use of milk bottles, dirty tanks, dirty chests, high temperature, unsanitary cow barn, tuberculous cattle, milk believed to be infected, oleo being sold for butter, and vinegar suspected of being adulterated.

In addition to the inspections shown in Table No. 3, there were 354 dairies inspected and scored and 336 permits were issued to produce milk for sale in this city. Eighteen permits were refused and seven dairies were excluded.

Prosecutions in court were as follows:—

- Milk below standard.
- Cream below standard.
- Watered milk.
- Watered cream.
- Selling skim milk as pure milk.

I desire to express my appreciation of the very efficient assistance rendered this department by the City Solicitor in the prosecution of these cases, as convictions were obtained in each instance.

Table 4.

	1911	1912	1913	1914	1915
MILK INSPECTION—CITY.					
Samples of milk and cream, ice cream and vinegar for chemical analysis	916	1,001	876	787	3,008
Number found below grade	98	146	106	70	374
Samples of milk and cream for bacteriological analysis	1,024	740	820	752	1,143
Number found above 500,000 bacteria per C.C.	62	102	66	58	47
Temperatures of milk and cream taken	1,520	1,500	1,690	1,599	2,006
INSPECTIONS.					
Number of stores and depots handling milk	575	559	480	517	610
Number of inspections made	980	1,002	753	1,004	1,227
Number of re-inspections made	125	120	687	190	162
Number found contrary to regulations on 2d insp.	123	118	98	25	*
Average number of inspections per store, including re-inspections . . . . .	....	....	3	2.35	....
LICENSES.					
Number of licenses for wagons issued	105	98	78	72	69
Number of licenses for stores issued	470	461	480	517	528
Number of licenses refused	1	2	2	0	2
Number of licenses revoked	2	1	0	0	0
LEGAL CASES.					
Suits instituted	10	9	7	11	17
Convictions	9	8	6	11	16
Pending	0	0	0	2	1
Fines imposed	\$125	\$100	\$62	\$105	\$205†
MISCELLANEOUS MILK DATA.					
Total daily supply (gals.)	5,800	6,000	6,200	5,665	6,250
Per cent. of milk pasteurized	44	44	56	60	80
Average price of milk, winter	9	9	9	9	9
Average price of milk, summer	8	8	8	8	8
Letters or orders sent. (See sanitary notices.)					
Total daily cream supply (gals.) . . . . .	....	....	....	420	450

* This work was taken over in May by the Sanitary Inspectors.

† One case continued for sentence.

Table 5.—Infantile Mortality.

Year.	Births.	Deaths under 1 year, all causes.	Deaths due to enteric diseases.
1911	1618	166	48
1912	1839	142	45
1913	1861	166	45
1914	1992	147	33
1915	Birth returns incomplete	142	25

Table 5 shows a steady increase in the number of infants born and shows also a steady decrease in the number of babies dying from intestinal diseases.

Pasteurization.

Once more I wish to register my firm belief in the process of pasteurization.

The time has come and gone when the benefits derived from this process can be questioned; especially in a large city like Somerville.

From a sanitary standpoint the value of pasteurization is of the greatest importance and I can best illustrate by quoting from a bulletin of the United States Department of Agriculture, as I did in last year's report.

"Throughout the country there is today a rapid extension of the practice of pasteurizing milk. Some of the larger cities (New York and Chicago) have passed statutes requiring the pasteurization of all milk except that from tuberculin-tested cattle. This growing demand for pasteurization comes from the increasing realization of the fact that milk is a medium for distributing tuberculosis, typhoid, diphtheria, scarlet fever, septic sore throat, and intestinal troubles, the past ten years having shown hundreds of serious epidemics traced to the milk supply. Moreover it has been realized also that no safeguards placed around milk at its sources can wholly remove these dangers; for occasionally such epidemics have been traced even to certified milk which has been produced under as ideal conditions as it is possible to devise. A typhoid bacillus carrier may at any time unconsciously be employed in a dairy and be the means of a typhoid epidemic

among the patrons of the dairy. The impossibility of sufficiently guarding milk at its source has led health authorities to urge pasteurization as the only means of protecting the public from these considerable dangers. This is urged the more confidently because by the American method of pasteurizing, the milk may be rendered safe without changing its physical or chemical character, or its taste and the food value of the milk, but a higher temperature is used in Europe than on this side of the Atlantic. The American method of pasteurization consists in heating the milk to 140 to 145 degrees F. and maintaining that temperature for half an hour. Such treatment does not affect the taste, the cream line, or the digestibility of the milk, but it does destroy all the disease germs that get into the milk and renders it safe even for use as food by the delicate infant. Public pasteurization or home pasteurization are equally efficient if performed with care. The only perfectly safe milk for drinking purposes is that which has been pasteurized."

Pasteurization at present is looked upon with favor by medical men, sanitarians, dairymen, and consumers, but the art has not been developed without opposition. Most of the objections to pasteurized milk have been based on theory or on experiments in which milk was pasteurized at high temperatures and in view of our modern knowledge of the process are of no great importance.

High temperature pasteurization of earlier days should not be confused with low temperature pasteurization of the present day.

Not until recently has the use of low temperatures entirely changed the views of scientists in regard to the value of pasteurization.

The fallacy of the objection to pasteurization has been shown, however, through scientific research in the past few years and as a result the value of the process has been firmly established.

Realizing the public demand for the protection of the milk supply, the smaller dealers are endeavoring to find a means to meet this demand. About twenty per cent. of the milk used in Somerville is raw milk. If means could be found to provide a Central Pasteurizing Plant under Municipal Control the safety of the citizens of Somerville from infected milk would be assured for all time and the problem of a safe milk supply solved.

The problem of pasteurization is not based simply on the question of which is preferable, raw or pasteurized milk, but rather upon the most economical and practical way of producing a *safe* milk supply.

In small cities, where money enough is available to pay for inspection and where the milk supply is drawn from farms

within a short distance of the city, it *may* be possible without pasteurization to bring the supply to a point of reasonable safety.

To produce, however, the same degree of safety in the supply of a large city by inspection would involve a tremendous expense.

I believe that milk pasteurized and controlled by the city would involve the least possible loss in food value and flavor, also that this is a perfectly practical suggestion, and would involve the least expense to our city, of any system of inspection and control that can be devised.

In closing I wish to remind the citizens of Somerville that the service of this department is at their disposal at all times upon any matter with which we can consistently deal.

Very respectfully,

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.

Committees.

ON FINANCE, INVESTIGATION AND RELIEF, AND CITY HOME—Dr. Curtis,
Mr. Edmands and Mr. Koen.

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, 1915.

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 of the work, are included in this report. The membership of the board remains the same as last year, the general agent, secretary and clerk are the same, also the warden and matron of the City Home. The Home Hospital has been a great help to us in our work this year, in fact we do not see how we could get along without it; as many chronic cases cannot be admitted to other hospitals, we have allowed many of these cases to go to our hospital, where they have been made comfortable in their last days. The inmates of the Home vary from year to year, but are increasing slowly. The farm has produced a fairly good crop and the produce has sold at fair prices—the revenue from the Home plant amounted to \$5,640.50. We have had during the year about sixty Mother's Aid cases—we are aiding at present fifty-two families under this law, amounting to nearly \$1,000 per month. Our relations with the state, cities and towns are pleasant and cordial. We have, however, agreed to a friendly suit with the state in one or two cases and of course expect to win. Total collections for the department have been \$13,857.94; total expenditures for the department were \$56,709.63.

Respectfully submitted,

HENRY F. CURTIS, }
ALBERT W. EDMANDS, } *Overseers*
PHILIP KOEN, } *of the*
 } *Poor.*

REPORT OF THE GENERAL AGENT.

Somerville, Mass., December 31, 1915.

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

Gentlemen,—The following is a brief report of the work of the department for 1915. The year has been a memorable one on account of so many men being out of work, especially the first three months of the year; later there was more work and things became normal, although more aid has been required than in any year of the city's history. The city government has been very liberal and prompt in supplying the needed appropriations; the whole amount expended for miscellaneous, \$45,490.88, and for the City Home, \$11,218.65, has been cheerfully placed at our disposal. The Mother's Aid law is now in full swing and we have over fifty families on our list. The liberal amount given these families of course has its influence on other cases and is one of the reasons for the larger expenditure. I wish to extend my sincere thanks to the members of the board for their kindly co-operation in all matters brought before them—the year has been a very pleasant one in the office as well as the Home department. His Honor, the Mayor, has been very kind and has helped us in many ways, and we certainly appreciate it.

Sincerely,

C. C. FOLSOM,

General Agent.

Table No. 1.**FULL SUPPORT (During the year).**

In city home (men 59, women 35)	94
In city home December 31, 1915	40
In private families	7
In hospitals for the sick in other towns, cities and state	57
In care of state division minor wards (children)	10

Table No. 2.**PARTIAL SUPPORT (Outdoor Relief).**

Families	507
Persons aided (including hospital cases)	2,532
Burials	12
Permits to state infirmary	16
Average expense to the city for each (carriage for 5)	\$2.13

Table No. 3.**AID UNDER 1913 LAW.**

Number of applications from widows or deserted women	57
Number of families aided at close of year	51
Number of children	194
Amount earned by mothers and children over fourteen, each week	\$183.00
Amount allowed each family, from \$2.00 to \$9.00 per week	
Number of out of town families	18
Number having no settlement	5

Table No. 4.

REIMBURSEMENTS.

Commonwealth of Massachusetts	\$4,285 75
City of Boston	663 74
“ “ Brockton	323 44
“ “ Everett	108 83
“ “ Fall River	54 36
“ “ Gloucester	15 71
“ “ Lawrence	8 10
“ “ Lowell	238 01
“ “ Malden	129 68
“ “ Medford	285 37
“ “ New Bedford	119 90
“ “ Newton	125 50
“ “ Salem	51 43
“ “ Springfield	25 02
“ “ Taunton	43 00
“ “ Waltham	40 00
“ “ Woburn	151 39
Town of Amherst	416 39
“ “ Arlington	172 05
“ “ Burlington	78 20
“ “ Concord	86 32
“ “ Duxbury	138 67
“ “ Framingham	12 86
“ “ Hanson	79 33
“ “ Lancaster	8 00
“ “ Marblehead	2 50
“ “ North Andover	18 57
“ “ Provincetown	6 00
“ “ Saugus	135 35
“ “ Stoneham	34 00
“ “ Wakefield	5 00
“ “ Watertown	40 92
“ “ Westminster	3 00
“ “ Whitman	133 33
“ “ Winchendon	25 71
Relatives	151 96
	<hr/>
	\$8,217 44

Table No. 5.

SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS).

Patients having settlement in Somerville	158
Patients having settlement in other cities or towns	68
Patients having no settlement (chargeable to state)	115
Total number of patients sent to hospital	341
Money paid hospital by the city for patients settled in Somerville	\$5,000 00
Amount reimbursed to the city and paid to the hospital for patients not settled in Somerville	1,186 30
	<hr/>
Total paid to the hospital	\$6,186 30

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1883 TO 1915, INCLUSIVE.

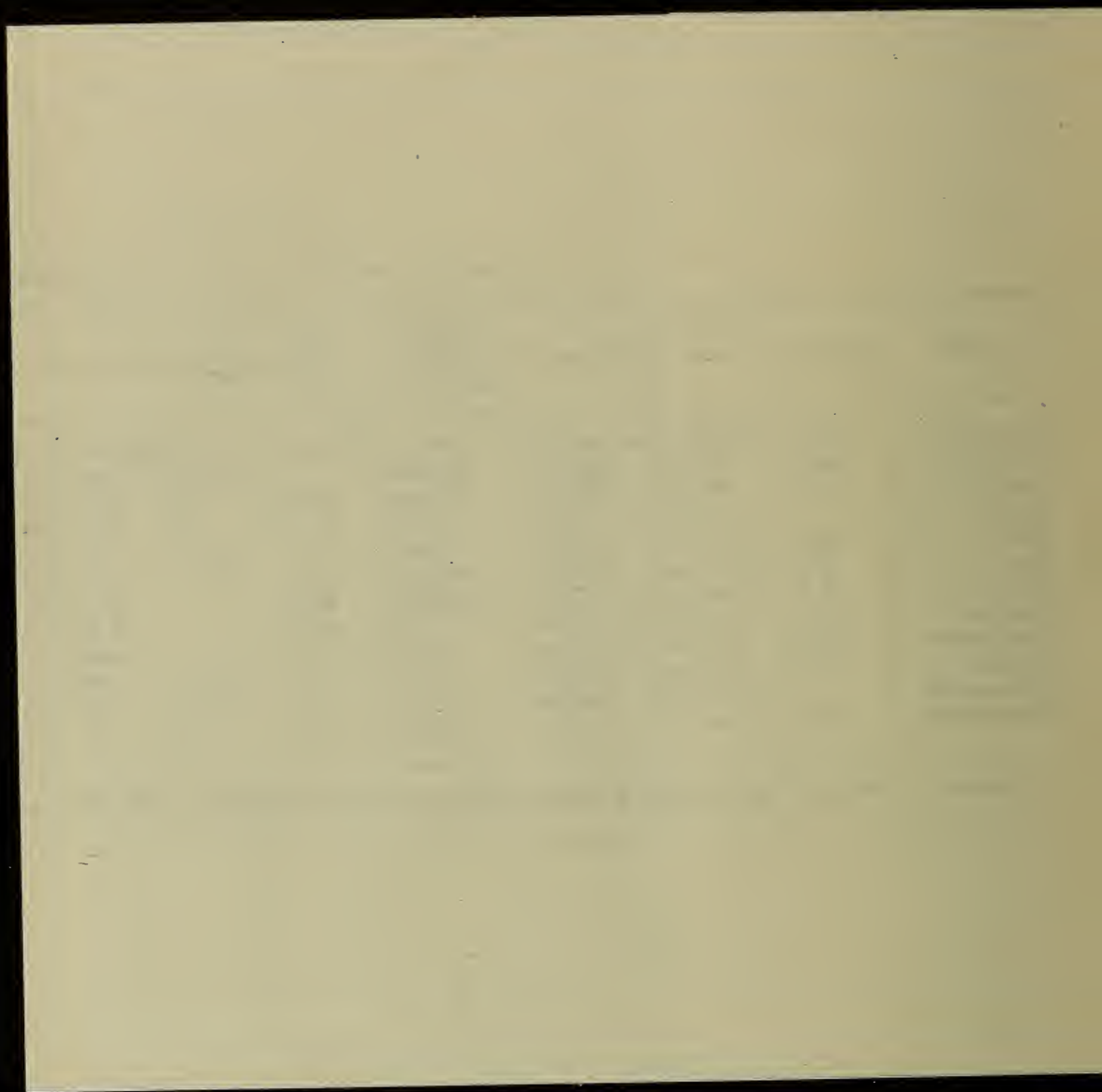
Year.	Population (Estimated).	Expenditures.
1883	27,000	\$15,959.80
1884	28,000	17,272.52
1885	*29,992	16,430.32
1886	32,000	14,341.83
1887	34,000	13,430.89
1888	36,000	13,375.98
1889	39,000	14,610.92
1890	*40,117	15,261.14
1891	43,000	15,980.49
1892	46,000	17,015.30
1893	48,000	17,799.58
1894	50,000	19,733.13
1895	*52,200	20,755.46
1896	54,000	21,999.79
1897	56,000	25,681.47
1898	57,500	28,522.21
1899	60,000	28,924.39
1900	*61,643	{ Miscellaneous, \$23,697.62 } { City Home, 5,528.83 } 29,226.45
1901	62,500	{ Miscellaneous, \$29,171.15 } { City Home, 6,622.43 } 35,793.58
1902	63,500	{ Miscellaneous, \$28,667.04 } { City Home, 7,396.64 } 36,063.68
1903	65,500	{ Miscellaneous, \$30,470.20 } { City Home, 7,548.39 } 38,018.59
1904	69,500	{ Miscellaneous, \$20,476.54 } { City Home, 6,563.11 } 27,039.65
1905	*69,272	{ Miscellaneous, \$17,527.88 } { City Home, 7,474.36 } 25,002.24
1906	72,000	{ Miscellaneous, \$18,237.53 } { City Home, 6,806.79 } 25,044.32
1907	74,000	{ Miscellaneous, \$17,852.20 } { City Home, 7,001.23 } 24,853.43
1908	75,500	{ Miscellaneous, \$17,955.34 } { City Home, 6,875.56 } 24,830.90
1909	75,500	{ Miscellaneous, \$16,843.17 } { City Home, 7,562.83 } 24,406.00
1910	*77,236	{ Miscellaneous, \$16,110.42 } { City Home, 7,695.89 } 23,806.31
1911	78,000	{ Miscellaneous, \$16,327.56 } { City Home, 7,842.03 } 24,169.59
1912	81,000	{ Miscellaneous, \$19,201.33 } { City Home, 8,998.97 } 28,200.30
1913	82,000	{ Miscellaneous, \$21,827.73 } { City Home, 10,945.95 } 32,773.68
1914	85,000	{ Miscellaneous, \$35,619.68 } { City Home, 11,200.25 } 46,819.93
1915	88,000	{ Miscellaneous, \$45,490.98 } { City Home, 11,218.65 } 56,709.63

*Census.

Table No. 7.

EXPENDITURES, IN DETAIL, FOR THE YEAR 1915.

1915.	Medicine.	Board.	Groceries.	Somerville Poor in Other Cities and Towns.	Boots and Shoes.	Dry Goods.	Burials.	Salaries.	Fuel.	Sundries.	Cash Paid Out.	Telephone.	Stationery and Printing.	Somerville Hospital.	State Infirmary.	Nursing.	Somerville Poor in other Cities and Towns 1913 Law.	Total.
January . .	\$4.99	\$226.98	\$1,949.00	\$727.18	\$8.00	. . .	\$25.00	\$374.99	\$330.17	\$1.00	\$1,688.26	\$19.03	\$8.33	. . .	\$78.00	\$72.75	. . .	\$5,513.68
February .	28.18	77.00	1,520.03	615.23	. . .	\$17.91	63.00	374.99	189.82	. . .	782.55	9.53	11.27	. . .	. . .	8.00	. . .	3,697.51
March . . .	74.52	277.20	1,553.50	55.04	10.00	. . .	10.00	399.98	198.85	22.50	237.55	8.83	. . .	\$450.00	. . .	. . .	. . .	3,297.97
April . . . .	. . .	137.87	1,148.75	2.00	. . .	. . .	10.00	383.32	14.38	107.00	906.80	9.33	23.00	150.00	83.00	10.25	. . .	2,985.70
May	15.87	171.72	1,336.90	647.85	. . .	4.00	25.00	383.32	. . .	15.03	888.81	9.50	4.41	150.00	. . .	4.25	\$717.09	4,373.75
June	9.22	303.04	1,400.25	133.43	. . .	. . .	. . .	383.32	. . .	5.00	944.80	8.83	7.59	150.00	. . .	6.75	621.12	3,973.35
July	3.50	155.36	1,181.90	2,162.13	6.50	. . .	80.00	383.32	. . .	12.15	1,025.70	9.07	22.90	150.00	105.50	5.75	. . .	5,303.78
August . .	16.83	117.92	1,114.50	. . .	. . .	. . .	5.00	383.32	. . .	9.00	1,079.70	9.91	. . .	. . .	. . .	28.00	. . .	2,764.18
September	54.57	324.03	1,248.70	35.10	. . .	. . .	58.00	443.32	. . .	4.05	1,164.50	8.83	11.51	. . .	. . .	18.75	. . .	3,371.36
October . .	5.98	172.71	1,258.50	. . .	. . .	2.00	10.00	383.32	. . .	11.20	1,085.35	9.10	11.50	. . .	90.00	8.25	. . .	3,047.91
November .	. . .	107.85	996.50	71.21	. . .	. . .	. . .	383.32	207.15	6.00	1,157.00	9.36	1.04	. . .	. . .	3.00	924.66	3,867.09
December .	12.21	282.21	756.50	512.36	. . .	. . .	. . .	383.48	161.46	3.00	585.45	. . .	11.00	136.30	. . .	10.00	416.47	3,270.44
Totals . .	\$225.87	\$2,353.89	\$15,465.03	\$4,961.53	\$24.50	\$23.91	\$286.00	\$4,660.00	\$1,101.83	\$195.93	\$11,546.47	\$111.32	\$112.55	\$1,183.30	\$356.50	\$175.75	\$2,679.34	\$45,466.72



Overseers of the Poor of Somerville
SINCE THE REORGANIZATION IN 1885.

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

* Present member.
† Deceased.

Table No. 8.

RECAPITULATION (MISCELLANEOUS).

Appropriation and transfers	\$45,527 89
Reimbursements	8,217 44
	<hr/>
Total receipts	\$53,745 33
Total expenditures	45,490 98
Net expenditures	37,273 54

REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1916.

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

Gentlemen,—I submit the following as the report of the warden of the city home for the year ending December 31, 1915:—

Table No. 1.

REIMBURSEMENTS.

Farm produce sold	\$3,883 61	
Board of sundry persons	1,756 89	
		\$5,640 50

Table No. 2.

LIVING EXPENSES.

Salaries and wages:—		
Warden and matron	\$1,350 00	
Domestic labor	1,613 96	
Farm labor	1,388 25	
Other expenses:—		
Groceries and provisions	3,253 52	
Dry goods, clothing and shoes	385 19	
Drugs and medicine	161 16	
Kitchen utensils and supplies	171 29	
Farm equipment	412 76	
Live stock and feed	282 59	
Garbage	317 75	
Hay, grain and straw	832 29	
Horse shoeing	81 10	
Harness and horse clothing	52 85	
Telephone	62 72	
Seeds and garden expenses	474 86	
All other expenses	378 36	
		\$11,218 65
Credits:—		
Farm produce	\$3,883 61	
Board of sundry persons	1,756 89	
		\$5,640 50
Net living expenses		\$5,578 15

Table No. 3.

Number of weeks' board of inmates	2,308-1
Number of males admitted during 1915	36
Number of females admitted during 1915	35
Number of males discharged during 1915	33
Number of females discharged during 1915	13
Number of males supported during 1915	59
Number of females supported during 1915	35
Number of males died during 1915	8
Number of females died during 1915	6
Number of inmates in home, December 31, 1915	40

City Home Hospital.

Number of weeks' board	425-3
Number of patients admitted	36
Number of patients in hospital, Decem- ber 31, 1915	8

Table No. 4.**FARM ACCOUNT.****REIMBURSEMENTS.**

Farm produce sold	\$3,883 61	
Produce used at home	300 00	
Milk	322 56	
	<hr/>	\$4,506 17

EXPENSES.

Wages for help	\$1,388 26	
Feed for one horse	172 63	
Feed for three cows	327 51	
Shoeing one horse	26 68	
Repairs on wagons	32 15	
Farm sundries	597 69	
Garbage and bedding	318 45	
Serum for hogs	149 00	
Live stock	118 40	
Seeds	122 51	
	<hr/>	\$3,253 28
Balance		\$1,252 89

Table No. 5.

Appropriation		\$11,500 00
Reimbursements	\$5,640 50	
Net expenditures	5,578 15	
	<hr/>	\$11,218 65
Balance		\$281 35

Respectfully submitted,

J. FOSTER COLQUHOUN,

Warden.

REPORT OF THE CITY PHYSICIAN.

OFFICE OF THE CITY PHYSICIAN, }
Somerville, January 1, 1916. }

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

Gentlemen,—The work of your City Physician during the year 1915 is presented in the following abstract:—

Office consultations and treatments	670
Total outside visits	1,486
Confinements	22
Vaccinations	121
Visits at City Home	138
Attended at police station	46
Examinations:—	
For legal department	24
For highway department	57
For police department	48
For fire department	23
For water department	10
For engineering department	3

Respectfully submitted,

C. CLARKE TOWLE,

City Physician.

REPORT OF THE PLANNING BOARD.

Somerville, Mass., December, 1915.

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

Gentlemen,—As required by Section 2 of Chapter 494 of the Acts of 1913, the Planning Board herewith submits its annual report for 1915.

At the end of 1914, by reason of the expiration of the term of office or the resignation of its members, the Planning Board was practically disorganized. Two members of the original board and five new members were appointed at the beginning of the present year. Immediately after their confirmation by the Board of Aldermen, the Planning Board met and reorganized with William H. Smith as Chairman. The Secretary, Theda E. Fleming, appointed in 1914 under Civil Service rules, continued in office. The Board, however, considered that until the duties of Secretary became greater, it would be more economical for one of the unpaid members of the Board to serve as Secretary without pay. We therefore recommended that the ordinance be changed so as to permit the Board to choose a Secretary from among their own number; and, upon such a change being made, Miss Fleming ended her satisfactory and efficient work as Secretary, and the Board elected as Secretary Waldo E. Dodge, one of its members.

The sum of one hundred dollars was appropriated for the use of the Planning Board, out of which was paid the salary of the Secretary for the first three months of the year, and necessary office expenses.

During the year the Board investigated and visited certain of the vacant and undeveloped tracts of land in the City, with a view to suggesting plans for future development. The Board has visited and inspected certain old and dilapidated buildings in the City which are in themselves unsightly and also depreciate the value of and are a fire menace to the surrounding property, and we recommend the prompt demolition of such buildings by the proper officials under existing statutes, and we believe that the expense of such work will be soon made up by the greater tax value of the better buildings likely to be erected and by the improvements upon surrounding property, for the civic pride of a neighborhood will be increased by the City's efforts to remove unsightly landmarks.

Similar efforts to improve the appearance of the City should be made under the authority of the Board of Health, cleaning up numerous vacant lots and unsightly dumps, which

not only diminish the attractiveness of the immediate neighborhood but are also a menace to public health.

The Board has also made a study of the Somerville Beach and Bath House. This public convenience is located on leased land, and the time is approaching when the land owners may endeavor to sell the land to the City or at least obtain a rental more advantageous to themselves. We recommend that the Beach and Bath House be permanently located near the Wellington Bridge on land to be owned by the City or leased from the Commonwealth or other adjacent owners at a small or nominal rental. Such a location would be as convenient as the present location and more capable of attractive development.

The Board has also given some consideration to the numerous dead-end streets in the City, which have resulted from the policy of permitting land holders to subdivide and lay out streets upon their land and offer such streets for acceptance only after the abutting lots were built upon. It seems possible and desirable that we should look to the future and have new streets laid out on a comprehensive plan. Land owners should be required to subdivide their land only in accordance with this plan, and the City should refuse to accept and lay out new streets which were not in conformity with the general plan. At the same time efforts should be made to remedy the present defects in arrangement of streets as rapidly as the finances of the City will permit.

The Board has also discussed at its meetings a number of other City problems. His Honor, Mayor Z. E. Cliff, attended one meeting of the Board and gave us the benefit of his ideas on city planning. At another meeting Henry Sterling, Secretary of the State Homestead Commission, delivered an address on city planning.

The Board has, however, been hampered in the performance of its duties by apparent lack of interest on the part of some of its members, and the meetings at which a quorum has been present have been infrequent. It would, however, be unjust to attribute this entirely to lack of interest. The Planning Board may make recommendations but has no power to enforce the same. It may seem futile to spend much time in making plans unless at the same time way could be seen for carrying out the plans made.

The criticism has been made of planning boards in this state that some have hardly done enough to justify their existence. The reasons ascribed are the indefinite legislation under which such boards are appointed and the general lack of knowledge of the subject of city planning. In an effort to increase the interest of the public in city planning, and for the purpose of enabling members of planning boards to

exchange views upon the subject, there was held under the auspices of the State Homestead Commission, a Metropolitan City Planning Exhibition in the new wing of the State House from November 12 to 20. This Board appointed one of its members, Austin M. Pinkham, a member of the Council of Fifty who had this exhibition in charge.

The educational effect of such exhibitions and meetings is great and is gradually bringing the public to appreciate the necessity of careful and consistent planning of its municipalities, and the Somerville Planning Board, in common with other planning boards in the state, has begun to learn the principles of city planning and the methods by which its work may be efficiently performed. We are convinced that the duties of the Planning Board should for the present have little to do with the immediate problems of city management, which can be more properly and efficiently handled by the established executive and administrative branches of the City Government. It has been said that Somerville is a city already built and that for that reason the opportunity for further planning is small. We believe, however, that, while the problem is thus made harder, there is a wide field of opportunity to plan for the future growth and development of the City.

It is the aim of the Planning Board to exercise foresight for the orderly and sightly development of the City along rational lines, having regard for the health, comfort and convenience of its citizens, and also for commercial and industrial advancement.

No consistent progress in this direction can be made until the Planning Board has made a complete city survey covering information as to the following classes of facts:—

1. The facts of the physical and topographical environment of the people.
2. Social facts concerning the people of the City.
3. The facts as to the economic and financial resources of the City, and means of bringing these to bear upon public improvements.
4. The facts as to the legal and administrative conditions which may act as limitations upon possible plans.

A complete map or set of maps ought to 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. Data should be collected upon other classes of facts, so far as they may have a bearing upon the problems of planning.

Space should be provided in the City Hall where the Planning Board may keep its maps, documents and the data

collected by it, so that the same may be accessible to members of the Board at all reasonable times.

The City of Somerville is essentially a suburban residential city. Its 4.2 square miles of territory are peopled by 87,000 individuals, that is, more than 20,000 people per square mile. Boston is less densely populated over its whole area. In fact scarcely a city in the country has as large a population per square mile. A large proportion of its business men and wage earners find their employment outside of the limits of the City. Consequently the means of transportation is an important matter. Several lines of railroad pass through the City from east to west, and several avenues or highways with street car tracks run in the same general way. A large portion of the land at the eastern end of the City is occupied by freight yards of the Boston & Maine Railroad. The greater part of the manufacturing establishments of the City are located near this section or along the lines of the railroad. The industrial and commercial establishments in the City are few in comparison with the population and consequently a heavy burden of taxation has to be borne by the householders. To the north of the City along the Mystic River is a considerable area of vacant and undeveloped land which might well be used for industrial and manufacturing purposes. The retail business of the City has its centres in several so-called squares, which have become also to some degree social centres. The rest of the City is occupied by the homes of its citizens, the greatest congestion being near the industrial establishments near the eastern end of the City and along the Cambridge line.

The following problems suggest themselves for the consideration of the Planning Board in order to evolve a consistent city plan:—

1. Possibility of increasing industrial establishments in the City, land available for the same, and the advisability of attempting to confine the same in large part of the eastern end of the City or to the vacant land at the northeast.
2. Better development of congested portions of the City, and the proper housing of the people therein.
3. The means of further developing the retail centres or squares in the City, in order to prevent encroachment of retail stores in the districts strictly residential, and also in order to afford better shopping facilities so that a larger portion of the retail buying by the people may be done within the City. Also the means of further developing these centres for social and civic purposes.
4. A consideration of the transportation problems, not only to and from Boston but also between various sections

of Somerville itself. We believe that the transportation system needs certain connecting links in the way of cross town car lines, which would at the same time facilitate communication between various parts of the City, and also give Somerville additional use of recently built rapid transit lines to Boston.

5. A study of the recreation grounds, and the proper connections between them and the nearby portions of the Metropolitan Park System. In this connection plans should be made for the laying out and development of at least one cross town boulevard for automobile traffic from Boston to the north.

We believe that a Board of five members would be more convenient than a Board of seven members and we believe that the Board would be more efficient if the terms of office of its members were longer. We recommend that the ordinance establishing the Planning Board be changed so that the Board shall consist of five members, the term of office of one member to expire each year, and that appointments to fill vacancies be made for the balance of any unexpired term. As at present constituted, a majority of the members of the Board is likely to change each year, and consequently the Board has not that permanent character which is necessary in order to give continued study to the problems before it and evolve comprehensive and permanent plans.

SOMERVILLE PLANNING BOARD,

WILLIAM H. SMITH,
Chairman.

WALDO E. DODGE,
Secretary

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER, }
CITY HALL, Somerville, January 22, 1916. }

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, 1915, by the Engineering Department and appropriations under my charge and supervision, including the accounts of City Engineer, grade crossings, sewers construction, sewers maintenance, public grounds, parks and playgrounds, and other public works, is herewith presented.

ENGINEERING DEPARTMENT.

City Engineer Account.

Statement of Expenses, 1915.

Salary of City Engineer	\$3,000 00	
Salaries of assistants (see itemized statement following)	7,267 60	
Stakes, tools and general supplies (outside work)	55 05	
Draughting materials and office supplies (inside work)	189 37	
Car fares and miscellaneous expenses (assistants)	243 53	
Maintenance of automobile for all divisions of engineering department	815 05	
Telephone, postage and expressing	107 70	
Incidentals	25 50	
Total debit		\$11,703 80
CREDIT.		
Appropriation	\$11,500 00	
Amount received from other departments, services rendered	89 25	
Transfer from building department	115 00	
Total credit		\$11,704 25
Balance unexpended		\$0 45

Classification of Expenses, Assistants' Salaries.

Sewers,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments and all engineering work relating to sewers	\$945 15
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering relating to the department	1,265 10

Sidewalks,—comprising profiles, lines, grades, measurements, titles, costs and assessments	985 20
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc.	28 55
Water Works,—comprising lines, grades, locations of mains, gates, hydrants and services and other matters relating to the department	484 50
Public Grounds and Parks,—comprising surveys, plans, estimates, profiles and grades, including laying out of parks and playgrounds and boulevard	355 65
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds	33 80
Street Numbering,—comprising locations of buildings, plans, and assigning street numbers	225 60
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	238 80
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc.	582 30
Middlesex Registry,—comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracings of street acceptance and sewer taking plans filed for record	285 70
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles and conduits	116 25
Office Work,—comprising records of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting	1,052 45
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees	103 05
Vacations, Holidays, and Sickness	565 50
Total	<hr/> \$7,267 60

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 five 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 twelve.

The total cost of maintaining the Engineering department (City Engineer Account) since it was established, 1872-1915, both years inclusive, has amounted to \$343,440.00.

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 laying 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 twelve new public streets, a total length of 7,129 feet (1.35 miles); and plans were made of two private streets for acceptance as public ways, as ordered, but not as yet made public. There are plans for acceptance of twelve 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 1915. 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 81.595 miles, and private streets 18.411 miles. (See table in this report for location, width, length, etc.)

**Streets Accepted as Public Highways in 1915, Under the
Betterment Act.**

NAME OF STREET.	WARD.	FROM	To	Width in Feet.	Length in Feet.	Date of Acceptance
Albion terrace . .	5	Albion street . .	Southwesterly .	25	100	March 26
Auburn avenue . .	4	Cross street . .	Northwesterly .	30	606	March 26
Barton street . .	7	Broadway	Hamilton road .	40	382	December 31
Curtis avenue . .	7	Curtis street . .	Hillsdale road .	40	654	December 31
Indiana avenue . .	1	Broadway	Pennsylvania ave.	40	384	December 31
Leonard street . .	7	Broadway	Pow. House Blvd.	40	450	December 31
Pennsylvania ave.	1	Broadway	Wisconsin avenue	50	1,112	February 26
Simpson avenue . .	7	Holland street . .	Broadway	40	1,018	March 26
Waldo avenue . .	2	Beacon street . .	Dimick street . .	40	277	December 31
Ware street . . .	7	Curtis street . .	Russell road . .	40	749	April 25
West Adams street	7	Conwell avenue . .	Medford line . .	40	710	December 31
Whitfield road . .	7	Packard avenue . .	Curtis street . .	40	687	December 31
Total . . . . .	..	. . . . .	(1.350 miles)	.....	7,129	.....

Length of Public Streets in Each Ward.

	Miles.
Ward one	10.028
Ward two	9.188
Ward three	7.587
Ward four	9.912
Ward five	12.119
Ward six	13.339
Ward seven	19.422

Total length of public streets in the city 81.595

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 assigned.

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 1915 approximately \$105,000 were spent in construction work on the improvement of city streets and about \$35,100 in the construction of new sidewalks (exclusive of maintenance).

This construction work was carried on jointly by the Engineering department and the Highway department, thirty-five per cent. of the new street construction work being done by contract, and sixty-five per cent. by the city highway department, day labor.

Sixty-two per cent. of the new granolithic sidewalks were constructed by contract, and thirty-eight per cent. by the city highway department, day labor.

The contractors were James H. Fannon, Somerville, and Charles A. Kelley, Somerville, for street construction work and Denis I. Crimmings, Somerville, for sidewalk work.

Eight hundred and thirteen square yards vitrified brick pavement (concrete base) have been laid in Davis square and Horace street, a total length of 250 feet, by contract, at a cost of \$2.65 per square yard complete.

Thirteen thousand six hundred and one square yards bituminous macadam pavement (concrete base) have been constructed in Broadway, south side (Powder House square to Teele square), in Willow avenue (Appleton street to Broadway) and in Washington street (Beacon street to Dane street), a total length of 3,531 feet, at a contract price of \$1.47 per square yard complete.

Two thousand two hundred and twenty-five square yards of this kind of pavement, a length of 750 feet, was constructed in a portion of Walnut street by the city highway department, day labor.

Middlesex avenue has been constructed by the state highway commission with a concrete wearing surface, the city of Somerville paying a portion of the cost.

The total length of permanent paved streets in the city amounts to fourteen miles.

Nineteen new streets have been constructed, under the betterment act, with a bituminous wearing surface, concrete gutters and granite curbstone, a total length of 9,480 feet; seven being done by contract and twelve by day labor.

The average cost of this type of construction for a forty-foot street complete, by contract was \$4.42 per linear foot, and by the city highway department, day labor, \$5.50 per linear foot.

The total street betterment assessments amounted to \$22,415.00.

Fourteen streets were constructed by the city highway department by day labor, a total length of 9,267 feet, at a cost of \$28,333.94.

Thirteen thousand nine hundred and ninety square yards of granolithic sidewalk, a total length of 3.34 miles, were constructed by contract during the year at an average cost of \$1.34 per square yard and eight thousand six hundred and twenty-four square yards of granolithic sidewalk, a total length of 2.26 miles, were constructed by the city highway department at an average cost of \$1.46 per square yard.

Lines and grades have been given for setting 20,055 linear feet (3.798 miles) of new edgestone, 257 square yards

of new brick sidewalks, 22,614 square yards (5.60 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 0.409 mile of granolithic sidewalk has been laid on private streets by property owners.

The total sidewalk betterment assessments amounted to \$17,100.00.

In connection with setting edgestones 1,790 square yards of new concrete gutters have been laid by contract for \$1.55 per square yard, and 2,092 square yards have been laid by the city highway department, by day labor, at an average cost of \$2.60 per square yard.

A number of driveways and crossings have been constructed, all requiring lines, grades, and measurements.

(See tables for cost of new work, 1915, and total lengths of sidewalks constructed in the city to date.)

The average cost for the year has been as follows:—

For setting edgestone with gravel sidewalk by highway department	\$1.06 per linear foot
For setting edgestone with gravel sidewalk by contract	0.81 per linear foot
Laying brick sidewalk, complete	1.39 per square yard
Laying granolithic sidewalk, complete, by highway department	1.46 per square yard
Laying granolithic sidewalk, complete, by contract (including one year guarantee)	1.34 per square yard
And the cost of materials furnished by contract:—	
Edgestone (straight) delivered at work	0.55 per linear foot
Edgestone (circle) delivered at work	0.73 per linear foot
Bricks delivered at work	14.00 per M.
Cement (Portland) on cars	1.00 per barrel (net)
Sand and gravel on cars	0.70 per cubic yard (average)
Trap-rock delivered on work	1.45 per ton (aver- age)

From a comparison of the cost of constructing new streets, sidewalks, etc., by day labor and by contract for a number of years past, it would seem advisable to do by contract all new work, where approximately one-half of the total cost of construction is assessed on abutting property owners, and thereby making the assessments, as levied, more uniform throughout the city.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in the place of brick.

Miles of Edgestone, Granolithic and Brick Sidewalks in Each Ward.

	Edgestone.	Gravel Sidewalk.	Brick Sidewalk.	Granolithic Sidewalk.
Ward one	18.432	4.149	12.093	3.498
Ward two	16.039	6.824	6.744	2.534
Ward three	14.205	1.380	11.572	1.253
Ward four	14.999	1.659	9.993	3.361
Ward five	22.003	5.822	12.194	4.175
Ward six	24.296	4.997	10.678	9.570
Ward seven	28.727	4.201	8.464	17.455
	<hr/> 138.701	<hr/> 29.032	<hr/> 71.738	<hr/> 41.846

Table of Street Construction.

	Square Yards.	Miles.
*Streets paved with granite blocks	102,521	4.33
**Streets paved with concrete	43,714	2.24
Streets paved with asphalt	10,410	0.73
Streets paved with vitrified brick	17,981	0.92
Streets paved with bitulithic (patent)	14,689	0.88
Combination pavement (concrete base with bituminous top)	76,393	4.89
†Streets macadamized ("tarvia" bound)		25.59
Streets macadamized (water bound)		40.87
Streets graveled or unimproved		19.55
Total		<hr/> 100.00

*Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

**Includes 0.44 miles state highway.

†Includes 1.897 miles of city boulevard and park roadways and 1.397 miles of state boulevard (Metropolitan Park Commission).

The city has been put to a considerable extra expense on account of an act passed by the state legislature, approved May 5, 1915, relative to Municipal Liens for public improvements, as follows:—

"No municipal lien shall attach to any real estate in consequence of any order of a municipal board or other authority for the construction of a street, sewer or sidewalk until the work shall have been completed and an assessment levied within one year thereafter, for the benefits conferred upon the various parcels of land benefited by the improvement. The assessment shall be levied upon the parcels of land benefited by the improvement, as they existed on the first day of April next preceding the completion of the work. The assessment shall describe by metes and bounds each parcel assessed and shall state the names of the owners of record at the time of the assessment, if the names can reasonably be ascertained; otherwise the assessment may be made to owners unknown. The order of assessment, together with a plan showing in detail the lots assessed, if recorded in the registry of deeds for the county and district wherein the land lies within thirty days after the date of assessment, shall create a lien on the land, which

Table Showing Sidewalks Constructed (proportional part of cost assessed on abutters) in 1915

STREET	Ward.	SIDE.	FROM	To	WIDTH OF SIDEWALK IN FEET.	MATERIAL.				Total Cost.
						Gravel and Edge-stone. Lineal Feet.	BRICK. Lin. Feet. Sq. Yards.	GRANOLITHIC. Lin. Feet. Sq. Yards.		
Aberdeen road	6	Both	Highland avenue	Cedar street	6.67	*838.7				
Albion	5	Northeasterly	Lowell street	Centre street	6.67			701.0	470.1	\$618.89
Aldrich	4	Both	Gilman street	B. & M. R.R.	6.67			136.0	169.0	261.44
Allstou	1	Both	Cross street	Shawmut street	6.67 and 5.0			1,496.0	932.3	1,249.84
Beacon and Concord ave.	2	Northeast corner	Estate of Tassinari		11.00 and 5.0			185.7	163.5	264.32
Beacon	2	Northeasterly	Washington	Northwesterly	11.00			42.0	46.0	59.80
Belknap	7	Both	Broadway	Hamilton road	6.67	*920.9				
Belmont place	6	Both	Belmont street	End	5.00	*352.3				
Belmont place	6	Both	Belmont street	End	5.00			353.4	171.8	249.59
Bristol road	7	Both	Broadway	Medford edgestone	7.00	*184.7				
Broadway	1	Northeasterly	Austi street	Charlestown line	15.00	8.0 ft. Gran. sod rem. width		854.0	815.1	1,545.08
Broadway	7	Southwesterly	Irving street	Southeasterly	11.00			68.0	65.6	85.28
Broadway	7	Northeasterly	Mason street	Packard avenue	11.00			661.0	746.9	1,006.20
Broadway	7	Southwesterly	Corinthian road	Northwesterly	11.00			87.3	92.2	148.89
Broadway	1	Northeasterly	In front of No. 79.			Gran. laid in old grass plot Gran. 6.0 ft. sod. rem. width			76.1	98.93
Cameron avenue	7	Westerly	Holland street	Seven Pines av. (where not laid to near Summer street)	10.00			780.3	549.7	998.46
Cedar	6	Northwesterly	Hall street	Albion street	6.67			141.8	90.7	126.90
Central	5	Northwesterly	Highland avenue	Angle	Grass Plot		98.9			141.57
Chester avenue	4	Northeasterly	Cross street	End		*418.1				
Clyde	5	Both	Cedar street	End	5.00	*1,316.5				
Columbia	2	Both	Webster avenue	Cambridge line	6.67			1,539.0	976.5	1,456.10
Curtis	7	Northwesterly	Broadway	Sunset road (where not laid)	6.67	320.7		1,439.0	976.7	1,591.65
Derby	4	Both	Wheatland street	Grant street	6.67	*376.3				
Eastman road	6	Easterly	Highland avenue	End	6.67			295.0	199.9	289.08
Electric avenue	7	Both	Packard avenue	Curtis street (where not laid)	6.67			1,076.0	724.5	995.11
Fenwick	5	Both	Heath street	Jaques street	6.67			554.0	368.7	486.87
Flint avenue	4	Both	Flint street	End	6.67	*399.6				
Francis and Conwell	6	Southwest	Porter street	Conwell street	5.00			259.8	130.9	208.77
Garfield avenue	4	Both	Francis street	End	5.83					
Gilman	4	Both	Broadway	Blakeley avenue	6.67	*774.4				
Glen	1	Northerly	Jasper street	Walnut street	6.67			227.0	153.9	204.49
Grant	4	Southeasterly	In front of No. 152-154		6.67			40.0	27.0	47.13
Highland	3	Southeasterly	Jaques street	Mystic avenue	6.67			807.4	537.6	682.75
Hill	7	Both	Trull lane	Wild's estate inc.	Grass Plot		94.5			137.70
Horace	2	Both	Broadway	Fairmount avenue	6.67			572.0	387.0	505.69
Irving	7	Easterly	South street	Ward street	5.00	393.0				
Kidder avenue	7	Southwesterly	Broadway	Southerly	6.67			71.0	54.2	57.47
Langmaid avenue and Heath	5	Southwesterly	In front of estate of Stevens		6.67			101.0	68.2	86.72
Lexington avenue	6	Both	Broadway	Heath street	5.00			665.0	405.9	550.74
Lowell and Albion	5	N. W. corner	Temple street	Fisk estate	7.50					
Main	5	Westerly	Willow avenue	Hancock street	8.33			1,139.8	963.2	1,303.27
Meacham road	7	Northerly and Westly	Estate of Raymond		6.67			230.0	153.6	203.52
Meacham	5	Both	In front of estates No. 45 to No. 51 inc.	W. end of R.R. Station	6.67			132.0	87.9	137.98
Medford	2	Westerly	Near Dover street	Medford line	6.67	*1,326.2		124.0	83.2	131.06
Morrison avenue	6	Northerly	Mt. Vernon avenue	Northerly	8.33		75.6	63.4		77.36
Myrtle	1	Westerly	Warren street	Pearson avenue	8.33			196.0	157.8	246.92
North	7	Easterly	Highland road		abt. 7.5			89.0	62.8	98.48
North	7	Westerly	No. 54 Estate of Money	Conwell avenue	6.67	384.9		402.7	262.3	794.49
Packard avenue	7	Both	Powder House B'l'v'd.	Woods avenue	6.67	1,457.4		1,414.0	951.8	2,801.85
Pearl Street place	4	Both	Powder House B'l'v'd.	Powder House Boulevard	10.00			1,498.0	1,515.4	1,809.89
Pearson road	7	Both	Broadway	End	2.75	*334.0				
Pennsylvania avenue	1	Both	Pearl street	Dearborn	6.67	*2,136.6				
Poplar	1	Easterly	Warner street	Broadway	11.50	*2,058.4				
Porter	6	Both	Wisconsin avenue		5.00			84.0	41.7	57.48
Powder House Boulev'd	7	Southwesterly	In front of No. 3 and No. 5	Elm street	7.50			2,264.0	1,726.0	2,441.70
Powder House Boulev'd	7	Southwesterly	Summer street	North street	8.00			1,296.0	1,304.5	1,900.24
Powder House Boulev'd	7	Northeasterly	Curtis street		8.00	8.0 ft. gran. walks, on 20 ft. sidewalk with grass plots		340.0	332.3	481.49
Powder House Boulev'd	7	Northeasterly	No. 205-219 and No. 237-247	School lot	8.00			155.0	124.6	175.86
Powder House Boulev'd	7	Easterly	Curtis street	Northerly	8.00			890.0	890.4	1,367.16
Powder House Boulev'd	7	Southwesterly	North street	Mason street	8.00			645.0	633.5	930.13
Powder House Boulev'd	7	Southwesterly	Packard avenue	quers Leonard and Burnham.	8.00			415.3	422.7	607.37
Sartwell avenue	6	Both	No. 34 to No. 48 and corner	Cedar street	5.83	*754.0				
Shawmut	1	Southwesterly	Cedar street	Cherry street	6.67			357.0	240.0	522.73
Simpson avenue	7	Both	Central square	Washington street	6.67					
Summer	6	Northeasterly	Holland street	Broadway	6.67	*1,794.1				
Summer	7	Southwesterly	Cherry street	Hancock street	7.50			212.8	163.1	260.43
Teele avenue	7	Both	Willow avenue	Cutter square	7.50			792.7	583.0	781.83
Teele avenue	7	Both	Packard avenue	Curtis street	6.67	*1,333.8				
Thorpe	7	Northeasterly	Packard avenue	Curtis street	6.67			685.4	464.5	610.32
Vine	3	Both	Highland avenue	End	5.00			914.7	445.8	635.59
Washington	2	Both	Someville avenue	Fitchburg R.R.	6.67	*1,030.9				
West	7	Northerly	Beacon street	Dane street (where not laid)	10.00			498.6	499.4	672.51
William	7	Southeasterly	Highland avenue	Hawthorne street	5.00			192.2	94.0	129.16
Willow avenue	6	Northeasterly	College avenue	Chandler street (where not laid)	6.67			340.6	229.6	312.38
Wilson avenue	6	Both	Highland avenue	Lexington avenue	8.33			263.7	219.8	323.56
Windom	7	Both	Broadway	B. & M. R.R.	2.75	*618.1				
Yorktown	7	Northwesterly	Summer street	Elm street	6.67			293.8	190.8	270.72
Yorktown	7	Both	Malvern avenue	Cambridge line	6.67			552.3	364.0	1,152.22

Total assessment, \$17,083.17.

Net cost to city, \$18,009.99.

20,054.7

75.6

256.8

29,571.0

22,613.7

\$35,093.16

Amount of edgestone, brick, grauolithic and tar in front of private estates.

Totals . . . Gravel sidewalks, 1,314 miles. Brick sidewalks, 0,803 miles. Granolithic sidewalks, 3,109 miles.

*Proportionate cost assessed under street construction.

No.	Name	Address
1	John Doe	123 Main St, New York, NY
2	Jane Smith	456 Elm St, Los Angeles, CA
3	Robert Johnson	789 Oak St, Chicago, IL
4	Mary White	101 Pine St, San Francisco, CA
5	David Brown	202 Cedar St, Boston, MA
6	Susan Green	303 Birch St, Philadelphia, PA
7	Michael Black	404 Spruce St, Washington, DC
8	Elizabeth Taylor	505 Willow St, Miami, FL
9	James Wilson	606 Ash St, Seattle, WA

shall remain until the assessment is paid or abated according to law.

"All acts and parts of acts inconsistent herewith are hereby repealed."

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 preference to side streets has commenced to show good results.

In a few years' time, by the continuation of permanently constructing the remaining roadways, namely, on Broadway, sections of 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.

Lines and grades have been given for laying 7,089 linear feet of new city water mains, varying in size from two inches to twelve inches in diameter. Two hundred and eight 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 large water-works wall maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

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 assessors' department, and in this manner the correct areas of land determined.

This set of plans would show the area and dimensions of each lot, all houses and other buildings, sewers, catch basins, house drains, water services, gas mains, underground conduits for wires, street lights, street railway tracks, etc., and be of great value to many city departments. Five of these sectional plans have already been made. A separate appropriation should be made for completing these plans.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute, and special plans and data prepared for the city solicitor's use in court cases and hearings.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and the schedules of assessments made out showing the property owners. Copies have been made of all city plans where land has been taken for highways or sewers, and these have been filed and recorded at the Registry, East Cambridge, as required by law.

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 16.7 miles of telephone conduits, 9.03 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 1.90 miles the past year.

Heavy explosions have occurred in the city's streets from underground conduits, owned by private corporations. The city ordinances should be so changed that in the future all underground work constructed by these companies should be rigidly inspected by a competent man employed by the city, so as to eliminate, as far as possible, faulty construction.

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.

Where double car 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.

There are 31.9 miles of electric railroad (single track location) laid at the present time in the city's streets; and in watering the main thoroughfares, time and expense could be saved by utilizing this trackage for running a street-sprinkling car, the same as is operated in a number of cities throughout the state.

Grade Crossings Account.

Statement of Expenses, 1915.

Paid for damages to property and land and buildings taken	\$925 00	
Paid various parties for appraisal of property, counsel fees, etc.	1,749 45	
	<hr/>	\$2,674 45
CREDIT.		
Received from Commonwealth of Massachusetts, Boston and Maine Railroad (lessee) and Boston Elevated Railway, apportionment of cost by decree of court and auditor		\$3,436 74

No actual construction on grade crossing abolishment in this city has been done during the past year. 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.

Probably work will be commenced at the Park street crossing in the near future. The construction work for the elimination of these dangerous grade crossings will be continued until completed as decreed by the court, and the total cost of the work as completed will be apportioned as follows: the steam railroad company, sixty-five per cent.; the state twenty-five per cent., and the city ten per cent., except at the Somerville avenue and Webster avenue crossings, where the steam railroad and the city pay the same percentage of cost as at other crossings; the state twelve and one-half per cent. and the street railway company twelve and one-half per cent.

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.

City Boundary Lines. In July, 1915, representatives appointed from the city of Somerville and the city of Cambridge 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-Cambridge and Somerville-Medford, are out of plumb and should be reset.

A contemplated change in the boundary line between Somerville and Medford is under consideration by both cities, and probably an exchange of territory can be made that will be equally advantageous.

SEWER DIVISION.

Construction Account.

Statement of Expenses, 1915.

Constructing "separate system" sewers (assessments levied)	\$1,236 67	
Constructing "combined system" sewers (assessments levied)	278 68	
Constructing "separate system" sewers (no assessments)	4,488 51	
Constructing storm drains	4,889 07	
Constructing catch basins	1,756 62	
Constructing Middlesex avenue state high- way street drainage	1,000 00	
Reconstructing sewer and building man- holes	361 77	
Materials to other departments	224 95	
Total expenditure		\$14,236 27
Less reserve payments on sewer contracts (unpaid)		418 03
Total debit		\$13,818 24
CREDIT.		
Appropriation (balance unexpended, 1914)	\$13,101 41	
Amounts received from other depart- ments and accounts, materials fur- nished	224 95	
Transfer from Grade Crossings Account	500 00	
Total credit		\$13,826 36
Balance unexpended		\$8 12

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 re-

placed by some difficult construction work. All materials have been furnished by the city, and the prices paid for supplies for the season have been by contract with the lowest bidder as follows:—

Sewer pipe (3 foot lengths)	77 $\frac{3}{4}$ % discount from list price on cars
Sewer pipe fittings . . .	78 $\frac{3}{4}$ % discount from list price on cars
Portland cement per barrel	\$1.00 on cars (net)
Sand per cubic yard . . .	0.70 on cars
Sewer bricks per M. . . .	9.75 on cars or at yard
Iron manhole and catch basin castings, per hundred weight	1.28 on cars or at yard
Catch basin traps, each	1.39 on cars or at foundry

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-four-inch pipe in the following localities:—

"Separate system" sewers in:—

Charles street,—Washington street southerly (both sidewalks).

Magnus avenue,—Washington street southerly.

Maine avenue,—Mystic avenue to near Pennsylvania avenue.

Passageway off Maine avenue,—easterly.

Pearl street,—Cross street to Franklin street (both sidewalks).

Private lands,—near Thorndike street to Buena Vista road.

"Combined system" sewers in:—

Lowell street,—Kimball street northeasterly.

Medford street,—end of sewer built in 1899 to near Walnut street.

Storm drains in:—

Magnus avenue.

Pearl street,—(both sides) Cross street to Franklin street.

Somerville Field, Powder House boulevard and North street,—Powder House boulevard, North street and Hamilton road.

SUMMARY OF WORK.

Nineteen new sewers and drains have been constructed during the year, a total length of 8,580 linear feet (1.625 mile) at a cost of \$10,892.93; plans have been made showing these sewers in detail, and assessments levied on a portion of them, amounting to \$1,386.43. (See tabular statement of sewers and drains for 1915, showing itemized statement of work and cost.)

The total length of the city's drainage system is 110.331 miles; 31.209 miles being on the "separate system" and 9.991 miles of storm drains, and the entire cost of construction has amounted to about \$1,323,501.00 exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

Twenty-eight new catch basins have been constructed in the highways during the year, making a total of 1,763 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways	1,708 basins
Located in city boulevard	30 "
Located in parks (13) and other city lots (12)	25 "
	<hr/>
Total catch basins constructed and maintained by the city	1,763
By Boston & Maine Railroad Company on railroad locations	33 basins
By state, located in boulevards	52 "
	<hr/>
	85
	<hr/>
Total catch basins in the city for storm drainage purposes	1,848

Metropolitan Sewer Connections. All of the city's connections with the North Metropolitan state sewerage system are in good condition.

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 locations of the connections

TABULAR STATEMENT OF SEWERS AND STORM DRAINS BUILT IN 1915.

LOCATION.					ITEMS OF CONSTRUCTION AND COST.																						
NAME OF STREET.	FROM	TO	CONTRACTOR.	MATERIAL EXCAVATED.	Average Cut.	SEWER.		SUB-DRAIN.		Cubic yards Rock Excavation.	Price per cubic yard, Rock.	Manholes.	Average cost, Manholes.	Inlets.	PIPE SEWER, COST PER LINEAR FOOT.								Total Cost.	Assessment.	Cost to City.		
						Size in inches.	Length in feet.	Size in inches.	Length in feet.						Excavating, Re-filling, and Pipe Laying.		Price, including Sub-drain where laid.	Engineering and Inspection.	Miscellaneous.	Lumber.	Repairing Sidewalks, Resurfacing Streets, etc.	Average Cost per linear foot.					
														Main Sewer.	Sub-drain.												
Charles street (both sides)	Washington street	Southerly	Denis I. Crimmings	Sand	7.8	8	357.5	5	287	1.0	\$3.50	3	\$47.50	14	\$0.80	\$0.20	\$0.23	\$0.04	.....	\$0.55	\$0.09	\$2.29	\$817.68	.....	\$817.68
Lowell street (sewer extension)	Sewer built 1901	Sewer built 1891	Day labor	Hardpan	6.8	12	51.6	.....	.....	.....	.....	.....	.....	2	0.99	.....	0.35	0.10	.....	.....	.....	1.44	74.64	.....	74.64
Magnus avenue, sewer	Washington street	Montvale street	Denis I. Crimmings	Sand and filling	7.2	8	416.2	2	46.87	26	1.17	0.17	0.06	1.55	765.32	\$762.42	2.90	
Magnus avenue, sewer	Montvale street	Southerly	Denis I. Crimmings	Clay	7.3	6	76.2	.....	.....	.....	.....	.....	.....	5	0.97	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Magnus avenue (storm-drain)	Washington street	South of Montvale street	Denis I. Crimmings	Sand and filling	6.2	8	514.8	2	38.75	31	0.26	0.15	0.56	288.49	288.49	
Maine avenue, sewer	Mystic avenue	Near Pennsylvania ave.	Day labor	Hardpan and filling	7.6	8	271.2	1	52.00	22	0.51	0.24	0.04	0.08	1.06	287.26	287.20	0.06	
Maine avenue (storm-drain)	Mystic avenue	Near Pennsylvania ave.	Day labor	Hardpan and filling	6.6	8	270.2	1	16.05	22	0.21	0.19	0.02	0.47	128.15	128.15	
Medford street, sewer	Ead of sewer, built 1899.	Near Walnut street	Bartholomew Burke	Hardpan	9.6	10	144.0	1	43.50	10	0.88	0.18	0.06	1.42	204.04	153.09	50.95	
Passageway off Maine avenue, sewer.	Maine avenue	Southeasterly	Day labor	Hardpan	7.5	8	186.5	1	45.75	8	0.46	0.23	0.05	1.00	184.00	183.72	0.37	
Passageway off Maine ave.(storm-drain)	Maine avenue	Southeasterly	Day labor	Hardpan	6.5	8	186.5	1	16.05	8	0.20	0.18	0.02	0.49	91.35	91.35	
Pearl street, sewer (north side)	Cross street	Franklin street	Denis I. Crimmings	Hardpan and clay	9.3	10	1059.3	.....	.....	50.0	3.00	4	47.50	35	0.93	.....	0.25	0.06	.....	.....	0.17	1.73	1832.01	.....	1832.01
Pearl street, storm-drain (north side)	Cross street	Franklin Street	Denis I. Crimmings	Hardpan and clay	8.0	12	1057.3	4	38.75	35	0.23	0.22	0.01	0.61	644.28	644.28	
Pearl street, sewer (south side)	Cross street	Near Franklin street	Bartholomew Burke	Hardpan and rock	8.0	8	870.2	.....	.....	88.0	3.50	4	50.50	29	1.03	.....	0.17	0.09	.....	.....	0.23	2.11	1838.82	.....	1838.82
Pearl street, storm-drain (south side)	Cross street	Near Franklin street	Bartholomew Burke	Hardpan and rock	7.0	8	870.2	4	40.50	28	0.22	0.15	0.01	0.56	492.62	492.62	
Powder House Boulevard (storm-drain)	Point in gutter, Boulevard	North street	Charles A. Kelley	Hardpan	5.0	18	130.3	.....	.....	.....	.....	.....	.....	1	46.33	.....	0.63	.....	0.42	.....	.....	.....	.....	.....	.....
North street (storm-drain)	Near Powder House Blvd.	Raymond avenue	Charles A. Kelley	Hardpan	7.0	20	180.4	.....	.....	1.3	3.50	1	46.33	.....	0.85	.....	0.49	0.04	.....	.....	.....	1.35	741.48	.....	741.48
North street (storm-drain)	Raymond avenue	Conwell avenue	Charles A. Kelley	Hardpan	5.0	15	239.7	.....	.....	.....	.....	.....	.....	1	46.33	.....	0.52	.....	0.30	.....	.....	.....	.....	.....	.....
Powder Ho. Blvd and North st (st'm-dr.)	Near Somerville Field	Hamilton road	Day labor	Hardpan	6.0	12	564	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hamilton road (storm-drain)	North street	Barton street	Day labor	Hardpan	6.0	10	200	1	52.23	0.57	0.25	0.03	0.90	1,017.20	1,017.20	
Hamilton road (storm-drain)	Barton street	Russell road	Day labor	Hardpan	6.0	8	370	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerville avenue, sewer	Northwesterly	Incline to F.R.R. Bridge	Day labor	Filling	.....	72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Somerville Field and	.....	.....	.....	.....	4.8	24	261	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Powder House Boulevard (storm-drain)	Alewife Brook	E.side Powder House Blvd.	Denis I. Crimmings	Filling and hardpan	4.0	20	249.5	4	52.53	1.39	0.76	0.11	2.63	1,484.55	1,484.55	
					5.0	18	53.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

8,579.6 (1.625 miles.)

\$11,253.75 \$1,386.43 \$9,867.32

Total length of public sewers in the city, January 1, 1916 495,050.7 feet.
 Total length of private sewers in the city, January 1, 1916 34,748.0 feet.
 Total length of sewers in the city, January 1, 1916 529,798.7 = 100.340 miles (31.210 miles separate system sewers)
 Total length of storm drains in the city, January 1, 1916 52,757.8 = 9.992 miles
 Total length of city drainage system, January 1, 1916. 110.332 miles
 Total length of Metropolitan sewerage system mains running through the city 3.475 miles

of the city's mains with the state sewer are shown in the 1912 report.

The city's assessment for the Metropolitan sewer system for the past year was \$43,340.79 on construction account and \$27,341.82 for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,100,266.40 (1892-1915, 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 appropriations will allow. The construction of the storm drainage system commenced in the vicinity of North Somerville, where buildings and new streets are being rapidly constructed, should continue, 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 the head of Miller's river; and this matter of improving the city's drainage system should be carried out 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.

This work, if completed, would be of great benefit to the railroad company, and give 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.

During the month of July and the first part of August, 1915, a number of very heavy storms occurred with an excessive amount of rain, causing unusual flooding of streets and cellars and damaging property; probably the greatest precipitation ever known in the eastern section of this country, approximately twelve inches within a month's time, being about one-quarter of the average rainfall for a year.

The city's drainage system will be greatly improved whenever the foregoing changes are made and construction work completed.

MAINTENANCE ACCOUNT.

Statement of Expenses, 1915.

Maintenance of sewers, including cleaning and flushing (110.4 miles)	\$3,943 79	
Maintenance of catch basins, cleaning and flushing (1,761)	9,830 85	
Changing line and grade and repairing catch basins	245 97	
Changing line and grade and repairing manholes	101 94	
Repairing old sewers	1,295 39	
Inspection and location of house drains	325 15	
New tools and supplies	401 98	
Repairs of tools and property	37 20	
Maintenance of sewer division yards and buildings	542 05	
Sundry expenses, car fares, telephone, expressing, etc.	58 95	
Total debit		\$16,783 27
CREDIT.		
Appropriation	\$14,500 00	
Transfers from other departments and accounts	2,283 40	
Total credit		\$16,783 40
Balance unexpended		\$ 13

Value of tools and property on hand used in maintenance of sewers, \$1,500.00.

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 6,350 cubic yards have been removed from the catch basins and sewers during the year, at an average cost of \$1.55 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to \$124.77.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and manholes have been repaired and grade or line changed.

Three hundred and sixty-one permits have been issued to licensed drain layers for connecting buildings with the main sewers, seventy-four being for repairs or alterations; all of

CITY OF SOMERVILLE.

Statement made to the Commissioners on Apportionment of Expenses of the Metropolitan Park District, June, 1915.

PREPARED BY ERNEST W. BAILEY, CITY ENGINEER.

NAME AND LOCATION OF PROPERTY.	AREA IN ACRES.	YEAR ACQUIRED.	ORIGINAL COST OF LAND.	FIRST COST OF CONSTRUCTION.	ADDITIONAL COST OF CONSTRUCTION AND IMPROVEMENTS (Various years).	ESTIMATED PRESENT VALUATION 1914	MAINTENANCE.																								
Broadway Park—Ward 4	15.85	1874-1875	\$126,854.63	\$86,138.57	{ \$5,928.98 } { Bldg. 2,000.00 }	\$420,000.00	Amounts expended under Public Grounds Account for maintenance, 1910-1914, inc. <table border="1"> <thead> <tr> <th>Year.</th> <th>PLAYGROUNDS. Amount.</th> <th>PARKS. Amount.</th> <th>Total.</th> </tr> </thead> <tbody> <tr> <td>1910</td> <td>\$3,700.00</td> <td>\$10,128.34</td> <td>\$13,828.34</td> </tr> <tr> <td>1911</td> <td>3,400.79</td> <td>8,175.00</td> <td>11,575.79</td> </tr> <tr> <td>1912</td> <td>3,648.01</td> <td>8,722.38</td> <td>12,370.39</td> </tr> <tr> <td>1913</td> <td>3,434.01</td> <td>8,457.88</td> <td>11,891.89</td> </tr> <tr> <td>1914</td> <td>3,300.00</td> <td>9,975.00</td> <td>13,275.00</td> </tr> </tbody> </table>	Year.	PLAYGROUNDS. Amount.	PARKS. Amount.	Total.	1910	\$3,700.00	\$10,128.34	\$13,828.34	1911	3,400.79	8,175.00	11,575.79	1912	3,648.01	8,722.38	12,370.39	1913	3,434.01	8,457.88	11,891.89	1914	3,300.00	9,975.00	13,275.00
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Central Hill Park—Ward 4	13.10	{ 1893 (0.5 acre) } remainder { 1851-1869 }	111,109.00	31,624.70	{ 38,490.09 } { Memorial } { 20,000.00 }	445,000.00																									
Prospect Hill Park—Ward 3	2.62	1898-1902	48,964.91	{ (tower) 8,103.03 } { 21,794.74 }	244.03	75,000.00																									
Lincoln Park—Ward 2	8.26	1895-1897	37,592.92	16,467.18	{ 2,821.91 } { Bldg. 3,000.00 }	95,000.00																									
Tufts Park—Ward 7	4.54	1892	{ (1.54 acres donated) } 19,424.55	33,478.51	100,000.00																									
Paul Revere Park—Ward 5	0.04	1901	1,259.70	63.94	900.00																									
Belmont Street Park—Ward 6	0.39	1889	4,015.40	{ Originally High } { Services Water } { Tower Lot. }	260.61	5,100.00																									
Playgrounds Tufts College Land used by permission Summer and Winter months—Ward 7	{ Con. by Tufts } { College }	115.14																									
New Athletic Field, Boulevard—Ward 7	11.50	1891	4,000.00	{ Originally City's } { Gravel Pit }	22,421.18	75,000.00																									
Playground, Broadway, corner Cedar street—Ward 5	4.25	{ Previous to } 1872	{ Originally City } { Farm Lot. }	3,350.98	25,500.00																									
Playground, Somerville avenue, cor. Kent street—Ward 6	0.75	{ Originally } schoolhouse lot 1850	937.61	12,000.00																									
Playground, Poplar street, corner Joy street—Ward 1	0.47	{ Originally } schoolhouse lot 1869	695.43	5,000.00																									
Playground, Broadway, opposite Simpson avenue—Ward 7	0.25	{ Originally } schoolhouse lot 1843	100.00	516.33	4,500.00																									
Playground, Beacon street, near Washington street—Ward 2	0.22	{ Originally } schoolhouse lot 1848	750.00	159.64	2,900.00																									
Playground, Webster avenue, near Cambridge line—Ward 2	0.25	{ Originally } schoolhouse lot 1868	1,878.50	100.00	3,000.00																									
Playground, Glen street, corner Oliver street—Ward 1	{ 1.5 } { (leased) } { 0.92 (own) }	1877	11,252.60	{ Originally } Highway Dept. Lot.	500.75	15,000.00																									
Playground, Fellsway East—Ward 4	{ 250 } { (leased) }	100.25																									
Broadway Parkway—Wards 1-4	2.00	{ Part of highway } made Parkway 1892-1908	6,735.00																									
Powder House Parkway—Ward 7	0.24	{ Part of highway } made Parkway 1908	95.00																									
Somerville Avenue Cemetery—Ward 2	0.71	{ Act of Legislature } 1893 Maintained by City	1,444.08																									
Powder House Boulevard—Ward 7 (length 1½ miles)	12.60	1899-1901	{ 1,389.52(0.02acres) } Remainder donated.	36,177.05																									
	82.96		\$368,591.13	\$240,518.78	\$103,245.95	\$1,283,900.00																									

A number of schoolhouse yards are used for playground purposes during the summer months.

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Main body of handwritten text, appearing to be a list or series of entries, possibly organized in columns or rows.

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 15,967 private house drain connections with the city's drainage system.

During the year the sewer department 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 all parts of Somerville, used for parks and playgrounds, amounting to 75.0 acres, and also a boulevard about one and one-third miles in length, maintained by the city. 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.

Four of these larger pleasure parks are famous historically.

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, about three hundred ball games being provided for by schedule the past year.

The larger areas have been policed by regular officers from the police department, when required, the expense being paid from the police appropriations; trees and shrubs added to the various grounds, and bulbs, plants and flowers fur-

nished in their seasons, and during the winter time ponds flooded for skating when the weather was favorable.

This area of parks and playgrounds compares favorably with other cities, Somerville being very small in area and the most densely populated city in the state, averaging about 21,000 in population to a square mile. (About 33 per acre.)

At Lincoln Park a wading pool having an area of about 1,850 square feet has been constructed, with a concrete bottom and side walls and has been a source of much enjoyment to a very large number of children in the immediate vicinity. At Prospect Hill Park a bubbler drinking fountain has been installed.

An area was laid out on Somerville Field for playing girls' hockey, which was used considerably.

Tennis courts were maintained at Mason street playground, Broadway Park, Central Hill Park, and Somerville Field, and used continually throughout the season.

Three thousand, seven, hundred and eight 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 grounds in the rear of the city hall annex and high school buildings should be regraded and walks and drives constructed.

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.

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: Broadway park (northerly end) ball field and children's playground; Central Hill park, tennis courts and children's playground; Tufts park, children's playground, gymnastic apparatus, etc.

Paul Revere park area should be enlarged by acquiring additional land, constructing a street across from Main street to Broadway separating the city's park from the adjoining land, and thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

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 school committee.

Certain areas were used in the city's parks, playgrounds, and school yards, which had 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, teams being formed and athletic competitions held between the various teams.

A very successful field day was held by the Somerville schools on the city's recreation field, and the Boy Scouts of America gave an interesting exhibition on Central Hill park, both festivals being largely attended.

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.

Somerville field located in the northwesterly part of the city, bordered by Powder House boulevard and Alewife brook, 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 present temporary dressing rooms have had some small improvements made during the year, but a permanent concrete building with all modern improvements should be immediately constructed.

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.

If this area is laid out and completed as originally designed, Somerville will have one of the finest recreation fields owned by any city, and would include areas for baseball, football, basket ball, tennis, cricket, croquet, playfield for children, outdoor gymnasium, running track, swimming pool, and boating and skating on the brook, a concrete grand-stand and field houses, equipped with shower baths, lavatories, dressing rooms, lockers, etc. In the 1910 report a plan was published showing the proposed laying out.

An area owned by the city, and known as the Collins and Ham ledge property, 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 in the future by laying out a portion of the area for streets and house lots, 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; and second to none in the state.

The city's assessment for Metropolitan parks and boulevards for the year 1915 amounted to \$16,498.51 on construction account, \$21,483.13 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 \$6,217.31; for the improvement of Alewife brook and maintenance of same \$1,283.87 and for the maintenance of Wellington bridge across Mystic river, \$2,456.70.

The total of the above assessments amounts to \$47,939.52, being Somerville's proportional payment to the state on account of the Metropolitan park system for the year 1915.

The total assessment paid to the state for parks and boulevards amounts to \$541,623.13, January 1, 1916, and the only 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 four-tenths of a mile bordering Mystic river at the West Medford line.

PARKS AND PLAYGROUNDS.

Maintenance Account.

Statement of Expenses, 1915.

(Playgrounds)		(Parks)
	Broadway Park (15.9 acres):—	
\$284 96	Maintenance of grounds, pond and general care of property, labor and teams	\$916 70
	Trimming and spraying trees	26 00
5 30	Supplies and repairs of tools, etc.	120 57
	Plants, flowers, bulbs, etc.	204 97
\$290 26		\$1,268 24

(Playgrounds)		(Parks)
	Broadway Parkway (2.0 acres):—	
	Maintenance of grounds, labor and teams	\$86 71
	Trees, plants, flowers, etc.	121 50
		<hr/> \$208 21
	Central Hill Park (13.1 acres):—	
\$141 75	Maintenance of grounds and general care of property, labor and teams	\$1,067 33
	Trimming and spraying trees	16 45
22 76	Supplies and repairs of tools, etc.	193 83
	Plants, flowers, bulbs, shrubs, etc.	284 40
	Building new steps, etc.	37 94
		<hr/> \$1,599 95
\$164 51		
	Lincoln Park (8.3 acres):—	
\$736 68	Maintenance of grounds and general care of property, labor and teams	\$726 27
21 55	Supplies and repairs of tools, etc.	213 95
	Regrading sidewalk	31 05
	Constructing wading pool	499 19
		<hr/> \$1,470 46
\$758 23		
	Prospect Hill Park (2.6 acres):—	
\$77 51	Maintenance of grounds and observation tower, labor and teams	\$827 96
	Trimming and spraying trees	14 10
	Supplies and repairs of tools, etc.	76 58
	Drinking fountain	37 73
		<hr/> \$956 37
\$77 51		
	Tufts Park (4.5 acres):—	
\$4 50	Maintenance of grounds and Old Powder house, labor and teams	\$675 11
	Trimming and spraying trees	14 83
3 00	Supplies and repairs of tools, etc.	50 56
	Plants, flowers, bulbs, etc.	185 15
		<hr/> \$925 65
\$7 50		
	Paul Revere Park (.02 acre):—	
	Maintenance of grounds, labor	\$31 53
	Trees, plants, shrubs, etc.	30 58
		<hr/> \$62 11
	Belmont Street Park (0.4 acre):—	
	Maintenance of grounds, labor and teams	\$240 44
	Supplies and repairs of tools	3 60
	Plants, flowers, bulbs, etc.	129 45
		<hr/> \$373 49
	Powder House Square Parkway (0.2 acre):—	
	Maintenance of area between streets, labor	\$28 23
	Plants, shrubs, etc.	25 00
		<hr/> \$53 23

(Playgrounds)	(Parks)
Powder House Boulevard (1 1-3 miles long):—	
Maintenance of roadway, walks and grass plots, labor and teams	\$500 46
Resurfacing and repairing roadway	878 31
Reconstructing gutters	231 50
	<hr/>
	\$1,610 27
Cemetery, Somerville Avenue (0.7 acre):—	
Maintenance of grounds, labor and teams	\$71 83
Somerville Field at Alewife Brook (11.5 acres):—	
Maintenance of field and care of prop- erty, labor and teams	\$431 53
Supplies and repairs of tools, etc.	93 78
\$474 51	
121 47	
	<hr/>
\$595 98	\$525 31
Playground, Cedar street and Broadway (4.3 acres):—	
Maintenance of grounds, labor and teams	\$162 09
Supplies and repairs of tools, etc.	5 14
\$360 93	
15 90	
	<hr/>
\$376 83	\$167 23
Playground, Glen Street and Oliver Street. (0.9 acre + 1.5 acres leased):—	
Maintenance of grounds, labor and teams	\$10 35
Supplies and repairs of tools, etc.	5 44
\$165 93	
7 00	
	<hr/>
\$172 93	\$15 79
Playground, Kent Street and Somerville Avenue (0.8 acre):—	
Maintenance of grounds, labor and teams	\$29 63
Supplies and repairs of tools, etc.	5 38
\$175 76	
1 18	
	<hr/>
\$176 94	\$35 01
Playground, Poplar Street and Joy Street, (0.5 acre):—	
Maintenance of grounds, labor and teams	\$ 87
Supplies and repairs of tools, etc.	5 22
\$12 03	
	<hr/>
\$12 03	\$6 09
Playground, Beacon Street, near Wash- ington Street (0.2 acre):—	
Maintenance of grounds, labor and teams	\$3 12
\$7 13	
Playground, Webster avenue, near Cam- bridge line (0.2 acre):—	
Maintenance of grounds, labor and teams	\$14 91
Supplies and repairs of tools, etc.	5 92
\$24 51	
	<hr/>
\$24 51	\$20 83

(Playgrounds)		(Parks)
	Playground, Mason Street and Broadway (0.3 acre):—	
\$115 74	Maintenance of grounds, labor and teams	
3 02	Supplies and repairs of tools, etc.	
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\$118 76		
	Playground, Fellsway East (2.5 acres leased):—	
\$74 23	Maintenance of grounds, labor and teams	
12 94	Supplies and repairs of tools, etc.	
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\$87 17		
	“Tufts Oval”:—	
\$97 61	Maintenance of grounds, labor and teams	
58	Supplies	
<hr/>		
\$98 19		
	“Artificial” (Skating area) Tufts College Land:—	
\$31 50	Maintenance of area, labor and teams	
	Total expenditure, maintenance (75 acres) 65.5 acres city property + 8.8 acres leased land, 0.7 acre cemetery and 1.36 miles boulevard, and 0.54 mile park- way roads	
<hr/>		
\$2,999 98		<hr/> \$9,373 24

CREDIT.

Playgrounds and Recreation		Parks
	Transfer from Contingent Account for Wading Pool	\$500 00
	Transfer from City Clerk’s department	375 00
	Appropriation for parks	8,500 00
		<hr/> \$9,375 00
\$3,000 00	Appropriation for playgrounds	
<hr/>		
\$0 02	Balance unexpended	<hr/> \$1 76

APPENDED TABLE.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,
ERNEST W. BAILEY,
City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Abdell	Somerville ave.	Southwesterly . . .	Private.	25	....	203
Aberdeen road . . .	Cedar st.	Highland ave. . . .	Public.	40	449	....
Aberdeen road ext.	Angle	Westerly	Private.	30	...	67
Acadia pk.	Somerville ave.	Northeasterly . . .	Public.	40	256	....
Adams	Broadway	Medford st.	Public.	40	907	....
Addison pl.	Somerville ave.	Southwesterly . . .	Private.	20	....	150
Adelaide rd.	Somerville ave.	Northeasterly . . .	Private.	20	....	138
Adrian	Marion st.	Joseph st.	Public.	40	579	....
Albion pl.	Albion st.	Northeasterly . . .	Private.	10	....	166
Albion ct.	Albion st.	Southwesterly . . .	Private.	16	....	116
Albion	Central st.	Cedar st.	Public.	40	2,742	....
Albion	Broadway	Medford line	Private.	50	....	100
Albion ter.	Albion st.	Southwesterly . . .	Public.	25	100	....
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	....
Aldrich	Pearl st.	B. & L. R. R. . . .	Public.	40	611	....
Alfred	Broadway	Medford line	Private.	50	....	50
Allen	Somerville ave.	Charlestown st. . .	Private.	25	....	680
Allen ct.	Park st.	Northwesterly . . .	Private.	20	....	150
Alpine	Cedar st.	Southeasterly . . .	Public.	30	667	....
Alpine	Alpine st.	Lowell st.	Public.	40	688	....
Alston	Cross st.	Shawmut st.	Public.	40-30	757	....
Ames	Bartlett st.	Robinson st.	Public.	40	580	....
Appleton	Willow ave.	Clifton st.	Public.	40	548	....
Appleton	Clifton st.	Liberty ave.	Public.	40	120	....
Arlington	Franklin st.	Lincoln st.	Public.	40	452	....
Arnold ave.	Porter st.	Southeasterly . . .	Private.	15	....	127
Arnold ct.	Beacon st.	Northeasterly . . .	Private.	10	....	115
Arthur ct.	Linden st.	Easterly	Private.	about 10	....	100
Arthur	Broadway	Bonair st.	Public.	40	438	....
Ash ave.	Meacham st.	East Albion st. . . .	Public.	40	554	....
Ash ave.	East Albion st.	Northeasterly . . .	Private.	40	....	151
Ashland	Summer st.	Sartwell ave.	Public.	30	478	....
Atherton	Central st.	Spring st.	Public.	40	741	....
Auburn ave.	Cross st.	B. & L. R. R. . . .	Public.	30	606	....
Austin	Broadway	Mystic ave.	Public.	40	716	....
Autumn	Broadway	Bonair st.	Public.	20	408	....
Avon	School st.	Central st.	Public.	40	1,360	....
Avon pl.	Cross st.	B. & L. R. R. . . .	Private.	25	....	150
Bailey	North st.	West Adams st. . . .	Private.	40	....	420
Banks	Elm st.	Summer st.	Public.	40	639	....
Bartlett	Vernon st.	Broadway	Public.	40	1,550	....
Barton	Broadway	Hamilton road. . . .	Public.	40	382	....
Bay State ave.	Broadway	Fosket st.	Public.	40	1,237	....
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	...	200
Beacon pl.	Beacon st.	Northeasterly . . .	Private.	15	....	200
Beacon	Cambridge line . . .	Somerville ave. . . .	Public.	66	6,007	....
Beacon ter.	Somerville ave.	Northeasterly . . .	Private.	24	....	110
Bean ter.	Cutter st.	Southeasterly . . .	Private.	16	....	100
Beckwith circle . . .	Beacon st.	Southwesterly . . .	Private.	28.5	....	112
Bedford	South st.	Cambridge line . . .	Public.	30	165	....
Beech	Somerville ave.	Atherton st.	Public.	40	323	....
Belknap	Broadway	Hamilton road. . . .	Public.	40	449	....
Bellevue ter.	Albion st.	Northeasterly . . .	Private.	20	....	90
Belmont	Somerville ave.	Highland ave. . . .	Public.	40	2,192	....
Belmont pl.	Belmont st.	Southeasterly . . .	Public.	25	177	....
Belmont sq.	Belmont st.	Southeasterly . . .	Private.	30	....	75
Belmont sq.	Belmont ter.	No'es'ly & so'ws'ly	Private.	20	....	145
Belmont ter.	Belmont st.	Easterly	Private.	15	....	137
Benedict ave.	Broadway	Benedict st.	Private.	20	....	200
Benedict	Union st.	Austin st.	Public.	40	585	....
Bennett ct.	Bennett st.	Prospect st.	Private.	10	....	100
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	....	400
Benton road	Summer st.	Hudson st.	Public.	40	1,208	....
Berkeley	School st.	Central st.	Public.	40	1,360	....
Berwick	Hinckley st.	Northwesterly . . .	Private.	20	....	170
Bigelow	Boston st.	Munroe st.	Public.	50	208	....
Billingham	Broadway	William st.	Public.	40	563	....
Bishop's pl.	Glen st.	Easterly	Private.	10	....	75

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private
Blakeley ave.	Fellsway east	Cross st.	Private.	40	....	630
Bleachery ct.	Somerville ave.	Fitchburg R. R.	Private.	30	....	450
Bolton	Oak st.	Houghton st. . . .	Public.	40	476	....
Bonair	Cross st.	Walnut st.	Public.	40	1,535	....
Bond	Broadway	Jaques st.	Public.	40	655	....
Bonner ave.	Washington st.	Columbus ave. . . .	Public.	40	376	....
Boston ave.	Medford line	Mystic river	Public.	60	915	....
Boston ave.	Broadway	Medford line	Public.	50	80	....
Boston ave.	Broadway	Highland road	Public.	65	287	....
Boston ave.	Highland road	Prichard ave.	Public.	50	509	....
Boston ave.	Prichard ave.	Easterly to angle in st.	Private.	50	....	146
Boston ave.	Angle inst. south'y	Frederick ave.	Private.	40	....	376
Boston ave.	Frederick Ave. . . .	Morrison ave.	Public.	40	649	....
Boston	Washington st.	Prospect Hill ave.	Public.	45	640	....
Boston	Prospect Hill av.	Walnut st.	Public.	40	1,242	....
Bow	Union sq.	Wesley sq.	Public.	60	658	....
Bow	Wesley sq.	Somerville ave. . . .	Public.	50	570	....
Bowdoin	Washington st.	Lincoln park	Public.	40	341	....
Bowers ave.	Cottage ave.	Elm st	Private.	24	....	288
Bow St. pl.	Bow st.	Northwesterly	Private.	40	....	300
Bradford ave.	School st.	Southeasterly	Private.	40	....	150
Bradley	Pearl St.	Walter St.	Public.	40	762	....
Braemore road	Broadway	Medford line	Private.	40	....	9
Brastow ave.	Lowell st.	Porter st.	Public.	40	686	....
Bristol road	Broadway	Medford line	Public.	40	146	....
Broadway	Charlestown line	Cross st.	Public.	100	2,590	....
Broadway	Cross st.	Marshall st.	Public.	100 to 200	2,060	....
Broadway	Marshall st.	Main st.	Public.	100	1,570	....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	....
Broadway	Top of hill	Albion st.	Public.	90	2,540	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	....
Broadway	Paulina st.	Arlington line	Public.	65-60-65	3,220	....
Broadway pl.	Broadway	Southwesterly	Private.	22	....	250
Bromfield road	Warner st.	Dearborn road	Public.	40	1,262	....
Brook	Glen st.	Cross st.	Public.	40	504	....
Browning road	Sycamore st.	Central st.	Public.	40	679	....
Buckingham	Beacon st.	Dimick st.	Public.	40	292	....
Buena Vista rd.	Holland st.	Southwesterly	Private.	35	....	276
Burnham	Broadway	Powder House Blvd.	Private.	40	....	537
Burnside ave.	Elm st.	Summer st.	Public.	40	270	....
Cady ave.	Simpson ave.	Northwesterly	Private.	40	....	203
Caldwell ave.	Washington st. . . .	Southerly	Private.	20	....	210
Calvin	Beacon st.	Dimick st.	Public.	40	263	....
Calvin	Dimick st.	Washington st.	Public.	30	392	....
Cambria	Central st.	Benton road	Public.	40	488	....
Cameron ave.	Holland st.	Cambridge line	Public.	60	1,065	....
Campbell pk.	Meacham rd.	Kingston st.	Public.	40	399	....
Campbell Pk. pl.	Kingston st.	Arlington Br. R.R.	Private.	20	....	84
Carlton	Somerville ave. . . .	Lake st.	Public.	40	300	....
Carver	Porter st.	Northwesterly	Private.	40	....	156
Cedar ave.	Cedar st.	Linden ave.	Private.	22	....	290
Cedar ct.	Cedar st.	Southeasterly	Private.	15+	....	70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20	....	378
Cedar St. pl.	Cedar n'r Elm st.	Southeasterly	Private.	12+	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,137	....
Central road	Central st.	E'y and N'y.	Private.	40	....	223
Central road	Central road	Sycamore st.	Private.	30-15	....	220
Central	Somerville ave. . . .	Summer st.	Public.	33	1,043	....
Central	Summer st.	Medford st.	Public.	40	2,539	....
Central	Medford st.	Broadway	Public.	45	1,079	....
Centre	Albion st.	B. & L. R. R.	Private.	35	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....
Chapel	College ave.	Chandler st.	Public.	40	273	....
Chapel ct.	Sycamore st.	Northwesterly	Private.	12	....	130
Charles	Washington st. . . .	Southerly	Public.	30	166	....
Charlestown	Allen st.	Easterly	Private.	15	....	400
Charnwood road	Willow ave.	Hancock st.	Public.	40	589	....

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
*Chelsea	Mystic ave. . . .	Melrose st. . . .	Private.	50	....	1,390
Cherry	Elm st.	Highland ave. . . .	Public.	45	1,450	....
Cherry	Highland ave. . . .	Northeasterly	Private.	45	....	110
Chester	Elm st.	Cambridge line	Public.	40	885	....
Chester ave.	Medford st.	Angle	Public.	about 22	220	....
Chester ave.	Angle	Cross st.	Public.	20	451	....
Chester pl.	Chester st.	Northwesterly	Private.	40	....	200
Chestnut	Poplar st.	Southeasterly	Public.	40	537	....
Chetwynd road	Curtis st.	West Adams st. . . .	Private.	40	....	892
Church	Summer st.	Lake st.	Public.	40	964	....
City road	Broadway	Cedar st.	Private.	45	....	980
Claremont	Holland st.	Mead st.	Public.	40	560	....
Clarendon ave.	Broadway	Cambridge line	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.	40	....	220
Clyde	Cedar st.	Murdock st.	Public.	30	664	....
College ave.	Davis sq.	Medford line	Public.	60	4,080	....
College Cir.	College ave. around 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.	Columbia st.	Webster ave.	Private.	9	....	150
Columbus ave.	Washington st.	Walnut st.	Public.	40	1,425	....
Concord ave.	Prospect st.	Wyatt st.	Public.	40	1,483	....
Concord ave.	Wyatt st.	Beacon st.	Public.	30	472	....
Congress pl.	Linwood st.	Somerville ave.	Public.	50	202	....
Conlon ct.	Columbia st.	Easterly	Private.	20	....	200
Connecticut ave.	Mystic ave.	Pennsylvania ave. . . .	Private.	40	....	487
Conwell ave.	Curtis st.	North st.	Public.	40	1,346	....
Conwell	Highland ave.	Southwesterly	Public.	35	363	....
Cooney	Beacon st.	Line st.	Private.	30	....	220
Corinthian road	Broadway	Cady ave.	Private.	40	....	560
Cottage ave.	Russell st.	Chester st.	Public.	40	550	....
Cottage circle	Cottage ave.	Southwesterly	Private.	25	....	87
Cottage pl.	Washington st.	Northwesterly	Private.	about 11	....	150
Craigie	Somerville ave.	Summer st.	Public.	50	1,280	....
Craigie ter.	16 Craigie st.	Westerly	Private.	25	....	126
Crescent	Washington st.	Hadley	Private.	30	....	402
Crescent	Hadley st.	Pearl st.	Public.	30	174	....
Crocker	Highland ave.	Crown st.	Public.	40	528	....
Cross	Medford st.	Broadway	Public.	45	2,680	....
Cross st. (East)	Broadway	Mystic ave.	Public.	40	1,100	....
Cross St. pl.	Cross st.	Northwesterly	Private.	24	....	150
Crown	Porter st.	Lowell st.	Private.	30	....	700
*Cummings	Fellsway	Middlesex ave.	Private.	40	....	625
Curtis ave.	Curtis st.	Hillsdale road.	Public.	40	654	....
Curtis	Broadway	Medford line	Public.	40	2,357	....
Cutler	Hinckley st.	Northwesterly	Private.	20	....	170
Cutter ave.	Summer st.	Highland ave.	Public.	40	480	....
Cutter pk.	Cutter ave.	Northwesterly	Private.	12	....	83
Cutter	Broadway	Webster st.	Public.	40	730	....
Cypress	Central st.	Beech st.	Public.	40	262	....
Dana	Bonair st.	Pearl st.	Public.	40	696	....
Dane	Somerville ave.	Washington st.	Public.	40	1,341	....
Dane ave.	Dane st.	Leland st.	Public.	30	569	....
Dante terrace	Craigie st.	Westerly	Private.	25	....	125
Dartmouth	Medford st.	Broadway	Public.	40	1,465	....
Day	Elm st.	Cambridge line	Public.	40	908	....
Dearborn road	Boston ave.	College ave.	Public.	50	469	....
Delaware	Aldrich st.	Pearl st.	Public.	40	451	....
Dell	Glen st.	Tufts st.	Public.	40	466	....
Derby	Temple st.	Wheatland st.	Public.	40	1,031	....
Dexter	Broadway	Medford line	Private.	50	....	25
Dickinson	Springfield st.	Beacon st.	Public.	40	770	....
Dickson	Broadway	Fairmount ave.	Private.	40	....	271
Dimick	Concord ave.	Calvin st.	Public.	40	957	....
Dix pl.	Linwood st.	Southwesterly	Private.	10	....	100
Douglas ave.	Edgar ave.	Southeasterly	Private.	30	....	162
Dover	Elm st.	Cambridge line	Public.	40	975	....
Dow	PowderHouseBd.	Ware st.	Private.	40	....	257

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.		
					Public.	Private.	
Downer pl. . . .	Downer st. . . .	B. & L. R. R. . . .	Private.	20	....	125
Downer	Nashua st. . . .	Southeasterly . . .	Private.	20	....	120
Dresden circle . . .	Cutter ave. . . .	Westerly	Private.	30	....	133
Durant	Washington st. . .	Southerly. . . .	Private.	20	....	200
Durham	Beacon st. . . .	Hanson st. . . .	Public.	40	423	....
Dynamo	Willow ave. . . .	Whipple st. . . .	Private.	30	....	255
Earle	South st. . . .	Fitchburg R. R. . .	Private.	30	..	322	
East Albion	Mt. Vernon ave. . .	E. of Moreland st. .	Private.	25	..	188	
East Albion	E. of Moreland st. .	Medford line. . . .	Private.	40	..	490	
Eastman road. . . .	Highland ave. . . .	Southwesterly . . .	Public.	40	296	....
Edgar ave. . . .	Main st. . . .	Meacham st. . . .	Private.	50	....	800
Edgemere st. . . .	Washington st. . . .	Southerly	Private.	40	....	509
(Magnus ave.)	Mystic ave. . . .	Melrose st. . . .	Private.	50	....	1,380
*Edgeworth	Broadway	near Bonair st. . . .	Public.	40	376	....
Edmunds	Cross st. . . .	Fellsway east	Private.	40	....	630
Edmonton ave. . . .	Mason st. . . .	Packard ave. . . .	Private.	40	....	632
Electric ave. . . .	Packard ave. . . .	Curtis st. . . .	Public.	40	681	....
Electric ave. . . .	Vine st. . . .	Park st. . . .	Public.	40	291	....
Eliot	Highland ave. . . .	Northeasterly . . .	Private.	35	....	120
Ellington road . . .	West st. . . .	Northwesterly . . .	Private.	30	....	405
Ellsworth	Cross st. . . .	Rush st. . . .	Public.	40	230	....
Elm ct. . . .	Villa ave. . . .	Northwesterly . . .	Private.	18	....	70
Elm pl. . . .	Harvard st. . . .	Westerly	Private.	30	....	190
Elm road	Elm st. . . .	Northeasterly . . .	Private.	25	....	183
Elm	Somerville ave. . .	Cherry st. . . .	Public.	63	1,672	....
Elm	Cherry st. . . .	White st. . . .	Public.	63 to 60	330	....
Elm	White st. . . .	Banks st. . . .	Public.	60	660	....
Elm	Banks st. . . .	Beech st. . . .	Public.	60 to 77.5	290	....
Elm	Beech st. . . .	Tenney st. . . .	Public.	77.5 to 60	570	....
Elm	Tenney st. . . .	Davis sq. . . .	Public.	60	1,429	....
Elmwood	Holland st. . . .	Cambridge line . . .	Public.	40	1,057	....
Elmwood ter. . . .	Elmwood st. . . .	Easterly	Private.	20	....	190
Elston	Elm st. . . .	Summer st. . . .	Public.	40	396	....
Emerson	Everett st. . . .	Newton st. . . .	Private.	30	....	170
Endicott ave. . . .	Broadway	Woodstock st.(Ext'n)	Private.	40	....	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	....	350
Evergreen ave. . . .	Marshall st. . . .	Sycamore st. . . .	Public.	40	1,320	....
Evergreen sq. . . .	Porter st. . . .	Southeasterly . . .	Private.	22	..	179	
Exchange pl. . . .	Washington st. . . .	Southerly	Private.	4.5	....	70
*Fairfax st. . . .	North st. . . .	Powder House Blvd	Private.	40	....	915
Fairlee	Cherry st. . . .	Northwesterly . . .	Public.	30	144	....
Fairmount ave. . . .	Curtis st. . . .	Northwesterly . . .	Public.	40	679	....
Fairview ter. . . .	Sycamore st. . . .	Southwesterly . . .	Private.	15	....	173
Farragut ave. . . .	Broadway	Woodstock st.(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 . . .	(Chauncey ave.)	Broadway	Mystic ave. . . .	Public.	50	1,324
Fenwick	Broadway	Jaques st. . . .	Public.	40	601	....
Fisk ave. . . .	Hinckley st. . . .	Lowell st. . . .	Public.	20	484	....
Fitchburg ct. . . .	Fitchburg st. . . .	Southeasterly . . .	Private.	10	....	225
Fitchburg	Linwood st. . . .	B. & L. R. R. . . .	Private.	40	....	400
Flint ave. . . .	Flint st. . . .	Northerly	Public.	40	202	....
Flint	Franklin st. . . .	Aldrich st. . . .	Public.	40	1,790	....
Florence	Washington st. . . .	Perkins st. . . .	Public.	40	1,304	....
Florence ter. . . .	Jaques st. . . .	Southwesterly . . .	Private.	20	....	90
Forest	Beacon st. . . .	Cambridge line . . .	Public.	40	117	....
Forster	Sycamore st. . . .	Central st. . . .	Private.	30	....	430
Fosket	Willow ave. . . .	Liberty ave. . . .	Public.	40	668	....
Fountain ave. . . .	Cross st. . . .	Glen st. . . .	Public.	30	578	....
Francesca ave. . . .	College ave. . . .	Liberty ave. . . .	Public.	40	762	....
Francis	Porter st. . . .	Conwell st. . . .	Public.	30	180	....
Franklin ave. . . .	Washington st. . . .	Franklin st. . . .	Public.	20	575	....

* Proposed.

† Metropolitan Park Commission Boulevard,

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Franklin pl. . . .	Franklin st. . . .	Southeasterly . . .	Private.	15	....	100
Franklin	Broadway	Washington st. . .	Public.	40+	2,316	....
Fremont ave. . . .	Bowdoin st. . . .	Lincoln pk. . . .	Public.	30	232	....
Fremont	Main st. . . .	Near E. Albion st.	Public.	40	1,112	....
Fremont	Near E. Albion st.	Mystic ave. . . .	Private.	40	....	335
Garden ct. . . .	Somerville ave. . .	Fitchburg R. R. . .	Private.	25	....	370
Garfield ave. . . .	Broadway	Blakeley ave. . . .	Public.	40	447	....
Garfield ave. . . .	Blakeley ave. . . .	Middlesex ave. . . .	Private.	40	....	983
Garrison ave. . . .	Broadway	Land of City of Camb.	Public.	40	460	....
Garrison ave. . . .	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40	....	390
George	Broadway	Lincoln ave. . . .	Public.	30	275	....
Gibbens	Central st. . . .	Benton 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	....	124
Glen	Broadway	Tufts st. . . .	Public.	40	2,373	....
Glendale ave. . . .	Cameron ave. . . .	Yorktown st. . . .	Public.	40	410	....
Glenwood road . . .	Vernon st. . . .	Broadway	Public.	40	1,524	....
Glover circle	Meacham road . . .	Southeasterly . . .	Private.	20	....	110
*Gordon st. . . .	North st. . . .	Powder House Blvd	Private.	40	....	1,245
Gorham	Holland st. . . .	Howard st. . . .	Public.	40	763	....
Gould ave. . . .	Porter st. . . .	Southeasterly . . .	Private.	16	....	156
Gove ct. . . .	Cedar st. . . .	Southeasterly . . .	Private.	15	....	145
Grand View ave. . .	Walnut st. . . .	Vinal ave. . . .	Public.	40	542	....
Granite	Somerville ave. . .	Osgood st. . . .	Public.	40	411	....
Grant	Broadway	Mystic ave. . . .	Public.	40	1,405	....
Greene	Summer st. . . .	Laurel st. . . .	Public.	40	555	....
Greenville	Medford st. . . .	Munroe st. . . .	Public.	40	660	....
Greenville ter. . . .	Greenville st. . . .	Northerly	Private.	20	....	250
Greenwood ter. . . .	Beacon st. . . .	Northeasterly . . .	Private.	25	....	165
Gritter way	College ave. . . .	Bromfield rd. . . .	Private.	4	....	160
Grove	Elm st. . . .	Morrison ave. . . .	Public.	40	996	....
Hadley ct. . . .	Franklin st. . . .	Westerly	Private.	16	....	95
Hall ave. . . .	College ave. . . .	Liberty ave. . . .	Public.	40	926	....
Hall	Cedar st. . . .	Cherry st. . . .	Public.	30	456	....
Hamlet	Highland ave. . . .	Boston st. . . .	Public.	30	616	....
Hamilton road	Russell road	North st. . . .	Private.	40	....	635
Hammond	Dickinson st. . . .	Concord ave. . . .	Public.	40	267	....
Hancock	Elm st. . . .	Highland ave. . . .	Public.	40	1,349	....
Hancock	Highland ave. . . .	Lexington ave. . . .	Public.	50	376	....
Hanson ave. . . .	Hanson st. . . .	Easterly	Private.	30	....	252
Hanson	Washington st. . . .	Shehan st. . . .	Public.	30	469	....
Hanson	Shehan st. . . .	Vine st. . . .	Public.	35	347	....
Hardan road	Powder House Bd.	Ware st. . . .	Private.	20 and 40	....	283
Harding	Ward st. . . .	Northerly	Private.	30	....	70
Harding	Ward st. . . .	Cambridge line . . .	Public.	30	995	....
Harold	Dimick st. . . .	Marion st. . . .	Public.	40	316	....
Harrison	Ivaloo st. . . .	Kent st. . . .	Public.	40	644	....
Harrison	Elmwood st. . . .	Southeasterly . . .	Private.	40	....	210
Harvard pl. . . .	Harvard st. . . .	Westerly	Private.	35	....	200
Harvard	Summer st. . . .	Beech st. . . .	Public.	40	717	....
Hathorn	Broadway	Arlington st. . . .	Public.	40	339	....
Hawkins	Somerville ave. . .	Washington st. . . .	Public.	40	330	....
Hawthorne	Willow ave. . . .	Cutter ave. . . .	Public.	30	807	....
Hayden ter. . . .	Linden ave. . . .	Easterly	Private.	20	....	120
Heath	Temple st. . . .	Bond st. . . .	Public.	45	1,043	....
Heath	Bond st. . . .	Mt. Vernon ave. . . .	Private.	40	....	386
Heath	Mt. Vernon ave. . .	Moreland st. . . .	Public.	40	364	....
Henderson	Richardson st. . . .	B. & L. R. R. . . .	Public.	20	569	....
Hennessy ct. . . .	Medford st. . . .	Fisk ave. . . .	Private.	20	....	250
Henrietta ct. . . .	Somerville ave. . . .	Northerly	Private.	8 and 20.	....	161
Henry ave. . . .	Highland ave. . . .	Lexington ave. . . .	Public.	40	290	....
Herbert	Chester st. . . .	Day st. . . .	Public.	40	337	....
Hersey	Berkeley st. . . .	Oxford st. . . .	Private.	40	....	230
Higgins ct. . . .	Mt. Vernon st. . . .	Westerly	Private.	16	....	149
High	North st. . . .	Powder House Bd.	Private.	40	....	678
Highland ave. . . .	Medford st. . . .	Davis sq. . . .	Public.	60	9,135	....
Highland p'th, east	Morrison ave. . . .	Arlington Br. R. R.	Private.	10	....	107

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Highland p'th, west	Morrison ave. . .	Arlington Br. R. R.	Private.	10	....	103
† Highland road . . .	Morrison ave. . .	Boston ave. . .	Public.	30(70 wide)	1,499	....
Hill	Broadway . . .	Fairmount ave. . .	Public.	40	284	....
Hillsdale rd. . . .	Conwell ave. . .	Sunset rd. . . .	Private.	40	....	632
Hillside ave. . . .	Pearl st. . . .	Southwesterly . .	Private.	30	....	150
Hillside cir. . . .	Craigie st. . . .	Westerly	Private.	16	....	151
Hillside pk. . . .	Walnut st. . . .	Northwesterly . .	Public.	40	196	....
Hinckley	Broadway . . .	B. & L. R. R. . .	Public.	30 and 35	1,081	....
Hodgdon pl. . . .	Dane ave. . . .	Northeasterly . .	Private.	about 20	....	150
Holland	Davis sq. . . .	Broadway	Public.	60	2,696	....
Holt's ave.	Oak st.	Southeasterly . .	Private.	10	....	100
Holyoke road. . . .	Elm st. around to	Elm st.	Public.	40	637	....
Homer sq.	Bonner ave. . .	Northwesterly . .	Public.	30+	200	....
Horace	South St. . . .	Ward st.	Public.	30	222	....
Horace	Ward st. . . .	Fitchburg R. R. .	Private.	30	....	265
Houghton	Springfield st.	Cambridge line. .	Public.	40	653	....
Howard	Thorndike st. .	Gorham street . .	Public.	40	431	....
Howe	Marshall st. . .	School st.	Public.	40	445	....
Hudson.	Central st. . . .	Cedar st.	Public.	40	2,760	....
Hunting	South st. . . .	Cambridge line . .	Private.	30	....	125
Ibbetson	Somerville ave. .	Lowell st.	Public.	40	802	....
Illinois ave. . . .	Broadway . . .	Pennsylvania ave. .	Private.	40	....	427
Indiana ave. . . .	Broadway . . .	Pennsylvania ave. .	Public.	40	384	....
Irving	Holland st. . . .	Broadway	Public.	40	1,180	....
Ivaloo	Beacon st. . . .	Park st.	Public.	40	685	....
James	Pearl st.	Radcliffe road. . .	Public.	40	320	....
Jaques	Fellsway west . .	Temple st.	Public.	40	1,182	....
Jaques	Temple st. . . .	Bond st.	Public.	45	1,005	....
Jaques	Bond st.	Edgar ave.	Private.	40	....	378
Jasper pl.	Walnut st. . . .	Easterly	Private.	20	....	80
Jasper	Pearl st.	Gilman st.	Public.	40	283	....
Jay	Holland st. . . .	Howard st.	Public.	40	534	....
Jerome ct.	Sycamore st. . . .	Jerome st.	Private.	10	....	150
Jerome	Montrose st. . .	Jerome ct.	Private.	20	....	125
Jerome	Lawrence rd. . .	Mystic Valley Park'y	Private.	40	....	495
Joseph	Newton st. . . .	Lincoln parkway . .	Public.	40	458	....
Josephine ave. . . .	Morrison ave. . .	Broadway	Public.	45	1,718	....
Joy	Washington st. .	Poplar st.	Public.	30	1,121	....
Joy St. pl.	Joy st.	Southwesterly . .	Private.	30	....	175
Kenneson road . . .	Broadway . . .	Walnut road . . .	Private.	30	....	338
Kensington ave. . .	Broadway . . .	Blakeley ave. . . .	Public.	40	455	....
*Kensington ave. . .	Blakeley ave. . .	Middlesex ave. . .	Private.	40	....	1,150
Kent ct.	Kent st.	Northerly	Private.	about 25	....	420
Kent	Somerville ave. .	Fitchburg R. R. . .	Public.	40	292	....
Kent	Fitchburg R. R. .	Beacon st.	Public.	25	386	....
Kenwood	College ave. . . .	Billingham st. . .	Public.	40	322	....
Kidder ave.	College ave. . . .	Boston ave.	Public.	40	2,554	....
Kilby	Somerville ave. .	Southwesterly . .	Private.	20	....	180
Kilsyth road	Broadway . . .	Medford line . . .	Private.	40	....	5
Kimball	Lowell st. . . .	Craigie st.	Private.	40	....	303
Kingman road. . . .	Washington st. .	Fitchburg R. R. . .	Private.	25	....	400
Kingston	Meacham road . .	Cambridge line. . .	Public.	40	647	....
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Tufts st.	N'E'y line Est. 37	Public.	40	461	....
Knowlton	End of above . .	Oliver st.	Private.	40	....	464
Lake	Hawkins st. . . .	Church st.	Public.	40	840	....
Lamson ct.	Linwood st. . . .	Poplar st.	Private.	20	....	370
Landers	School st.	Westerly	Public.	40	228	....
Langmaid ave. . . .	Broadway . . .	Heath st.	Public.	30	353	....
Latin way	Talbot ave. . . .	Professors row . .	Private.	60	....	250
Laurel ave.	Laurel st.	Northwesterly . .	Private.	18	....	125
Laurel	Somerville ave. .	Summer st.	Public.	40	983	....
Lawrence road . . .	Medford line . . .	Mystic Valley Park'y	Private.	40	....	585
Lawson ter.	Putnam st. . . .	Easterly	Private.	5	....	200
Lee	Medford st. . . .	Richdale ave. . . .	Public.	40	385	....

•Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Leland	Washington st.	Dane ave.	Public.	40	359	....
Leon	Concord ave.	Dickinson st.	Public.	40	155	....
Leonard pl.	Joy st.	Northeasterly	Private.	13+	....	98
Leonard	Broadway	Powder House Blvd.	Public.	40	450	....
Lesley ave.	Highland ave.	Lexington ave.	Public.	40	333	....
Leslie pl.	Highland ave.	Northerly	Private.	12	....	75
Lester ter.	Meacham road	Northwesterly	Private.	20	....	190
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	....
Lexington ave.	Hancock st.	Angle	Public.	45 to 40	147	....
Lexington ave.	Angle	Cedar st.	Public.	40	578	....
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	....
Liberty rd.	Morrison ave.	Liberty ave.	Private.	16	....	200
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Public.	30	478	....
Lincoln parkway	Washington st.	Perry st.	Public.	40	1,520	....
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave.	Elm st.	Summer st.	Public.	45	1,083	....
Linden ave.	Summer st.	Northeasterly	Private.	45	....	250
Linden circle	Linden ave.	Southeasterly	Private.	24	....	120
Linden pl.	Linden ave.	Northwesterly	Private.	20	....	160
Linden	Somerville ave.	Charlestown st.	Public.	33	587	....
Line	Washington st.	Cambridge line	Public.	33	1,727	....
Linchan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	....	150
Linwood	Somerville ave.	Washington st.	Public.	50	2,114	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340
Loring	Somerville ave.	Osgood st.	Public.	40	413	....
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave.	Public.	40	385	....
Lowden ave.	Broadway	Fosket st.	Public.	40	1,247	....
Lowell	Somerville ave.	Summer st.	Public.	36	1,259	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....
Lowell circle	Lowell st.	Westerly	Private.	11 and 27.5	....	143
Lowell ter.	Lowell st.	Northwesterly	Private.	20	....	150
Madison	School st.	Sycamore st.	Public.	40	891	....
Main	Broadway	Medford line	Public.	50	966	....
Maine ave.	Mystic ave.	Pennsylvania ave.	Private.	40	....	....
Maine ter.	Maine ave.	Southeasterly	Private.	32	....	379
*Malden	Mystic ave.	Melrose st.	Private.	50	....	205
Mallet	Willow ave.	Liberty ave.	Public.	40	657	1,360
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	....
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	255
Mansfield	Somerville ave.	Washington st.	Public.	40	735	....
Maple ave.	School st.	Southeasterly	Private.	40	....	....
Maple pl.	Marshall st.	Maple ave.	Private.	5	....	300
Maple	Poplar st.	Medford st.	Public.	30	699	125
Mardel circle	Spring st.	Northwesterly	Private.	8	....	....
Marion	Concord ave.	Dimick st.	Public.	40	1,141	140
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason	Broadway	Powder House Blvd.	Private.	40	....	....
May pl.	Hawkins st.	Easterly	Private.	12	....	683
McCarroll ct.	Clyde st.	Southwesterly	Private.	25	....	100
McCulpe pl.	Medford st.	Easterly	Private.	10	....	75
McGregor ave.	Wigglesworth st.	Walnut st.	Private.	13	....	110
Meacham road	Dover st.	Cambridge line	Public.	40	1,060	302
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	....
Mead	Cameron ave.	Moore st.	Private.	40	....	....
Medford	Cambridge line	Central st.	Public.	50	8,047	340
Medford	Central st.	Broadway	Public.	55	1,985	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	....
Melvin	Broadway	Bonair st.	Public.	40	487	2,310
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	....
Merriam	Washington st.	Somerville ave.	Public.	40	360	255
Merriam	Somerville ave.	Charlestown st.	Public.	30	510	....
Michigan ave.	Broadway	Pennsylvania ave.	Private.	40	....	....
†Middlesex ave	Mystic ave.	Fellsway	Public.	60	2,304	470
Milk pl.	Somerville ave.	Southwesterly	Private.	about 30	....	....
						100

*Proposed.
†State Highway.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private
Miller	Sacramento st. .	Beacon st.	Private.	33	....	465
Milton	Orchard st. . . .	Cambridge line . .	Public	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave. . .	Broadway	Pennsylvania ave. .	Private.	40	....	525
Mondamin ct. . . .	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	..
Monmouth	End of above . . .	Harvard st.	Private.	35	....	200
Montgomery ave. .	Broadway	Wellington ave. . .	Public.	40	265	....
Montrose ct.	Montrose st. . . .	B. & L. R.R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	886	....
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. . . .	Willow ave.	College ave.	Public.	40	1,690	....
Morrison pl.	Morrison ave. . . .	Northerly	Private.	20	....	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	....	175
Mortimer pl.	Marshall st.	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave. . .	Elm st.	Public.	40	377	....
Mountain ave. . . .	Linden ave.	Porter st.	Private.	22	....	310
Mousal pl.	North Union st. . .	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ct. . .	Perkins st.	Southwesterly . . .	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	584	....
*Mt. Vernon 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 . . .	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray	Washington st. . . .	Southerly	Private.	30	....	250
Museum	Beacon st.	Cambridge line . . .	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle pl.	Myrtle st.	Westerly	Private.	20+	....	120
Myrtle	Washington st. . . .	Perkins st.	Public.	40	1,423	....
Mystic ave.	Charlestown line . .	Union st.	Public.	60	378	....
†Mystic ave	Union st.	Medford line	Public.	66	6,938	....
Mystic	Benedict st.	Mystic ave.	Public.	40	336	....
‡Mystic Val. Pky. . .	Medford line	Arlington line	Public.	60	2,330	....
Nashua	Richardson st. . . .	B. & L. R. R.	Public.	35	637	....
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison ave.	Public.	40	200	....
Newberne	Morrison ave.	Arlington Br. R.R. . .	Private.	40	....	173
Newbury park	Newbury st.	Southeasterly	Private.	55	....	68
Newbury	Holland st.	Cambridge line . . .	Public.	40	1,260	....
N. Hampshire ave . .	Mystic ave.	Pennsylvania ave. . .	Private.	40	....	406
Newman pl.	Cedar st.	Southeasterly	Private.	15	....	100
Newton pl.	Newton st.	Easterly	Private.	about 10	....	100
Newton	Prospect st.	Webster ave.	Public.	25	470	....
Newton	Webster ave.	Concord ave.	Public.	40+	637	....
Norfolk	Webster ave.	Cambridge line . . .	Public.	40	283	....
North	Broadway	Medford line b. 17 . .	Public.	40	1,961	....
North	Medford line b. 17 .	Medford line b. 18 . .	Public.	37 to 42	649	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....
Oak Circle	Cambridge line . . .	Northerly	Private.	30	....	35
Oak	Prospect st.	Angle	Public.	40	665	....
Oak	Angle	Cambridge line . . .	Public.	30	563	....
Oak St. pl.	Oak st.	Northerly	Private.	4	....	85
Oak ter.	Elm st.	Northeasterly	Private.	10+	....	90
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Peterson ter.	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,085	....

*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.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Orchard	Cambridge line	Meacham road	Public.	40	1,567	....
Osgood	Granite st.	Easterly & west'ly	Private.	40	....	450
Ossipee road	Mason st.	Curtis st.	Public.	40	1,375	....
Otis	Cross st.	Wigglesworth st.	Public.	40	1,200	....
Oxford	School st.	Central st.	Public.	35	1,361	....
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Professors row	Public.	60	1,768	....
Packard ave.	Professors row	Medford line	Private.	60	....	240
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	College ave.	Wallace st.	Public.	40	467	....
Park pl.	Laurel st.	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly	Private.	20	....	120
Park	Somerville ave.	Beacon st.	Public.	50	1,238	....
Parkdale	Washington st.	Montvale st.	Private.	40	....	500
Parker pl.	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Public.	35	203	....
Partridge ave.	Vernon st.	Broadway	Public.	40	1,467	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Public.	40	769	....
Pearl	Crescent st.	Mt. Vernon st.	Public.	37	341	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	957	....
Pearl	Franklin st.	Cross st.	Public.	40	1,060	....
Pearl	Cross st.	Medford st.	Public.	50	2,447	....
Pearl St. pl.	Pearl st.	Northeasterly	Public.	20	166	....
Pearl ter.	Pearl st.	Northerly	Private.	23	....	161
Pearson ave.	Morrison ave.	Boston ave.	Public.	45	1,320	....
Pearson road	Broadway	Dearborn road	Public.	40	1,713	....
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Public.	40	430	....
Pennsylvania ave.	Broadway	Wisconsin ave.	Public.	50	1,112	....
Pennsylvania ave.	Wisconsin ave.	Cross st.	Private.	40	....	350
Perkins pl.	Perkins st.	Northeasterly	Private.	20	....	200
Perkins	Franklin st.	Charlestown line	Public.	40	1,336	....
Perry	Washington st.	Lincoln parkway	Public.	40	606	....
Peterson ter.	Porter st.	Olive ave.	Private.	7.5	....	155
Philips pl.	Spring st.	Westerly	Private.	15+	....	100
Pinckney pl.	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,186	....
Piper ave.	Cedar st.	Westerly	Private.	20	....	461
Pitman	Beech st.	Spring st.	Private.	30	....	380
Pitman	Spring st.	Belmont st.	Private.	26	....	390
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	543	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R.	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220
Porter	Elm st.	Mountain ave.	Public.	45	1,622	....
Porter	Mountain ave.	Highland ave.	Public.	40	415	....
Powder house boulevard	Powder house square	Northwesterly, Mystic river and Medford line	Public.	80	7,200	....
Powder house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prentiss	Beacon st.	Cambridge line	Private.	35	....	150
Prescott	Summer st.	Highland ave.	Public.	50	1,110	....
Preston road	School st.	Summer st.	Public.	40	839	....
Prichard ave.	Morrison ave.	Boston ave.	Public.	40	1,191	....
Princeton	Alpine st.	Lowell st.	Public.	40	648	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Proposed	Fellsway	Middlesex ave.	Private.	40	....	195
Proposed	Fellsway	Middlesex ave.	Private.	40	....	315
Proposed	Fellsway	Middlesex ave.	Private.	40	....	340
Prospect	Washington st.	Cambridge line	Public.	50	2,071	....
Prospect Hill av.	Medford st.	Munroe st.	Public.	40	597	....
Prospect Hill p'k'y	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,262	....
Quincy	Somerville ave.	Summer st.	Public.	40	781	....
Radcliffe road	Walnut st.	Bradley st.	Public.	35	392	....
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	....
Randolph pl.	Cross st.	Westerly	Private.	15	....	244

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record ct.	Broadway.	Southwesterly	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly	Private.	20	....	105
Remick ct.	Cutter st.	Southeasterly	Private.	10	....	100
Renfrew (Rose)	Washington st.	Montvale st.	Private.	40	....	450
Rhode Island ave.	Mystic ave.	Pennsylvania ave.	Public.	40	460	....
Richardson	Lowell st.	Hinckley st.	Public.	35	467	....
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Roberts	Hinckley st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Boston ave.	Public.	45	1,682	....
Roland	Waverly st.	Boston line	Private.	40	....	109
Roseland	Beacon st.	Cambridge line	Public.	40	121	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly	Private.	15+	....	175
Rush	Broadway.	Flint st.	Public.	40	1,400	....
Russell rd.	Broadway.	N. line Hamilton rd.	Public.	40	559	....
Russell rd.	N. line Hamilton rd.	Northerly	Private.	40	....	75
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line	Public.	40	154	....
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st.	Northwesterly	Private.	30	....	176
Sargent ave.	Broadway.	Walnut st.	Public.	40	1,075	....
Sartwell ave.	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,901	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly	Private.	12	....	130
Seven Pines ave.	Cameron ave.	Cambridge line	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut	Washington st.	Cross st.	Public.	40	575	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway.	Holland st.	Public.	40	1,018	....
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave.	Pearl st. around to	Pearl st.	Private.	40	....	540
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200
Snow ter.	Jaques st.	Southwesterly	Private.	16	....	120
Somerville ave.	E. Camb. line	Union sq.	Public.	75	4,325	....
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	....
South	Medford st.	Water st.	Public.	30	989	....
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200
Spring	Somerville ave.	Summer st.	Public.	40	1,220	....
Springfield	Concord ave.	Cambridge line	Public.	40	788	....
Spring Hill ter.	Highland ave.	Belmont st.	Private.	20	....	670
Stanford ter.	Beacon st.	Northeasterly	Private.	20	....	200
Steeves circle.	Cherry st.	Easterly	Private.	15	....	120
*Sterling st.	North st.	Powder House Bd.	Private.	40	....	800
Stickney ave.	Marshall st.	School st.	Public.	40	458	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	....
St. James ave. ext.	Summer st.	Northeasterly	Public.	30	125	....
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	....	15
Summer	Bow st.	Elm st.	Public.	45	7,900	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	532	....
Summit	College ave.	Billingham st.	Public.	40	262	....
Sumner	Hinckley st.	Northwesterly	Private.	20	....	175
Sunnyside ave.	Walnut st.	Wigglesworth st.	Public.	25 to 35	306	....
Sunset rd.	Curtis st.	Hillsdale road	Private.	40	....	658

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Sycamore	Broadway	Medford st. . . .	Public.	45	1,275	...
Sycamore	Medford st. . . .	B. & L. R. R. . . .	Public.	40	667	....
Sycamore	B. & L. R. R. . . .	Highland ave. . . .	Public.	35	722	....
Sydney	Grant st. . . .	Temple st. . . .	Public.	40	679	....
Talbot ave. . . .	Packard ave. . . .	College ave. . . .	Private.	50	....	1,409
•Tannery (Ext'n)	Cambridge line	Woodstock st. (Ext'n)	Private.	40	....	160
Taunton	Wyatt. st. . . .	Easterly to angle	Private.	30	....	170
Taunton	Angle	Marion st. . . .	Private.	20	....	95
Taylor pl. . . .	Somerville ave. . . .	Southerly	Private.	15	....	200
Taylor	Mystic ave. . . .	Sydney st. . . .	Public.	40	309	....
Teele ave. . . .	Packard ave. . . .	Curtis st. . . .	Public.	40	685	....
Temple	Broadway	Mystic ave. . . .	Public.	66	1,637	....
Tenney ct. . . .	Mystic ave. . . .	Northeasterly	Private.	30	....	400
Tennyson	Forster st. . . .	Pembroke st. . . .	Public.	40	922	....
Thorndike	Holland st. . . .	Arl'ngt'n Br. R. R. . . .	Public.	40	465	....
Thorndike	Arl'gt'n Br. R. R. . . .	Kingston st. . . .	Public.	40	115	....
Thorpe	Highland ave. . . .	Southwesterly	Public.	30	468	....
Thurston	Broadway	Richdale ave. . . .	Public.	40	1,660	....
Timmins pl. . . .	Dane st. . . .	Westerly	Private.	3.5	....	97
Tower ct. . . .	Tyler st. . . .	Northeasterly	Private.	25	....	150
Tower	Crown st. . . .	Highland ave. . . .	Public.	40	559	....
Tremont pl. . . .	Tremont st. . . .	Southeasterly	Private.	about 10	....	75
Tremont	Webster ave. . . .	Cambridge line	Public.	40	589	....
Trull	Vernon st. . . .	Medford st. . . .	Public.	40	1,050	....
Trull lane	Highland ave. . . .	Oxford st. . . .	Private.	15	....	200
Tufts parkway	College ave. . . .	College ave. . . .	Public.	22	900	....
Tufts	Washington st. . . .	Cross st. . . .	Public.	40	982	....
Turner ct. . . .	Franklin st. . . .	Westerly	Private.	20	....	150
Tyler	Vine st. . . .	Dane st. . . .	Public.	40	404	....
Union	Broadway	Mystic ave. . . .	Public.	40	345	....
Union pl. . . .	Linwood st. . . .	Southwesterly	Private.	10	....	100
Upland Park	Main st. . . .	Southwesterly	Private.	20	....	175
Vermont ave. . . .	Mystic ave. . . .	Pennsylvania ave. . . .	Private.	40	....	433
Vernon	Central st. . . .	Glenwood road	Public.	40	764	....
Vernon	Glenwood road	Partridge ave. . . .	Public.	40 to 30	190	....
Vernon	Partridge ave. . . .	Lowell st. . . .	Public.	30	434	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....
Villa ave. . . .	Winslow ave. . . .	Arlington Br. R. R. . . .	Private.	35	....	200
Village	Dane st. . . .	Vine st. . . .	Private.	25	....	370
Vinal ave. . . .	Summer st. . . .	Highland ave. . . .	Public.	45	1,425	....
Vinal	Richardson st. . . .	Northeasterly	Private.	20	....	200
Vine ct. . . .	Vine st. . . .	Northwesterly	Private.	25	....	140
Vine	Somerville ave. . . .	Fitchburg R. R. . . .	Public.	40	540	....
Vine	Fitchburg R. R. . . .	Hanson st. . . .	Private.	40	....	222
Vine	Hanson st. . . .	Beacon st. . . .	Public.	30	662	....
Virginia	Aldrich st. . . .	Jasper st. . . .	Public.	40	405	....
Wade ct. . . .	Cedar st. . . .	Westerly	Private.	20	....	180
Waldo ave. . . .	Beacon st. . . .	Dimick st. . . .	Public.	40	277	....
Waldo	Highland ave. . . .	Hudson st. . . .	Public.	40	287	....
Walker	Broadway	Leonard st. . . .	Public.	40	718	....
Wallace	Holland st. . . .	Broadway	Public.	40	1,342	....
Walnut	Bow st. . . .	Broadway	Public.	40	3,948	....
Walnut road	Walnut st. . . .	Kenneson road	Public.	40	270	....
Walter pl. . . .	Walter st. . . .	Southwesterly	Private.	40	....	222
Walter	Walnut st. . . .	{ about 100 ft. N. } { of Bradley st. }	Public.	40	548	....
Ward	Medford st. . . .	Harding st. . . .	Public.	30	433	....
Ware	Curtis st. . . .	Russell rd. . . .	Public.	40	749	....
Warner	Powder House sq. . . .	Medford line	Public.	60	500	....
Warren ave. . . .	Union sq. . . .	Columbus ave. . . .	Public.	40	663	....
Warren	Medford st. . . .	Cambridge line	Public.	30 to 40	109	....
Warwick place	Warwick st. . . .	Northeasterly	Private.	15	....	150
Warwick	Cedar st. . . .	Warwick pl. . . .	Public.	40	665	....
Washington ave. . . .	Washington st. . . .	Northerly	Private.	18	....	350

* Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

STREET.	FROM.	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Washington pl.	Washington st.	Southerly . . .	Private.	about 7.5	....	114
Washington . . .	Charlest'n line .	Franklin ave. . .	Public.	75	1,060	....
Washington . . .	Franklin ave. . .	Fitchburg R. R. .	Public.	60 to 100	3,977	....
Washington . . .	Fitchburg R. R.	Cambridge line .	Public.	60	2,344	....
Water	South st.	Northerly	Public.	25	366	....
Waterhouse . . .	Broadway	Cambridge line .	Public.	40	987	....
Watson	Broadway	Fairmount ave. .	Private.	40	....	236
Waverly	Washington st. .	Roland st.	Private.	35	....	200
Webster ave. . .	Union sq.	Cambridge line .	Public.	49.5	1,955	....
Webster	Franklin st. . . .	Cross st.	Public.	40	1,034	....
Wellington ave. .	Walnut st.	Montgomery ave. .	Public.	40	215	....
Wellington ave. .	Montgomery ave. .	Easterly	Private.	40	....	85
Wesley pk. . . .	Wesley sq.	Northeasterly . .	Public.	40	405	....
Wesley	Pearl st.	Otis st.	Public.	40	515	....
West	Hawthorne st. . .	Highland ave. . .	Public.	30	192	....
West	Highland ave. . .	Arlington Br.R.R.	Private.	30	....	266
West Adams . . .	Conwell ave. . . .	Medford line . . .	Public.	40	710	....
Westminster . . .	Broadway	Electric ave. . . .	Public.	40	376	....
Weston ave. . . .	Clarendon ave. . .	Broadway	Private.	40	....	525
West Quincy . . .	Bailey st.	Medford line . . .	Private.	40	....	291
Westwood road . .	Central st.	Benton road	Public.	40	489	....
Wheatland	Broadway	Mystic ave.	Public.	40	1,364	....
Wheeler	Pinckney st. . . .	Mt. Vernon st. . .	Public.	40	269	....
Whipple	Highland ave. . .	Arlington Br. R. R.	Private.	30	....	318
† White	Elm st.	Cambridge line . .	Public.	..	307	....
White St. pl. . . .	White st.	Southeasterly . . .	Private.	20	....	200
Whitfield road . .	Packard ave. . . .	Curtis st.	Public.	40	687	....
Whitman	Mason st.	Packard ave. . . .	Private.	40	....	632
Wigglesworth . . .	Bonair st.	Pearl st.	Public.	40	744	....
William	Chandler st.	College ave.	Public.	40	381	....
William	Broadway	Medford line . . .	Private.	50	....	50
Williams ct. . . .	Porter st.	Northwesterly . .	Private.	30	....	154
Willoughby	Central st.	Sycamore st.	Public.	40	427	....
Willow ave.	Elm st.	Broadway	Public.	50	3,534	....
Willow pl.	Cambridge line . .	South st.	Private.	25	....	150
Wilson ave.	Broadway	B. & L. R. R. . . .	Public.	20	307	....
Wilton	Lowell st.	Hinckley st.	Public.	35	470	....
Winchester	Broadway	Medford line . . .	Private.	40	....	65
Windom	Elm st.	Summer st.	Public.	40	300	....
Windsor road . . .	Willow ave.	Hancock st.	Public.	40	575	....
Windsor st.(Extn.)	Windsor st.,Camb.	Fitchburg R. R. .	Private.	20	....	530
Winslow ave. . . .	College ave.	Clifton st.	Public.	40	1,123	....
Winter	College ave.	Holland st.	Public.	30	402	....
Winter Hill cir. .	Broadway	Northeasterly . . .	Private.	25	....	177
Winthrop ave. . .						
(Extension.) . . .	Mystic ave.	Middlesex ave. . .	Private.	40	....	583
Wisconsin ave. . .	Broadway	Pennsylvania ave. .	Public.	50	499	....
Woodbine	Centre st.	Lowell st.	Private.	30	....	600
* Woods ave. . . .	North st.	Powder House Blvd.	Private.	40	....	1,135
Woodstock	Victoria st.	Alewife brook . . .	Public.	40 to 32	403	....
* Woodstock . . .						
(Extension.) . . .	Victoria st.	Tannery st.(Ext'n.)	Private.	40	....	920
Wyatt circle . . .	Wyatt st.around to	Wyatt st.	Private.	20	....	315
Wyatt	Concord ave. . . .	Lincoln parkway . .	Public.	40	496	....
Yorktown	Cambridge line . .	{ N. E. line Mal- vern ave. }	Public.	40	294	....
Yorktown	{ N. E. line Malvern ave. }	Northerly	Private.	40	....	100

* Proposed.

† Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street.	From	To	Public or Private.	Width in Feet.	Length.	
					Public.	Private.
Court	39 Adams st. . .	Southeasterly . .	Private.	8	....	90
Court	Albion st. . . .	Central st. . . .	Private.	12	....	216
Court	11 Albion st. . .	Northeasterly . .	Private.	9	....	178
Court	21 Albion st. . .	Northeasterly . .	Private.	10	...	100
Court	292 Broadway . .	Southwesterly . .	Private.	15	....	90
Court	612 Broadway . .	Southwesterly . .	Private.	20	....	188
Court	Buena Vista rd.	Easterly	Private.	15	....	145
Court	12 Carlton st. .	Southeasterly . .	Private.	25	....	75
Court	112 Central st. .	Northwesterly . .	Private.	10	....	168
Court	113 Central st. .	Southeasterly . .	Private.	20	....	150
Court	227 Columbia st.	Northwesterly . .	Private.	10	....	117
Court	Conlon ct. . . .	Windsor st. (Ext'n)	Private.	20	....	240
Court	36 Craigie st. . .	Westerly	Private.	25	....	128
Court	58 Dane st. . . .	Easterly	Private.	10	....	70
Court	20 Dimick st. . .	Southwesterly . .	Private.	39.25	....	136
Court	91 Franklin st. .	Westerly	Private.	12	....	171
Court	66 Lowell st. . .	Westerly	Private.	25	....	101
Court	78 Lowell st. . .	Westerly	Private.	25	....	101
Court	101 Medford st.	Easterly	Private.	8	....	75
Court	Sacramento st. .	Southeasterly . .	Private.	25	....	318
Court	10 Stone ave. . .	Northwesterly . .	Private.	20	....	113
Court	Windsor st. (Ext'n)	East'ly and West'ly	Private.	20	....	370
Total					430,822	197,217

Public, 81.595 miles [includes 1.897 miles of City Boulevard and Park Roadways, 1.397 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private, 18.411 miles.

Total length of streets in the city, 100.006 miles.

REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER, }
CITY HALL, SOMERVILLE, January 1, 1916. }

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

Gentlemen,—I most respectfully submit the fortieth annual report, containing a brief summary of the principal work performed by the highway department, by day labor and contract during the year 1915, 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; and the collection and disposal of ashes, garbage and refuse.

The streets in our city compare favorably with those of any other city in the Commonwealth, they are a most valuable asset; the same can be said of sidewalks, which are of vital importance to pedestrians, and must not be neglected, as pedestrians have as much right to demand good walks, as the owners of automobiles and carriages have to demand good roads.

To improve our streets in order to adapt them to all kinds of traffic is a perplexing question. There is a demand for smooth streets, although they are more or less slippery for horses unless care is exercised in driving. Numerous complaints have been received from horse owners because of the slippery condition of many of the streets, but it is hard to satisfy the horse driver and the automobile driver. However, this question is one to which we are giving considerable thought, hoping to perfect methods of street construction satisfactory to all.

The offices at the City Hall have been remodeled, and the department now has clerks for its work exclusively, a great improvement over the old method of consolidation.

A combination blacksmith, horseshoeing, carpenter and paint shop has been erected at the city yard, thereby increasing the efficiency of the repair department.

Snow and Ice.

It is the duty of the department to remove the snow and ice from all sidewalks in front of public grounds and buildings, and sand the same when they become slippery, also to care for the bridges made necessary by the abolition of the grade crossings. There should be a separate appropria-

tion for ice and snow. I wish I could have the money that is expended for ice and snow to use in re-surfacing the streets.

\$5,019.49 was expended for the care of ice and snow.

545 loads of snow and ice were removed.

Underground Wires.

Permits were issued to the New England Telephone and Telegraph Company to enlarge their conduits on Broadway, between Willow avenue and Rogers avenue, to the Edison Illuminating Company and the Boston Elevated Railway Company to construct conduits in Davis square and vicinity, and remove many large poles and wires, making a great improvement in the appearance of the square. 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.

Crushed Stone.

The William J. McCarthy Company furnished 9,649 tons of stone at \$1.20 per ton and Coleman Brothers 4,422 tons of trap rock at \$1.44 per ton, all delivered on the line of work.

The city crusher was in operation a few days, crushing 783½ tons of stone.

Bridges.

The bridges are in good condition. It is my intention the coming spring to paint all fences to and on the bridges under my jurisdiction. The approaches to the Willow bridge, Medford street and Prospect street bridges were constructed by the city, the Boston and Maine R. R. paying a portion of the expense.

Steam Rollers.

The department has one five-ton roller, one twelve-ton and two fifteen-ton rollers.

No. 1 worked 134½ days.

No. 2 worked 158 days.

No. 3 worked 49 days.

No. 4 worked 174 days.

The old twelve-ton roller that has been in service for over eighteen years should be replaced by a new fifteen-ton roller with scarifier attachment.

HIGHWAYS MAINTENANCE.

Appropriations and Expenditures.

Appropriation	\$28,000 00
Transfer from damages to persons and property	266 00
Transfer from pensions	414 98
Transfer from election expenses	375 00
	<hr/>
Amount carried forward	\$29,055 98

Amount brought forward		\$29,055 98
Commissioner's salary	\$2,400 00	
Clerks	1,327 73	
Telephones	222 95	
Office expenses	374 51	
Equipment and stable expenses	1,282 69	
Repair of streets	3,254 01	
Repair of street crossings	115 33	
Repair of gutters	161 63	
Repair of permanent paving	1,641 62	
Repair of bridges	30 85	
Repair of parkways	24 28	
Care of subways	585 29	
Care of snow and ice	5,019 49	
Street signs	581 17	
Ledges and crusher	90 84	
Repair of special streets	783 71	
Care of highway property	795 37	
Emergency calls	56 55	
Care of Commissioner's automobile	351 82	
Sawing wood	130 38	
Holidays and vacations	4,254 09	
Bills receivable	2,855 56	
Sand, crushed stone and cinders	458 34	
Lumber	52 34	
Edgestone, bricks, cement and lamp-black	266 27	
Kerosene and tarvia	159 28	
Coal	612 85	
Miscellaneous	345 39	
Balance to excess and deficiency	140 66	
	<u>\$28,375 00</u>	
Damages to persons and property	266 00	
Pensions	414 98	
	<u>\$29,055 98</u>	<u>\$29,055 98</u>

SIDEWALKS MAINTENANCE.

The department should have more money for this kind of work, which includes resetting edgestones, relaying brick, repairing granolithic, the care of police reports pertaining to sidewalks and the care of gravel and dirt sidewalks.

Where sidewalks are to be relaid granolithic should be substituted for brick.

985 feet of edgestones were reset.

953 square yards of brick sidewalk were relaid.

Appropriations and Expenditures.

Appropriation		\$4,000 00
Transfer to Street Cleaning		180 00
Labor	\$2,658 43	
Teams	683 43	
Stone, brick and cement	464 70	
Balance to Excess and Deficiency	13 44	
	<u>\$3,820 00</u>	<u>\$3,820 00</u>

STREET SPRINKLING.

All macadam streets were oiled or tarviated. We received very few complaints this year in regard to dusty streets. The principal squares were watered early mornings; this work was greatly appreciated by the storekeepers. A storage tank for road oil is needed at the city yard, thus saving demurrage on cars during bad weather.

The assessment to each abutter for street sprinkling was five cents per linear foot.

I have used granulated calcium chloride (a salt preparation) dissolved in water, to keep down the dust in freezing weather in the squares and on main streets, with satisfactory results.

This year the department used:—

30,479	gallons of Standard Socony.
6,505	gallons of Alden Speare's Special.
8,213	gallons of Alden Speare's No. 5.
23,392	gallons of Alden Speare's No. 1 Tasscoil.
3,049	gallons of Headley's No. 1.
13,500	gallons of Headley's No. 7.
15,945	gallons of Headley's No. 20.
8,145	gallons of No. 1 Emerald Oil.
8,145	gallons of No. 2 Emerald Oil.
19,800	gallons of Water Gas Tar.
8,138	gallons of No. 2 Sawyerline.
8,063	gallons of No. 3 Sawyerline.
15,869	gallons of No. 4 Sawyerline.
18,136	gallons of Besco Oil.
6,500	gallons of No. 2 Currola Oil.
47,486	gallons of Oilite.
8,039	gallons of No. 1 Empire Oil.
71,716	gallons of Barrett's Tarvia B.
34,500	pounds of Calcium Chloride.

Appropriations and Expenditures.

Appropriation		\$35,000 00
Transfer to Refuse Disposal		320 00
Labor	\$5,410 53	
Teams	3,370 00	
Equipment and repairs	1,001 61	
Oil and other dust layers	20,412 96	
Contracts water carts	2,806 58	
Maintenance water posts	374 99	
Gravel	975 86	
City of Medford, oiling Boston avenue	56 94	
Steam rollers	77 00	
Balance to Excess and Deficiency	193 53	
	<hr/>	
	\$34,680 00	\$34,680 00
	<hr/>	<hr/>

SANITARY DIVISION.

The city government should look forward, and make recommendations as to the disposal of ashes and rubbish on account of the scarcity of dumps.

If the residents would use a little more care when filling refuse barrels, to be collected by the city, there would be less rubbish blowing in the streets.

Men and teams of the street division have been transferred, to good advantage when occasion required, to the sanitary division.

The expenditure in this division is increasing on account of the rapid growth in population and the long haul to the dumps.

The garbage is teamed to the city yard and sold to the farmers at \$0.50 per cord foot, and the combustible material carried to the incinerator, where it is sorted by a contractor, who pays the city \$115.00 per month. For these two items the city received \$11,569.05 in 1915.

Summary of collections:—

87,260 cubic yards of refuse.
 1,000 cubic yards of rubbish.
 32,300 cubic yards of paper.
 2,338 cords of garbage.
 149 requests and reports attended to.

Appropriations and Expenditures.

Appropriation		\$92,000 00
Transfers from various other accounts		7,910 00
Salary of Superintendent	\$1,400 00	
Printing and stationery	64 35	
Telephone	23 57	
Labor	66,598 46	
Teams	22,612 03	
Equipment	415 07	
Rent of dump	600 00	
Hay, grain and straw	7,543 33	
Shoeing supplies	310 88	
Equipment	274 40	
All other	66 28	
Balance to Excess and Deficiency	1 63	
	<hr/>	<hr/>
	\$99,910 00	\$99,910 00
	<hr/>	<hr/>

STREET CLEANING.

A cleaning patrol system has been inaugurated for the purpose of cleaning the squares at night. This patrol also answers any calls received from the police, reporting dangerous conditions in the streets and on the sidewalks. A pick-up sweeping machine will be used nights during the coming year to care for the squares.

There is a city ordinance in regard to dropping or throwing rubbish in the streets and it should be enforced to the full extent of the law.

I recommend clean-up weeks in the spring and fall.
10,277 loads of street scrapings were removed, dumping places being very scarce.

Appropriations and Expenditures.

Appropriation		\$23,000 00
Transfer from Care of Trees		100 00
Transfer from Sidewalks Maintenance		180 00
Labor	\$19,316 73	
Teams	3,296 07	
Equipment	575 93	
All other	68 93	
Balance to Excess and Deficiency	22 34	
	<u>\$23,280 00</u>	<u>\$23,280 00</u>

SUPPRESSION OF MOTHS.

This city has never been reimbursed by the state for moth extermination, and the work has always been satisfactory to their inspectors. We never had any infestation. All the trees on the streets and on private property were cared for and inspected. Work done on private property was assessed to each property owner and I recommend that these assessments be levied in the general tax. The leopard moth or borer is killing many of our shade trees.

7,361 street trees were inspected and cared for.

18,192 private trees were inspected and cared for.

135,690 brown-tail nests were gathered and destroyed.

41,600 gypsy nests were painted with creosote.

7,572 trees were sprayed by the gasoline spraying machine to exterminate the elm-leaf beetle.

Appropriations and Expenditures.

Appropriation		\$5,700 00
Labor	\$5,161 31	
Printing, stationery and postage	10 50	
Teams, etc.	196 00	
Hardware, tools and equipment	97 87	
Insecticides	230 45	
Balance to Excess and Deficiency	3 87	
	<u>\$5,700 00</u>	<u>\$5,700 00</u>

SHADE TREES.

Although trees beautify a street they are a nuisance in the city sidewalks, as the roots cause the upheaving of the granolithic and bricks. In my estimation all trees should be set out on private property back of the city line.

135 trees were set out.

94 trees cut down.

269 trees trimmed by request.

Appropriations and Expenditures.

Appropriation		\$3,500 00
Transfer to Street Cleaning		100 00
Labor	\$2,554 49	
Teams	589 33	
Printing, stationery and postage	10 00	
Equipment, hardware and tools	6 36	
Lumber, cement and other supplies	133 60	
Rollers	64 75	
Balance to Excess and Deficiency	41 47	
	<u>\$3,400 00</u>	<u>\$3,400 00</u>

HIGHWAYS CONSTRUCTION, NEW STREETS.

Balance from 1914		\$1 75
Appropriation		23,540 00
Appropriation		21,000 00
Transfer from Macadam Pavement		2,800 00
Labor	\$10,993 96	
City teams	861 31	
City equipment (rollers, mixers, etc.)	738 50	
Recording documents	14 25	
Advertising	76 00	
Materials and supplies	34,575 96	
Balance to '1916 account	81 77	
	<u>\$47,341 75</u>	<u>\$47,341 75</u>

STREETS CONSTRUCTED IN 1915.

STREET.	FROM	TO	MATERIAL.	LENGTH IN FEET.	COST.
Aberdeen road	Highland avenue	Cedar street	Macadam and tarvia	449	\$2,340 42
Belknap street	Broadway	Hamilton road	Macadam and tarvia	449	2,587 22
Belmont place	Belmont street	Southeasterly	Macadam and tarvia	177	740 97
Bristol road	Broadway	Medford line	Macadam and tarvia	146	745 87
Chester avenue	Angle	Cross street	Macadam and tarvia	451	1,187 45
Clyde street	Cedar street	Murdock street	Macadam and tarvia	664	3,285 59
Crescent street	Hadley street	Pearl street	Macadam and tarvia	174	254 73
Derby street	Grant street	Wheatland street	Macadam and tarvia	200	1,036 53
Flint avenue	Flint street	Northerly	Macadam and tarvia	202	891 77
Garfield avenue	Broadway	Blakeley avenue	Macadam and tarvia	447	2,075 11
Meacham street	Mt. Vernon avenue	Medford line	Macadam and tarvia	777	4,659 27
Pearl Street place	Pearl street	Northeasterly	Macadam and tarvia	166	799 19
Pearson road	Warner street	Dearborn road	Macadam and tarvia	1,090	4,751 97
Pennsylvania avenue	Rhode Island avenue	Broadway	Macadam and tarvia	1,112	7,066 00
Sartwell avenue	Cedar street	Cherry street	Macadam and tarvia	427	1,984 16
Simpson avenue	Holland street	Broadway	Macadam and tarvia	1,018	4,282 58
Teele avenue	Packard avenue	Curtis street	Macadam and asphalt	685	3,844 75
Vine street	Somerville avenue	Fitchburg R. R.	Macadam and tarvia	540	2,400 96
Wilson avenue	Broadway	Railroad	Macadam and tarvia	307	1,334 54
		Length in feet, and cost		9,481	\$46,269 08

The average cost of constructing new streets 40 feet wide was, by city labor \$5.48, contract \$4.72, per linear foot. These prices include edgestones, gutters and tarvia macadam.

STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1915, UNDER THE BETTERMENT ACT.

NAME OF STREET.	WARD.	FROM	TO	WIDTH IN FEET.	LENGTH IN FEET.	DATE OF ACCEPTANCE.
Albion terrace	5	Albion street	Southwesterly	25	100	March 26
Auburn avenue	4	Gross street	Northwesterly	30	606	March 26
Barton street	7	Broadway	Hamilton road	40	382	December 31
Curtis avenue	7	Curtis street	Hillsdale road	40	654	December 31
Indiana avenue	1	Broadway	Pennsylvania avenue	40	384	December 31
Leonard street	7	Broadway	Powder House boulevard	40	450	December 31
Pennsylvania avenue	1	Broadway	Wisconsin avenue	50	1,112	February 26
Simpson avenue	7	Holland street	Broadway	40	1,018	March 26
Waldo avenue	2	Beacon street	Dimick street	40	277	December 31
Ware street	7	Curtis street	Russell road	40	749	April 25
West Adams street	7	Conwell avenue	Medford line	40	710	December 31
Whitfield road	7	Packard avenue	Curtis street	40	687	December 31
					7,129	
			(1.350 miles)			

HIGHWAYS CONSTRUCTION, MACADAM PAVEMENT.

Balance from 1914		\$355 54
Appropriation		30,000 00
Receipts		635 75
B. & M. R. R. account bridge approaches		1,600 00
		<hr/>
		\$32,591 29
Less transfers to New Streets		2,800 00
Labor	\$9,098 25	
City teams	769 00	
City equipment (rollers, etc.)	1,425 50	
Land damages	350 00	
Materials and supplies	17,041 17	
Balance to 1916	1,107 37	
		<hr/>
	\$29,791 29	\$29,791 29
	<hr/>	<hr/>

STREETS MACADAMIZED IN 1915.

STREET.	FROM	To	MATERIAL.	FEET.	COST.
Albion street . . .	Central street . . .	Centre street . . .	Macadam and tarvia . . .	625	\$1,252.89
Broadway . . .	School street . . .	Magoun square . . .	Macadam and tarvia . . .	3,007	13,625.99
Bridge approaches . . .	Broadway at B. & L. R. Railroad . . .	Magoun square . . .	Macadam and tarvia . . .	358	
" . . .	Medford street at B. & L. Railroad . . .	L. Railroad . . .	Macadam and tarvia . . .	160	
" . . .	Prospect street at Fitchburg Railroad . . .	Fitchburg Railroad . . .	Macadam and tarvia . . .	280	2,534.49
Brook street . . .	Glen street . . .	Cross street . . .	Macadam and tarvia . . .	504	1,205.65
Buckingham street . . .	Beacon street . . .	Dimick street . . .	Macadam and tarvia . . .	292	726.79
Cedar street . . .	Highland avenue . . .	Summer street . . .	Macadam and tarvia . . .	655	1,437.60
Charles street . . .	Washington street . . .	Southerly . . .	Macadam and tarvia . . .	166	307.22
Francesca avenue . . .	College avenue . . .	Liberty avenue . . .	Macadam and tarvia . . .	762	1,465.59
Jaques street . . .	Grant street . . .	Wheatland street . . .	Macadam and tarvia . . .	200	494.16
Lowell street . . .	Highland avenue . . .	Crown street . . .	Macadam and tarvia . . .	600	1,410.71
Prescott street . . .	Summer street . . .	Highland avenue . . .	Macadam and tarvia . . .	1,110	3,011.88
Walter street . . .	Walnut street . . .	100 ft. N. of Bradley st. . .	Macadam and tarvia . . .	548	860.97
	Length in feet, and cost . . .			9,207	\$28,333.94

HIGHWAYS CONSTRUCTION, PERMANENT PAVEMENT.

Balance from 1914		\$297 64
Appropriation		28,500 00
Receipts		978 96
Charlestown Gas Co. (street repairs)		1,500 00
Labor	\$1,543 24	
City teams	142 12	
City equipment (rollers, etc.)	93 50	
Materials and supplies and contract pay- ments	26,805 32	
Balance to 1916	2,692 42	
	<u>\$31,276 60</u>	<u>\$31,276 60</u>

HIGHWAYS CONSTRUCTION, PERMANENT PAVEMENT.

STREET.	FROM	TO	MATERIAL.	FREET.	COST.
Broadway . . .	Powder House square	Teele square . . .	Concrete base, bituminous top	2,678	\$5,664.34
Curtis street (gutters)	Professors row . . .	Sunset road . . .	Concrete base, bituminous top	321	155.60
Horace street . . .	South street . . .	Ward street . . .	Concrete base, vitrified brick top	226.7	1,839.45
North street (gutters) .	Powder House boulevard	Woods avenue . . .	Concrete base, bituminous top	1,458	.....
North street (gutters) .	Powder House boulevard	Conwell avenue . . .	Concrete base, bituminous top	385	1,010.02
Middlesex avenue . . .	(State highway) . . .	.....	Concrete base, bituminous top	2,304	928.80
Walnut street . . .	Pearl street . . .	Bonair street . . .	Concrete base, bituminous top	750	4,284.66
Willow avenue . . .	Morrison avenue . . .	Broadway . . .	Concrete base, bituminous top	1,545	8,893.94
Washington street . . .	Beacon street . . .	Dane street . . .	Concrete base, bituminous top	647	4,451.16
Yorktown st. (gutters)	Cambridge line . . .	Malvern avenue . . .	Concrete base, bituminous top	531	333.96
	Length in feet, and cost			10,845.7	\$27,561.93

The average cost for tarvia macadam and concrete base for 1915 was, by city labor \$5.48, contract \$4.72, per square yard.

SIDEWALKS CONSTRUCTION.

Nearly all the sidewalks constructed were of granolithic. Two gasoline concrete mixing machines were purchased this year, thus reducing the cost of this kind of work. I most respectfully recommend that the uncompleted sidewalks on the main streets be constructed with granolithic.

Appropriations and Expenditures.

Balance from 1914		\$89 03
Appropriation		18,000 00
Appropriation		17,500 00
Labor	\$9,219 81	
City teams	749 92	
City equipment	314 00	
Abatement of assessment	6 81	
Materials and supplies	24,797 95	
Balance to 1916	500 54	
	<hr/>	<hr/>
	\$35,589 03	\$35,589 03
	<hr/>	<hr/>

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS WERE FURNISHED BY THE CITY AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Albion street . . .	Northeasterly . . .	Centre street . . .	Lowell street . . .	....	....	470.1	\$618.89
Aldrich street . . .	Both . . .	Gilman street . . .	Dead end . . .	....	....	169.	261.44
Alston street . . .	Both . . .	Cross street . . .	Shawmut street . . .	....	....	932.3	1,249.84
Beacon street and Concord avenue . . .	Easterly . . .	No. 33 . . .	Concord avenue . . .	....	....	....	....
Beacon street . . .	Northerly . . .	Beacon street . . .	Easterly 63' . . .	....	....	163.5	264.32
Belmont place . . .	Northerly . . .	Washington street . . .	Northerly . . .	....	....	46.	59.80
Broadway . . .	Both . . .	Belmont street . . .	End . . .	....	....	171.8	249.59
Broadway . . .	Northerly . . .	Austin street . . .	Charlestown line . . .	....	....	815.1	1,545.08
Broadway . . .	Southerly . . .	Irving street . . .	Easterly . . .	....	....	65.6	85.28
Broadway . . .	Northerly . . .	Mason street . . .	Packard avenue . . .	....	....	746.9	1,006.20
Broadway . . .	Southerly . . .	No. 1016 . . .	No. 1022 . . .	....	....	92.2	148.89
Broadway . . .	Northeasterly . . .	At . . .	Star Theatre . . .	....	....	76.1	98.93
Cameron avenue . . .	Westerly . . .	Holland street . . .	Seven Pines avenue . . .	....	....	549.7	898.46
Cedar street . . .	Westerly . . .	Hall street . . .	Southerly . . .	....	....	90.7	126.90
Central street . . .	Westerly . . .	Albion street . . .	Highland avenue . . .	....	98.9	....	141.57
Columbia street . . .	Both . . .	Webster avenue . . .	Cambridge line . . .	....	....	....	1,456.10
Curtis street . . .	Westerly . . .	Broadway . . .	Sunset road . . .	....	....	976.5	1,591.65
Eastman road . . .	Easterly . . .	Highland avenue . . .	(where not laid) . . .	320.7	....	976.7	289.08
Electric avenue . . .	Both . . .	Packard avenue . . .	End . . .	....	....	199.9	....
Fenwick street . . .	Both . . .	Jaques street . . .	Curtis street . . .	....	....	724.5	995.11
Francis street and Conwell street . . .	Southerly . . .	Porter street . . .	(where not laid) . . .	....	....	368.7	486.87
	Easterly . . .	Francis street . . .	Heath street . . .	....	....	....	....
			Conwell street . . .	....	....	130.9	208.77
			End . . .	....	....	....	....
			Carried forward . . .	320.7	98.9	7,766.2	\$11,782.77

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS WERE FURNISHED BY THE CITY AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.—Continued.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Gilman street	Northerly	Walnut street	Brought forward	320.7	98.9	7,766.2	\$11,782.77
Glen street	Southeasterly	No. 152	Jasper street . . . . .	....	....	153.9	204.49
Grant street	Easterly	Jaques street	No. 154 . . . . .	....	....	27.	47.13
Highland avenue	Southerly	Trull lane	Mystic avenue . . . . .	....	....	537.6	682.75
Hill street	Both	Broadway	B. F. Wild's estate . . . . .	....	94.5	....	137.70
Irving street	Easterly	Broadway	Fairmount avenue . . . . .	....	....	387.	505.69
Kidder avenue	Northwesterly	No. 45	Southerly . . . . .	....	....	68.2	57.47
Langmaid avenue and Heath street	Southwesterly	Broadway	Liberty avenue . . . . .	....	....	....	86.72
Lexington avenue	Southerly	Temple street	Heath street . . . . .	....	....	....	....
Lowell street	Westerly	Hancock street	Fisk estate . . . . .	....	....	405.9	550.74
Main street	Westerly	Albion street	Willow avenue . . . . .	....	....	963.2	1,303.27
Meacham road	Northerly	No. 45	Northerly . . . . .	....	....	153.6	203.52
Medford street	Westerly	Dover street	No. 51 . . . . .	....	....	87.9	137.98
Morrison avenue	Northerly	Warren street	Westerly end of R. R. Station . . . . .	....	....	83.2	131.06
Myrtle street	Northerly	Highland road	South street (where not laid) . . . . .	....	63.4	....	77.86
North street	Easterly	No. 54	Pearson avenue . . . . .	....	....	157.8	246.92
Packard avenue	Westerly	Boulevard	Conwell avenue	384.9	....	62.8	98.48
Poplar street	Both	Broadway	Woods avenue	1,457.4	....	262.3	794.49
Porter street	Both	No. 3	Boulevard . . . . .	....	....	....	2,801.85
		Summer street	No. 5 . . . . .	....	....	1,515.4	1,809.89
			Elm street . . . . .	....	....	41.7	57.48
			Carried forward	2,163.0	256.8	15,405.7	\$24,159.46

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS WERE FURNISHED BY THE CITY AND ONE-HALF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.—Concluded.

STREET.	SIDE.	FROM	TO	FEET OF EDGESTONE.	YARDS OF BRICK.	YARDS OF GRANOLITHIC.	COST.
Powder House boulev'd	Several portions .	Powder House square	Brought forward .	2,163.0	256.8	15,405.7	\$24,159.46
Shawmut street .	Southwesterly .	Central square .	West of North street .	....	....	3,708.	5,462.25
Summer street .	Northeasterly .	Cherry street .	Washington street .	....	....	240.	322.73
Summer street .	Southwesterly .	Willow avenue .	Hancock street .	....	....	163.1	260.43
Teele avenue .	Northeasterly .	Packard avenue .	Cutter square .	....	....	583.	781.83
Thorpe street .	Both .	Highland avenue .	Curtis street .	....	....	404.5	610.32
Washington street .	Beacon street .	Dane street .	End .	....	....	445.8	635.59
West street .	Southwesterly .	Highland avenue .	.....	....	....	499.4	672.51
William street .	Northeasterly .	College avenue .	Hawthorne street .	....	....	94.	129.16
Willow avenue .	Southwesterly .	Highland avenue .	Chandler street .	....	....	229.6	312.38
Windom street .	Northwesterly .	Summer street .	Lexington avenue .	....	....	219.8	323.56
Yorktown street .	Both .	Cambridge line .	Elm street .	....	....	196.8	270.72
Yorktown street .	Extension .	No. 107 .	Malvern avenue .	531.1	....	304.	1,140.01
			.....	....	....		12.21
			Total .	2,694.1	256.8	22,613.7	\$35,093.16

The average cost per square yard for granolithic sidewalks in 1915 was by city labor \$1.45, contract \$1.40.

The average cost per square yard for brick sidewalks in 1915 was by city labor \$1.39.

The large amount of extra work encountered on Powder House Boulevard, west of North street (contract), and on Broadway Charlestown line to Austin street (city labor), materially increased the general average cost of granolithic sidewalks.

Edgestones were delivered on the line of work in 1915, straight stones \$0.55, circles \$0.73 per linear foot.

MISCELLANEOUS.

Bids for materials were opened publicly in the office of the Mayor, and the contracts were awarded to the lowest bidders, preference being given to Somerville citizens and taxpayers. The department does its own painting, carpentering, blacksmithing, horseshoeing, harness-making and repairing at the city stables, maintaining shops for these different lines of work.

Horses have been purchased or disposed of as follows:—

	Purchased.	Killed.	Died.
Street Division	4	3	1
Sanitary Division	0	0	0

I have attended meetings of the committee on public works, and board of public works, for consultation regarding work and petitions.

The employees had two weeks' vacation and five months Saturday half-holidays without loss of pay. The city has accepted the acts of legislature providing for the Pensioning of Laborers, and the Compensation of Injured Laborers.

There were during 1915:—

- 244 permits to the Cambridge and Charlestown Gas Co.'s.
- 306 permits to occupy streets and sidewalks.
- 71 permits to cross sidewalks.
- 15 permits to feed horses.
- 29 street watering complaints and requests.
- 526 notifications to other departments and corporations.
- 118 requests to repair gravel sidewalks.
- 31 accidents reported.
- 974 police reports.
- 411 streets oiled.
- 220 brick and granolithic sidewalks repaired.
- 393 miscellaneous reports and requests.
- 32 requests to care for moths.
- 440 poles and guards for trees.
- 152 drain layers' permits.
- 842 water department openings.
- 545 loads of ice and snow.
- 116 permits to open streets and sidewalks.
- 36 new signs erected.
- 23 danger signs.
- 55 signs re-painted.
- 2,717 cubic yards sand and gravel used.
- 14,871 cubic yards dirt removed or handled.
- 10,277 cubic yards scrapings removed from streets.
- 2,175 cubic yards old macadam used.
- 3,732 cubic yards ashes used.
- 10,690 bags of Portland cement used.

DRIVEWAYS CONSTRUCTED AT EXPENSE OF ABUTTERS.

FOR	LOCATION.
Jacob Attamain . . . . .	. . . . . 277 Beacon street
F. C. Babcock . . . . .	. . . . . 36 Curtis street
Joseph W. Bolton . . . . .	. . . . . 117 Hudson street
Boston & Maine R. R. . . . .	. . . . . Meacham road
Walter Burton . . . . .	. . . . . 82 Oxford street
Leonard B. Chandler . . . . .	. . . . . Langmaid avenue
Community Trust Co. . . . .	. . . . . Beacon street
Wm. J. G. Conohan	60 Mt. Vernon street
J. Warren Drake . . . . .	. . . . . 66 Hall avenue
Elizabeth L. Dow	32 Burnside avenue
Walter H. Eddy . . . . .	. . . . . 16 Heath street
Carl Erlandson . . . . .	. . . . . 27 Crocker street
Edgar W. Evans . . . . .	. . . . . 37 Claremon street
Albert W. Fales	16 Monmouth street
Fred W. Farrar . . . . .	. . . . . 89 School street
Luigio Ferretti . . . . .	. . . . . 11 Wheatland street
Ernest F. Flagg . . . . .	. . . . . 127 Medford street
Albert O. Fletcher . . . . .	. . . . . 33 Bay State avenue
Annie B. Gannett . . . . .	. . . . . 148 Boston avenue
John Gannon	Cor. Packard avenue and Ossipee rd.
Glines & Co. . . . .	. . . . . 159 Pearl street
Helga L. Graves . . . . .	. . . . . 32 Derby street
G. Gubitosi . . . . .	. . . . . 61 Albion street
Freda M. Gustafson . . . . .	. . . . . 34 Irving street
W. H. Hern	48-50 Morrison avenue
Philen A. Joslyn . . . . .	. . . . . 37 Banks street
Benny Kleyman . . . . .	. . . . . 479 Columbia street
Julia W. LeBaron . . . . .	. . . . . 8 Heath street
Helen M. Lewis	34 Waterhouse street
John Lindquist . . . . .	. . . . . 16 Jaques street
John A. Lord . . . . .	. . . . . 34 Cameron avenue
Birger C. Lyndell . . . . .	. . . . . 783 Broadway
Esther E. Martin	29 Farragut avenue
John A. McLean . . . . .	. . . . . 16 Curtis street
William J. McNulty	30 St. James avenue
Luella F. Morang	23 Powder House terrace
Elbridge W. Newton . . . . .	. . . . . 8 Westwood road
North Packing & Provision Co. . . . .	. . . . . Medford street
Lavinia W. Parks	15 Sycamore street
Mark W. Patten . . . . .	. . . . . 19-21 Rush street
Mary L. Pearce . . . . .	. . . . . 9 Josephine avenue
I. N. Randlett . . . . .	. . . . . 11 Hill street
Arthur Raymond . . . . .	. . . . . 226 Lowell street
Lillian C. Rogers . . . . .	. . . . . 5 Burnside avenue
J. Seroczynski	13 Cameron avenue
George S. Smith . . . . .	. . . . . 779 Broadway
C. R. Stockton . . . . .	. . . . . 22 Kidder avenue
Charles O. Strout . . . . .	. . . . . 17 Flint avenue
Jeremiah Sullivan . . . . .	. . . . . 26 Joy street
Michael Sullivan . . . . .	. . . . . 30 Victoria street
Isabella Walker	80 Winslow avenue
A. B. and Lizzie M. Wedgwood . . . . .	. . . . . 16 Madison street
Benjamin F. Wentworth . . . . .	. . . . . 96 Bartlett street
William W. White	30 Richdale avenue
Liebe D. Wilson . . . . .	. . . . . Frederick avenue
Annie Wolffer . . . . .	. . . . . 72 Cherry street
Bertha M. Yeaton . . . . .	. . . . . 211 Highland avenue

DRIVEWAYS DISCONTINUED AT EXPENSE OF ABUTTERS.

FOR	LOCATION.
Francis W. Corvello . . . .	. . . . .82 Oak street
Somerville Realty Trust Co. . . . .	. . . . . 166 Summer street
David Wanless . . . . .	. . . . . 534 Medford street

DRIVEWAY EXTENDED AT EXPENSE OF ABUTTER.

FOR	LOCATION
S. Armstrong Co. . . . .	. . . . . 474 Somerville avenue

STREETS REPAIRED.

STREET	FROM	TO	DESCRIPTION OF WORK.	FEET	COST
Benton road.	Highland avenue	Summer street	Macadam and tarvia	950	\$467.70
Chester avenue	Angle	Medford street	.....	.....	16.60
North street.	Broadway	Medford line	.....	.....	201.33
School street	Broadway	Maple avenue	.....	.....	57.55
Sewall street.	Temple street	Grant street	.....	.....	7.30
Thurston street	Broadway	Evergreen avenue	.....	.....	33.23
		Cost			\$783.71

RECOMMENDATIONS.

I most respectfully recommend that Somerville avenue, from Oak square to Porter's Station, be paved with granite blocks on a concrete base. That Newton street, Concord square, Linwood street, and the unfinished portions of Broadway, Washington street, Summer street and Medford street be constructed. That some kind of asphalt top be laid on the pavement on Broadway from the Charlestown line to Fellsway, Tufts street and Pearl street from Cross street to School street.

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 THE COMMISSIONER OF PUBLIC BUILDINGS, }
 CITY HALL, SOMERVILLE, January 1, 1916. }

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, 1915.

The total valuation of the public property which is in the custody of the public buildings department is \$2,392,-912.66.

The total expenditure for the year 1915 for the care and maintenance of this property was \$118,777.58.

This amount was expended as follows:—

Janitor service	\$39,329 40
Fuel and light	33,426 86
Care and repairs	46,021 32

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 1,532 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1915:—

Buildings.	WARDS.							Totals.
	1	2	3	4	5	6	7	
Dwellings	15	86	11	15	14	36	131	308
Stores	4	4	1	1	4	6	7	27
Dwellings & Stores	1	3	1			1	2	8
Stables		2					1	3
Shops	1			1	1	1	1	5
Manufactories	1	2				1		4
Garages	10	2	8	7	11	12	46	96
Offices			1		1			2
Storage	6	5	2	2		3	1	19
Theatres and Stores	2							2
Miscellaneous		1			1	1	3	6
Totals	40	105	24	26	32	61	192	480

	WARDS.							Totals.
	1	2	3	4	5	6	7	
Brick buildings	5	2	1		3	7	2	20
Cement buildings	7	1	4	3	7	8	34	64
Concrete buildings	4	1	2	3	6	3	8	27
Iron buildings						1	1	2
Steel buildings		1	2	1			2	6
Stucco building							1	1
Terra Cotta buildings						1	1	2
Stone Block buildings							1	1
Brick and Wood buildings	2					1	2	5
Brick and Concrete buildings							1	1
Brick and Cement buildings				1				1
Steel and Wood buildings		1					1	2
Iron and Wood buildings	2					1		3
Stucco and Wood buildings	1			1		6	3	11
Totals	21	6	9	9	16	28	57	146

	Wood.	Fire Resisting.	Total.
New buildings	258	136	394
Alterations	76	10	86
Totals	334	146	480

The number of plumbing permits issued during the year 1915 was 428
 Permits for plumbing in new buildings 227
 Permits for plumbing in old buildings 201
 Number of buildings in which soil pipes were tested 351

The total number of permits issued during the year 1915, viz., 480, was thirty-four more than during the year 1914, when 446 permits for new buildings and alterations were issued. The total cost of the new buildings and alterations during the year 1915 was \$7,554,236, while the cost in 1914 was \$1,574,067, showing an increase of \$5,980,169.

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 build-

ings, the maintenance of the public bathing beach and the public municipal baths in the Bennett School and Lincoln Park.

These various activities in connection with the department work require a vast amount of time and attention in order to at least 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. Methods of instruction and added activities have made it necessary to provide additional and changed accommodations for the school needs. I have taken care of these wants so far as possible.

The most important need at the present time is the matter of sprinkler systems for and a general fireproofing of the school building basements. This should be done in a systematic and carefully planned manner in order to protect for all times the sections of the buildings used by the children.

Morse School.

It will probably be necessary to install in this building this year a steam heating system. The building is now equipped with an antiquated furnace system which has outlived its usefulness.

Burns School.

The suggestion which has been made regarding the construction of an assembly hall may be very easily realized in this building by the finishing of the large unoccupied attic space. The conditions here are unusually favorable and the expense would be comparatively small.

Cutler School.

The addition to this building was constructed during the year 1915 and has provided accommodations for 300 additional pupils. The added accommodations were taken advantage of at the opening of school in September and are greatly appreciated.

Bennett School.

It became necessary to provide accommodations in this building for assembly purposes and this was accomplished by the removal of a partition between two rooms on the first

floor. The space obtained provides seating accommodations for about two hundred people.

New School in East Somerville.

The construction of the new school building in East Somerville was started about August 18 of last year and at present has progressed to such an extent as to warrant its completion in the spring of this year. This building is located on land adjacent to the Prescott School property on Myrtle and Florence streets, and is to contain nine classrooms which will accommodate 450 pupils.

The equipment will be modern in every respect. The heating will be by the fan system automatically controlled. The sanitary system will include the required number of fixtures and there is to be in the basement a room with shower baths for school and public use. A vacuum cleaning system will be installed for caring for all the rooms and corridors. All the stairways are to be absolutely fireproof and so located as to be protected in case of fire from all other sections of the building. Provision is being made for a system of fire signals which will be always available. The completion of this building will provide the city with its first building so thoroughly equipped.

Fire Department Buildings.

The introduction of motor apparatus has made it necessary to re-arrange conditions at the fire department buildings and this work has been continued.

The most pressing need this year will be the following:—

Ladder 2 —

Construction of concrete floor.
Fireproofing walls and ceiling of apparatus room.
Better accommodations for dormitory.
Improved sanitary accommodations.

Engine 2 —

Improved sanitary accommodations.

Hose 5 —

Improved sanitary accommodations.

Hose 8 —

Fireproofing walls and ceiling of apparatus room.

Engine 4 —

Improved dormitory accommodations.
Improved sanitary accommodations.

These improvements, if made, together with the routine work will put the fire department buildings in good condition.

Municipal Buildings.

The municipal buildings consisting of the City Hall and City Hall Annex are in very good condition generally, but

it will be necessary to remodel the vaults of the city auditor and the city treasurer to accommodate the needs of each. It will also be necessary to provide safes for the clerk of committees and the highway commissioner.

Several of the department offices should be renovated by wall and ceiling painting and new floor coverings, and I would also recommend that the aldermanic chamber be equipped with new desks for the president, city clerk and city messenger.

Libraries.

The Central Library and its branches are well provided for except the Union Square Branch, which should be 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.

Highway Buildings.

The mechanical work of the Highway Department was greatly handicapped until the recent completion of the new shops. This new building provides ample room for the carpenters, painters, and blacksmiths in their work caring for the highway property.

City Home Buildings.

The most important work at the City Home buildings during the year was the reconstruction of the piggery, which is now in a thoroughly sanitary condition.

These buildings are now in good condition and are in keeping with the beautifully kept grounds of the home.

Hospital Buildings.

The hospital buildings have been thoroughly renovated during the year. All the outside woodwork has been painted and much of the interior. The third floor of the Contagious Hospital has been so remodelled as to be habitable with safety and provides a welcome addition for the scarlet fever ward.

Police Buildings.

It will be necessary the coming year to re-surface the yard around this building and to renovate the interior. The most pressing need exists in the court room and hallways, which should be thoroughly painted and refinished.

Bathing Beach.

The bathing beach has become such a popular institution that I believe the time has arrived when it should be placed in charge of someone who would be able to devote

more time than it is possible for the Commissioner of Public Buildings so to do. Its activities come at the time of year when the Commissioner of Public Buildings is particularly busy and I hope that some such arrangement may be made for the coming year.

In General.

The Commissioner of Public Buildings has had the co-operation of all branches of the City Government, including His Honor the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

WALTER T. LITTLEFIELD,
Commissioner of Public Buildings.

REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

OFFICE OF COMMISSIONER OF ELECTRIC LINES AND LIGHTS, }
January 1, 1916. }

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

Gentlemen,—I most respectfully submit my seventh
annual report as Commissioner of Electric Lines and Lights
for the year ending December 31, 1915.

Inspection of Wiring in Buildings.

The work of the electrical inspector is that of trying to
prevent fires from electrical causes.

The inspector examines an installation of electric light,
heat or power solely to ascertain whether it is safe from
liability to cause fires or be dangerous to life.

Fire may be caused by electricity by overheating of con-
ductors, switches or other devices which may cause the in-
sulation to ignite or the device to overheat and set fire to
surrounding objects.

Wiring which is done in an improper manner and by
incompetent workmen is a constant menace to persons us-
ing the same.

A state law has been passed requiring all electricians to
obtain a state license, and no work is accepted unless such
license can be shown the inspector.

It is hoped this will eliminate much of the poor work
that has been done in the past and will result in greater
safety to life and property.

Number of notifications of new work	1,154
Number of inspections of new work	1,154
Number of re-inspections of new work	2,232
Number of inspections of old work	203
Number of defective installations of old work	5
Number of defective installations remedied	5
Number of re-inspections of old work	10

Total number of inspections	3,599
Number of permits issued to the Edison Electric Illuminating Co., for installing meters, lamps, etc.	1,869

Fire Alarm System.

The present fire alarm system has done good work
during the year, but being inadequate for the needs of the
city, a new central office has been ordered and will be in-
stalled in a new fire-proof building, thereby eliminating
chances of fire from outside sources.

This central office will be strictly up to date and will be a credit to the city.

New instrument boards and punch registers have been installed in each of the fire stations to take care of the fast and slow striking bells as required under the new system.

An auto-truck is now in service, replacing the horse and wagon formerly used by the fire alarm department, and trouble calls can now be answered very promptly.

Three new signal boxes have been added, Box 91 Bennett School, Box 92 Bell School and Box 711 Russell road.

One old style box has been replaced with a modern successive box.

The fire alarm equipment 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 battery, about 130 miles of overhead wire and 63,321 feet of underground cable.

There has been run 57,300 feet of new overhead wire and 26,200 feet of old has been removed.

1,600 feet of new twisted pair has been run for telephones, etc.

3,323 feet of lead-covered cable, consisting of two, four and six conductors, have been placed underground on Cedar street, Davis square, Russell road, Elm street, Chester street and Cutter avenue.

Police Signal System.

The police signal system has been given constant attention and is giving excellent service.

One new signal box has been placed on Conwell avenue, corner of West Adams street.

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.	8	11	43	8
Edison Electric Illuminating Co.	25	113	5	1
Boston Elevated Railway Co.	1	1		
Permits given to the New England Telephone & Telegraph Co. for attachments to Edison Co.'s poles				586
Permits given to the Edison Electric Illuminating Co. for attachments to New England Telephone Co.'s poles				77

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.

All of the old arc lights have been changed to 600 candle-power nitrogen incandescent lamps.

	Jan. 1, 1915.	Jan. 1, 1916.
Magnetites	128	128
Arcs	342	
Nitrogen incandescents 600 c. p.		362
Incandescents 100 c. p.	81	91
Incandescents 40 c. p.	876	898

Recommendations.

I respectfully recommend that:—

Additional ordinances be made to further govern the installation of electric wires and appliances in the city.

Conclusion.

I wish to thank his honor, the Mayor, the members of the Board of Aldermen, and the several departments for 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 $2\frac{3}{4}$ miles northerly from State House in Boston.

Greatest extent of the City north and south about 4.2 miles.

Greatest extent of the City east and west about 2.1 miles.

Elevation Highland avenue at City Hall 105 feet above mean low water.

Lowest building elevation in the city 13 feet.

Highest building elevation in the city 145 feet.

Area of city, including land and water, about 4.22 square miles.

Land, 2,461.50 acres : water and marsh, 238.50 acres.

Population 1910, census, 77,236.

Present population, estimated, 87,000.

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, 1916. }

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

I present herewith my report for the year ending December 31, 1915, this being the forty-second annual report of the water department and my sixteenth as water commissioner:—

Revenue and Expenditures.

Water bills have been issued as follows:—

“Annual” water charges, amounting to	\$60,588 80
“Additional” water charges, amounting to	2,587 54
“Metered” water charges, amounting to	166,039 14
	\$229,215 48

	Annual and Additional.	Metered.	
Abatements on above charges	\$1,912 41	\$261 94	\$2,174 35
Income from sale of water			\$227,041 13
Receipts from water service assessments		\$4,094 23	
Receipts for water main extension, Medford street		1,540 01	
Receipts for labor and materials sold:—			
Miscellaneous accounts		3,551 98	9,186 22
Total income of water works			\$236,227 35

This amount was used as follows:—

For water works purposes:—

Water works maintenance	\$38,068 84
Water works extension	26,004 81
Miscellaneous accounts	3,551 98
	\$67,625 63
Interest on water loan bonds	1,040 00
Maturing water loan bonds	5,000 00
Metropolitan water works assessment	110,781 34
	\$184,446 97

For other municipal purposes:—

Highways, Refuse Disposal account	\$850 00
General revenue account	50,930 38
	51,780 38
	\$236,227 35

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.**WATER MAINTENANCE ACCOUNT.**

	Dr.	Cr.
Amount appropriated by board of aldermen from estimated sales of water and operating receipts of the water department		\$44,000 00
Department accounts		1,322 27
Materials furnished for extension of the water works		15,577 27
Amount expended for labor and materials for operation, maintenance, and renewal of the water works	\$38,068 84	
Amount expended for materials used in extension of the water works	15,577 27	
Miscellaneous accounts	3,551 98	
Labor and materials furnished municipal departments	1,322 27	
Amount transferred to Water Works Extension account	1,520 00	
Amount transferred to Highways, Refuse Disposal account	850 00	
Unexpended balance	9 18	
	\$60,899 54	\$60,899 54

WATER WORKS EXTENSION ACCOUNT.

	Dr.	Cr.
Amount appropriated by board of aldermen from estimated sales of water and operating receipts of the water department		\$24,500 00
Amount transferred from Water Maintenance account		1,520 00
Amount expended for labor and materials used in extension of the water works	\$26,004 81	
Unexpended balance	15 19	
	\$26,020 00	\$26,020 00

Cost of Water Works.

The total cost of the water works on December 31, 1914, as represented by the expenditures from appropriations for water works extension was	\$995,569 64
Expended during the year 1915, on extension account	26,004 81
Total expenditures, December 31, 1915	\$1,021,574 45

Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; this has been reduced by \$996,000, leaving the water debt on December 31, 1915, \$21,000.

The outstanding bonds mature as follows:—

YEAR.	AMOUNT.	YEAR.	AMOUNT.
1916	\$5,000	1919	\$4,000
1917	5,000	1920	2,000
1918	5,000		

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1915, inclusive, is shown in the following table:—

Total water income, years 1898 to 1915, inclusive . . . \$4,101,529 42

Distribution:—

Water Works Account.

Water Works Construction, Renewal, Maintenance and Operation . . .	\$1,009,201 29
Water bonds	253,000 00
Interest	84,335 00
Metropolitan Water Assessments . . .	1,533,958 75
	\$2,880,495 04

Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account	\$1,221,034 38
	\$4,101,529 42

Revenue and Appropriations.

The net revenue from the sale of water in 1915 was \$227,041.13, a considerable decrease from that of the previous year, due largely to a falling off in the water consumption of our three largest users. The receipts from other sources were \$9,186.22, making the total department revenue for the year, \$236,227.35.

The percentage of sales of measured water has now reached seventy-three per cent; the balance, twenty-seven per cent., being derived from sales on the flat rate basis.

Highway construction and reconstruction work, permanent paving and sidewalks has demanded a large expenditure for renewal of street mains and services.

The total expenditures for maintenance, operation, renewal and extension of the entire water works system was \$64,073.65; for work, other than construction work, done for property owners for which the city was reimbursed, \$3,551.98; for maturing water bonds and interest on outstanding bonds, \$6,040.00; and the city's assessment for the Metropolitan Water Works, \$110,781.34; a total of \$184,446.97. The sur-

plus balance after paying all expenses of the water works was \$51,780.38, which was used for other municipal purposes.

The department accounts closed for the year with unexpended balances amounting to \$24.37.

Pensions.

The payment of pensions has been transferred from this department to a pension account set up in the auditing department. The name of John H. Keefe was added to the list of pensioners of the water department on April 5, 1915, at \$3.84 per week. There are three recipients of pensions at the present time.

WATER DISTRIBUTION SYSTEM—CONSTRUCTION.

STREET MAINS.

The number of feet of street mains laid during the past year is 7,883; there has also been laid 232 feet of pipe for hydrant connections and 124 feet for blow-off discharges, making a total of 8,239 feet. The total mileage in the city is approximately 101.25.

The sizes and lengths of pipe laid are as follows:—

Size.	Feet laid.	Size	Feet laid.
1½"	44	8"	776
2 "	532	10"	1,260
4 "	511	12"	2,673
6 "	2,443		

The street mains laid during the year are as follows:—

Street	Size of pipe.	Feet laid.
Albion terrace	{ 4"	27
	{ 2"	86
Belmont place	{ 4"	193
	{ 6"	7
Boston street	6"	16
Broadway, east of Langmaid avenue	2"	44
Broadway, high service near Corinthian road	12"	118
Broadway, low service near Simpson avenue	12"	185
Cady avenue	8"	25
Caldwell avenue	6"	248
Central Hill municipal buildings	8"	235
Chetwynd road	8"	8
College avenue place	2"	99
College Hill road	6"	496
Connecticut avenue	6"	512
Corinthian road	8"	101
Hillsdale road	8"	407
Kensington avenue	12"	37
Magnus avenue	10"	444
Maine avenue	6"	332
Mason street	10"	47
Medford street	12"	1195

Medford street, south of Somerville ave. in easterly sidewalk	10"	532	
Middlesex avenue	12"	89	
Minnesota avenue	6"	438	
Mystic avenue, near Austin street	12"	268	
Mystic avenue, west of Austin street in sidewalk	2"	97	
Oak street	6"	5	
Pearl street place	2"	18	
Pearl street place	4"	170	
Pennsylvania avenue	10"	200	
Philips place	2"	136	
Powder House boulevard, north of North street	12"	513	
Powder House boulevard, west of Burnham street	} 1½"	44	
		2"	49
		10"	37
Sunset road	6"	14	
Trull lane	6"	111	
Washington street, westerly from Medford street	12"	263	
Wilson avenue	6"	32	
Hydrant branches and blow-off pipes, 356 feet.			

Hydrants, Gates.

There have been twenty-seven hydrants set and four removed during the year, making the total number in the city, 1,153.

One private hydrant has been set in the yard of the New England Dressed Meat and Wool Co. The total number supplied from the city mains now is sixty-one.

Fifty-four gate valves have been set during the year, making a total of 1,682 in the service. One twelve-inch check valve has been installed at the junction of the high and low-service systems at the northerly corner of Washington and Medford streets.

Seven blow-offs have been constructed, and the total number in the city is 173.

One waterpost has been set, making the total number of waterposts in service seventy-nine.

Water Services.

The number of new water services laid during the year was 208, a decrease of twenty-four from the previous year.

The length of all the service pipes installed was 8,402 feet, and the amount received in charges made for the work was \$4,094.23.

Nine service connections were permanently discontinued and the length of pipe abandoned was approximately 387 feet. The number of services in use in the city is estimated to be 13,233, and the total length of service pipe 86.63 miles. Fire services have been installed at the factories of the North Packing and Provision Co. (10"), the New England Dressed Meat and Wool Co. (10"), the Broadway Theatre building (4") and the Park Avenue M. E. Church (2"),

Water Meters.

The number of meters installed during the year on new services and on old services hitherto unmetered was 656, seventy-eight which had been removed for various causes were reset; seventy-eight were removed on account of permanent or temporary discontinuance of use of water and for substitution of other meters. The number of motor registers in service is five. The net increase in number of operating meters was 656, making the total number of meters and motors in service on December 31, 9,155, or about sixty-nine per cent. of the number of service pipes in the city.

The kinds and sizes of all meters now installed are shown in the following table:—

Operating Meters December 31, 1915.

KIND.	SIZE.								Total.
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	
Nash . . .	177								177
Empire . . .	6								6
Crown . . .	5	2	2	2	2	2			15
Gem . . .							1		1
Hersey . . .			4	1	1	2			8
Hersey Disc	255	22	5	1	4				267
Torrent . . .								1	1
Trident . . .	506	44	24	7	6		1		588
Trident Crest					2	2	3		7
Trident Comp.					8	2	2		12
Union . . .	16	13	7	1	4				41
Union Special		14	3	2					19
Columbia . . .	78								78
King . . .	660								660
Lambert . . .	3,797	151	25	1					3,974
Worthington Disc . . .	3,229	19		3					3,251
Keystone . . .	25								25
Totals . . .	8,754	265	70	18	27	8	7	1	9,150
Motor and ele- vator registers									5
									9,155

The meters installed in 1915 were classed as follows:—

Applications of property owners	176
New services	217
General installation	263
Reset	78
Total	734

Meters were removed for the following causes:—

Vacancies and temporary non-use of water	49
Services permanently discontinued	3
Replaced by other meters	26
	78
Total	78

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-eight.

The following table gives a summary of the pipes and fixtures of the water system December 31, 1915:—

Summary of Pipes and Fixtures.

Feet of main pipe (approximately)	534,658
Feet of service pipe (approximately).	457,427
Service connections (approximately)	13,233
Public fire hydrants	1,153
Private fire hydrants	61
Gates	1,632
Check valves	8
Meters	9,150
Motor registers	5
Waterposts	79
Blow-offs	173
Drinking fountains and troughs	9

WATER DISTRIBUTION SYSTEM—MAINTENANCE.

In the street mains only eight leaks have been discovered, equal to but .13 per mile of main. The most annoying was in the 20" main in Broadway near the westerly line of Willow avenue, where it was found that the main had cracked around nearly one-half its circumference. The main was laid twenty years ago and has heretofore given no trouble.

On account of proposed street construction the old service pipes formerly supplying Pearl place, Belmont place and Caldwell avenue were replaced with iron mains.

Waterposts and Fountains.

One waterpost used in the street sprinkling service has been set on Horace street near the corner of South street.

Services.

Carrying out the policy of last year a large number of service pipes were wholly or partly renewed on account of the street paving and reconstruction work of the Highway department, and the laying of granolithic sidewalks.

Water Assessments and Consumption.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year.	Sinking Fund.	Maintenance.	Interest.	Maturing Bonds.	Total.
1898	No division made				\$14,250 19
1899	"	"	"		20,975 58
1900	"	"	"		28,689 24
1901	\$12,491 73	\$12,033 79	\$32,291 24		56,816 76
1902	19,014 85	12,955 64	30,427 40		62,397 89
1903	15,748 56	12,763 10	48,776 77		77,288 43
1904	16,404 42	15,393 87	54,938 64		86,736 93
1905	21,358 11	13,666 71	55,535 91		90,560 73
1906	22,345 50	17,412 51	57,402 07		97,160 08
1907	25,365 30	18,880 01	62,089 30		106,334 61
1908	24,865 73	15,221 12	68,604 23		108,691 08
1909	24,812 23	21,220 56	66,540 41		112,573 20
1910	25,018 52	18,212 28	66,825 45		110,056 25
1911	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912	24,469 82	16,111 70	68,205 16	445 46	109,232 14
1913	24,930 94	20,691 19	70,206 83	491 92	116,320 88
1914	14,190 98	22,488 71	73,138 81	180 63	109,999 13
1915	14,164 65	21,376 07	74,111 12	1,129 50	110,781 34
					\$1,533,958 75

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 1915:—

Month.	Gallons per day.	Gallons per capita	Month.	Gallons per day.	Gallons per capita
January	6,305,600	74	July	5,958,800	69
February	6,146,700	72	August	5,521,800	64
March	5,645,200	66	September	5,975,200	69
April	5,498,900	64	October	5,719,200	65
May	5,673,500	66	November	5,510,800	63
June	6,049,100	70	December	5,665,200	65

The consumption for the year was: Low-service, 1,615,286,000 gallons; high-service, 504,292,000 gallons; making the total for the year 2,119,578,000 gallons, and an average daily consumption of 5,807,100 gallons.

The average daily quantity of water used in Somerville during 1915 was sixty-seven gallons per inhabitant, a decrease of six gallons from the previous year's consumption and the lowest since records have been maintained; the average for the entire district was eighty-eight gallons daily per capita, six gallons lower than the previous year.

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan water district for the year 1915, as registered by the Metropolitan meters:—

City or Town.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Arlington	51	50	49	52	58	75	60	48	70	50	48	48	55
Belmont	48	46	48	50	56	66	50	48	67	50	51	46	52
Boston	115	112	104	100	101	105	103	103	104	101	98	102	104
Chelsea	65	66	64	63	65	69	67	69	72	67	65	64	66
Everett	74	72	65	65	63	69	68	68	71	69	69	71	68
Lexington	62	59	60	61	65	81	63	63	70	68	62	60	64
Malden	42	43	43	43	47	51	44	44	50	49	46	45	46
Medford	41	45	39	39	39	43	39	37	42	41	41	39	40
Melrose	58	53	51	50	51	57	49	46	51	50	45	42	50
Milton	34	35	35	41	44	47	37	36	41	43	40	37	39
Nahant	48	50	53	73	100	231	250	202	190	89	53	45	116
Quincy	59	59	57	57	61	67	67	64	66	62	62	56	61
Revere	58	57	52	54	57	62	67	68	64	55	52	52	58
Somerville	73	71	65	63	65	69	68	63	68	65	63	65	67
Stoneham	51	48	49	51	52	54	50	46	48	48	50	51	50
Swampscott	46	44	47	51	63	83	76	77	74	54	48	46	59
Watertown	67	62	64	65	65	71	64	57	61	55	55	55	62
Winthrop	52	49	51	49	54	61	65	65	62	52	48	46	54
Met. Dist.	95	93	87	84	85	90	88	87	90	85	82	85	88

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1915:—

City or Town.	GALLONS.		Per Cent of Services Metered
	Total per Day.	Per Capita per Day.	
1--Milton	338,900	39	100
2--Medford	1,245,200	40	100
3--Malden	2,243,000	46	95.54
4--Stoneham	373,700	50	98.51
5--Melrose	851,500	50	100
6--Belmont	425,400	52	100
7--Winthrop	700,300	54	100
8--Arlington	825,300	55	100
9--Revere	1,484,800	58	70.81
10--Swampscott	436,400	59	100
11--Quincy	2,511,800	61	88.55
12--Watertown	1,025,200	62	100
13--Lexington	358,700	64	91.96
14--Chelsea	2,901,400	66	99.72
15--Somerville	5,807,100	67	69.19
16--Everett	2,599,100	68	50.01
17--Boston	77,651,800	104	53.15
18--Nahant	161,900	116	64.11
Total District	101,941,500	88	66.81

High-Pressure Pump.

Our old high-service pumping equipment is now entirely out of commission, the boiler having been condemned by the state inspectors last fall, and we are therefore entirely dependent upon the Metropolitan service for our high-pressure water.

No action was taken during the year towards providing

a new equipment as no appropriation was granted for that purpose although one was sought in order to make a start on this work.

A modern pump and engine for emergency use should be set up at once, and I shall again ask for an appropriation for such installation.

Special Work.

An important feature of the year's work was the extension of the high-water pressure system in Medford street from Central square to Washington street, and the extension of the high-service pipe line from that point through Medford street to the packing houses, connecting at suitable points with the factory fire pumps and sprinkler systems. A twelve-inch check-valve between the low and high-service mains was installed at their junction on the northerly line of Washington street, and a brick chamber for testing for leakage, with suitable connections, was constructed on the southerly line of Washington street.

Six new high-pressure fire hydrants were set in Medford street, and a blow-off connection with the sewer was laid in Somerville avenue.

This extension is of much benefit to the residential district in that section as it gives additional hydrant service, and it is also of great importance in reducing the fire hazard in the packing houses.

The sum of \$1,540.01 was contributed to the city by the North Packing & Provision Company to cover the cost of a portion of this work in front of its property.

In connection with this work, a high-service main was laid in Washington street westerly from Medford street to a point a short distance west of Boston street. The long-existing dead end at the foot of Boston street was abolished and water circulation established by connecting the pipe in that street with the new main. A new high-pressure fire hydrant was installed in this main in front of the Pope schoolhouse.

Work for the Unemployed.

The construction work of the department was commenced at a much earlier date than usual in order to relieve to some extent the unusual distress prevailing last winter by giving short-term periods of employment to heads of families who were out of work.

Between January and April help was given in this manner to one hundred families who would otherwise have been without an income.

The labor of trenching is somewhat greater during the period when the ground is frozen, but the men employed

agreed to work for twenty-five cents per day less wages until the first of April, which practically offset the extra cost of out-of-season work, and caused no additional expense to the city.

Closing of Year's Accounts.

My appropriation accounts for the year closed with every bill against the department paid in full, and with the sum of \$874.37 unexpended. Of this amount, \$850.00 was transferred to another municipal department account, leaving a book balance of \$24.37 to the credit of the Water department appropriations.

The accompanying tables give further information and details concerning the work of the department and are included as a part of this report.

Respectfully submitted,

FRANK E. MERRILL,
Water Commissioner.

Gates Set in New Locations.

- Albion terrace, 4-inch gate, set 8 feet 4 inches east from west line of Albion terrace and on south line of Albion street.
- Banks street, 6-inch gate, set 12 feet north from north line of Elm street and 16 feet west from east line of Banks street.
- Belmont place, 4-inch gate, set 8 feet north from the south line of Belmont place, on the east line of Belmont street.
- Broadway, (high service,) 12-inch gate, set 22 feet 9 inches north from the south line of Broadway, on the west line of Corinthian road.
- Broadway, 12-inch gate, set 22 feet north from the south line of Broadway, on the west line of Packard avenue.
- Broadway, (high service,) 4-inch gate, set 74 feet east from the east line of Corinthian road and 22 feet 9 inches north from the south line of Broadway, on blow-off branch.
- Broadway, (low service,) 4-inch gate, set 64 feet west from the west line of Simpson avenue, and 21 feet 6 inches north from the south line of Broadway, on blow-off branch.
- Broadway, 6-inch gate, set 14 feet west from the west line of Simpson avenue, and 20 feet north from the south line of Broadway, on hydrant branch.
- Cady avenue, 8-inch gate, set 13 feet 4 inches south from the north line of Cady avenue, on the west line of Simpson avenue.
- Caldwell avenue, 6-inch gate, set 7 feet west from the east line of Caldwell avenue, on south line of Washington street.
- Caldwell avenue, 4-inch gate, set 201 feet south from the south line of Washington street, and 9 feet west from the east line of Caldwell avenue, on blow-off branch.
- Central Hill Municipal buildings, 8-inch gate, set 39 feet from the west corner of Latin school and 71 feet from the south corner of English School.

- Central Hill Municipal buildings, 8-inch gate, set 10 feet south from the south wall of passageway and 7 feet east from the east wall of the English School.
- Central Hill Municipal buildings, 8-inch gate, set 42 feet west from the west line of Putnam street, and 9 feet south from the north line of Highland avenue.
- College-avenue place, rear of 50 College avenue, 2-inch gate, set 108 feet north from the north line of Morrison avenue, extended, on west line of College avenue.
- College Hill road, 6-inch gate, set 13 feet 4 inches west from the east line of College Hill road, on the north line of Conwell avenue.
- College Hill road, 6-inch gate, set 13 feet 4 inches north from the south line of College Hill road, on the east line of North street.
- Connecticut avenue, 6-inch gate, set 13 feet 4 inches east from the west line of Connecticut avenue, on the north line of Pennsylvania avenue.
- Corinthian road, 8-inch gate, set 13 feet 4 inches east from the west line of Corinthian road, on the south line of Broadway.
- Crescent street, 6-inch gate, set 7 feet east from the west line of Crescent street, on the south line of Pearl street.
- Highland avenue, 6-inch gate, set 8 feet 9 inches south from the north line of Highland avenue and 44 feet west from the west line of Putnam street, on hydrant branch.
- Highland avenue, 12-inch gate, set 46 feet west from the west line of Putnam street, and 20 feet south from the north line of Highland avenue. (Section gate.)
- Hillsdale road, 8-inch gate, set 13 feet 4 inches west from the east line of Hillsdale road, on the south line of Chetwynd road.
- Magnus avenue, 10-inch gate, set 13 feet 4 inches west from the east line of Magnus avenue, on the south line of Washington street.
- Maine avenue, 6-inch gate, set 13 feet 4 inches east from the west line of Maine avenue, on the south line of Mystic avenue.
- Medford street, 10-inch gate, set 280 feet north from the north line of Ward street, and 1 foot 6 inches west from the east line of Medford street.
- Medford street, (high service,) 12-inch gate, set on south line of Somerville avenue, 12 feet east from the west line of Medford street.
- Medford street, (high service,) 12-inch gate, set on the north line of Somerville avenue, 12 feet east from the west line of Medford street.
- Medford street, (high service,) 12-inch gate, set on the south line of Washington street, 12 feet east from the west line of Medford street.
- Medford street, (high service,) 12-inch gate, set on the north line of Washington street, 14 feet east from the west line of Medford street.
- Medford street, (high service,) 12-inch gate, set on the north line of Washington street, 16 feet east from the west line of Medford street.
- Medford street, (high service,) 12-inch check valve, set 5 feet south from the north line of Washington street, and 16 feet east from the west line of Medford street.
- Medford street, (high service,) 6-inch gate, set 16 feet east from the west line of Medford street, and 6 feet south from Maple street, on hydrant branch.
- Medford street, (high service,) 6-inch gate, set 16 feet east from the west line of Medford street, and 8 feet north from Somerville avenue on hydrant branch.

- Medford street, (high service,) 6-inch gate, set 9 feet east from the west line of Medford street, and 27 feet south from Somerville avenue, on hydrant branch.
- Medford street, (high service,) 4-inch gate, set on the north line of Somerville avenue, and 10 feet east from the west line of Medford street, on blow-off branch.
- Medford street, (high service,) 6-inch gate, set 16 feet east from the west line of Medford street, and 37 feet south from Washington street, on hydrant branch.
- Medford street, (high service,) 6-inch gate, set 16 feet east from the west line of Medford street, and 307 feet north from Maple street on hydrant branch.
- Medford street, (high service), 6-inch gate, set 4 feet west from the east line of Medford street, and 157 feet south from the south line of Somerville avenue.
- Melrose street, 2-inch gate, set 31 feet south from the south line of the Hinckley Rendering Co.'s factory and 761 feet east from the line of the poles in Mystic avenue on the blow-off branch.
- Middlesex avenue, 12-inch gate, set 15 feet north from the south line of Mystic avenue, and 31 feet east from the east line of Connecticut avenue.
- Minnesota avenue, 6-inch gate, set 13 feet 4 inches east from the west line of Minnesota avenue, on the south line of Pennsylvania avenue.
- Mystic avenue, 12-inch gate, set 7 feet north from the south line of Mystic avenue, on the west line of Austin street.
- Newbury street, 6-inch gate, set 558 feet south from the south line of Holland street, and 10 feet out from east line of Newbury street.
- Pearl-street place, 4-inch gate, set 7 feet west from the east line of Pearl street place, on the north line of Pearl street.
- Pennsylvania avenue, 10-inch gate, set 13 feet 4 inches north from the south line of Pennsylvania avenue, on the east line of Minnesota avenue.
- Philips place, 2-inch gate, set 18 feet east from the west line of Spring street, on line of entrance to Philips place.
- Powder House boulevard, 2-inch gate, set 18 feet 6 inches north from the south line of Powder House boulevard, and 5 feet west from the west line of Burnham street.
- Powder House boulevard, 6-inch gate, set 157 feet south from point opposite northeast corner of athletic field grandstand, and 9 feet west from the east line of Powder House boulevard.
- Powder House boulevard, 12-inch gate, set 143 feet south from point opposite northeast corner of athletic field grandstand.
- Powder House boulevard, 4-inch gate, set 317 feet south from point opposite northeast corner of athletic field grandstand, on blow-off branch.
- Trull lane, 6-inch gate, set 5 feet east from the west line of Trull lane, on the north line of Oxford street.
- Washington street, 4-inch gate, set 13 feet east from the west line of Dane street, and 29 feet south from the north line of Washington street, on blow-off branch.
- Washington street, (high service,) 12-inch gate, set 16 feet south from the north line of Washington street, on the west line of Medford street.
- Washington street, (high service,) 6-inch gate, set 14 feet from the north line of Washington street, and 33 feet west from Boston street, on hydrant branch.
- Wilson avenue, 4-inch gate, set 7 feet east from the west line of Wilson avenue, and 275 feet south from the south line of Broadway on blow-off branch.

GATES—RECAPITULATION.

GATES.	2"	4"	6"	8"	10"	12"	14"	16"	20"	Total.
Set	4	9	20	6	3	12	—	—	—	54
Removed or Discontinued	—	—	—	—	—	—	—	—	—	—

Net increase in number of gates in 1915 54
 Total number of gates in the city December 31, 1915 1,682

FIRE HYDRANTS.

Construction—Renewal—Removal.

- Banks street, 6-inch Holyoke hydrant, set 6 feet north from Elm street, on westerly side.
- Belmont place, 6-inch Corey hydrant, set 175 feet east from the east line of Belmont street.
- Belmont street, 4-inch Boston machine hydrant, removed from 222 feet south from Belmont place.
- Belmont street, 6-inch Corey hydrant, set 222 feet south from Belmont place.
- Broadway, 6-inch Corey hydrant, set 8 feet west from Simpson avenue, on south side of Broadway.
- Caldwell avenue, 6-inch Corey hydrant, set 209 feet south from the south line of Washington street.
- Central Hill Municipal buildings, 6-inch Mathews hydrant, set 108 feet north from Highland avenue, and 41 feet west from west line of Latin School.
- Chetwynd road, 6-inch Corey hydrant, set 81 feet east from Hillsdale road.
- College Hill road, 6-inch Mathews hydrant, set 182 feet north from north line of Conwell avenue, on east side of College Hill road.
- Connecticut avenue, 6-inch Corey hydrant, set 70 feet south from the south line of Mystic avenue.
- Durant street, 4-inch Holyoke hydrant, removed from 130 feet south from Washington street.
- Durant street, 4-inch Holyoke hydrant, set 35 feet south from Washington street.
- Elm street, 6-inch Holyoke hydrant, removed from 104 feet east from Willow avenue.
- Flint avenue, 6-inch Corey hydrant, set 163 feet from Flint street on west side of Flint avenue.
- Garfield avenue, 6-inch Corey hydrant, set 40 feet south from Blakeley avenue, on west side of Garfield avenue.
- Highland avenue, 6-inch Mathews hydrant, removed from 41 feet west from Putnam street.
- Highland avenue, 6-inch Chapman hydrant, set 47 feet west from Putnam street, on north side of Highland avenue.
- Hillsdale road, 6-inch Corey hydrant, set 81 feet north from Chetwynd road.
- Hillsdale road, 6-inch Corey hydrant, set 92 feet north from Curtis avenue.
- Magnus avenue, 6-inch Corey hydrant, set 192 feet south from Washington street.
- Magnus avenue, 6-inch Corey hydrant, set 509 feet south from Washington street.
- Medford street, (high service,) 6-inch Mathews hydrant, set 37 feet south from Washington street, on east side of Medford street.

- Medford street, (high service,) 6-inch Mathews hydrant, set 307 feet north from Maple street, on east side of Medford street.
- Medford street, (high service,) 6-inch Mathews hydrant, set 6 feet south from Maple street, on east side of Medford street.
- Medford street, (high service,) 6-inch Mathews hydrant, set 8 feet north from Somerville avenue, on east side of Medford street.
- Medford street, (high service,) 6-inch Corey hydrant, set 27 feet south from Somerville avenue, on west side of Medford street.
- Medford street, (high service,) 6-inch Chapman hydrant, set 157 feet south from the south line of Somerville avenue, on east side of Medford street.
- Minnesota avenue, 6-inch Corey hydrant, set 300 feet north from Broadway, on the west side of Minnesota avenue.
- Pearl-street place, 4-inch Boston machine hydrant, set 163 feet north from the north line of Pearl street.
- Washington street, 6-inch Mathews hydrant, set 33 feet west from Boston street, on north side of Washington street.
- Wilson avenue, 6-inch Corey hydrant, set 304 feet south from Broadway.

HYDRANTS—RECAPITULATION.

HYDRANTS.	4"	6"	8"	Total.
Set	2	25	—	27
Removed	2	2	—	4

Net increase in number of hydrants in 1915 23
 Total number of hydrants in the city December 31, 1915 . 11,153

Locations of Hydrants.

- Aberdeen road, 237 feet west from Cedar street.
- Acadia park, 186 feet north from Somerville avenue.
- Adams street, 11 feet south from Broadway.
 221 feet south from Broadway.
 250 feet north from Medford street.
 10 feet north from Medford street.
- Adrian street, 93 feet east from Marion street.
 220 feet south from Joseph street.
- Albion street, 396 feet west from Central street.
 15 feet west from Centre street.
 217 feet east from Lowell street.
 7 feet west from house No. 110.
 444 feet east from Cedar street.
- Aldersey street, 276 feet west from Walnut street.
- Allen street, 9 feet north from Charlestown street.
 45 feet west from Somerville avenue.
 323 feet west from Somerville avenue.
- Alpine street, 280 feet east from Cedar street.
 76 feet west from Princeton street.
 298 feet west from Lowell street.
- Alston street, 212 feet east from Cross street.
 10 feet west from Shawmut place.
- Ames street, 123 feet west from Central street.
- Appleton street, 3 feet east from Clifton street.
 41 feet west from Willow avenue.
- Arlington street, 36 feet east from Hathorn street.

- Arthur street, 29 feet south from Broadway.
 Ash avenue, 300 feet north from Meacham street.
 Ashland street, 7 feet South from Summer street.
 268 feet south from Summer street.
 Atherton street, 31 feet east from Spring street.
 Auburn avenue, 239 feet west from Cross street.
 481 feet west from Cross street.
 Austin street, 81 feet south from Mystic avenue.
 66 feet north from Benedict street.
 2 feet north from Broadway.
 Avon street, 233 feet east from Central street.
 572 feet west from School street.
 270 feet west from School street.
 Banks street, 310 feet south from Summer street.
 6 feet north from Elm street, west side.
 Bartlett street, 230 feet south from Broadway.
 223 feet north from Medford street.
 15 feet south from Ames street.
 10 feet south from Robinson street.
 Barton street, 130 feet north from Broadway.
 8 feet south from Russell road.
 Bay State avenue, 39 feet south from Broadway.
 7 feet south from Mallet street.
 92 feet north from Kidder avenue.
 Beacon street, 316 feet west from Greenwood terrace.
 10 feet east from Stanwood terrace.
 46 feet west from Sacramento street.
 40 feet east from Sacramento street.
 2 feet west from Beckwith circle.
 15 feet west from Kent street.
 4 feet west from Ivaloo street.
 68 feet east from Park street.
 18 feet east from Durham street.
 26 feet east from Washington street.
 79 feet west from Calvin street.
 8 feet west from Waldo avenue.
 28 feet west from Buckingham street.
 208 feet east from Buckingham street.
 6 feet east from Concord avenue.
 Beech street, 4 feet south from Atherton street.
 Belknap street, 63 feet north from Broadway.
 80 feet south from Russell road.
 Belmont place, 175 feet from Belmont street.
 Belmont street, 206 feet north from Spring Hill terrace.
 241 feet north from Summer street.
 243 feet south from Summer street.
 10 feet north from Belmont place.
 222 feet south from Belmont place.
 185 feet north from Somerville avenue.
 Benedict street, 33 feet east from Mystic street.
 Bennett street, 166 feet east from Prospect street.
 Benton road, 2 feet north from Cambria street
 28 feet south from Highland avenue.
 Berkeley street, 8 feet east from Central street.
 150 feet east from Hersey street.
 28 feet west from School street.
 212 feet west from Hersey street.
 Billingham street, 126 feet north from William street,

- Blakeley avenue, 13 feet east from Fellsway East.
- Bolton street, 203 feet north from Houghton street.
3 feet south from Oak street.
- Bonair street, 26 feet west from Cross street.
90 feet east from Autumn street.
121 feet east from Arthur street.
67 feet east from Dana street.
Opposite Melvin street.
117 feet east from Walnut street.
- Bond street, 63 feet south from Jaques street.
- Bonner avenue, 171 feet north from Washington street.
- Boston avenue, 110 feet south from bridge over Mystic river.
492 feet north from Gove street, Medford.
65 feet north from Highland road.
23 feet east from Pearson avenue.
289 feet north from Morrison avenue.
- Boston street, 11 feet west from Prospect Hill avenue.
207 feet west from Bigelow street.
87 feet east from Bigelow street.
6 feet north from Munroe street.
- Bow street, 102 feet north from Warren avenue.
23 feet west from Wesley park.
25 feet east from Bow-street place.
74 feet north from Walnut street.
- Bow-street place, 193 feet west from Bow street.
- Bowdoin street, 65 feet north from Fremont avenue.
- Bradley street, 26 feet south from Radcliffe road.
- Brastow avenue, 202 feet east from Porter street.
115 feet west from Lowell street.
- Broadway, 50 feet east from Mt. Pleasant street.
20 feet west from George street.
21 feet west from Broadway place.
83 feet east from Cutter street.
7 feet east from Glen street.
80 feet east from Wisconsin avenue.
63 feet east from Illinois avenue.
60 feet west from Pennsylvania avenue.
21 feet east from Rush street.
118 feet east from Cross street.
15 feet west from Cross street.
7 feet west from Autumn street.
6 feet west from Montgomery avenue.
33 feet west from Walnut street.
4 feet east from Sargent avenue.
3 feet west from Melvin street.
157 feet west from Grant street.
117 feet east from Marshall street.
62 feet west from Marshall street.
4 feet west from School street.
9 feet west from Winter Hill circle.
10 feet west from Thurston street.
209 feet east from Central street.
104 feet west from Norwood avenue.
15 feet west from City road.
288 feet east from Cedar street on south side.
Opposite Cedar street.
5 feet east from Wilson avenue.
252 feet west from Wilson avenue.
314 feet east from Cedar street,

- Broadway, 115 feet west from Rogers avenue.
 236 feet west from Liberty avenue.
 175 feet west from College avenue.
 6 feet west from Billingham street.
 8 feet west from Simpson avenue.
 9 feet west from Packard avenue.
 32 feet east from Westminster street.
 237 feet east from Endicott avenue.
 6 feet west from Endicott avenue.
 9 feet west from Garrison avenue.
 330 feet west from Waterhouse street.
- Broadway park, near the pond.
- Bromfield road, 179 feet north from Warner street.
 567 feet north from Warner street.
 267 feet south from Dearborn road.
- Brook street, 18 feet west from Rush street.
- Browning road, 302 feet west from Sycamore street.
 136 feet east from Central street.
- Buckingham street, 2 feet south from Dimick street.
- Buena Vista road, 162 feet south from Holland street.
- Burnham street, 84 feet south from Powder House boulevard.
- Burnside avenue, 259 feet north from Elm street.
 120 feet south from Summer street.
- Caldwell avenue, 209 feet south from Washington street.
- Calvin street, 186 feet south from Beacon street.
- Cambria street, 131 feet west from Central street.
- Cameron avenue, 166 feet south from Holland street.
 Opposite Mead street.
 26 feet south from Glendale avenue.
- Campbell park, 258 feet west from Meacham road.
- Cedar street, 226 feet south from Sartwell avenue.
 98 feet north from Sartwell avenue.
 61 feet north from Hall street.
 22 feet south from Highland avenue.
 12 feet north from Highland avenue.
 10 feet north from Albion street.
 124 feet south from Warwick street.
 50 feet north from Clyde street.
 24 feet south from Murdock street.
 270 feet south from Broadway.
- Central Hill road, rear of City Hall.
 41 feet west from Latin school.
- Central street, 50 feet south from Broadway.
 6 feet north from Forster street.
 27 feet north from Vernon street.
 5 feet north from Pembroke street.
 187 feet south from Vernon street.
 9 feet north from Willoughby street.
 92 feet north from Highland avenue.
 9 feet south from Highland avenue.
 6 feet north from Oxford street.
 23 feet south from Avon street.
 14 feet south from Summer street.
- Chandler street, 16 feet south from Broadway.
 206 feet north from Park avenue.
- Chapel street, 14 feet east from Chandler street.
- Charles street, 183 feet south from Washington street.
- Charnwood road, 79 feet west from Hancock street.
- Cherry street, 7 feet south from Sartwell avenue.

- Cherry street, 254 feet north from Sartwell avenue.
 252 feet north from Summer street.
 26 feet south from Highland avenue.
- Chester street, 15 feet north from Chester place.
- Chestnut street, 480 feet south from Poplar street.
 246 feet south from Poplar street.
- Chetwynd road, 236 feet west from Curtis street.
 81 feet east from Hillsdale road.
- Church street, 9 feet south from Summer street.
 300 feet south from Summer street.
 16 feet south from Somerville avenue.
 29 feet north from Somerville avenue.
 12 feet north from Lake street.
- City Road, 70 feet north from Summer street.
 67 feet south from Roberts street.
- Claremon street, 255 feet south from Holland street.
- Clarendon avenue, 253 feet south from Broadway.
 Opposite house No. 66.
 Near Cambridge line.
- Clark street, 15 feet north from Newton street.
 200 feet north from Newton street.
 412 feet north from Newton street.
- Cleveland street, 192 feet west from Central street.
- Clyde street, 250 feet east from Cedar street.
 Opposite Murdock street.
- College avenue, 12 feet north from Winter street
 6 feet south from Morrison avenue.
 8 feet south from Hall avenue.
 53 feet west from Francesca avenue.
 Opposite Kenwood street.
 100 feet west from Broadway.
 405 feet north from Broadway.
 720 feet north from Broadway.
- College Hill road, 182 feet north from Conwell avenue.
- Columbia street, 3 feet south from Beach avenue.
 8 feet south from Columbia court.
- Columbus avenue, 7 feet north from Washington street
 150 feet east from Bonner avenue.
 118 feet west from Bonner avenue.
 35 feet west from Stone avenue.
 3 feet east from Walnut street.
- Concord avenue, 154 feet west from Prospect street.
 76 feet east from Concord square.
 On east line of Knapp school.
 313 feet east from Springfield street.
 24 feet east from Springfield street.
 7 feet east from Marion street.
 6 feet south from Hammond street.
 20 feet east from Wyatt street.
- Conlon-court extension, 138 feet west from Windsor street
- Connecticut avenue, 70 feet south from Mystic avenue.
- Conwell avenue, 20 feet west from Curtis street.
 460 feet west from Curtis street.
 29 feet west from Hillsdale road.
 9 feet east from North street.
 336 feet east from North street.
- Conwell street, 6 feet south from Highland avenue.
 3 feet north from Francis street.
- Cooney street, 98 feet north from Line street.

- Cottage avenue, 206 feet west from Russell street.
- Craigie street, 216 feet south from Summer street.
232 feet north from Kimball street.
77 feet south from Kimball street.
126 feet north from Somerville avenue.
- Crescent street, 125 feet south from Pearl street.
- Crocker street, 4 feet south from Highland avenue.
8 feet north from Crown street.
- Cross street, 32 feet north from Cross-street place.
6 feet north from Pearl street.
62 feet north from Flint street.
16 feet north from Gilman street.
13 feet south from Auburn avenue.
39 feet north from Alston street.
- Cross street east, 114 feet north from Broadway.
- Curtis avenue, 206 feet west from Curtis street.
160 feet east from Hillsdale road.
- Curtis street, 6 feet north from Broadway.
3 feet south from Electric avenue.
137 feet north from Ware street.
3 feet south from Raymond avenue.
34 feet south from Professors row.
225 feet north from Professors row.
145 feet north from Sunset road.
- Cutter avenue, 11 feet south from Highland avenue.
- Cutter square, 95 feet west from Cutter avenue.
- Cutter street, 95 feet south from Broadway.
444 feet south from Broadway.
- Cypress street, 114 feet west from Central street.
- Dana street, 18 feet north from Pearl street.
- Dane avenue, 162 feet west from Leland street.
169 feet east from Dane street.
- Dane street, 136 feet south from Somerville avenue.
8 feet south from Tyler street.
42 feet north from Skehan street.
260 feet south from Skehan street.
- Dartmouth street, 184 feet south from Broadway.
200 feet north from Evergreen avenue.
53 feet south from Evergreen avenue.
171 feet north from Medford street.
- Davis square, 45 feet east from Day street.
- Day street, 10 feet south from Davis square.
Opposite Herbert street.
195 feet south from Herbert street.
4 feet north from Orchard street.
- Delaware street, 246 feet east from Aldrich street.
8 feet south from Pearl street.
- Dell street, 255 feet west from Glen street.
- Derby street, 400 feet east from Temple street.
- Dickinson street, 20 feet east from Beacon street.
7 feet north from Leon street.
- Dickson street, 119 feet south from Fairmount avenue.
- Dover street, 22 feet south from Davis square.
203 feet south from Davis square.
312 feet north from Orchard street.
3 feet north from Orchard street.
- Durant street, 35 feet south from Washington street.
- Durham street, opposite Skehan street.
5 feet west from Hanson street.

- Earle street, 1 foot south from Ward street.
66 feet north from Ward street.
- Eastman road, 279 feet south from Highland avenue.
- Edgar avenue, 156 feet north from Heath street.
38 feet south from Heath street.
- Edmands street, 15 feet south from Broadway.
- Electric avenue, 160 feet west from Mason street.
- Eliot street, 3 feet east from Park street.
- Ellsworth street, 7 feet west from Rush street.
- Elm street, 59 feet west from Craigie street.
17 feet west from Porter street.
28 feet east from Linden avenue.
11 feet east from Mossland street.
9 feet west from Cedar street.
153 feet east from Cherry street.
110 feet west from Cherry street.
14 feet east from Burnside avenue.
20 feet east from St. James avenue.
9 feet west from Elston street.
90 feet west from Windom street.
30 feet west from Russell street.
11 feet west from Grove street.
82 feet west from Chester street.
- Elmwood street, 9 feet south from Holland street.
300 feet east from Harrison street.
85 feet west from Harrison street.
- Emerson street, 13 feet north from Newton street.
- Endicott avenue, 422 feet south from Broadway.
- Everett avenue, 5 feet west from Cross street.
9 feet east from Dana street.
449 feet west from Cross street.
- Everett street, 149 feet west from Newton street.
15 feet east from Webster avenue.
- Evergreen avenue, 8 feet east from School street.
114 feet east from Sycamore street.
- Fairlee street, 134 feet west from Cherry street.
- Fairmount avenue, 280 feet west from Curtis street.
Opposite Watson street.
- Farragut avenue, 258 feet south from Broadway.
537 feet south from Broadway.
- Fellsway East, 68 feet north from Broadway.
- Fellsway West, 11 feet north from Broadway.
437 feet south from Mystic avenue.
- Fenwick street, 40 feet north from Broadway.
- Fitchburg street, 395 feet east from Linwood street.
- Flint avenue, 163 feet from Flint street.
- Flint street, 18 feet east from Flint avenue.
59 feet east from Cross street.
30 feet west from Franklin street.
- Florence street, 206 feet south from Perkins street.
7 feet south from Pearl street.
453 feet north from Washington street.
- Forster street, opposite Tennyson street.
- Fosket street, 6 feet west from Bay State avenue.
- Fountain avenue, 280 feet west from Glen street.
- Francesca avenue, 305 feet east from College avenue.
7 feet west from Liberty avenue.

- Franklin street, 14 feet north from Arlington street
 55 feet north from Perkins street.
 76 feet south from Webster street.
 156 feet south from Pearl street.
 80 feet south from Oliver street.
 87 feet south from Palmer avenue.
 29 feet north from Washington street.
- Fremont street, 82 feet north from Main street.
 343 feet north from Main street.
 Opposite Meacham street.
 287 feet north from Meacham street.
 25 feet north from East Albion street.
- Garden court, 357 feet south from Somerville avenue.
- Garfield avenue, 7 feet north from Broadway.
 40 feet south from Blakeley avenue.
 24 feet south from Mystic avenue.
- Garrison avenue, 235 feet south from Broadway.
- Gibbens street, 202 feet west from Central street.
 129 feet west from Benton road.
- Gilman square, opposite Marshall street.
- Gilman street, 103 feet east from Walnut street.
 143 feet east from Jasper street.
 8 feet west from Aldrich street.
 176 feet east from Aldrich street.
 295 feet west from Cross street.
- Glass-house court, 360 feet west from Water street.
- Glen street, 147 feet south from Broadway.
 8 feet north from Brook street.
 6 feet north from Webster street.
 1 foot north from Flint street.
 11 feet north from Fountain avenue.
- Glendale avenue, 80 feet west from Cameron avenue.
 8 feet east from Yorktown street.
- Glenwood road, 224 feet south from Broadway.
 16 feet north from Vernon street.
 320 feet north from Vernon street.
 467 feet north from Vernon street.
- Gorham street, 310 feet south from Holland street.
 67 feet north from Howard street.
- Grand View avenue, 286 feet east from Vinal avenue.
- Granite street, 178 feet north from Somerville avenue.
- Grant street, 99 feet south from Mystic avenue.
 2 feet north from Derby street.
- Greene street, 295 feet south from Summer street.
- Greenville street, 148 feet north from Boston street.
 33 feet north from Munroe street.
- Grove street, 163 feet south from Highland avenue.
- Hall avenue, 310 feet east from College avenue.
 306 feet west from Liberty avenue.
 9 feet west from Liberty avenue.
- Hall street, 269 feet west from Cedar street.
- Hamilton road, 81 feet west from Russell road.
- Hamlet street, 321 feet south from Highland avenue.
- Hammond street, 30 feet west from Dickinson street.
- Hancock street, 258 feet south from Summer street.
- Hanson street, 12 feet south from Village street.
 9 feet south from Nevada avenue.
 6 feet south from Skehan street.
- Harold street, 42 feet north from Dimick street.

- Harrison street, 77 feet east from Kent street.
Harrison street (Ward 7), 4 feet east from Elmwood street.
Harvard street, 13 feet north from Atherton street.
23 feet north from Harvard place.
Hathorn street, 145 feet south from Broadway.
Hawkins street, 50 feet north from Lake street.
Hawthorne street, 8 feet east from Cutter avenue.
209 feet east from West street.
Heath street, 3 feet west from Temple street.
308 feet west from Langmaid avenue.
100 feet west from Bond street.
4 feet east from Fenwick street.
5 feet east from Moreland street.
Herbert street, 163 feet west from Chester street.
Highland avenue, 28 feet west from Hamlet street.
5 feet east from Walnut street.
262 feet west from Walnut street.
80 feet east from Vinal avenue.
47 feet west from Putnam street.
75 feet west from Prescott street.
114 feet west from School street.
410 feet west from School street.
112 feet west from Trull lane.
171 feet east from Central street.
214 feet east from Spring Hill terrace.
23 feet west from Spring Hill terrace.
26 feet west from Belmont street.
4 feet east from Tower street.
2 feet east from Porter street.
212 feet east from Cedar street.
63 feet east from Cherry street.
35 feet east from Hancock street.
4 feet west from Hancock street.
44 feet east from Willow avenue.
3 feet west from Willow avenue.
59 feet east from West street.
36 feet west from West street.
36 feet east from Grove street.
6 feet west from Grove street.
218 feet west from Grove street.
64 feet east from Davis square.
Highland road, 264 feet north from Morrison avenue
83 feet south from Frederick avenue.
175 feet north from Frederick avenue.
221 feet south from Boston avenue.
Hillsdale road, 92 feet north from Curtis avenue.
Hinckley street, 7 feet south from Fisk avenue.
12 feet south from Richardson street.
106 feet south from Broadway.
Holland street, 39 feet north from Dover street.
193 feet south from Winter street.
136 feet south from Buena Vista road.
5 feet south from Jay street.
3 feet south from Paulina street.
94 feet south from Claremon street.
Holyoke road (E.), 167 feet south from Elm street.
Holyoke road (W.), 185 feet south from Elm street.
Homer square, 200 feet west from Bonner avenue.
Hoaghton street, 82 feet west from Prospect street.

- Houghton street, 3 feet west from Bolton street.
 10 feet west from Oak street.
- Howard street, 36 feet west from Thorndike street.
- Howe street, 162 feet east from School street.
- Hudson street, 12 feet east from Waldo street.
 Opposite Benton road.
 294 feet east from Lowell street.
 10 feet west from Lowell street.
 356 feet west from Lowell street.
 675 feet west from Lowell street.
 364 feet east from Cedar street.
 24 feet east from Cedar street.
- Ibbetson street, 256 feet north from Somerville avenue.
 6 feet south from Kimball street.
- Illinois avenue, 221 feet north from Broadway.
- Indiana avenue, 178 feet north from Broadway.
- Irving street, 6 feet south from Broadway.
 285 feet south from Broadway.
 542 feet north from Holland street.
 190 feet north from Holland street.
- James street, 100 feet north from Pearl street.
- Jaques street, 10 feet west from Fellsway West.
 8 feet west from Grant street.
 360 feet east from Temple street.
 185 feet west from Temple street.
 410 feet east from Bond street.
- Jasper street, 5 feet south from Virginia street.
- Jay street, 82 feet north from Howard street.
- Joseph street, 100 feet west from Adrian street.
- Josephine avenue, 397 feet north from Morrison avenue.
 90 feet south from Frederick avenue.
 129 feet north from Frederick avenue.
 425 feet north from Frederick avenue.
 213 feet south from Broadway.
- Joy street, 34 feet south from Washington street.
 502 feet south from Washington street.
 271 feet north from Poplar street.
- Kenseson road, 12 feet south from Broadway.
- Kensington avenue, 6 feet north from Broadway.
 316 feet north from Broadway.
- Kent court, 205 feet west from Kent street.
- Kent street, 38 feet south from Somerville avenue.
 7 feet north from Kent court.
- Kidder avenue, 346 feet east from College avenue.
- Kilby street, 174 feet south from Somerville avenue.
- Kingman road, 282 feet south from Washington street.
- Kingston street, 95 feet west from Thorndike street.
- Knowlton street, opposite Morton street.
- Lake street, 220 feet west from Hawkins street.
 4 feet east from Carlton street.
- Landers street, 212 feet west from west line of School street.
- Langmaid avenue, 2 feet north from Broadway.
- Laurel street, 50 feet north from Greene street.
 8 feet north from Park place.
- Leland street, 14 feet south from Dane avenue.
- Leonard street, 26 feet north from Walker street.
- Lesley avenue, 57 feet north from Highland avenue.
- Lexington avenue, 244 feet west from Cedar street.
 200 feet east from Hancock street.

- Lexington avenue, 3 feet west from Hancock street.
4 feet east from Henry avenue.
- Liberty avenue, 3 feet north from Kidder avenue.
207 feet south from Mallet street.
12 feet north from Mallet street.
13 feet south from Broadway.
- Lincoln avenue, 206 feet west from Mt. Vernon street.
- Lincoln parkway, 150 feet west from Joseph street.
290 feet east from Wyatt street.
- Lincoln street, 38 feet south from Broadway.
174 feet north from Perkins street.
- Linden avenue, 118 feet south from Gilson terrace.
255 feet south from Olive avenue.
30 feet north from Olive avenue.
- Linden street, 31 feet north from Charlestown street.
237 feet south from Somerville avenue.
- Line street, 100 feet north from Smith avenue.
272 feet north from Cooney street.
100 feet south from Cooney street.
400 feet south from Cooney street.
- Linwood street, 385 feet south from Washington street.
12 feet north from Linwood terrace.
48 feet south from Lamson court.
125 feet north from London street.
52 feet south from London street.
2 feet south from Linwood place.
- London street, 383 feet east from Linwood street.
- Loring street, 276 feet north from Somerville avenue.
- Lovell street, 41 feet south from Electric avenue.
- Lowden avenue, 85 feet south from Broadway.
8 feet south from Mallet street.
178 feet north from Kidder avenue.
27 feet south from Kidder avenue.
- Lowell street, 1 foot north from Fisk avenue.
50 feet north from Richardson street.
183 feet south from Richardson street.
124 feet south from Wilton street.
Opposite Vernon street.
8 feet north from Albion street.
163 feet south from Highland avenue.
53 feet north from Crown street.
351 feet south from Summer street.
16 feet north from Kimball street.
313 feet north from Somerville avenue
- Madison street, 103 feet west from School street.
467 feet west from School street.
43 feet east from Sycamore street.
- Magnus avenue, 192 feet south from Washington street.
509 feet south from Washington street.
- Main street, junction with Broadway.
112 feet west from Edgar avenue.
5 feet west from Moreland street.
- Malloy court, 16 feet south from Somerville avenue.
- Malvern avenue, 146 feet west from Cameron avenue.
7 feet east from Yorktown street.
- Mansfield street, 190 feet north from Somerville avenue.
189 feet south from Washington street.
- Maple avenue, 294 feet east from School street.
- Maple street, 7 feet south from Jackson street.

- Maple street, 87 feet north from Poplar street.
Marion street, 31 feet south from Adrian street.
74 feet north from Wyatt street.
177 feet south from Wyatt street.
40 feet east from Dimick street.
Marshall street, 80 feet south from Stickney avenue.
30 feet north from Stickney avenue.
Opposite Howe street.
5 feet north from Evergreen avenue.
104 feet south from Mortimer place.
109 feet north from Oakland avenue.
Mason street, 69 feet north from Broadway.
Meacham road, 4 feet north from Orchard street.
97 feet north from Kingston street.
326 feet east from Lester terrace.
Meacham street, 14 feet west from Moreland street.
Mead street, 43 feet east from Claremon street.
Medford street, 50 feet north from Hennessey court.
56 feet north from Lowell street.
14 feet north from Glenwood road.
16 feet south from Bartlett street.
6 feet north from Central street.
19 feet south from Sycamore street.
15 feet south from Lee street.
46 feet south from Thurston street.
5 feet north from School street.
171 feet north from Marshall street.
266 feet north from Walnut street.
3 feet east from Walnut street.
291 feet south from Walnut street.
8 feet south from Greenville street.
13 feet north from Prospect Hill avenue.
240 feet south from Prospect Hill avenue.
Opposite Chester avenue.
37 feet south from Washington street.
216 feet south from Washington street.
307 feet north from Maple street.
69 feet north from Maple street.
6 feet south from Maple street.
21 feet north from Somerville avenue.
8 feet north from Somerville avenue.
27 feet south from Somerville avenue.
157 feet south from Somerville avenue.
172 feet south from Somerville avenue.
18 feet north from south line of Ward street.
91 feet south from Ward street.
46 feet south from South street.
17 feet south from Warren street.
220 feet south from Warren street.
Melrose street, 610 feet north from Mystic avenue.
Merriam street, 160 feet south from Washington street.
25 feet north from Charlestown street.
Michigan avenue, 258 feet north from Broadway.
Miller street, 300 feet west from Sacramento street.
Miner street, 137 feet north from Vernon street.
Minnesota avenue, 300 feet north from Broadway.
Mondamin court, 272 feet west from Ivaloo street.
Monmouth street, 7 feet west from Central street.
156 feet east from Harvard street.

- Montrose street, 10 feet east from Sycamore street.
 287 feet east from Sycamore street.
 259 feet west from School street.
- Moore street, 22 feet south from Holland street.
 335 feet south from Holland street.
 21 feet north from Mead street.
- Moreland street, 345 feet north from Meacham street.
 3 feet south from East Albion street.
- Morgan street, 125 feet west from Park street.
- Morrison avenue, 124 feet west from Cedar street.
 44 feet east from Pearson avenue.
 124 feet east from Rogers avenue.
 13 feet west from Newberne street.
 183 feet west from Clifton street.
 33 feet west from Grove street.
- Mossland street, 114 feet north from Somerville avenue.
- Mt. Pleasant street, 140 feet south from Broadway.
 135 feet north from Perkins street.
- Mt. Vernon street, 246 feet north from Washington street.
 8 feet north from Pearl street.
 7 feet south from Perkins street.
 11 feet south from Lincoln avenue.
 5 feet south from Broadway.
- Munroe street, 203 feet east from Walnut street.
 6 feet west from Bigelow street.
 289 feet west from Boston street.
- Murdock street, 204 feet east from Cedar street.
 610 feet east from Cedar street.
- Museum street, 174 feet west from Beacon street.
- Myrtle street, 218 feet north from Washington street.
 460 feet north from Washington street.
 74 feet south from Pearl street.
 219 feet north from Pearl street.
- Mystic avenue, 90 feet east from Union street.
 3 feet west from Union street.
 438 feet east from Austin street.
 115 feet east from Austin street.
 11 feet west from Fellsway West.
 60 feet west from Temple street.
 25 feet east from Melrose street.
 228 feet west from Melrose street.
 800 feet east from Moreland street.
 544 feet east from Moreland street.
 241 feet east from Moreland street.
 6 feet west from Moreland street.
 125 feet west from Fremont street.
- Mystic street, 148 feet north from Benedict street.
- Nashua street, 190 feet south from Wilton street.
- Newberne street, 62 feet south from Morrison avenue.
- Newbury street, 15 feet south from Holland street.
 260 feet south from Holland street.
 558 feet south from Holland street.
 777 feet south from Holland street.
 200 feet north from Cambridge line.
- New Hampshire avenue, 87 feet north from Pennsylv.
 74 feet south from Mystic avenue.
- Newton street, 9 feet west from Joseph street.
- Norfolk street, 27 feet south from Webster avenue.
 227 feet south from Webster avenue.

- North street, 18 feet north from Broadway.
 13 feet north from south line of Russell road.
 453 feet north from Raymond avenue.
 246 feet north from Bailey street.
 190 feet north from city bound No. 17.
- North Union street, 237 feet north from Mystic avenue.
- Oak street, 8 feet west from Prospect street.
 315 feet north from Houghton street.
- Oakland avenue, 109 feet west from Marshall street.
- Oliver street, 191 feet east from Cross street.
 15 feet east from Glen street.
 7 feet west from Franklin street.
- Orchard street, 8 feet west from Russell street.
 West corner Milton street.
 9 feet east from Chester street.
- Osgood street, 38 feet east from Granite street.
 19 feet east from Loring street.
- Ossipee road, 177 feet east from Curtis street.
 139 feet west from Packard avenue.
 246 feet east from Packard avenue.
 44 feet west from Mason street.
- Otis street, 12 feet west from Cross street.
 440 feet west from Cross street.
 9 feet east from Dana street.
 6 feet east from Wigglesworth street.
- Oxford street, 280 feet west from School street.
 46 feet east from Trull lane.
 237 feet west from Hersey street.
- Packard avenue, 164 feet south from Electric avenue.
 34 feet north from Electric avenue.
 35 feet south from Powder House boulevard.
- Park avenue, 83 feet west from College avenue.
 10 feet west from Chandler street.
- Park street, opposite Allen court.
 187 feet north from Beacon street.
 69 feet south from Somerville avenue.
- Partridge avenue, 5 feet south from Broadway.
 26 feet north from Medford street.
 117 feet south from Medford street.
 421 feet south from Medford street.
 276 feet north from Vernon street.
- Paulina street, 184 feet north from Holland street.
 288 feet south from Broadway.
 5 feet south from Broadway.
- Pearl street, 50 feet west from Crescent street.
 7 feet north from Pinckney street.
 29 feet east from Franklin street.
 Opposite Hillside avenue.
 15 feet west from Glen street.
 90 feet east from Cross street.
 3 feet east from Pearl terrace.
 6 feet west from Walnut street.
 72 feet east from Bradley street.
 110 feet east from Marshall street.
- Pearl-street place, 163 feet north from Pearl street.
- Pearson avenue, 309 feet north from Morrison avenue.
 44 feet south from Frederick avenue.
 308 feet north from Frederick avenue.

- Pearson road, 127 feet north from Broadway.
81 feet north from Warner street.
344 feet north from Warner street.
436 feet south from Dearborn road.
131 feet south from Dearborn road.
- Pembroke street, 14 feet east from Tennyson street.
- Pennsylvania avenue, 258 feet north from Broadway.
36 feet west from New Hampshire avenue.
- Perkins street, opposite Myrtle street.
78 feet east from Florence street.
24 feet east from Pinckney street.
56 feet east from Perkins place.
21 feet east from Mt. Pleasant street.
- Perry street, 324 feet south from Washington street.
- Pinckney street, 11 feet north from Washington street.
330 feet south from Pearl street.
71 feet south from Pearl street.
203 feet north from Pearl street.
- Pitman street, 180 feet west from Beech street.
- Pleasant avenue, 256 feet west from Walnut street.
- Poplar street, 21 feet west from Joy street.
22 feet east from Linwood street.
- Porter street, 1 foot north from Mountain avenue.
282 feet south from Summer street.
24 feet north from Williams court.
8 feet north from Parker place.
- Powder House boulevard, 133 feet northwest from Broadway.
560 feet northwest from Broadway.
319 feet east from Packard avenue.
191 feet west from Packard avenue.
172 feet east from Curtis street.
197 feet west from Curtis street.
528 feet west from Curtis street.
336 feet east from North street.
597 feet east from North street.
50 feet east from North street.
331 feet north from North street.
48 feet east from Leonard street.
- Prescott street, 330 feet south from Highland avenue.
586 feet south from Highland avenue.
257 feet north from Summer street.
- Preston road, 269 feet west from School street.
166 feet south from Summer street.
- Prichard avenue, 255 feet north from Morrison avenue.
46 feet north from Frederick avenue.
168 feet south from Boston avenue.
- Princeton street, 175 feet west from Lowell street.
- Professors row, 39 feet east from College avenue.
153 feet west from Boston avenue.
126 feet west from College avenue.
291 feet west from College avenue.
548 feet east from Packard avenue.
156 feet east from Packard avenue.
3 feet west from Packard avenue.
296 feet west from Packard avenue.
113 feet east from Curtis street.
- Prospect street, 135 feet north from Bennett street.
7 feet west from Webster avenue.
185 feet south from Oak street.

- Prospect street, 403 feet south from Oak street.
63 feet north from Houghton street.
- Prospect Hill avenue, 10 feet north from Munroe street.
- Putnam street, 116 feet south from Highland avenue.
420 feet south from Highland avenue.
612 feet north from Summer street.
308 feet north from Summer street.
46 feet north from Summer street.
- Quincy street, 91 feet north from Somerville avenue.
381 feet north from Somerville avenue.
26 feet south from Summer street.
- Radcliffe road, 1 foot west from James street.
- Raymond avenue, 728 feet west from Curtis street.
- Rhode Island avenue, 63 feet south from Mystic avenue.
80 feet north from Pennsylvania avenue.
- Richardson street, 11 feet west from Nashua street.
- Richdale avenue, opposite Thurston street.
- Robinson street, 325 feet west from Central street.
- Rogers avenue, 369 feet south from Broadway.
257 feet north from Frederick avenue.
88 feet south from Frederick avenue.
255 feet north from Morrison avenue.
- Rossmore street, 244 feet south from Washington street.
- Rush street, 84 feet south from Pearl street.
11 feet north from Pearl street.
128 feet north from Brook street.
- Russell road, 11 feet north from Broadway.
312 feet north from Broadway.
- Sacramento street, 5 feet south from Miller street.
123 feet south from Beacon street.
- Sanborn avenue, 55 feet east from Walnut street.
- Sargent avenue, 474 feet south from Broadway.
361 feet west from Walnut street.
95 feet west from Walnut street.
- Sawyer avenue, 25 feet west from Packard avenue.
- School street, 31 feet south from Oakland avenue.
100 feet south from Maple avenue.
6 feet south from Montrose street.
128 feet north from Highland avenue.
88 feet north from Oxford street.
15 feet north from Avon street.
100 feet south from Summer street.
93 feet south from Preston road.
61 feet north from Knapp street.
- Sewall street, 311 feet west from Grant street.
- Shawmut street, 9 feet west from Washington street.
153 feet west from Shawmut place.
- Simpson avenue, 272 feet south from Broadway.
142 feet north from Holland street.
- Skehan street, 110 feet east from Hanson street.
- Skilton avenue, on east entrance, 173 feet south from south line of Pearl street.
- Somerville avenue, 96 feet west from Acadia park.
188 feet west from Mossland street.
308 feet east from Mossland street.
600 feet east from Mossland street.
116 feet west from Elm street.
9 feet east from Ibbetson street.
77 feet east from Belmont street.

- Somerville avenue, 14 feet west from Garden court.
 133 feet west from Kent street.
 13 feet west from Beech street.
 11 feet east from Central street.
 2 feet west from Abdell street.
 15 feet west from Laurel street.
 86 feet west from Granite street.
 100 feet east from Granite street.
 76 feet east from Hawkins street.
 185 feet west from Hawkins street.
 88 feet west from Quincy street.
 105 feet east from Carlton street.
 90 feet west from Prospect street.
 28 feet west from Linden street.
 9 feet east from Merriam street.
 94 feet west from Mansfield street.
 126 feet east from Medford street.
 88 feet east from Poplar street.
 145 feet west from Congress place.
 13 feet east from Congress place on north side.
 313 feet east from Congress place on south side.
 882 feet west from East Cambridge line on south side, low level, under steps.
 803 feet west from East Cambridge line on south side, high level, near bridge.
 670 feet west from East Cambridge line on south side, high level.
 650 feet west from East Cambridge line on north side, low level.
 312 feet west from East Cambridge line.
 215 feet west from East Cambridge line.
 100 feet west from Cambridge line.
- South street, 97 feet west from Bedford street.
 2 feet east from Harding street.
 25 feet west from Hunting street.
 80 feet west from Willow place.
- Spencer avenue, 290 feet west from Cedar street.
 63 feet east from Hancock street.
- Spring street, 10 feet south from Pitman street.
 184 feet north from Atherton street.
- Spring Hill terrace, 333 feet south from Highland avenue
- Springfield street, 140 feet south from Concord avenue.
 21 feet south from Dickinson street.
 177 feet south from Houghton street.
- Stickney avenue, 212 feet west from Marshall street
- Stone avenue, 120 feet north from Union square.
 275 feet south from Columbus avenue.
- Summer street, 148 feet east from Cutter avenue
 Opposite Elston street.
 West corner Hancock street.
 34 feet east from Banks street.
 6 feet east from Cherry street.
 6 feet east from Cedar street.
 24 feet east from Linden avenue.
 Opposite Craigie street.
 35 feet east from Porter street.
 4 feet east from Lowell street.
 3 feet east from Belmont street.
 1 foot west from Spring street.

- Summer street, 53 feet west from Harvard street.
 215 feet east from Harvard street.
 59 feet east from Central street.
 19 feet west from Laurel street.
 52 feet west from Preston road.
 191 feet west from School street.
 8 feet east from School street.
- Summit avenue, 231 feet east from Vinal avenue.
- Sunnyside avenue, 99 feet west from Wigglesworth street.
- Sunset road, 238 feet west from Curtis street.
 119 feet east from Hillsdale road.
- Sycamore street, 18 feet south from Broadway.
 62 feet south from Browning road.
 1 foot south from Forster street.
 200 feet north from Medford street.
 174 feet south from Medford street.
- Sydney street, 418 feet east from Temple street.
- Talbot avenue, 488 feet east from Packard avenue.
- Taylor street, 14 feet south from Mystic avenue
- Teele avenue, 174 feet west from Packard avenue.
 201 feet east from Curtis street.
- Temple street, 4 feet north from Broadway.
 123 feet south from Sewall street.
 11 feet north from Jaques street.
 6 feet south from Derby street.
 5 feet south from Sydney street.
- Tenney court, 306 feet north from Mystic avenue.
- Tennyson street, 4 feet south from Medford street.
 117 feet north from Pembroke street.
- Thorndike street, 4 feet south from Holland street.
 82 feet north from Kingston street.
- Thorpe street, 269 feet south from Highland avenue.
- Thurston street, 187 feet north from Medford street.
 160 feet south from Evergreen avenue.
 6 feet north from Evergreen avenue.
 348 feet north from Evergreen avenue.
- Tower street, 18 feet north from Crown street.
- Tremont street, 9 feet south from Webster avenue.
 454 feet south from Webster avenue.
- Trull street, 3 feet south from Medford street.
 276 feet south from Medford street.
 522 feet north from Vernon street.
 270 feet north from Vernon street.
- Tufts street, 51 feet north from Washington street.
 150 feet south from Glen street.
 43 feet north from Glen street.
 53 feet south from Dell street.
 45 feet south from Cross street.
- Tyler street, 31 feet east from Vine street.
- Union square, 267 feet east from Webster avenue.
 15 feet east from Stone avenue.
 3 feet west from Bow street.
 Centre of square.
- Union street, 3 feet north from Broadway.
 123 feet south from Mystic avenue.
- Vermont avenue, 236 feet south from Mystic avenue.
- Vernon street, 72 feet west from Partridge avenue.
 1 foot east from Bartlett street.
 2 feet east from Miner street.

- Vernon street, 48 feet west from Central street.
Victoria street, 255 feet south from Broadway.
506 feet south from Broadway.
151 feet north from Woodstock street.
Villa avenue, 121 feet south from Winslow avenue.
Vinal avenue, 6 feet south from Highland avenue.
10 feet north from Pleasant avenue.
129 feet north from Aldersey street.
206 feet north from Summer street.
15 feet north from Summer street.
Vine street, 15 feet north from Beacon street.
Opposite Eliot street.
121 feet south from Tyler street.
32 feet south from Somerville avenue.
Virginia street, 45 feet west from Aldrich street.
Waldo street, 6 feet north from Highland avenue.
Walker street, 150 feet north from Broadway.
212 feet east from Leonard street.
Wallace street, 37 feet south from Broadway.
395 feet south from Broadway.
483 feet north from Park avenue.
166 feet north from Park avenue.
10 feet north from Holland street.
Walnut road, 268 feet west from Walnut street.
Walnut street, 88 feet south from Wellington avenue.
Opposite Radcliffe road.
87 feet north from Gilman street.
31 feet north from Pleasant avenue.
12 feet south from Boston street.
Walter street, 28 feet west from Walnut street.
50 feet west from Bradley street.
Ward street, 104 feet west from Medford street.
7 feet east from Emery street.
Ware street, 258 feet west from Curtis street.
638 feet west from Curtis street.
Warner street, 60 feet north from Broadway.
Warren avenue, 5 feet north from Sanborn avenue.
48 feet north from Bow street.
7 feet south from Columbus avenue.
Warwick place, 142 feet north from Warwick street.
Warwick street, 426 feet east from Cedar street.
Washington street, 69 feet west from Crescent street.
3 feet west from Waverley street.
West corner Mt. Vernon street.
3 feet west from Murray street.
6 feet west from Florence street.
15 feet west from Myrtle street.
2 feet east from Durant street.
18 feet east from Franklin avenue.
160 feet east from Franklin street.
58 feet west from Franklin street.
50 feet east from Shawmut street.
37 feet east from Rossmore street.
78 feet east from Boston street.
33 feet west from Boston street.
28 feet west from Mystic street.
6 feet west from Clark place.
156 feet west from Bonner avenue.
6 feet east from Kingman road.

- Washington street, 243 feet east from Parker street.
50 feet east from Bowdoin street.
15 feet east from Perry street.
9 feet east from Leland street.
112 feet east from Dane street.
175 feet west from Dane street.
45 feet east from Beacon street.
62 feet east from Line street.
- Water street, 91 feet north from South street.
254 feet north from South street.
354 feet north from South street.
- Waterhouse street, 24 feet south from Broadway.
326 feet south from Broadway.
630 feet south from Broadway.
- Waverley street, 171 feet south from Washington street.
- Webster avenue, 37 feet south from Washington street.
190 feet south from Everett street.
167 feet north from Prospect street.
14 feet south from Prospect street.
78 feet north from Tremont street.
3 feet north from Beach avenue.
1 foot south from Columbia court.
- Webster street, 25 feet east from Cross street.
9 feet east from Rush street.
Opposite Cutter street.
- Wellington avenue, 15 feet west from Montgomery avenue.
- Wesley street, 200 feet north from Pearl street.
- Wesley park, 16 feet north from Bow street.
335 feet north from Bow street.
- West street, 92 feet south from Highland avenue.
140 feet north from Highland avenue.
- West Adams street, 200 feet north from Conwell avenue.
480 feet north from Conwell avenue.
- Westminster street, 156 feet south from Electric avenue.
- Weston avenue, 196 feet south from Broadway.
- West Quincy street, 88 feet north from Bailey street.
- Westwood road, 90 feet west from Central street.
58 feet east from Benton road.
- Wheatland street, 129 feet north from Broadway.
9 feet south from Jaques street.
73 feet north from Derby street.
78 feet north from Mystic avenue.
- Whipple street, 101 feet north from Highland avenue.
- Whitfield road, 85 feet west from Packard avenue.
- Whitman street, 210 feet east from Packard avenue.
169 feet west from Mason street.
- Wigglesworth street, 14 feet north from Pearl street.
- William street, 8 feet east from Chandler street.
- Willoughby street, 146 feet west from Sycamore street.
- Willow avenue, 280 feet south from Summer street.
14 feet north from Summer street.
3 feet north from Lexington avenue.
46 feet south from Morrison avenue.
42 feet south from Fosket street.
85 feet south from Frederick avenue.
171 feet north from Frederick avenue.
Opposite Mallet street.
- Wilson avenue, 304 feet south from Broadway.
- Wilton street, 6 feet east from Nashua street.

- Wilton street, 8 feet west from Henderson street.
10 feet east from Hinckley street.
- Windom street, 7 feet south from Summer street.
- Windsor road, 86 feet east from Willow avenue.
45 feet west from Hancock street.
- Winslow avenue, 145 feet east from College avenue.
5 feet west from Grove street.
224 feet east from Grove street.
8 feet west from Clifton street.
- Winter street, 130 feet east from Holland street.
- Wisconsin avenue, 210 feet south from Pennsylvania avenue.
- Woodbine street, 222 feet west from Centre street.
- Woodstock street, 67 feet west from Victoria street.
- Wyatt street, 8 feet south from Taunton street.

List of Private Hydrants Supplied from the City of Somerville Mains.

John P. Squire & Co.	12
North Packing and Provision Co.	10
New England Dressed Meat and Wool Co.	6
Boston & Maine Railroad	14
Union Glass Works	1
Fresh Pond Ice Co.	1
American Tube Works	2
Middlesex Bleachery	8
Edison Electric Light Co.	1

Locations of Waterposts.

- 1—Albion street, 83 feet west from Centre street.
- 2—Appleton street, 49 feet west from Willow avenue.
- 3—Bartlett street, 26 feet south from Broadway.
- 4—Beacon street, 33 feet north from Concord avenue.
- 5—Beacon street, 135 feet east from Washington street.
- 6—Beacon street, 33 feet west from Vine street.
- 7—Beacon street, 94 feet east from Sacramento street.
- 8—Bolton street, opposite Baxter school.
- 9—Bonair street, 19 feet west from Wigglesworth street.
- 10—Bond street, 14 feet north from Broadway.
- 11—Boston avenue, opposite Prichard avenue.
- 12—Boston street, 107 feet west from Greenville street.
- 13—Broadway, 75 feet west from Fellsway East.
- 14—Broadway, 6 feet west from City road.
- 15—Broadway, 6 feet west from Irving street.
- 16—Broadway, 120 feet west from Clarendon avenue.
- 17—Cameron avenue, 6 feet north from Glendale avenue.
- 18—Cedar street, 96 feet south from Morrison avenue.
- 19—Central street, 89 feet north from Highland avenue.
- 20—Cherry street, 161 feet south from Fairlee street.
- 21—Cleveland street, 169 feet east from Harvard street.
- 22—Columbus avenue, 54 feet east from Walnut street.
- 23—Concord avenue, opposite Knapp school.
- 24—Cross street east, 64 feet north from Broadway.
- 25—Curtis street, 50 feet east from Professors row.
- 26—Dana street, 30 feet east from Pearl street.
- 27—Francesca avenue, 50 feet east from College avenue.
- 28—Franklin street, 127 feet south from Broadway.
- 29—Frederick avenue, 66 feet east from Willow avenue.
- 30—Gilman street, 63 feet east from Walnut street.
- 31—Grove street, 19 feet south from Highland avenue.

- 32—Horace street, 75 feet north from South street.
 33—Jaques street, 159 feet west from Grant street.
 34—Laurel street, 20 feet south from Summer street.
 35—Liberty avenue, 46 feet south from Broadway.
 36—Linwood street, 70 feet west from Poplar street.
 37—Lowell street, opposite Crown street.
 38—Lowell street, 34 feet north from Highland avenue.
 39—Lowell street, 102 feet north from Wilton street.
 40—Meacham road, 39 feet west from Dover street.
 41—Medford street, 20 feet north from South street.
 42—Medford street, 24 feet north from Highland avenue.
 43—Medford street, at Gilman square. In combination with drinking.
 44—Medford street, 19 feet east from Glenwood road.
 45—Montrose street, 204 feet west from School street.
 46—Moreland street, 28 feet north from Meacham street.
 47—Mt. Vernon street, 71 feet south from Broadway.
 48—Mystic avenue, 33 feet west from Union street.
 49—Orchard street, 107 feet west from Dover street.
 50—Otis street, 127 feet west from Cross street.
 51—Packard avenue, 55 feet southwest from Powder House boulevard.
 52—Paulina street, 26 feet east from Holland street.
 53—Pearl street, 28 feet east from Myrtle street.
 54—Pleasant avenue, 104 feet west from Walnut street.
 55—Prospect street, 30 feet north from Somerville avenue.
 56—Putnam street, 96 feet north from Summer street.
 57—School street, 116 feet south from Broadway.
 58—School street, 50 feet north from Berkeley street.
 59—Shawmut street, 74 feet north from Shawmut place.
 60—Somerville avenue, 871 feet west from East Cambridge line.
 61—Somerville avenue, 150 feet west from Congress place.
 62—Somerville avenue, 89 feet east from Mystic street.
 63—Somerville avenue, 119 feet west from School street.
 64—Somerville avenue, 35 feet east from Central street.
 65—Somerville avenue, 92 feet west from Kent street.
 66—Somerville avenue, 120 feet west from Oak square.
 67—Somerville avenue, 42 feet east from Mossland street.
 68—Summer street, 14 feet east from Belmont street.
 69—Summer street, 32 feet east from Cedar street.
 70—Summer street, 35 feet east from Cutter avenue.
 71—Sycamore street, 28 feet west from Medford street.
 72—Temple street, 31 feet north from Broadway.
 73—Tremont street, 120 feet south from Webster avenue.
 74—Vernon street, 45 feet west from Central street.
 75—Washington street, 96 feet west from Myrtle street.
 76—Washington street, 7 feet west from Boston street.
 77—Washington street, 34 feet west from Union square.
 78—Washington street, opposite Leland street.
 79—Wheatland street, 30 feet south from Mystic avenue.

Locations of Drinking Fountains.

Broadway, opposite park, near Fellsway East	C
Somerville avenue, near Prospect street	C
Union square, in front of Hill building	D I
Gilman square	D I
Gilman square	C
Cutter square	C
Davis square, in front of Medina building	D I
Teale square	C
Broadway, opposite City Field	C

D, drinking fountain ; I, ice water ; C, combination drinking fountain.

Summary of Statistics.

FOR THE YEAR ENDING DECEMBER 31, 1915.

In form recommended by the New England Water Works Association.

SOMERVILLE WATER WORKS.

SOMERVILLE, MIDDLESEX COUNTY, MASS.

GENERAL STATISTICS.

Population, census 1910, 77,236; present, estimated 87,000.

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, 87,000.

Estimated population on lines of pipe, 87,000.

Estimated population supplied, 87,000.

Total consumption for the year, 2,119,578,000 gallons.

Average daily consumption, 5,807,100 gallons.

Gallons per day to each inhabitant, 67.

STATISTICS RELATING TO DISTRIBUTION SYSTEM, 1915.**MAINS.**

Kind of pipe, cast-iron.

Sizes, from 4-inch to 20-inch.

Laid 8,239 feet; discontinued 0 feet; net extension, 8,239 feet.

Total now in use, 101.25 miles.

Number of leaks per mile, .13.

Number of hydrants added during year (public, 23; private, 1), 24.

Number of hydrants (public and private) now in use, 1,214.

Number of stop gates added during year, 54.

Number of stop gates now in use, 1,682.

Number of blow-offs, 173.

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, 8,015 feet.

Total now in use, 86.63 miles.

Number of service taps added, 208; discontinued, 9; net increase, 199.

Number now in use, 13,233.

Number of meters added, 734; discontinued, 78; net increase, 656.

Number now in use, 9,155.

Percentage of services metered, 69.

Percentage of receipts from metered water, 73.

Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 5 (included in number of meters).

FINANCIAL STATISTICS.

REVENUE.		EXPENDITURES.	
From Water Rates:—		Water Works Maintenance:—	
Fixture rates	\$61,263.93	Operation (management, repairs	
Meter rates	165,777.20	and renewals)	\$38,068.84
Total from consumers	<u>\$227,041.13</u>	Special:—	
From other sources:—		Miscellaneous accounts	3,551.98
Water service assessments	4,094.23		
Labor and materials	5,091.99	Total maintenance	\$41,620.82
		Interest on bonds	1,040.00
		Payment of bonds	5,000.00
		Water Works Construction:—	
		Mains	\$16,793.20
		Services	4,615.38
		Meters	4,596.23
		Total construction	\$26,004.81
		Unclassified expenses:—	
		Metropolitan water assessment	110,781.34
		Balance:—	
		Ordinary	51,780.38
		Total balance	51,780.38
Total	<u>\$236,227.35</u>	Total	<u>\$236,227.35</u>

Disposition of balance: applied to municipal purposes.
 Cost of works to date \$1,021,574.45
 Bonded debt at date 21,000.00
 Average rate of interest, 4 per cent.

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT

OFFICE OF CHIEF OF FIRE DEPARTMENT, }
Somerville, Mass., February 9, 1916. }

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, 1915:—

Alarms of Fire.

Number of bell alarms	261
Number of still alarms	383
Total alarms	644
Number less than 1914	61
Value of buildings at risk	\$714,825 00
Insurance on buildings	495,150 00
Damage to buildings	45,989 15
Value of contents	179,300 00
Insurance on contents	154,300 00
Damage to contents	26,419 53
Total value at risk	894,125 00
Total insurance	649,450 00
Total damage	72,408 68

List of Probable Causes.

Automobiles	6
Awning fires	3
Bonfires	7
Burning decorations in fireplace	1
Burning rubbish	4
Children playing with matches	21
Cigars, cigarettes and pipes	25
Closet fires	13
Combustion	6
Defective chimneys	9
Defective gas fixtures	2
Dropping lighted match on floor	5
Electric car	2
Electric wires	6
False alarms	29
Fire cracker on roof	6
Fire in Cambridge	4
Fire in Charlestown	2
Fire in Medford	7
Gas iron on bench	1
Gas range	1
Grass in dump	7
Gasoline in tailor shop	1
Grease on stove	2
Hot ashes in wooden receptacles	11
Incendiary	11
Kerosene in boiler of clothes	1
Leaking gas	3
Lightning	1
Carried forward	197

Brought forward	197
Light and smoke mistaken for fire	5
Overturnd lamp and heater	15
Plumber's furnace	2
Plumber's torch	1
Rats and matches	2
Smoke from stove	4
Snap match	5
Spark in sawdust bin	1
Spark from locomotive	12
Static electricity	1
Steam mistaken for fire	1
Tar kettle	5
Thawing water pipe	1
Unknown	9
	<hr/>
	261

Service of Companies in Fire Department, Year 1915.

	Engine 1.	Engine 2.	Engine 4.	Engine 6.	Hose 2.	Hose 3.	Hose 5.	Hose 7.	Ladder 1.	Ladder 2.	Ladder 3.	Totals.
Bell alarms responded to	206	124	102	39	86	125	85	96	121	98	52	261
Still alarms responded to	56	30	10	63	52	60	19	46	13	10	24	383
Miles traveled	542	270½	195	124½	413	172	296	249½	130	204	69	2,665½
Feet of 2½ inch hose used	16,000	8,650	8,550	9,600	12,300	13,000	7,350	13,950	. . . . .	. . . . .	. . . . .	89,400
Feet of chemical hose used	14,400	. . . . .	. . . . .	2,250	2,500	13,250	11,600	14,000	. . . . .	. . . . .	5,000	63,000
Feet of ladders used	80	. . . . .	40	. . . . .	. . . . .	. . . . .	290	18	2,420	2,791	986	6,625
Chemical extinguishers used	18	10	14	3	28	. . . . .	9	35	18	2	7	144
Gallons of chemical used	2,280	. . . . .	. . . . .	744	750	1,575	1,602	2,385	. . . . .	. . . . .	1,001	10,337
Times on duty at other stations . . . . .	. . . . .	1	. . . . .	3	2	. . . . .	1	. . . . .	. . . . .	. . . . .	1	8
Times responded out of town	11	16	. . . . .	28	14	22	3	. . . . .	3	. . . . .	. . . . .	97

In Memoriam

JOHN B. RUFER

Hoseman

Engine Co. No. 4

Appointed May 22, 1895

Died September 29, 1915

Manual Force.

During the year two (2) men have resigned, and one (1) has died and three (3) have been placed upon the retired list; three (3) permanent men have been appointed from the eligible list of the classified service, and three (3) callmen have been promoted to the permanent force under Chap. 487, Acts of 1913. The force of the department now consists of seventy-six (76) permanent and eighteen (18) callmen, as follows:—

- 1 Chief Engineer.
- 1 First Assistant Engineer.
- 1 Second Assistant Engineer.
- 7 Captains.
- 11 Lieutenants.
- 4 Enginemen.
- 4 Assistant Enginemen.
- 47 Permanent men.
- 18 Callmen.

Apparatus.

The department apparatus consists of the following:—

- 1 Second size, horse drawn steam fire engine.
- 2 Third size, horse drawn steam fire engines.
- 3 Horse drawn combination chemical engine and hose wagons.
- 2 Horse drawn hose wagons.
- 1 Horse drawn combination ladder truck and chemical engine.
- 1 Horse drawn ladder truck.
- 1 Motor driven ladder truck.
- 3 Motor driven combination chemical engine and hose wagons.
- 1 Second size tractor drawn steam fire engine.
- 1 Motor driven supply and wrecking wagon.
- 1 Automobile Chief's car.
- 1 Automobile Assistant Chief's car.
- 2 Four wheel buggies for Assistant Chiefs.
- 1 Horse drawn relief hose wagon.
- 1 Horse drawn relief ladder truck.
- 7 Exercising wagons.
- 1 Supply wagon.

Horses.

There are twenty-nine (29) horses in the department, two (2) having been disposed of during the year; one (1) horse was transferred to the Highway department, and one (1) horse 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 950 feet of new hose, and 1,250 feet condemned. There must be at least 1,000 feet purchased the coming year.

Brief Resume.

The total fire loss this year is less than one-third of that of last year, due perhaps, not wholly but in part, to the very strong movement towards fire prevention.

The loss during the first four months was more than one-half the total loss of the year as is shown by the following table giving the losses by months:—

January	\$4,195 00
February	11,395 00
March	9,408 00
April	11,714 00
May	1,645 48
June	3,496 50
July	5,573 75
August	10,837 00
September	647 00
October	1,447 00
November	8,204 12
December	3,845 83
	\$72,408 68

There have been but fifteen fires with an insurance loss exceeding \$1,000, as follows:—

January 21, 12.35 A. M. Box 336, 39 Adams street, dwelling owned by Tranquilloni Lambiese; damage to building, \$2,560; to contents, \$350. Cause, incendiary.

February 5, 12.09 A. M. Box 229, 179 Beacon street, car barns owned by Boston Elevated Railway Company and occupied by Central Laundry Co.; damage to building, \$3,000; to contents, \$3,000. Cause, unknown.

February 5, 12.20 A. M. Box 411, 51 Elm street, dwelling owned by E. J. Paul; occupants, Charles E. Duffy and Mrs. Dora Mason; damage to building, \$1,400; to contents, \$800. Cause, rats and matches.

March 6, 11.31 A. M. Box 446, 96 Orchard street, dwelling owned and occupied by Arthur L. England; damage to building, \$2,580; to contents, \$1,000. Cause, carelessness with lighted candle.

March 25, 12.33 A. M. Box 12, 42 Linwood street, dwelling and stable owned by Jacob Blumsack and Abram Greenberg; occupants, W. F. O'Gara and Jacob Blumsack; damage to buildings, \$453; to contents, \$573. Cause, incendiary.

March 29, 11.35 P. M. Box 156, 22 Mystic avenue, unoccupied shed owned by Mrs. R. Rahmann; damage to building, \$1,000. Cause, incendiary.

April 16, 10.26 P. M. Box 37, 500-500a Broadway, block of stores and tenements owned by J. A. Walker; occupants, Sam Lieberman, Harry G. Strout, Morris Silverman, Bernard

Elitov, Samuel Haffe and G. Vagnato; damage to building, \$3,300; to contents, \$3,258. Cause, incendiary.

April 21, 11.54 A. M. Box 324, 26-28 Temple street, dwelling owned by James McKenna; occupants, James McKenna and Fred McCann; damage to building, \$945; to contents, \$560. Cause, defective stove pipe.

June 2, 2.15 A. M. Box 426, 134 Albion street, stable and shed owned and occupied by Nangle Bros.; damage to building, \$500; to contents, \$500. Cause, dropping lantern.

July 27, 8.48 P. M. 119 Linwood street, a second alarm was sounded for this fire; barrel and kindling wood sheds, owned by M. F. Carroll; occupants, W. J. Carroll and H. Garabidian; damage to buildings, \$1,400; to contents, \$2,300. Cause, careless smoker.

August 3, 10.36 P. M. Box 25, 6-6½ Union square, stores owned by City Suburban Associates; occupants, Joseph Meyerson, John Cerullo and J. DiSassa; damage to building, \$2,190; to contents, \$1,325. Cause, unknown.

August 31, 11.42 A. M. Box 23, Windsor street (Boynton Yard), stable owned by Henry M. Putney, occupied by Whipple & Co.; damage to building, \$4,400; to contents, \$1,157. Cause, unknown.

November 3, 5.56 P. M. Box 212, a second alarm was sounded for this fire, Boynton Yard, stable owned by H. J. Bushway, occupants Bushway Ice Cream Co., Acton Farms Milk Co. and Jacob Andelman; damage to building, \$2,955.62; to contents, \$1,757. Cause, unknown.

November 6, 12.47 A. M. Box 219, 55a Springfield street, stable owned by L. Levy, occupied by W. B. Vincent; damage to building, \$400; to contents, \$950. Cause, unknown.

December 30, 3.25 A. M. Box 324, 67 Derby street, stable owned by J. O'Shaughnessy, occupied by A. Scallie & Son; damage to building, \$1,200; to contents, \$800. Cause, careless smoker.

Children playing with matches have again contributed largely towards the fire loss of the year. This cause of fires can and should be stopped; parents take every precaution to keep from the child every ordinary thing about the home that might injure him, but criminally leave lying about matches that can and do cause painful and not infrequently fatal injuries as well as the destruction of the home.

Careless smokers contributed to one-sixth of the total loss for the year; how much more of the loss from the unknown causes is due to this class of incendiaries is hard to estimate. All mercantile establishments should prohibit smoking on the premises and enforce it.

Defective chimneys and ashes in wooden receptacles are an ever present source of danger, and effective ordinances should be enacted to eliminate this class of fires.

The number of false alarms has doubled over the previous year, with no known reason or excuse therefor. It is true that some of these alarms are sounded by irresponsible children, and their parents should be held strictly accountable for same; but those sounded by criminals, for such they are, should have every effort put forth to apprehend them and be prosecuted to the full extent of the law.

Early in the year a new running card was compiled and a new disposition of the apparatus was made so that at every alarm there shall be two engines, one ladder truck and at least two combination hose and chemical engines; on all schoolhouse boxes there will be two ladder trucks. This arrangement brings to every alarm sufficient apparatus to handle any ordinary fire.

In July a contract was made with the Ahrens-Fox Fire Engine Company of Cincinnati, Ohio, to furnish a chassis, the fitting up, equipping and finishing to be done in the department's machine shop, when completed to be assigned to the Marshall street station at Winter Hill. This piece of apparatus should have been in service not later than November 1st, but owing to labor troubles at the factory in Cincinnati, delivery was not made until December 21st, thereby throwing forward into the coming year its completion and installation.

Late in the year a Cadillac roadster was purchased for the first assistant chief, thereby removing the last horse from the Central Fire station; with the installation of the new motor combination at the Marshall street station at Winter Hill, four of the eight stations will be fully motorized.

The very foundation upon which the fire department stands is the fire alarm. This branch of the service is being completely revolutionized by the abandonment of the old system, which has been in service practically twenty years, and the installation of the best known apparatus, which is the last word of perfection of up-to-date systems; furthermore it is to be removed from its present location of hazardous exposure to a thoroughly constructed and equipped fireproof building, thereby insuring to us for all time a safe and sure fire alarm.

Recommendations.

The fire department is rapidly approaching its maximum strength and efficiency; as has been said, the apparatus in four of the eight stations has been completely motorized with the best class of equipment obtainable; when the department is fully motorized, which should be done as rapidly as the finances of city will allow, we will have a department of the greatest efficiency maintained at the minimum of expense, as the records of the department show by comparison that

motor-driven machines cost one-half to two-thirds less to maintain than the horse-drawn apparatus.

I recommend the immediate purchase of a motor pumping engine for Engine No. 2 station, corner Broadway and Cross street, to replace the horse-drawn steam fire engine that has been in service more than twenty-five years, being of insufficient capacity and of an obsolete type; this change would release five horses.

The many changes in and the instability of the insurance rates this year calls for a thorough and complete investigation; I would suggest that the Board of Trade and the other civic bodies give this matter their immediate attention and inquire into the reasons therefor, inasmuch as the fire loss is so materially less, this department is so rapidly improving its efficiency with new fire alarm, new apparatus, enlargement of the permanent force and its building regulations relative to incombustible roof coverings and increased distances between buildings of the "three decker" type.

In Conclusion.

The marked decrease in the fire loss and the reduction of alarms is an evidence of the willingness of the people of Somerville to subscribe to the new fire prevention regulations; fire prevention is hardly more than in the experimental stage, but the results thus far have been so encouraging that the problem of teaching the public its responsibility is not so great a one as was anticipated.

Not the least of praise is due to the officers and members of the department for their vigilance and promptness in the performance of their duties and I wish to thank them for their co-operation; I also desire to express my appreciation and thanks to his Honor, the Mayor, and the Board of Aldermen for their courtesy and confidence.

Respectfully submitted,

SEWALL M. RICH,
Chief Engineer.

REPORT OF THE CHIEF OF POLICE.

OFFICE OF THE CHIEF OF POLICE, }
CITY OF SOMERVILLE, February 10, 1916. }

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

Gentlemen,—I herewith respectfully submit for your consideration the annual report as chief of police, giving in detail the amount of work performed by the police department for the year ending December 31, 1915:—

Arrests.

Whole number of arrests made	1,623
With and without warrants	1,374
On summons and notification	249
	1,623
Males	1,538
Females	85
	1,623
Americans	1,080
Foreign born	543
	1,623
Residents	1,011
Non-residents	612
	1,623

1.—Crimes and Offenses Against the Person.

Assaults	3
Assault on officers	2
Assault with dangerous weapon	3
Assault with intent to murder	3
Assault and battery	93
Manslaughter	3
Murder	1
Rape	2
Rape, attempt	1
Robbery	4
Threats	4
	119

2.—Crimes and Offenses Against Property.

Breaking and entering	75
Breaking and entering, attempt	1
Breaking and entering railroad car	9
Breaking glass, wantonly	1
Conspiring to extort money	1
Destroying street lamp	1
Fraudulent sale of horse	1
Interfering with railroad signal	1
Larceny	160
Larceny from person	1
Larceny in building	3
Leased property, concealment of	1
	255
Carried forward	255

Brought forward	255
Malicious mischief	1
Receiving stolen goods	4
Trespass	55
Unlawful appropriation of horse	3
Unlawfully using electricity	1

319

3.—Crimes and Offenses Against Public Order, etc.

Admitting minors to pool room	1
Adultery	4
Bail surrender	5
Begetting woman with child	13
Capias	6
Carrying revolver without license	3
City ordinances, violation of	58
Contempt of court	1
Cruelty to animals	3
Default	5
Desertion of minor child	1
Disorderly conduct on public conveyance	2
Disturbing the peace	5
Doing business without filing certificate with city clerk	1
Drunkenness	603
Drunkenness, common	15
Escape from Lyman School	3
Escape from Middlesex County Training School	1
Escape from Working Boys' Home	2
False measure, in possession of	1
Fraudulently soliciting and settling claims	1
Gaming house, keeping	1
Gaming, and present when implements were found	25
Giving false alarm of fire	2
Giving false weight of ice	1
Idle and disorderly	4
Indecent exposure of person	5
Interfering with motorman in discharge of duties	2
Lewd cohabitation	6
Lewdness	3
Neglected children	11
Neglect of family	114
Neglect to support illegitimate children	5
Obscene pictures, in possession of	1
Peddling without certificate of registration	1
Peddling without license	1
Perjury	2
Polygamy	1
Practicing medicine without being registered	1
Runaway boy	1
Safe keeping, appealed sentence	1
Safe keeping, delirium tremens	2
Safe keeping, demented	7
Safe keeping, feeble minded	2
Safe keeping, inebriate	1
Carried forward	934

Brought forward	934
Safe keeping, infirm	1
Safe keeping, insane	2
Safe keeping, runaway boys	6
Safe keeping, runaway from custody of State Board of Charity	1
Selling horse unfit for labor	2
Selling peas by dry measure	1
Sodomy	1
Stubbornness	9
Unlawfully attempting to ride on freight cars	19
Unlawfully riding on freight cars	27
Unnatural act	1
Unsealed dry measure, in possession of	1
Using U. S. mails in scheme to defraud	1
Vagrants	2
Throwing missiles at railroad train	1
Violation of board of health regulation	1
Violation of cigarette law	1
Violation of labor laws	7
Violation of liquor laws	14
Violation of Lord's Day	71
Violation of milk laws	16
Violation of motor vehicle laws	32
Violation of parole	6
Violation of terms of probation	25
Violation of school law	1
Walking on railroad track	1
Witness to murder	1

 1,185

Recapitulation.

(1) Crimes and Offenses Against the Person	119
(2) Crimes and Offenses Against Property	319
(3) Crimes and Offenses Against Public Order, etc.	1,185

Whole number of arrests made		1,623
Bailed to appear at other courts	9	
Cases in which nolle prosequi was entered	25	
Contempt of court	1	
Delivered to jail at East Cambridge, bail surrender, etc.	4	
Delivered to police court, Somerville, violation probation, default, etc.	22	
Delivered to superior court, bail surrender and perjury	2	
Defaulted in police court, Somerville	4	
Dismissed in police court, Somerville	5	
Released by probation officer, drunkenness	88	
Released by officer in charge	1	
Surrendered to other officers, institutions, etc.	106	
Witness to murder	1	

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 Number of cases held for trial 1,355

Note.—Two hundred and nine of the above number of cases were juveniles and delinquents.

Miscellaneous Reports.

Abandoned child	1
Accidental poisoning	2
Alien taken in charge	1
Accidents reported	303
Amount of property reported stolen	\$13,030.37
Amount of stolen property recovered	10,978.87
Amount of stray teams found	775.00
Amount of property reported lost	1,051.90
Amount of lost property recovered	168.00
Amount of property damaged	70.00
Assaults	27
Attempts to break and enter	56
Attempt to break and enter, false alarm of	1
Attempts to commit larceny	11
Attempts to commit suicide	8
Attempts to rob	5
Breaking and entering, false alarms of	8
Broken rails on Boston Elevated Railway	5
Buildings broken and entered, nothing stolen	37
Buildings dangerous	4
Buildings found open	398
Cats killed	4
Cellars flooded	3
Chimney blown down	1
Counterfeit money passed	1
Cruelty to animals	3
Cruelty to child	1
Dead bodies found	4
Dead horses found	2
Defective bill board	1
Defective bridges	14
Defective buildings	3
Defective cable boxes	2
Defective catch basins	24
Defective curb stone	1
Defective drinking fountains	5
Defective electric lights	5
Defective fences	8
Defective fire escape	1
Defective fire alarm box	1
Defective gas gate boxes	2
Defective hydrants	4
Defective manholes and covers	13
Defective poles	7
Defective police signal boxes and service	7
Defective sewer	1
Defective sidewalks	530
Defective signs and sign posts	59
Defective streets	206
Defective subways	5
Defective water gate boxes	48
Defective water service	1
Defective wires	39
Demented persons cared for	2
Destitute families	2
Disturbances	21
Disturbances suppressed	9
Dogs killed	21

Dogs, vicious	4
Electric street lamps broken	11
Escaped inmate from state insane hospital located	1
Fire alarm box, found open	1
Fire, alarms given for	9
Fire, danger of	2
Fires extinguished without alarm	2
Fires, false alarms of	25
Fire, needless alarms for	6
Fires reported	249
Fraud	2
Gaming reported	1
Heat prostrations	2
Horse shot and killed	1
Houses unoccupied	55
Indecent exposure of person	12
Inmate returned to Home for Aged	1
Larcenies, no value given	122
Larcenies	485
Lodgers put up	5
Lost children	169
Lost children found	169
Malicious mischief	38
Missiles thrown at railroad trains	10
Missing persons	30
Missing persons found	23
Neglected child	1
Obstructions on sidewalks	9
Obstructions in streets	16
Obstructions in streets, lighted	5
Obstruction in street, removed	1
Panes of glass broken	50
Permits to labor on Lord's Day	90
Persons bitten by dogs	13
Persons helped home	2
Person overcome by gas	1
Poisoning cases	3
Property damaged, no value given	4
Property destroyed	5
Property lost, no value given	36
Property found, no value given	59
Runaway boys found	3
Runaway children reported	8
Runaway children found	13
Runaways from Home for Feeble Minded	2
Runaway horse stopped	1
Runaway teams reported	6
Runaway teams stopped	2
Sidewalks dangerous from snow and ice	138
Stray Angora cats	2
Stray Angora cat found	1
Stray cow found	1
Stray bullet fired	1
Stray dogs reported	76
Stray dogs found	34
Stray horses	5
Stray horses found	7
Stray teams reported	11
Stray teams found	7
Streets and sidewalks flooded	10

Streets dangerous	2
Streets dangerous from snow and ice	12
Street lights reported	3,076
Subways flooded	12
Sudden deaths	6
Suicides	6
Suicide threatened	1
Summonses served for witnesses and defendants to appear in court at other places	245
Suspicious persons	184
Threats	4
Trees dangerous	80
Trespass	29
Unlawful appropriation of automobiles	4
Unlawful appropriation of team	1
Vicious dogs	4
Violation of automobile laws	2
Violation of city ordinances	110
Violation of drug law	1
Violation of Lord's Day	5
Violation of railroad law	1
Violation of board of health rules	8
Violation of United States postal law	1
Water pipes leaking	110
Windows broken	29

Police Signal Service.

Number of on duty reports made by the patrolmen	253,126
Telephone calls made by the officers and patrolmen	35,690

Combination Automobile Service.

Number of runs made in conveying prisoners to station	745
Number of prisoners conveyed	891
Number of sick and injured conveyed	504
Number of miles run in conveying prisoners to station	1,499.3
Number of miles run in conveying sick and injured	1,325.5
Number of miles run in conveying prisoners to and from jail	448.3
Number of miles run elsewhere	1,257.6
Total number of miles run during the year	4,530.7

Horse Drawn Patrol Wagon and Horse Drawn Ambulance Reports.

Number of runs made in conveying prisoners to station	117
Number of prisoners conveyed	141
Number of miles run in conveying prisoners to station	203½
Number of sick and injured conveyed	493
Number of miles run in conveying prisoners to and from jail	501
Number of miscellaneous runs	32

REPORT OF POLICE MATRON.

January 1, 1916.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1915. The following females and minor children have been committed to my care during the year who were arrested or brought to police station.

Adultery	2
Assault and battery	6
Bail surrender	1
Demented	3
Desertion	1
Drunkenness	41
Larceny	8
Lascivious conduct	1
Lewd cohabitation	3
Lost children	12
Neglected children	5
Neglect to support parent	4
Receiving stolen goods	1
Stubbornness	4
Trespass	2
Unlawful sale of liquor	3
Witness	1
Total	<hr/> 98

I have been called to the station 122 times in addition to the above, attended to making of beds and have attended court on Saturday mornings, looking after the juveniles, etc.

Respectfully submitted,

MRS. MINA T. WEEKS,
Matron.

Official Roster of Department.**CHIEF OF POLICE.**

Charles A. Kendall

CAPTAIN.

Robert R. Perry

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—Jotham Chisholm
 10—William J. Davidson
 11—Elmer E. Drew
 12—John A. Dadmun
 13—George L. Rice
 14—Myron 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. Mulqueaney
 37—Patrick J. Doolin
 38—Edward J. Hopkins
 39—Walter L. Groves
 40—Frederick G. Jones
 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

RESERVEMEN.

65—Thomas M. Sharry
 66—Michael J. O'Loughlin
 67—Charles W. Shepherd
 68—John F. Cruise
 69—Edward G. Butman

70—John P. L. O'Keefe
 71—John J. Shay
 72—Thomas F. J. Long
 73—Alfred E. Robitaille
 74—Allan S. Burns

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.

George W. Bean,	July 2, 1902	Herbert Hilton,	Dec. 21, 1911
Albion L. Staples,	Mar. 24, 1905	Ezra A. Dodge,	Mar. 14, 1914
John E. Fuller,	Mar. 23, 1906	George H. Carleton,	Mar. 27, 1914
Ira S. Carleton,	May 9, 1907	Edward McGarr,	Apr. 10, 1914
James J. Pollard,	Feb. 27, 1908	Frederick H. Googins,	Mar. 12, 1915
Melville C. Parkhurst,	Oct. 31, 1908		

Location of Police Signal Boxes.**CIRCUIT NO. 1.**

Box No. 12—Highland avenue, corner School street.
 “ “ 13—Central street, at R. R. bridge.
 “ “ 14—Evergreen avenue, near Thurston street.
 “ “ 112—Magoun square.
 “ “ 113—Highland avenue, corner Lowell street.
 “ “ 114—Cedar street, corner Summer street.
 “ “ 121—Cedar street, at R. R. crossing.
 “ “ 122—Elm street, near Willow avenue.
 “ “ 123—Highland avenue, corner Willow avenue.
 “ “ 124—Dover street, near Davis square.
 “ “ 131—Powder House square.
 “ “ 132—Broadway, corner Rogers avenue.
 “ “ 133—Gorham street, at Carr's Factory.
 “ “ 134—Teele square.
 “ “ 141—Curtis street, opposite Professors Row.
 “ “ 142—Broadway, opposite City Home.
 “ “ 143—Conwell avenue, corner West Adams street.

CIRCUIT NO. 2.

Box No. 21—Walnut street, opposite Munroe street.
 “ “ 22—Highland avenue, corner Medford street.
 “ “ 23—Medford street, at Gilman square.
 “ “ 24—Dana street, near Pearl street.
 “ “ 211—Broadway, corner Walnut street.
 “ “ 212—Broadway, corner Cross street.
 “ “ 213—Broadway, corner Franklin street.
 “ “ 214—Lincoln street, corner Perkins street.
 “ “ 221—Broadway, corner Mt. Pleasant street.
 “ “ 222—Mystic avenue, corner Mystic street.
 “ “ 223—Mystic avenue, corner Fellsway West.
 “ “ 224—Mystic avenue, corner Temple street.
 “ “ 231—Temple street, near Broadway.
 “ “ 232—Broadway, opposite Main street.
 “ “ 233—Meacham street, corner Fremont street.

CIRCUIT NO. 3.

- Box No. 31—Somerville avenue, corner Allen street.
 “ “ 32—Somerville avenue, corner Medford street.
 “ “ 33—Medford street, corner Warren street.
 “ “ 34—South street, corner Water street.
 “ “ 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.
 “ “ 323—Washington street, opposite Mt. Vernon street.

CIRCUIT NO. 4.

- Box No. 41—Somerville avenue, near Dane street.
 “ “ 42—Park street, at R. R. Crossing.
 “ “ 43—Central street, corner Summer street.
 “ “ 44—Somerville avenue, near Kent street.
 “ “ 411—Kent street, corner Beacon street.
 “ “ 412—Somerville avenue, at Oak square.
 “ “ 413—Beacon street, opposite Oxford street.
 “ “ 414—Clark street, at Lincoln park.
 “ “ 421—Union square.
 “ “ 422—Webster avenue, corner Prospect street.
 “ “ 423—Columbia street, corner Conlon court.
 “ “ 424—Springfield street, opposite Houghton street.
 “ “ 431—Beacon street, opposite Concord avenue.
 “ “ 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.

Changes in the Force.**DEATH.**

Dennis Kelley, ex-lieutenant, retired, died August 6, 1915.

APPOINTMENTS.

Charles W. Shepherd, appointed reserveman, April 8, 1915.
 John F. Cruise, appointed reserveman, April 8, 1915.
 Edward G. Butman, appointed reserveman, April 22, 1915.
 John P. L. O'Keefe, appointed reserveman, April 22, 1915.
 John J. Shay, appointed reserveman, April 22, 1915.
 Thomas F. J. Long, appointed reserveman, April 22, 1915.
 Alfred E. Robitaille, appointed reserveman, April 22, 1915.
 Allan S. Burns, appointed reserveman, May 27, 1915.
 Bridget A. Fitzpatrick, appointed assistant matron, August 18, 1915.

PROMOTIONS, ETC.

Robert R. Perry, retired June 26, 1914, re-instated as captain by order of court on March 30, 1915.
 Patrolman William G. Kenney, promoted to sergeant, April 8, 1915.
 Patrolman Frank H. Graves, promoted to sergeant, April 8, 1915.
 Patrolman James M. Lynch, promoted to sergeant, April 8, 1915.
 Patrolman Ernest Howard, promoted to sergeant, April 8, 1915.
 Reserveman Daniel J. Powers, promoted to patrolman, March 11, 1915.

- Reserveman Jeremiah O'Connor, promoted to patrolman, March 11, 1915.
 Reserveman James P. Higgins, promoted to patrolman, April 24, 1915.
 Reserveman Charles E. Wilson, promoted to patrolman, April 24, 1915.
 Reserveman William J. Warner, promoted to patrolman, April 24, 1915.
 Reserveman Timothy Buckley, promoted to patrolman, April 24, 1915.
 Reserveman John J. Killourhy, promoted to patrolman, April 24, 1915.
 Reserveman Charles J. Sharry, promoted to patrolman, April 24, 1915.

RETIREMENT.

Patrolman Frederick H. Googins, placed on pension roll, March 12, 1915.

Financial Statement.

Appropriation	\$107,000 00
Receipts, Refund from Robert R. Perry account 1914	470 50
Receipts, Refund from pension account..	2,008 16
Transfer from other accounts.....	1,250 00
	<hr/>
	\$110,728 66

Expenditures.

Weekly pay rolls to December 31, 1915.....	\$105,674 70
Robert R. Perry, check.....	1,285 47
Departmental expenses	3,449 10
Transfer, Highway Maintenance account ..	290 50
" City Clerk account	1 00
	<hr/>
	\$110,700 77
Balance	<hr/>
	\$27.89

Performance of Duties.

During the past year there has been a new route established in the western part of the city known as No. 22, which required the services of two more patrolmen; a new signal box No. 143 has been installed at Conwell avenue, corner of West Adams street; one patrolman was retired, four patrolmen promoted to sergeants, eight reservemen promoted to patrolmen, eight reservemen and an assistant matron were appointed. The officers have all performed their duties well and the city has been orderly.

Recommendations.

I wish to renew my former recommendations for the purchase of automobiles and think that a trial of the use of automobiles for patrol purposes in some sections of the city instead of increasing the number of patrolmen would

prove to be of much value. The automobile could be used both day and night manned with a chauffeur and officer and car equipped with safety appliances. It would be possible to cover a larger area and more often than an officer on foot could do. This system has been worked out to advantage in some of the larger western cities and is in the line of progress, for the citizen of today who requires the services of the police expects a prompt response to his summons.

There should be some suitable provision made for the storage of valuable books and papers.

The traffic problem is a difficult one to properly solve and much thought is being given this subject everywhere on account of the increasing use of the automobile. More officers should be detailed for this important duty.

Conclusion.

To the Mayor, Honorable Zebedee E. Cliff, I wish to express my thanks for his support of all good work performed and for his interest in strengthening the department, as far as the finances of the city would allow. To the officers, patrolmen, reservemen and matrons, heads of all departments, court officials and newspaper men my thanks are extended.

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, 1916. }

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

The following report of the sealer of weights and measures for the year 1915 is respectfully submitted:—

Section 21, chapter 62, of the Revised Laws provides that 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 34 of the same chapter provides that 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.

Where weights, measures and balances are sealed as provided in Section 21 (that is, brought to the office), no fee is charged for sealing.

In compliance with the foregoing Section 21, the customary notice was given by advertising in the Somerville papers in March, 1915.

During the year the sealer visited all places in the city where goods were bought or sold, tested all scales, weights and measures, sealed those which were found correct, and condemned all found beyond repair and useless.

200 scales, weights and measures were adjusted before sealing, sixty-five scales were tagged for repairs, thirty-six of which were repaired as ordered, and the remaining twenty-nine put out of use, 1,408 weights and measures were condemned.

Work done in weights and measures during the year 1915:—

	No. of Tests Made at Office.	No. of Tests Made out of Office.	
Number of scales sealed	644	1,588	
Number of weights sealed	824	4,094	
Number of dry measures scaled	64	85	
Number of tin liquid measures sealed	7,453	829	
Number of glass liquid measures sealed	144	0	
Number of yard sticks sealed	2	156	
Number of coal and berry baskets sealed	0	0	
Number of miscellaneous sealed	2	242	
Number of store weighings	0	1,852	
	<hr/>	<hr/>	
Total number of all kinds sealed	9,133	8,846	17,979
Number of scales adjusted and sealed	18	20	
Number of weights adjusted and sealed	70	90	
Number of dry measures adjusted and sealed	0	0	
Number of liquid measures adjusted and sealed	0	2	
	<hr/>	<hr/>	
Total number adjusted and sealed	88	112	200
Number of scales tagged for repairs	32	32	
Number of scales repaired as ordered	17	12	
	<hr/>	<hr/>	
Total number tagged and repaired	49	44	93
Number of scales condemned	7	6	
Number of weights condemned	26	9	
Number of dry measures condemned	8	6	
Number of liquid measures condemned	1,341	3	
Number of yard sticks condemned	0	2	
Number of miscellaneous condemned	0	0	
	<hr/>	<hr/>	
Total number condemned	1,382	26	1,408
			<hr/>
Total number tested in and out of office			19,680
Receipts for the year 1915:—			
Appropriation	\$2,600 00		
Fees received for sealing and adjusting	543 84		
	<hr/>		\$3,143 84
Expenditures for the year 1915:—			
Telephone service	\$14 20		
Printing books and supplies	126 01		
Auto maintenance	437 29		
Amount paid for helper	15 33		
Salary of sealer	1,100 00		
Salary of deputy sealer	900 00		
	<hr/>		\$2,592 83
			<hr/>
Unexpended balance			\$550 96

JOHN H. DUSSEAULT,
Sealer of Weights and Measures.

REPORT OF THE CITY SOLICITOR.

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

The following is my report as city solicitor for the year 1915:—

Actions in court and claims for injuries received by reason of defects in public ways were settled for \$75, \$75, \$75, \$100, \$100, \$100, \$225, \$266, \$300, \$300, \$300, \$400, \$1,350 and \$2,300. The last mentioned settlement was for the loss of an eye.

Four actions brought to secure the abatement or repayment of taxes assessed on personal property and another for the abatement of a tax on real estate were adjusted with small expense to the city.

In an action relating to the retirement on a pension of a member of the police department the supreme court decided that the provisions of Chapter 624 of the Acts of the Legislature for the year 1911 applied to such retirement.

A settlement was made with the owner of an undivided part of land in Maple street taken by the city for school-house purposes in the year 1911. The delay in reaching a settlement has been due to the inability of the owners of various undivided parts to agree among themselves about the division of the total sum to be paid by 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 exceptions of the company not having been allowed as yet by the Court. Negotiations are in progress for an adjustment of claims by the railroad company on which actions have been brought for damages to parcels of real estate at several crossings.

An act was secured from the Legislature appropriating \$35,000 for the construction of a parkway at Alewife Brook from Powder House boulevard in this city to Massachusetts avenue in Cambridge. An act was passed for the apportionment of the cost of reconstructing Wellington Bridge over Mystic River between this city and Medford. An attempt by the Town of Reading to secure legislation joining the town to the North Metropolitan Sewerage District was successfully opposed. The cost to the city of such legislation would be probably about thirty thousand dollars.

Representatives of many of the cities and towns in the Metropolitan Park District endeavored to come to an agreement for the apportionment of the expenses of the district by

an act of the Legislature, but without success. Proceedings were held before commissioners appointed by the Supreme Court to make an apportionment of expenses for the next five years and an apportionment of the cost of reconstructing Wellington Bridge under the act above mentioned.

Very respectfully,

FRANK W. KAAH,

City Solicitor.

REPORT OF THE CITY CLERK.

OFFICE OF THE CITY CLERK, }
January 1, 1916. }

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

Gentlemen,—The following is respectfully submitted as the forty-fourth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1915.

The receipts and payments were as follows:—

Receipts.

Balance from year 1914, being for dog licenses issued in December, 1914:—			
6 males at \$2.00	\$12 00		
5 females at \$5.00	25 00		
		\$37 00	
Less city clerk's fees paid to the city treasurer in December, 1914, 11 at \$20		2 20	
			\$34 80
For dog licenses issued in 1915:—			
1,077 males at \$2.00	\$2,154 00		
208 females at \$5.00	1,040 00		
91 spayed at \$2.00	182 00		
1 breeder's at \$25	25 00		
			\$3,401 00
Recording mortgages, assignments, etc., 1,063 papers		\$643 65	
Certificates of marriage intentions, 1,010 at \$1.00		1,010 00	
Furnishing copies of records		164 65	
Licenses:—			
Amusements:—			
77½ monthly licenses at \$4.00	\$310 00		
328 licenses for 354 entertainments at \$1.00	354 00		
1 merry-go-round license for 18 entertainments at \$1.00	18 00		
		682 00	
Auctioneers, 22 licenses at \$2.00		44 00	
Billiard and pool tables and bowling alleys, 40 licenses for 114 tables and 80 alleys at \$2.00	388 00		
1 license for 2 tables paid in 1914	4 00		
		384 00	
Cry goods and calling, 102 licenses at \$1.00	\$102 00		
5 applied for and petitions not returned	5 00		
		107 00	
Amounts carried forward		\$3,035 30	\$3,435 80

Amounts brought forward		\$3,035 30	\$3,435 80
Drain layers, 7 licenses at \$1.00		7 00	
Drivers, 2 licenses at \$1.00		2 00	
Engines and motors, 17 licenses, for 62 motors, 1 gasoline engine and 1 steam engine, at \$1.00		17 00	
Gasoline tanks, 41 licenses at \$1.00	\$41 00		
1 license granted in 1913, paid in 1915	1 00		
			42 00
Garages, 142 licenses at \$2.00	\$284 00		
2 refused and money not called for	4 00		
2 licenses granted in 1914, paid in 1915	4 00		
	\$292 00		
3 refunds on 1913 licenses and 1 on 1914 license, 4 at \$2.00	8 00		
			284 00
Hackney carriages, 6 licenses for 6 carriages at \$1.00		6 00	
Innholders and common vic- tualisers, 39 licenses for 1 innholder and 38 victual- lers, at \$2.00	\$78 00		
1 refused and money not called for	2 00		
			80 00
Intelligence offices, 10 licenses at \$2.00		20 00	
Junk and second-hand li- censes, 30 licenses at 10.00	\$300 00		
6 licenses at \$25.00	150 00		
1 applied for and petition not returned	10 00		
			460 00
Lord's Day, sale of ice cream, confectionery, soda water and fruit on, 80 licenses at \$5.00	\$400 00		
1 refused and money not called for	5 00		
			405 00
Private detectives, 3 licenses at \$10.00		30 00	
Ring bells in streets, 13 licenses at \$1.00		13 00	
Slaughtering, 8 licenses at \$1.00		8 00	
Street musicians, 13 licenses for 20 per- sons at \$.50		10 00	
Wagons, 56 licenses for 97 wagons at \$1.00		97 00	
Wagon stands, 2 licenses at \$1.00		2 00	
Permits for projections over sidewalks, 109 permits, for 107 signs and 2 awn- ings at \$1.00	\$109 00		
Amounts carried forward	\$109 00	\$4,518 30	\$3,435 80

Amounts brought forward	\$109 00	\$4,518 30	\$3,435 80
1 refused and money not called for	1 00		
1 1914 permit paid in 1915	1 00		
	<hr/>		
	\$111 00		
1 refund on 1914 permit	1 00		
	<hr/>	110 00	
Permits to transport liquors, 22 permits at \$1.00	\$22 00		
3 refunds on 1914 permits	3 00		
	<hr/>	19 00	
Filing certificate, under Acts of 1908, Chap. 502, 2 at \$.50		1 00	
Repairing and sale of junk badges		2 00	
Notices of hearings (public service corporations)		31 96	
Revenue tax stamps		30 30	
Interest on deposits		13 65	
Witness fees		3 25	
		<hr/>	\$4,729 46
Total receipts			<hr/> <hr/> \$8,165 26

Payments.

To Joseph O. Hayden, county treasurer, June 1 and December 1, receipts for dog licenses from December 1, 1914, to November 30, 1915, both inclusive:—			
1,075 males at \$2.00		\$2,150 00	
213 females at \$5.00		1,065 00	
91 spayed at \$2.00		182 00	
1 breeder's at \$25.00		25 00	
		<hr/>	
		\$3,422 00	
Less city clerk's fees, 1,380 at \$.20		276 00	
		<hr/>	\$3,146 00
To the city treasurer, monthly:—			
City clerk's fees for issuing and recording dog licenses, 1,377 at \$.20		\$275 40	
All the receipts above specified, except for dog licenses		4,729 46	
		<hr/>	5,004 86
Total payments			<hr/> \$8,150 86
Balance, January 1, 1916, being for dog licenses issued in December, 1915:—			
8 males at \$2.00		\$16 00	
Less city clerk's fees paid to the city treasurer, 8 at \$.20		1 60	
		<hr/>	\$14 40

There have been issued during the year 324 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, \$324.00,

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	4
Newsboys	21
To hold open-air meetings	6
To hold circus, etc.	1
To parade in streets, with music, etc.	4
To hold religious services in streets and squares	6
To give band concerts (one permit for eight concerts)	1
To move buildings through streets	2
To construct sidewalk hoist	1
To erect post for church directional sign	1
To use bowling green	1
To sing Christmas carols in streets	2

Births.**1915.**

Number of births reported by physicians and midwives for 1915:—

Males	984
Females	932

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 1915 will be given in the city clerk's report for the year 1916.

1914.

The following is a statement in full of the births for 1914:—

Number of births (exclusive of still-births) in Somerville	
in 1914 registered	1,992
More than previous year	122
Males	975
Females	1,017
	<hr/>
	1,992

Born of American parents	767	
Born of foreign parents	771	
Born of American father and foreign mother	193	
Born of foreign father and American mother	247	
Born of American mother and father of unknown nationality	8	
Born of foreign mother and father of unknown nationality	6	
	<hr/>	1,992
Number of still-births in Somerville in 1914 as registered		63
Number of births in other places in 1914 registered		373
		<hr/>
		2,428
Number of cases of twins		20

Marriages.

Number of intention certificates issued in 1915		1,010
More than previous year		54
Marriages registered		1,028
More than previous year		24
Both parties American	574	
Both parties foreign	209	
American groom and foreign bride	119	
Foreign groom and American bride	126	
	<hr/>	1,028 couples
First marriage of	1,861	
Second marriage of	185	
Third marriage of	8	
Fourth marriage of	2	
	<hr/>	1,028 couples

Deaths.

(Exclusive of still-births.)

Number of deaths in Somerville in 1915		1,003
More than previous year		13
Males	473	
Females	530	
	<hr/>	1,003
Under ten years of age	224	
10 and under 20 years of age	23	
20 and under 30 years of age	42	
30 and under 40 years of age	70	
40 and under 50 years of age	91	
50 and under 60 years of age	120	
60 and under 70 years of age	169	
70 and under 80 years of age	170	
80 and under 90 years of age	80	
90 years of age and over	14	
	<hr/>	1,003

Age of oldest person deceased	99 years	
Born in Somerville	224	
Born in other places in the United States	449	
Of foreign birth	329	
Birthplace unknown	1	
	<hr/>	1,003
Number of deaths in January	107	
“ “ “ “ February	94	
“ “ “ “ March	82	
“ “ “ “ April	106	
“ “ “ “ May	71	
“ “ “ “ June	60	
“ “ “ “ July	76	
“ “ “ “ August	76	
“ “ “ “ September	77	
“ “ “ “ October	69	
“ “ “ “ November	81	
“ “ “ “ December	104	
	<hr/>	1,003

The number of still-births recorded during the year was sixty-eight. In addition to the above, 246 deaths which occurred elsewhere and two 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.

WARD.	PRECINCT.	As- sessed Polls, April 1, 1915.	REGISTERED VOTERS.							
			Nov. 18, 1914.	Re- vised Lists of July 1, 1915.	Added in Sept. and Oct., 1915.	Oct. 13, 1915.	Added in Nov., 1915.	Nov. 24, 1915.	Voted Nov. 2, 1915.	Voted Dec. 14, 1915.
Ward 1	Precinct 1 . . .	1,364	686	619	92	711	14	725	567	499
" 1	" 2	767	369	342	67	409	2	411	348	283
" 1	" 3	500	299	269	13	282	5	287	225	213
" 1	" 4	711	297	273	8	281	13	294	257	247
		3,342	1,651	1,503	180	1,683	34	1,717	1,397	1,242
Ward 2	Precinct 1 . . .	1,145	440	403	20	423	18	441	370	227
" 2	" 2	1,665	730	648	69	717	19	736	606	305
" 2	" 3	821	367	336	35	371	21	392	312	156
		3,631	1,537	1,387	124	1,511	58	1,569	1,288	688
Ward 3	Precinct 1 . . .	1,273	815	743	41	784	10	794	664	556
" 3	" 2	1,190	691	634	50	684	7	691	604	512
		2,463	1,506	1,377	91	1,468	17	1,485	1,268	1,068
Ward 4	Precinct 1 . . .	1,313	778	686	43	729	2	731	605	284
" 4	" 2	1,205	708	639	43	682	8	690	571	272
		2,518	1,486	1,325	86	1,411	10	1,421	1,176	556
Ward 5	Precinct 1 . . .	1,305	770	723	52	775	12	787	657	472
" 5	" 2	1,075	608	576	58	634	3	637	530	356
" 5	" 3	1,008	602	547	64	611	5	616	514	372
		3,388	1,980	1,846	174	2,020	20	2,040	1,701	1,200
Ward 6	Precinct 1 . . .	1,803	913	840	70	910	6	916	748	318
" 6	" 2	1,436	745	682	101	783	0	783	657	323
" 6	" 3	1,198	709	659	90	749	1	750	651	319
		4,437	2,367	2,181	261	2,442	7	2,449	2,056	960
Ward 7	Precinct 1 . . .	953	639	596	87	683	1	684	600	384
" 7	" 2	1,223	720	645	89	734	1	735	644	375
" 7	" 3	1,374	751	706	90	796	5	801	692	405
" 7	" 4	1,502	767	737	163	900	4	904	799	468
		5,052	2,877	2,684	429	3,113	11	3,124	2,735	1,632
City		24,831	13,404	12,303	1,345	13,648	157	13,805	11,621	7,346

WOMEN'S VOTING LISTS.

WARD.	PRECINCT.	Nov. 18, 1914.	Revised Lists of July 1, 1915.	Added in Sept. Oct. and Nov., 1915.	Nov. 24, 1915.	Voted Decem- ber 14, 1915.
Ward 1	Precinct 1 . .	48	41	17	58	44
" 1	" 2 . .	19	16	8	24	21
" 1	" 3 . .	15	15	11	26	19
" 1	" 4 . .	40	36	34	70	60
		122	108	70	178	144
Ward 2	Precinct 1 . .	3	3	1	4	..
" 2	" 2 . .	8	6	..	6	..
" 2	" 3 . .	9	9	..	9	..
		20	18	1	19	..
Ward 3	Precinct 1 . .	189	171	7	178	124
" 3	" 2 . .	133	122	14	136	104
		322	293	21	314	228
Ward 4	Precinct 1 . .	85	61	9	70	13
" 4	" 2 . .	130	109	4	113	19
		215	170	13	183	32
Ward 5	Precinct 1 . .	217	201	42	243	153
" 5	" 2 . .	157	134	42	176	99
" 5	" 3 . .	169	156	89	245	182
		543	491	173	664	434
Ward 6	Precinct 1 . .	316	269	6	275	12
" 6	" 2 . .	96	83	5	88	2
" 6	" 3 . .	111	96	5	101	15
		523	448	16	464	29
Ward 7	Precinct 1 . .	39	37	4	41	5
" 7	" 2 . .	114	104	12	116	19
" 7	" 3 . .	66	60	6	66	12
" 7	" 4 . .	27	22	6	28	6
		246	223	28	251	42
City . . . . .	. . . . .	1,991	1,751	322	2,073	909

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 2, 1915:—

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
GOVERNOR.									
Nelson B. Clark,	Progressive Party,	20	12	20	24	23	34	55	188
Walter S. Hutchins,	Socialist,	14	13	8	10	16	35	33	129
Samuel W. McCall,	Republican,	595	208	706	728	923	1,150	1,863	6,173
Peter O'Rourke,	Socialist Labor,	5	4	2	0	2	5	3	21
William Shaw,	Prohibition,	72	21	79	80	100	124	200	676
David I. Walsh,	Democratic,	681	1,017	445	330	622	704	573	4,372
Blank,		10	13	8	4	15	4	8	62
LIEUTENANT-GOVERNOR.									
Edward P. Barry,	Democratic,	609	943	395	267	544	610	438	3,806
Calvin Coolidge,	Republican,	677	263	778	800	1,021	1,294	2,057	6,890
Alfred H. Evans,	Prohibition,	35	12	36	55	60	62	117	377
James Hayes,	Socialist Labor,	7	7	4	1	2	12	6	39
Chester R. Lawrence,	Progressive - Party								
	{ Citizens Nom.								
	{ Paper,	17	10	14	17	21	25	40	144
Samuel P. Levenberg,	Socialist,	14	17	9	7	16	26	31	120
Blank,		38	36	32	29	37	27	46	245
SECRETARY.									
Edwin A. Grosvenor,	Democratic,	582	923	397	261	543	618	431	3,755
Albert P. Langtry,	Republican,	687	263	781	801	1,027	1,289	2,085	6,933
Thomas J. Maher,	Socialist Labor,	6	9	4	8	10	15	7	59
Marion E. Sproule,	Socialist,	18	15	13	8	21	31	40	146
Willard O. Wylie,	Prohibition,	36	10	31	47	42	51	99	316
Blank,		68	68	42	51	58	52	73	412
TREASURER.									
Henry L. Bowles,	Democratic,	574	927	388	266	539	603	435	3,732
Charles L. Burrill,	Republican,	689	256	786	793	1,037	1,309	2,080	6,950
Charles E. Fenner,	Socialist,	18	19	14	10	25	32	35	153
William E. Marks,	Prohibition,	40	8	30	42	37	45	90	292
Jeremiah P. McNally,	Socialist Labor,	6	9	2	5	4	9	8	43
Blank,		70	69	48	60	59	58	87	451
AUDITOR.									
Alonzo B. Cook,	Republican,	705	270	782	803	1,009	1,314	2,081	6,965
James W. Holden,	Socialist Labor,	6	8	4	4	6	7	10	45
Henry C. Iram,	Socialist,	21	23	12	11	20	32	33	152
Jacob C. Morse,	Democratic,	552	894	378	247	550	588	429	3,638
William G. Rogers,	Prohibition,	28	10	34	42	49	42	82	287
Blank,		84	83	58	69	67	73	100	534

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
ATTORNEY-GENERAL.									
Henry C. Attwill,	Republican,	718	278	799	837	1,059	1,341	2,133	7,165
Frank Auchter,	Prohibition,	32	10	34	40	47	46	92	301
Joseph Joyce Donahue,	Democratic,	547	892	372	237	515	575	384	3,522
John McCarthy,	Socialist,	22	17	12	10	21	34	36	152
William Taylor,	Socialist Labor,	7	7	4	2	1	7	8	36
Blank,		71	84	47	50	58	53	82	445
COUNCILLOR, Fourth District.									
Herbert P. Wasgatt,	Republican,	767	403	867	907	1,147	1,417	2,201	7,709
Blank,		630	885	401	269	554	639	534	3,912
SENATOR, 3RD MIDDLESEX DIST.									
James J. Brennan,	Democratic,	566	912	391	259	532	593	410	3,663
Charles W. Eldridge,	Republican,	722	282	821	838	1,063	1,357	2,172	7,255
Blank,		109	94	56	79	106	106	153	703
REPRESENTATIVES, 25TH DIST. (3)									
William M. Armstrong,	Republican,	716	....	810	790	1,035	....	....	3,351
Harvey E. Frost,	Republican,	732	....	772	819	1,029	....	....	3,352
William W. Kennard,	Republican,	723	....	726	787	992	....	....	3,228
Henry C. Rowland,	{ Independent Citizens,	511	...	458	247	522	....	....	1,738
Wm. F. Riley,		....	....	....	....	1	....	....	1
Blank,		1,509	....	1,038	885	1,524	....	....	4,956
REPRESENTATIVES, 26TH DIST. (3)									
James A. Dwyer,	Democratic,	....	851	....	....	....	550	362	1,763
William P. French,	Republican,	....	307	....	....	....	1,318	2,169	3,794
Arthur D. Healey,	Democratic,	....	777	....	....	....	524	306	1,607
Joseph O. Knox,	Republican,	....	247	....	....	....	1,285	2,030	3,562
Joseph H. Perry,	Republican,	....	251	....	....	....	1,234	1,969	3,454
Louis E. Rose,	Democratic,	....	765	....	....	....	541	929	1,635
Blank,		....	666	....	....	....	716	1,040	2,422
COUNTY COMMISSIONER.									
Alfred L. Cutting,	Republican,	690	257	768	777	998	1,257	1,995	6,742
John Lathrop Dyer,	{ Republican Reform Nom. Paper	18	11	28	30	39	65	107	298
George A. Goodwin,	Progressive Party,	31	24	48	36	39	71	143	392
Michael M. O'Connor,	Democratic,	494	844	330	201	460	508	294	3,131
William H. Walsh,	{ Democratic Citizens Nom. Paper.	40	36	26	29	39	41	17	228
Blank,		124	116	68	103	126	114	179	830
COUNTY TREASURER.									
DeWitt Clinton Clapp,	{ Republican Citi- zens Nom. Paper	45	27	64	43	68	75	153	475
Joseph O. Hayden,	Republican,	708	283	763	811	1,027	1,282	2,060	6,934
David A. Keefe,	{ Progressive Party, Democratic,	489	795	346	210	462	548	330	3,180
Blank,		155	183	95	112	144	151	192	1,032
SHERIFF.									
John J. Donovan,	Democratic,	511	792	319	230	502	545	343	3,242
John R. Fairbairn,	Republican,	749	367	877	840	1,067	1,374	2,187	7,461
Blank,		137	129	72	106	132	137	205	918

	WARDS.							TOTAL.
	1	2	3	4	5	6	7	
SHALL THE PROPOSED AMENDMENT TO THE CONSTITUTION, EMPOWERING THE GENERAL COURT TO AUTHORIZE THE TAKING OF LAND TO RELIEVE CONGESTION OF POPULATION AND TO PROVIDE HOMES FOR CITIZENS BE APPROVED AND RATIFIED?								
Number of "Yes" votes,	891	806	809	749	1,093	1,371	1,754	7,473
Number of "No" votes,	223	189	255	217	349	384	530	2,147
Blank,	283	293	204	210	259	301	451	2,001
SHALL THE FOLLOWING PROPOSED AMENDMENT TO THE CONSTITUTION, ENABLING WOMEN TO VOTE, BE APPROVED AND RATIFIED?								
Number of "Yes" votes,	492	382	500	466	645	762	1,140	4,387
Number of "No" votes,	778	741	692	636	938	1,177	1,440	6,402
Blank,	127	165	76	74	118	117	155	832
SHALL THE FOLLOWING PROPOSED AMENDMENT TO THE CONSTITUTION RELATIVE TO THE TAXATION OF INCOMES AND THE GRANTING OF REASONABLE EXEMPTIONS, BE APPROVED AND RATIFIED?								
Number of "Yes" votes,	764	728	780	664	1,067	1,318	1,690	7,011
Number of "No" votes,	287	230	265	265	353	373	539	2,312
Blank,	346	330	223	247	281	365	506	2,298

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
WARD ALDERMEN (2) WARD 2.									
Maurice F. Ahearn,	Democratic,	...	491	....	....	....	....	....	491
Robert C. Harris,	Democratic,	...	488	....	....	....	....	....	488
Mr. Burke,		....	1	....	....	....	....	....	1
Blank,		....	396	....	....	....	....	....	396
WARD ALDERMEN (2) WARD 3.									
Charles M. Austin,	Republican,	....	....	752	....	....	....	....	752
John M. Webster,	Republican,	....	....	768	....	....	....	....	768
John J. Murphy,		....	....	1	....	....	....	....	1
Blank,		....	....	615	....	....	....	....	615
WARD ALDERMEN (2) WARD 4.									
Arthur N. Richardson,	Republican,	....	....	....	453	....	....	....	453
Walter H. Snow,	Republican,	....	....	....	450	....	....	....	450
Blank,		....	....	....	209	....	....	....	209
WARD ALDERMEN (2) WARD 5.									
William J. Bell,	Republican,	....	....	....	....	761	....	....	761
William J. Ennis,	Democratic,	....	....	....	....	353	....	....	353
Hermon A. Fleming,	Republican,	....	....	....	....	727	....	....	727
Edward C. Monahan,	Democratic,	....	....	....	....	351	....	....	351
Blank,		....	....	....	....	208	....	....	208
WARD ALDERMEN (2) WARD 6.									
Warren C. Blair,	Republican,	....	....	....	....	732	....	....	732
James A. Dwyer,	Democratic,	....	....	....	....	210	....	....	210
Joseph J. Pincus,	Republican,	....	....	....	....	715	....	....	715
John E. Niles,		....	....	....	....	1	....	....	1
Blank,		....	....	....	....	262	....	....	262
WARD ALDERMEN (2) WARD 7.									
Austin M. Pinkham,	Republican,	....	....	....	....	....	1,378	....	1,378
Almon W. Preble,	Republican,	....	....	....	....	....	1,408	....	1,408
Lee S. McCollisten,		....	....	....	....	....	1	....	1
Blank,		....	....	....	....	....	477	....	477
SCHOOL COMMITTEE (2 yrs.) WARD 1.									
George L. Doherty,	Democratic,	649	....	....	....	....	....	....	649
James J. Rudd,	Republican,	676	....	....	....	....	....	....	676
Blank,		62	....	....	....	....	....	....	62
SCHOOL COMMITTEE (2 yrs.) WARD 2.									
Daniel H. Bradley,	Democratic,	....	489	....	....	....	....	....	489
Mr. Musgrave,		....	1	....	....	....	....	....	1
Blank,		....	198	....	....	....	....	....	198
SCHOOL COMMITTEE (2 yrs.) WARD 3.									
Henry G. Doyle,	Republican,	....	....	560	....	....	....	....	560
George E. Whitaker,	{ Republican In-	....	....	714	....	....	....	....	714
Blank,	{ dependent,	....	....	22	....	....	....	....	22

CANDIDATE.	PARTY.	WARDS.							TOTAL.
		1	2	3	4	5	6	7	
SCHOOL COMMITTEE (2 yrs.) WARD 4.									
Meddie W. Brown,	Democratic,	....	....	....	92	....	....	....	92
Harry A. Stone,	Republican,	....	....	....	470	....	....	....	470
Blank,		....	....	....	26	....	....	....	26
SCHOOL COMMITTEE (2 yrs.) WARD 5.									
David J. Kelley,	Democratic,	....	....	....	....	667	....	....	667
Harry M. Stoodley,	Republican,	....	....	....	....	935	....	....	935
Blank,		....	....	....	....	32	....	....	32
SCHOOL COMMITTEE (2 yrs.) WARD 6.									
Guy E. Healey,	Republican,	....	....	....	....	....	797	....	797
George E. Whitaker,		....	....	....	....	....	1	....	1
Blank,		....	....	....	....	....	191	....	191
SCHOOL COMMITTEE (2 yrs.) WARD 7.									
Frank E. Porter,	Republican,	....	....	....	....	....	1,498	....	1,498
William N. Kenney,		....	....	....	....	....	1	....	1
Blank,		....	....	....	....	....	175	....	175
SHALL LICENSES BE GRANTED FOR THE SALE OF INTOXICAT- ING LIQUORS IN THIS CITY?									
Number of "Yes" votes,		392	331	248	88	284	187	175	1,705
Number of "No" votes,		749	292	738	456	868	748	1,411	5,262
Blank,		101	65	82	12	48	25	46	379

Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000
1914	2,178	5,535	488	13,404	85,000
1915	1,705	5,262	379	13,805	*86,854

* Census.

ORDINANCES.

Somerville, January 1, 1916.

The following ordinances have been adopted since the printing of the annual reports for the year 1914:—

No. 58.

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. Chapter XII of the Revised Ordinances of 1911 is hereby amended by striking out section one of said chapter and inserting in place thereof the following:—

Section 1. The Board of Aldermen shall annually elect a clerk of committees. He shall hold his office for one year and until another shall be elected and qualified in his stead, and may be removed, and his place for the unexpired term filled, at the pleasure of the Board of Aldermen. He shall act as clerk of the committees of the Board of Aldermen, and 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 Aldermen. Subject to the approval of the Board of Aldermen he may employ and discharge at pleasure one or more assistants, whose compensation shall be fixed by said board.

Section 2. This ordinance shall take effect upon its passage.

Approved February 26, 1915.

No. 59.

An Ordinance to Amend Ordinance No. 51.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 3 of Ordinance 51 is hereby amended by striking out the whole of the second sentence of said section.

Section 2. This ordinance shall take effect upon its passage.

Approved March 29, 1915.

No. 60.

An Ordinance to Amend Ordinance No. 42.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 1 of Ordinance No. 42 is hereby amended by striking out after the word "claim" in the second sentence thereof the words "and shall be charged to the maintenance account of the department."

Section 2. This ordinance shall take effect upon its passage.

Approved March 29, 1915.

No. 61.

An Ordinance to Amend Ordinance No. 44.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 2 of Ordinance No. 44 is hereby amended by striking out the whole of said section and inserting in place thereof the following:—Section 2. Except as otherwise provided by law or ordinance, before money is paid out of the city treasury, a pay-roll therefor in writing, with detailed accounts specifying the amounts to be paid, and the persons to whom the payment is due, together with a proper classification of said expenditure, shall be approved and delivered to the auditor by the board or officer incurring the expenditure. In case of any error or informality, the auditor shall make note of the fact, and return the account with the objections, to the officer or board presenting the same. When the auditor has any doubt concerning the propriety or correctness of any pay-roll or account, he may refuse to certify, in whole or in part, any pay-roll or account on the ground that it is unlawful, unreasonable, or fraudulent, or on other grounds, and in any case he shall state in writing to the mayor, his reasons for the refusal. The auditor may require any person presenting for settlement an account against the city, to answer as to any facts relative to the justness of such account. The auditor may require every officer of the city, who purchases, or supervises the purchase of materials or supplies, to certify under oath that the same are necessary, and that such purchase is made without collusion and at the fair market price. He may require every foreman, superintendent, or other officer who approves a pay-roll to certify under oath the accuracy of the pay-roll. When the pay-rolls and accounts due from the city for supplies furnished and services rendered shall have been examined and recorded by the auditor, he shall, if found correct and approved as hereinbefore provided, draw a warrant upon the city treasurer for the payment of the same; but such warrant shall only be valid when signed by the mayor.

Section 2. Section 4 of Chapter IV of the Revised Ordinances of 1911 as amended by Section 6 of Ordinance 44 is hereby further amended by striking out the whole of paragraphs seven, eight and nine of said section and inserting in place thereof the following:—

The mayor shall not, after the passage of the annual order of appropriations, approve a warrant for the payment of any sum from any account until he has ascertained that there is a sufficient sum standing to the credit of such account.

Any account may be paid by the city treasurer in anticipation of the regular pay-roll upon a proper voucher therefor, approved by the proper board or officer and by the auditor and the mayor.

The city treasurer shall receive the warrants authorizing the payment of bills on or before the twelfth day of each month and on the fifteenth day of each month, or, if said fifteenth day shall be Sunday or a holiday, then on the first secular day following, be prepared to pay the same. He may, in anticipation of the monthly action, as provided in this ordinance, pay any bond, note or interest which may mature.

Section 3. Section 6 of said chapter as amended by Section 8 of Ordinance 44 is hereby further amended by striking out the whole of the first paragraph of said section and inserting in place thereof the following: Section 6. The city treasurer and collector of taxes shall keep an accurate account of all receipts and payments on be-

half of the city and other money transactions in his office. The financial year shall end on the thirty-first day of December.

Section 4. This ordinance shall take effect upon its passage.

Approved March 29, 1915.

No. 62.

An Ordinance to Provide for Payments to the General Agent of the Overseers of the Poor.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The city treasurer, with the approval of the mayor and the city auditor, shall have authority from time to time to pay the general agent of the overseers of the poor a sum of money sufficient to enable the general agent to furnish aid in cash to mothers with dependent children and to other persons entitled by law to aid from the overseers of the poor.

Section 2. The general agent shall give the city a bond with surety satisfactory to the mayor to account properly for money so paid him, the cost of said bond to be charged to Poor Department, Miscellaneous account.

Section 3. This ordinance shall take effect upon its passage.

Approved April 9, 1915.

No. 63.

An Ordinance Relative to the Fire Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The permanent members and call members of the fire department shall be entitled to fourteen days' vacation each year without loss of pay. Permanent members absent from duty on account of injury caused while in the performance of duty, and such injury being certified to by the city physician, shall receive full pay for a period not exceeding sixty days, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. A permanent substitute or call member of the fire department incapacitated from performing his regular occupation on account of injury caused while in the performance of duty in the said department, and such injury being certified to by the city physician, shall receive pay equal to that paid to a permanent member of the department during his first year, for a period not exceeding sixty days, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. Permanent members and call members of the fire department absent from duty on account of sickness, and such sickness being certified to by the city physician, shall be entitled to full pay for not more than twenty days' absence on any one occasion, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. No pay will be allowed under this ordinance if the sickness or injury is feigned, simulated, exaggerated, or arises from carelessness, improper or vicious conduct, excessive indulgence of appetite or other bad habits, or from improper, illegal or immoral practices, or if the sick or injured person shall fraudulently, by concealment, false statement, or otherwise seek to deceive or mislead the attending

physician or surgeon in relation to his case, or if he refuses or neglects to conform to the instructions of the attending physician or surgeon. At the discretion of the chief engineer of the fire department any member shall be entitled to full pay during absence not exceeding three days for the purpose of attending a funeral in his immediate family.

Section 2. This ordinance shall take effect upon its passage.

Approved June 5, 1915.

No. 64.

An Ordinance Relative to the Police Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:--

Section 1. The permanent members and reserve members of the police department shall be entitled to fourteen days' vacation each year without loss of pay. Permanent members and reserve members absent from duty on account of injury caused while in the performance of duty, and such injury being certified to by the city physician, shall receive full pay for a period not exceeding sixty days, provided however that the chief of police, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. Permanent members and reserve members of the police department absent from duty on account of sickness, and such sickness being certified to by the city physician, shall be entitled to full pay for not more than twenty days of absence on any one occasion, provided however that the chief of police, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. No pay will be allowed under this ordinance if the sickness or injury is feigned, simulated, exaggerated, or arises from carelessness, improper or vicious conduct, excessive indulgence of appetite or other bad habits, or from improper, illegal or immoral practices, or if the sick or injured person shall fraudulently, by concealment, false statement or otherwise seek to deceive or mislead the attending physician or surgeon in relation to his case, or if he refuses or neglects to conform to the instructions of the attending physician or surgeon. At the discretion of the chief of police any member shall be entitled to full pay during absence not exceeding three days for the purpose of attending a funeral in his immediate family.

Section 2. The second paragraph of section 4 of chapter XIX of the Revised Ordinances of 1911 is hereby repealed.

Section 3. This ordinance shall take effect upon its passage.

Approved June 5, 1915.

No. 65.

An Ordinance Amending Section 31, Chapter XV of Revised Ordinances of 1911.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:--

Section 1. Section 31 of Chapter XV of the Revised Ordinances of 1911 is hereby amended by adding the following thereto:--

Permission granted under this section shall not be valid or take effect until the person to whom it has been given files with the city clerk a bond in the sum of five hundred dollars, in form approved by the city solicitor and with surety or sureties approved by the city treasurer, to indemnify and save harmless the city from all loss and claims arising out of such permission.

Section 2. Every such permission heretofore granted shall be regarded as revoked and shall become null and void, unless the person to whom it was granted, within sixty days from the time this ordinance takes effect, files a bond as above provided.

Section 3. This ordinance shall take effect upon its passage.

Approved September 9, 1915.

No. 66.

An Ordinance Relative to Garages.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Any license heretofore or hereafter granted by the Board of Aldermen to the owner of a garage, other than a garage for more than four automobiles, may from time to time be transferred to any subsequent owner of the garage by the Board of Aldermen on the application of said subsequent owner upon payment of the usual fee and without public hearing or publication or other notice.

Section 2. This ordinance shall take effect upon its passage.

Approved December 24, 1915.

No. 67.

An Ordinance to Amend Section 7 of Chapter IV of the Revised Ordinances of 1911.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section seven of Chapter IV of the Revised Ordinances of 1911 as heretofore amended by section nine of Ordinance No. 44, is hereby further amended by striking out in the first line of said section seven the words "annually and as much oftener" and by inserting in place thereof the words "as often."

Section 2. This ordinance shall take effect upon its passage.

Approved December 24, 1915.

No. 68.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. The external side walls of all wooden buildings hereafter erected intended to be occupied by more than two families, shall be placed not less than six feet from the side line and the rear line of the lot upon which the building is to be located, except where an external wall of brick or other non-combustible material of the thickness prescribed for external walls is substituted for a wooden wall.

Section 2. When a wooden building is already erected upon an adjoining lot, there shall be left between the walls of the building already erected and the one to be erected, if of wood and intended to be occupied by more than two families, a clear open space of at least twelve feet unless the external wall of the building to be erected abutting on said space shall be built of brick or other non-combustible material as provided in the ordinance.

Section 3. This ordinance shall take effect March 1, 1916.

Approved January 3, 1916.

FREDERIC W. COOK,
City Clerk.

JURY LIST OF THE CITY OF SOMERVILLE.

Prepared by the Registrars of Voters, June 30, 1915.

A

Abbott, Porter S., 85 Cross st., Clerk.
 Adams, Charles L., 26-a Aberdeen rd., Buyer.
 Adams, LeRoy, 97 Talbot ave., Salesman.
 Alberty, George W., 74 Bay State ave., Manager.
 Aldrich, Allie C., 26 Wisconsin ave., Superintendent.
 Aldrich, Clifton E., 112 Pearson rd., Salesman.
 Alexander, William, Jr., 234 Pearl st., Machinist.
 Alexander, William S., 52 Ossipee rd., Mar. eng.
 Allen, Harry G., 16 Chester pl., Clerk.
 Ameer, Albert F., 17 Russell st., Stationer.
 Anderson, Guy R., 72 Broadway, Salesman.
 Anderson, Theodore A., 273 Highland ave., Clerk.
 Anderson, William B., 22 Newbury st., Electrotyper.
 Anderson, William G., 35 Joy st., Barrel dealer.
 Annis, Angus McD., 50 Sydney st., Carpenter.
 Anthony, Charles P., 14 Professors Row, Musician.
 Appel, Charles A., 65 Willow ave., Office manager.
 Arendt, August F., 30 Calvin st., Chemist.
 Armstrong, Arthur L., 70 Powder House blvd., Salesman.
 Armstrong, Christopher R., 56 Winslow ave., Machinist.
 Armstrong, Frank F., 91 Summer st., Foreman.
 Arnold, Martin M., 33 Lexington ave., Clerk.
 Asbury, Thomas, 104 Summer st., Manager.
 Ashton, Albert C., 33 Columbus ave., Manufacturer.
 Ashworth, Fred N., 104 Cross st., Manufacturer.
 Atkinson, Thomas, 69 Highland rd., Superintendent.
 Austin, Herbert G., 25 Teele ave., Traveling salesman.
 Austin, James T., 557 Somerville ave., Salesman.

B

Bachelor, Lyell E. T., 92 Perkins st., Clerk.
 Backstrom, Charles J., 69 Glen st., Carpenter.
 Backus, William A., 47 Hancock st., Assistant shipper.
 Bacon, George F., 32 Madison st., Clerk.
 Bacon, George M., 130 Pearson rd., Paper hanger.
 Bailey, Stanton C., 50-r College ave., Printer.
 Baker, Albert V., 8 Brastow ave., Manager.
 Baker, Benjamin O., 3 Lee st., Auditor.
 Baker, Percy W., 38 Prichard ave., Salesman.
 Baker, Tennyson L., 22 Hall st., Clerk.
 Baldwin, Warren J., 82 Mt. Vernon st., Clerk.
 Ball, Lester W., 15 Melvin st., Mechanical Engineer.
 Bangs, Lester M., 894 Broadway, Usher.
 Barbour, Arthur A., 8-a Hancock st., Printer.
 Barbour, George M., 8-a Hancock st., Electrician.
 Barbrick, Alexander C., 75 Central st., Paper hanger.
 Barker, Robert J., 94 College ave., Purchasing agent.
 Barker, Samuel S., 12 Oxford st., Salesman.
 Barrett, Rufus G., 115 Cedar st., Printer.
 Barrille, Leo J., 54 Lowden ave., Clerk.
 Barts, Ernest B., 10 Elmwood st., News agent.
 Baxter, Richard H., 15-a Maple ave., Salesman.

Beacham, Elmer E., 482 Broadway, Furniture mover.
 Beake, George J., 37 Bay State ave., Paint manufacturer.
 Bearse, John P., 31 Mason st., Grocer.
 Beck, Vere F., 36 Rush st., Foreman.
 Beer, William G., 6 Highland ave., Druggist.
 Benjamin, Chester W., 18 Grove st., Clerk.
 Benson, Harry B., 43 Vinal ave., Teller.
 Bent, Lucius E., 120 Summer st., Real estate agent.
 Benting, John M., 90 Highland rd., Insurance agent.
 Benton, Forest T., 47 Cherry st., Salesman.
 Berg, Edward L., 15 Alston st., Shipper.
 Bettencourt, Anthony S., 59-a Webster ave., Glass worker.
 Bettencourt, John S., 59 Webster ave., Glass worker.
 Beverly, Ralph E., 160 Walnut st., Clerk.
 Bickford, Edward M., 37-a Summer st., Teamster.
 Bielis, John S., 3 Henderson st., Tailor.
 Bigley, William J., 157 College ave., Paper dealer.
 Binney, Edward A., 39-a Walnut st., Real estate agent.
 Blair, John, 95 Wheatland st., Iron worker.
 Blaisdell, Lester C., 20 Everett ave., Driver.
 Blake, Charles S., 19 Banks st., Jeweler.
 Blake, Frank, 75 Josephine ave., Tel. constructor.
 Blake, Joshua S., 1 Arnold ct., Clerk.
 Blake, Michael B., 10 Calvin st., Stationary engineer.
 Blute, John J., 1 Chestnut st., Plumber.
 Boardman, Arthur F., 19 Campbell pk., Electrical engineer.
 Boardman, Edward W., 9 Hamlet st., Janitor.
 Boardman, Herbert R., 19 Campbell pk., Organist.
 Boland, Martin F., 33 Ossipee rd., Drug clerk.
 Bolster, William A., 27 Washington st., Teamster.
 Bonaparte, Charles, 88 Beacon st., Car Inspector.
 Bonaparte, John J., 88 Beacon st., Musician.
 Bonschau, Frederick W., 11 Minnesota ave., Baker.
 Boone, Bedford O., 706 Broadway, Carpenter.
 Booth, Simpson, 49 Putnam st., Carpenter.
 Booth, William G., 51 College ave., Artist.
 Bosworth, Maurice C., 39 Shawmut st., Machinist.
 Boutelle, Frank L., 8 Mt. Vernon st., Stationer.
 Boutwell, Marcus N., 203 School st., Clerk.
 Bowers, Charles E., 19 Stickney ave., Electrician.
 Bowers, Frank S., 76 Raymond ave., Milkman.
 Bowley, Clifton L., 9 Broadway, Timekeeper.
 Bowman, Robert A., 99 Glenwood rd., Salesman.
 Boyden, Clarence G., 44 Liberty ave., Electrical engineer.
 Bradford, Arthur H., 21 Stickney ave., Drug clerk.
 Brady, Christopher F., 17 Stone ave., Shoemaker.
 Bremner, John A., 49 Bow st., Decorator.
 Brennan, Edward P., 380 Washington st., Teamster.
 Brennan, Richard A., 6 Gibbens st., Clerk.
 Brewer, George C., 170 Summer st., Insurance agent.
 Brick, John J., 69 Grant st., Bricklayer.
 Brierley, Ralph E., 26 Kidder ave., Salesman.
 Briggs, Harry G., 49 Josephine ave., Musician.
 Brissette, Leo A., 69 Electric ave., Heating contractor.
 Brown, Allan F., 29 Summer st., Pattern maker.
 Brown, C. Herbert, 36 Teele ave., Salesman.
 Brown, David A., 32 Houghton st., Motorman.
 Brown, Frederic H., 26 Preston rd., Foreman.
 Brown, George D., 78 Broadway, Foreman.
 Brown, Leslie C., 198 Cedar st., Clerk.

Brown, William K., 10 Lester ter., Nickel plater.
 Bruce, Charles H., 62 Prescott st., Pattern maker.
 Brunton, David T., 216 Broadway, Foreman.
 Bryant, Edgar S., 31 Bradley st., Undertaker.
 Bryant, Oliver S., 29 Aberdeen rd., Salesman.
 Buckley, William P., 11 Harold st., Bookkeeper.
 Bullard, Elbridge A., 21 Kidder ave., Slate dealer.
 Bumpus, Ira P., 237 Holland st., Saw filer.
 Burdell, John E., 50 College ave., Plumber.
 Burke, Andrew R., 337 Lowell st., Janitor.
 Burke, John J., 11 Glendale ave., Horseshoer.
 Burnett, Harry B., 16 Windsor rd., Bookkeeper.
 Buswell, Lawrence L., 110 Liberty ave., Clerk.
 Buttimer, Edward M., 351 Lowell st., Contractor.

C

Cadario, John A., 79 Grant st., Bookkeeper.
 Caddy, Henry P., 26 Leonard st., Electrician.
 Cahill, Michael P., 20 Lexington ave., Shipper.
 Calhoun, James A., 7 Simpson ave., Salesman.
 Calhoun, Matthew W., 7 Simpson ave., Steam fitter.
 Calkin, John B., 30 Irving st., Stock man.
 Callahan, Joseph H., 11 Cutter st., Teamster.
 Campbell, Archibald J., 18 Appleton st., Stationary fireman.
 Campbell, John W., 169 Highland ave., Paint dealer.
 Campbell, William R., 1 Essex st., Freight clerk.
 Cameron, Edward H., 13 Flint st., Civil engineer.
 Cameron, George B., 170 Powder House blvd., Builder.
 Canfield, Kenneth B., 68 Columbus ave., Salesman.
 Capers, Frank E., 115 Cedar st., Electrician.
 Carder, J. Smith, 94 Summer st., Ticket agent.
 Carleton, Oscar M., 7 Putnam st., Machinist.
 Carnes, Fred W., 29 Sargent ave., Driver.
 Carney, John J., Jr., 101 Somerville ave., Glazier.
 Carney, Thomas J., 13 Alston st., Foreman.
 Carney, Richard I., 398 Medford st., Chemist.
 Carpenito, James M., 16 Lake st., Machinist.
 Carpenter, Clare, 40 Temple st., Bookkeeper.
 Carpenter, Herbert L., 83 Highland rd., Salesman.
 Carr, Maurice, 50 Gorham st., Gardener.
 Carroll, William J., 26 Lincoln st., Machinist.
 Carter, Charles E., 12 Grand View ave., Yardman.
 Caseau, Victor A., 17 Charnwood rd., Accountant.
 Casey, Thomas F., Jr., 59 Concord ave., Shoe sales.
 Casey, William F., 53 Beacon st., Machinist.
 Cassidy, James J., 11 Pearl ter., Brass finisher.
 Cater, Leroy F., 16 Garrison ave., Motorman.
 Chase, Frank R., 17 Willow ave., Electrician.
 Chase, George M., 39 Oxford st., Foreman.
 Chase, Leonard B., 26 Barton st., Bookkeeper.
 Chase Winthrop R., 32 Grant st., Salesman.
 Cheney, Oscar E., 19 Crocker st., Chief clerk.
 Cholfin, Samuel, 513 Columbia st., Grain dealer.
 Churchill, Frederick A., 11 Richdale ave., Electrician.
 Churchill, Oliver C., 66 Irving st., Clerk.
 Chute, Thomas H., 84 Moreland st., Foreman.
 Clancy, Frank, 63 Webster ave., Candy maker.
 Clark, Charles B., 33-a Pinckney st., Teamster.

Clark, Charles W., 21 Westminster st., Salesman.
Clark, D. Crommett, 86 Mt. Vernon st., Copy reader.
Clark, Daniel D., 41 Temple st., Fireman.
Clifford, William H., 10 Cross st. pl., Teamster.
Cochrane, Carl H., 97 Bromfield rd., Salesman.
Cody, Luther M., 50-r College ave., Conductor.
Coes, Walter C., 21 Moore st., Jeweler.
Cogger, Frank, 11 Prichard ave., Painter.
Collingham, George T., 36 Francesca ave., Real estate.
Collins, Charles D., 64 Vine st., Bank clerk.
Collins, John P., 38 Gorham st., Leather sorter.
Collins, Orrin S., 27 Craigie st., Painter.
Conant, John B., 189 Summer st., Mirror manufacturer.
Conant, Lloyd C., 17-a Cross st., Salesman.
Connelly, Francis, 55 Columbus ave., Florist.
Connor, John F., 16 Hathorn st., Stable keeper.
Connors, James E., 24 Laurel st., Electrician.
Conrad, Norman D., 24 Wheatland st., Foreman.
Conroy, Daniel, 58 Dane st., Laborer.
Conroy, John J., 10 Florence st., Plate printer.
Conte, Joseph, 32 Ellington rd., Bookkeeper.
Conway, William, 13 Berkeley st., Assistant foreman.
Cook, George E., 4 Gilson ter., Painter.
Cooke, Ray W., 150-a Cross st., Machinist.
Corbett, Leo M., 36 Rossmore st., Teamster.
Corey, Lawrence J., 5 Oliver st., Teamster.
Corliss, Alfred, 22 Knapp st., Salesman.
Corrieri, Ernest, 53 Wheatland st., Carpenter.
Corson, Harold E., 119 Bartlett st., Com. merchant.
Cotter, John, 17 Hathorn st., Rubber maker.
Coughlan, Charles P., 15 Indiana ave., Real estate.
Coye, William J., 2 Kenwood st., Shipping clerk.
Coyle, David J., 54 Merriam st., Laborer.
Coyle, George N., 66 Pearl st., Coal dealer.
Cox, Frank H., 66 Grant st., Artist.
Crafts, Waldo E., 15 Curtis st., Clerk.
Crawford, James A., 26 Eastman rd., Carpenter.
Crenner, Bartlett P., 61 Adams st., Merchant.
Cserie, Rodney S., 22 Walnut rd., Buyer.
Crocker, Charles F., 16 Hill st., Provision dealer.
Crocker, Joseph I., 13 Bonair st., Clerk.
Cronin, James T., 133 Hudson st., Carpenter.
Crosby, Delbert R., 7 Church st., Machinist.
Cross, Edward M., 52 Liberty ave., Clerk.
Crossman, Frank N., 16 Moore st., Carpenter.
Crotty, John F., 45 Sargent ave., Switch foreman.
Croucher, John J., 55 Grant st., Clerk.
Crowe, Charles H., 55 Cedar st., Carpenter.
Croy, Frank J., 67 Beacon st., Teamster.
Cullinan, Joseph J., 317 Washington st., Foreman.
Cummings, Alexander J., 117 School st., Clerk.
Cummings, Carl G., 298 Highland ave., Salesman.
Cummings, Leon F., 126 Josephine ave., Clerk.
Currier, Herbert E., 21 Mason st., Salesman.
Curry, Frank J., 10 Stanford ter., Clerk.
Curtin, Patrick M., 7 Malvern ave., Shoe worker.
Cushing, Raymond E., 219 Powder House blvd., B'k cl'k.
Cushman, Arthur F., 36 Simpson ave., Music teacher.
Cutler, Arthur E., 17 Chetwynd rd., Salesman.
Cutler, Edmund H., 64 Raymond ave., Electrotyper.

D

- Daggett, Charles H., 90 Bromfield rd., Chemist.
Daley, Charles H., 64 Glenwood rd., Station master.
Daley, Thomas, 14 Atherton st., Clerk.
Daly, Charles E., 6 Joy st., Insurance agent.
Daly, Thomas J., Jr., 14 Atherton st., Clerk.
Damon, Anson C., 64 Lowell st., Car Inspector.
Darby, Frederick C., 48 Mystic ave., Superintendent.
Dareing, Ferdinand B., 33 Newbury st., Stationary eng.
Darling, Charles H., 9 Cameron ave., Carpenter.
Davenport, Howard H., 86 Munroe st., Assistant treas.
Davey, Charles B., 18 Robinson st., Assistant manager.
Davis, Daniel F., 10 Nashua st., Rubber worker.
Davis, Elmer S., 35 Winslow ave., Mechanic.
Davis, Henry C., Jr., 88 Powder House blvd., Account't.
Davis, Michael J., 15 Wyatt st., Laborer.
Davis, William H., 7 Albion st., Manager.
Davison, George H., 18 Mossland st., Electrotyper.
Davison, John H. H., 31 Newbury st., Clerk.
Day, Alonzo G., 16 Fountain ave., Paper cutter.
Day, John, 100 Fremont st., Musician.
Dayton, James H., 67 Cedar st., Car Inspector.
Dearborn, Charles R., 9 Putnam st., Clerk.
Deering, Frank B., Jr., 35 Derby st., Receiving clerk.
DeLancey, Carleton A., 6 Centre st., Checker.
DeMerritt, Arthur J., 118 Hudson st., Salesman.
Devir, George H., 197 Summer st., Telephone collector.
Devlin, John T., 80 Josephine ave., Head waiter.
Dinsmoor, Arthur W., 53 Joy st., Draper.
Dixon, David J., 27 Prichard ave., Painter.
Doheney, Edward J., 9 Autumn st., Grocer.
Doherty, George L., 169 Washington st., Undertaker.
Doherty, Neil A. F., 41 Springfield st., Plumber.
Donahue, John P., 101 Linwood st., Teamster.
Donahue, Michael J., 53 Park st., Laundryman.
Donahue, William J., 148 Medford st., Manager.
Dondero, Joseph F., 15 Taylor st., Teamster.
Dondero, Mark J., 205 Holland st., Storekeeper.
Donle, William C., 196 Summer st., Bond salesman.
Donnelly, Herbert W., 946 Broadway, Engraver.
Donnelly, James A., 946 Broadway, Clerk.
Donovan, Michael, 82 Wallace st., Upholsterer.
Donovan, Francis X., 37 Ossipee rd., Telephone tester.
Donovan, Timothy T., 13 Mondamin ct., Shipper.
Dougherty, Hugh F., 37 Dimick st., Barber.
Dove, Harry C., 37 Teele ave., Mechanical engineer.
Doyle, Charles T., 7 Laurel ave., Salesman.
Doyle, Michael J., 23 Lake st., Laborer.
Doyle, Michael J., 21 Appleton st., Shipper.
Doyle, Thomas F., 45 Main st., Drug clerk.
Drea, John, 8 Malloy ct., Teamster.
Driscoll, Thomas A., 33 Barton st., Salesman.
Dudley, Earle H., 95 Highland rd., Salesman.
Dudley, Joseph A., 42 Lowden ave., Bookkeeper.
Duffy, John W., 82 Line st., Night foreman.
Duggan, Dennis J., 90 Alpine st., Teamster.
Duggan, Jacob W., 134 College ave., Upholsterer.
Duggan, John J., 25 Washington st., Teamster.
Duggan, Timothy J., 8 School st., Yardman.

Duncan, William A., Jr., 22 Tenney ct., Undertaker.
 Dunham, William A., 42 Morrison ave., Driver.
 Dwyer, James A., 48 Atherton st., Grocer.
 Dyer, Charles W., 23 Wigglesworth st., Carpenter.
 Dykeman, William A., 60 Marshall st., Architect.

E

Earle, Charles A., 55 Meacham rd., Salesman.
 Earle, Clarence E., 318 Summer st., Linotyper.
 Eaton, Arthur W., 12 Westminster st., Salesman.
 Eaton, Howard W., 11 Radcliffe rd., Stenographer.
 Eddy, Preston A., 20 Aberdeen rd., Real estate agent.
 Edgerly, Clarence E., 208 Morrison ave., Artist.
 Edgerly, Frank C., 17 Radcliffe rd., Milk dealer.
 Edgerton, Earle B., 7 Tower st., Editor.
 Edmands, Augustine D., Jr., 47 Teele ave., Motorman.
 Edmond, George A., 27 Gilman ter., Tool maker.
 Edson, James H., 9 Dana st., Bookkeeper.
 Edwards, Waldo G., 134 Powder House blvd., Estimator.
 Eldridge, George W., 89 Lowell st., Carpenter.
 Eldridge, Millard F., 22 Ellington rd., Manufacturer.
 Elkins, Edward J., 30 Maple st., Chauffeur.
 Ellingwood, John H., 69 Bromfield rd., Floor walker.
 Ellis, Bradford R., 66 Newbury st., Driver.
 Ellis, Frank E., 192 Morrison ave., Piano salesman.
 Ellison, Henry, 55 Church st., Stationary engineer.
 Elmes, George B., 8 Brastow ave., Traveling salesman.
 Emery, Everett C., 45 Prescott st., Bookkeeper.
 Epps, Charles A., 25 Cedar st., Clerk.
 Everett, Alonzo M., 24 Thorpe st., Machinist.
 Evans, Gardiner C., 54 Park st., Stenographer.
 Evans, William H., 71 Lexington ave., Painter.

F

Falorney, John J., 15 Russell rd., Photo engraver.
 Fantasia, Vingenzo A., 5 Ward st., Laborer.
 Faulkner, Thomas F., 31 Austin st., Laundry driver.
 Fay, Herbert G., 17 Lowden ave., Civil engineer.
 Fay, John J., 38 Glen st., Bottler.
 Fenochetti, John, 31 Porter st., Coffee roaster.
 Fenton, Albert W., 55 Church st., Inspector.
 Ferrara, John A., 14 Central st., Salesman.
 Finnegan, Joseph A., 94 Concord ave., Pressman.
 Finneran, Michael J., 107 Moreland st., Laborer.
 Fitch, Edward B., 39 Flint st., Teamster.
 Fitzpatrick, Patrick W., 45-a Adrian st., Produce.
 Flynn, William P., 29 Rossmore st., Meter maker.
 Foley, James J., 50 Dane st., Shoemaker.
 Foley, Michael, 24 Linden st., Fireman.
 Fontannay, Joseph H., 20 Perry st., Switchman.
 Ford, Robert H., 58 Bromfield rd., Salesman.
 Foss, William A., 61 Bromfield rd., Clerk.
 Foss, Wilson H., 20 Wilson ave., Electrician.
 Foster, George, 54-a Beacon st., Electrician.
 Foster, Jesse, 54-a Beacon st., Collector.
 Franklin, George J., 10-a Pearl st. pl., Driver.
 Fraser, George H., 47 Fremont st., Teamster.
 Frederick, John B., 67 Church st., Machinist.

French, Henry T., 62 College ave., Druggist.
 French, Noyes E., 223 School st., News dealer.
 Fuller, Harry L., 83 Willow ave., Manager.
 Furiga, Charles, 400 Mystic ave., Roofer.

G

Gage, B. Raymond, 43 Evergreen ave., Ticket agent.
 Gage, Sewall J., 96 Sycamore st., Collector.
 Gallini, Mario, 9 Harrison st., Electrician.
 Galvin, James M., 472 Broadway, No occupation.
 Garland, Leslie M., 22 Gorham st., Salesman.
 Gazeley, Arthur E., 94 Marshall st., Secretary.
 Geary, John F., 14 Ellsworth st., Lineman.
 Geary, Michael A., 48 Holyoke rd., Cigar maker.
 Geddes, James, 88 Munroe st., Office manager.
 Gerry, Clarence E., 73 Simpson ave., Salesman.
 Gibby, Adam H., 47 Hall ave., Foreman.
 Gibby, Frank L., 42 Montrose st., Clerk.
 Gibson, William G., 41 Mason st., Clerk.
 Gilbert, Osgood A., 162 Sycamore st., Ship broker.
 Gilbert, Percy A., 49 Moore st., Salesman.
 Gilligan, Thomas J., 25 Jay st., Baker.
 Gillis, Alexander J., 10 Victoria st., Railway inspector.
 Gillis, Daniel B., 27 Willow ave., Builder.
 Gissler, Ernest L., 97 Beacon st., Editor.
 Glass, Charles M., 11 Endicott ave., Salesman.
 Glenn, John, 12 Putnam st., Salesman.
 Glynn, Charles J., 67 Fremont st., Plumber.
 Glynn, Howard S., 31 Everett ave., Clerk.
 Goding, Francis E., 93 Newton st., Teamster.
 Golding, Newton P., 1265 Broadway, Motorman.
 Goode, Richard H., 30 Brastow ave., Lumber dealer.
 Gordon, Burnham M., 232 Willow ave., Salesman.
 Gorman, James, 26 Tyler st., Tube worker.
 Gotlob, Morris G., 10 Liberty ave., Salesman.
 Goudie, Alexander, 49 Marshall st., Painter.
 Gould, William T., 132 Highland rd., Electrician.
 Grace, William B., 85-a Partridge ave., Grocer.
 Grady, Robert, 48 Spencer ave., Tailor.
 Graham, David, 18 Richardson st., Electrician.
 Graves, Frank W., 27 Winslow ave., Janitor.
 Graves, William H., 43 Franklin st., Machinist.
 Gray, John, 123 Pearson rd., Driver.
 Gray, Joseph S., 184 Walnut st., Milkman.
 Green, John F., 24 Harold st., Box maker.
 Greene, Daniel E., 97 Grant st., Compositor.
 Greene, Frederick A., 203 Pearl st., Real estate dealer.
 Greene, William H., 17-A Melvin st., Adjuster.
 Greenwood, Elmer E., 15 Paulina st., Agent.
 Greenwood, John W., 23 Alston st., Steamfitter.
 Griffith, Francis F., 157 Elm st., Clerk.
 Griffith, George C., 157 Elm st., Clerk.
 Grindell, Henry H., 47-a Porter st., Machinist.
 Grove, Frank I., 201 Pearl st., Stair builder.
 Grove, James S., 201 Pearl st., Clerk.
 Groves, Leander F., 9 Eastman rd., Plumber.
 Guilford, Harry E., 5 Joy st. pl., Laborer.

H

Hadley, Norris E., 35 Conwell ave., Draughtsman.
 Hadley, William L., 54 Beacon st., Clerk.
 Haff, George L., 20 Wesley st., Clerk.
 Hagan, Bernard J., 472 Medford st., Electrician.
 Hagan, Edward L., 472 Medford st., Salesman.
 Hager, John M., 27 Walter st., Milk dealer.
 Haines, Alonzo M., 63 Berkeley st., Superintendent.
 Hale, Frederick A., 66 Marshall st., Merchant.
 Haley, Sumner A., 4 Willow ave., Clerk.
 Hall, Arthur S., 17 Maple ave., Clerk.
 Hall, Austin D., 52 Adams st., Stenographer.
 Hall, Frederic D., 26 Dartmouth st., Electrical engineer.
 Hall, Harley E., 22 Pleasant ave., Stable keeper.
 Hall, L. Vernon, 43 Madison st., Mechanic.
 Hall, Roy, 100 Conwell ave., Bookkeeper.
 Hall, Sigfred S., 33-a Bow st., Driver.
 Hall, William L., 64 Raymond ave., Bookkeeper.
 Hallahan, William J., 28-a Lake st., Shipper.
 Ham, Charles L., 71 Bonair st., Machinist.
 Hamilton, Alexander M., 135 Lowell st., Wood carver.
 Hamilton, John R., 224 Willow ave., Agent.
 Hamilton, William, 24 Spencer ave., Druggist.
 Hamman, William B., 107 College ave., Merchant.
 Handy, Otis A., 11 Heath st., Printer.
 Hanna, William F., 30 Fenwick st., Composer.
 Harding, Henry J., 41 Mt. Vernon st., Musician.
 Hardy, Freeman G., 43 Irving st., Shipper.
 Harmon, Solon C., 982 Broadway, Bookkeeper.
 Harrington, Arthur D., 26 Oak st., Salesman.
 Harrington, Wallace J., 215-a Summer st., Mechanic.
 Harris, J. Roy, 20 Melvin st., Draughtsman.
 Hart, Michael J., 16 Perry st., Mason.
 Hart, Charles J., 38 Bay State ave., Optician.
 Hart, Frederick W., 48 Day st., Stationary fireman.
 Hatch, Harry W., 10 Gilman ter., Credit man.
 Hathaway, William T., 27 Pearson rd., Bookkeeper.
 Hayes, Arthur E., 8 Otis st., Grocer.
 Hayward, Alfred W., 5 Windom st., Civil engineer.
 Hayward, Frank H., 271 Willow ave., Salesman.
 Hayward, Frederick H., 9 Endicott ave., Butter dealer.
 Hayward, John G., 5 Windom st., Insurance agent.
 Head, John W., 44 Paulina st., Electrician.
 Healy, Maurice F., 61 Dane st., Truckman.
 Healy, Maurice L., 9 Gorham st., Chemist.
 Healy, Robert W., 8 Taunton st., Teamster.
 Heeney, Raynold, 750 Broadway, Clerk.
 Hegeman, Cornelius P., 84 Perkins st., Inspector.
 Henderson, Joseph J., 242 Summer st., Auditor.
 Hepburn, Johnston A., 226 Somerville ave., Meat cutter.
 Herbst, Robert, 15 Flint st., Rubber turner.
 Hermanson, Carl A., 114 Pearl st., Carpenter.
 Herrick, George W., 73 Mt. Vernon st., Coal dealer.
 Herrick, Lewellyn S., 73 Mt. Vernon st., Teamster.
 Hersey, Charles H., Jr., 31 Hudson st., Engraver.
 Hess, Frederick A., 504-r Somerville ave., Machinist.
 Hewes, Paul A., 37 Boston st., Bookkeeper.
 Higgins, Fred S., 4 Ivaloo st., Foreman.
 Higgins, Frederick A., 25 Berkeley st., Printer.

Higgins, George H., 67 Simpson ave., Bank clerk.
 Higgins, Harrison P., 10 Waldo st., Mechanical engineer.
 Higgins, Herbert S., 39 Electric ave., Advertising agent.
 Hill, Allen Philip, 155 Sycamore st., Harness dealer.
 Hill, Arthur B., 17 Norwood ave., Musician.
 Hill, Benjamin, 22 Leonard st., Manager.
 Hill, Claude C., 81 Mt. Vernon st., Machinist.
 Hills, Arthur T., 8 Teele ave., Real estate agent.
 Hoar, George F., 94 Conwell ave., Salesman.
 Hodge, Charles W., 26 Billingham st., Salesman.
 Hodge, Roy W., 26 Billingham st., Clerk.
 Hodgkins, Edward S., 139 Orchard st., Clerk.
 Hogan, Edward S., 32 Beacon st., Piano tuner.
 Hoisington, Nelson S., 8 Lee st., Clerk.
 Holland, William L., 108 Highland ave., Druggist.
 Hollis, George O., 45 Marshall st., Milk driver.
 Holloran, John W., 67 West Adams st., Salesman.
 Holmes, Frederick M., 22 Maple ave., Salesman.
 Holmes, J. Albert, 16 Chapel st., Civil engineer.
 Holmes, Jacob R., 14 Hall st., Manager.
 Holmes, Ralph N., 67 Lexington ave., Electrician.
 Holt, Arthur T., 41 Laurel st., Salesman.
 Hooper, Harry A., 41 Munroe st., Bookkeeper.
 Hooper, Walter H., 45 Heath st., Printer.
 Hopkins, Charles O., Jr., 268 Willow ave., Collector.
 Hopkins, James L., 104 Sycamore st., Piano teacher.
 Hopkins, Merton H., 44 Tennyson st., Draughtsman.
 Horrigan, James J., 7 Richardson st., Teamster.
 Horrigan, John E., 11 Concord ave., Teamster.
 Horsman, Blair W., 30 Francesca ave., Welder.
 Hosmer, Ralph H., 51 Mt. Vernon st., Provision dealer.
 Houghton, Edgar W., 20 Gilman ter., Sales manager.
 Hovey, Charles N., 70 Josephine ave., Bookkeeper.
 Howard, Eugene P., 11 Hall ave., Salesman.
 Howard, George W., 17 Edmands st., Salesman.
 Howard, Sherman P., 330 Broadway, Florist.
 Huff, Wilbur S., 55 Bartlett st., No occupation.
 Hughes, Harry W., 1 Victoria st., Conductor.
 Humphrey, Walter E., 50 Albion st., Dental clerk.
 Humphreys, Edward S., 11 Parker st., Teamster.
 Hunkins, Frank J., 23 Charnwood rd., Carpenter.
 Hunter, Howard L., 114 Rogers ave., Clerk.
 Hunter, Robert B., 114 Rogers ave., Cable man.
 Hyde, Joseph W., 31 Sewall st., Clerk.
 Hyden, Victor M., 8 Belmont pl., Wire chief.

I

Ingram, George C., 297 Summer st., Clerk.
 Ingram, Lawrence T., 98 Bromfield rd., Salesman.
 Inman, Allan C., 89 Josephine ave., Secretary.
 Invernizzi, Matthew A., 15-b Belmont st., Draughtsman.

J

Jack, John, 5 Claremon st., Tinsmith.
 Jackson, Herbert, 14 Clifton st., Machinist.
 Jackson, William L., 27 College ave., No occupation.
 James, George F., 66 Mystic ave., Teamster.

Jameson, William A., 57 Lowden ave., Real estate agent.
 Jardine, David T., 35 Fairmount ave., Carpenter.
 Jarvis, Arthur H., 332 Beacon st., Freight clerk.
 Jelley, William J., 77-a Moreland st., Iron worker.
 Jennings, Chester R., 22 Cedar st., Clerk.
 Jillson, George W., 34 Wheatland st., Teamster.
 Johnson, Andrew A., 14 Avon st., Sales manager.
 Johnson, Arthur H., 128 Powder House blvd., Salesman.
 Johnson, Bernard F., 80 Moreland st., Motorman.
 Johnson, Frank W., 127 Broadway, Plumber.
 Johnson, LaForrest H., 209 Willow ave., Salesman.
 Johnson, Walter M., 48 Tennyson st., Merchant.
 Johnston, Frank, 79 Bonair st., Harness maker.
 Jones, Arthur V., 53 Boston st., Clerk.
 Jones, Ernest C., 56 Pearson ave., Private secretary.
 Jones, Fred B., 18 Bromfield rd., Manufacturer.
 Jones, Harry B., 65 Conwell ave., Electrician.
 Jones, Homer A., 78 Morrison ave., Bookbinder.
 Jordan, Fred W., 216 Elm st., Cement dealer.
 Jordan, William H., 32 Cutter ave., Driver.
 Josie, Daniel S., 20 Stickney ave., Stationary engineer.
 Joyall, Norman C., 32 Franklin ave., Machinist.
 Judge, William F., 20 Rossmore st., Clerk.
 Judkins, Edward H., 80 Newbury st., Machinist.
 Judkins, Harry W., 62 Fellsway West, Insurance agent.

K

Kaula, Charles H., 38 Richdale ave., Salesman.
 Keane, James H., 42 Vermont ave., Bookkeeper.
 Keay, Fred E., 153 College ave., Financial editor.
 Keene, Charles H., 12-a Kensington ave., Foreman.
 Kelley, John B., 250 Willow ave., Type operator.
 Kelley, Joseph B., 161 Linwood st., Candy maker.
 Kelley, Thomas H., 35 Houghton st., Painter.
 Kelley, William F., 40 School st., Mechanic.
 Kellogg, Herbert B., 104 Boston ave., Salesman.
 Kellough, Thomas H., 23 Prichard ave., Cashier.
 Kelly, Michael J., 282 Lowell st., Motorman.
 Kemp, Edward F., 457 Medford st., Nut dealer.
 Kempton, Robie E., 23 Ames st., Claim agent.
 Keniry, Jeremiah, 75 Concord ave., Freight handler.
 Kennamon, Thomas W., 47 Main st., Teamster.
 Kennedy, John J., 22 Henderson st., Blacksmith.
 Kent, Benjamin F., 65 Rogers ave., Salesman.
 Kenty, Frederick C., 69 Oxford st., Freight brakeman.
 Keville, Francis, 33 Bromfield rd., Garage worker.
 Kidder, Charles A., 100 Central st., Salesman.
 Kidder, James W., 16 Sunset rd., Clerk.
 Kiley, Richard, 122 Heath st., Stationary fireman.
 Kimball, William F., 26 Fosket st., Electrical engineer.
 King, Guy F., 96 Pearson ave., Clerk.
 King, Roy R., 154 Morrison ave., Machinist.
 King, William F., 19 Barton st., Builder.
 Kinney, Edgar L., 92 Sycamore st., Insurance agent.
 Kirk, Richard, 10 Austin st., Motorman.
 Klabe, Mathew, 49 Grant st., Shoemaker.
 Knight, Frank H., 34 Illinois ave., Clerk.
 Knight, Hollis M., 66 Mystic ave., Teamster.

Knight, Perley H., 20 Preston rd., Printer.
 Knubley, John W., 39 Rogers ave., Market man.
 Kornblatt, Jacob, 164 Washington st., Grocer.
 Kuhn, William H., 227 Summer st., Clerk.

L

Lackey, Wells E., 12 Tennyson st., News dealer.
 Ladd, George W., 14 Elston st., Blacksmith.
 Lahey, John E., 148-r Linwood st., Teamster.
 Lailer, Waldo H., 61 Glenwood rd., Salesman.
 Laird, William M., 6 Gendale ave., Telegrapher.
 Lakin, George W., 215 College ave., No occupation.
 Lambert, Matthias J., 21 Knapp st., Gold beater.
 Lamont, George H., 13 Conwell ave., Salesman.
 Lamphear, Harry A., 1265 Broadway, Photographer.
 Land, Lawrence P., 60 Marshall st., Clerk.
 Landers, Norman H., 40 School st., Manager.
 Lane, Chandler W., 20 Winslow ave., Driver.
 Lane, Edward A., 20 Wyatt st., Salesman.
 Lane, George B., 65 Bromfield rd., Restaurant keeper.
 Lane, John J., 46 Wisconsin ave., Foreman.
 Lane, William F., 7 Malvern ave., Railway conductor.
 Lane, William H., 24 Wheatland st., Chauffeur.
 Larrabee, George E., 14 Indiana ave., Salesman.
 Larson, Walter, 29 Derby st., Stationary engineer.
 Laskey, Frank S., 25 Boston st., Manager.
 Lawry, Stanley A., 36 Bay State ave., Assistant auditor.
 Leathers, Lester P., 34 Summit ave., Salesman.
 Leavitt, Clayton M., 1251 Broadway, Carpenter.
 LeClair, Hiram, 15 Dow st., Mason.
 Lee, J. Gordon, 9 Teele ave., Salesman.
 Leitch, Samuel, 93 Liberty ave., Clerk.
 Leonard, James L., 30 Dickinson st., Printer.
 Lerner, Albert A., 24 Gilman ter., Salesman.
 Leslie, Charles H., 209 Willow ave., Salesman.
 Lewis, Horace A., 7 Medina Bldg., Elm st., Real estate.
 Lewison, Clarence P., 40 Spencer ave., Cashier.
 Lilley, Clarence A., 33 Bay State ave., Clerk.
 Lindsay, Thomas, 14 Hathorn st., Ice weigher.
 Lindsey, I. Sumner, 87 Flint st., Carpenter.
 Lingham, Harold T., 71 Oxford st., Clerk.
 Little, Malcolm G., 15 Westminster st., Salesman.
 Littlefield, Perley D., 194 Morrison ave., Lumber dealer.
 Livingstone, John, 339 Summer st., Foreman.
 Locke, Stephen S., 11 Prospect Hill ave., Salesman.
 Lombard, Peter J., 112 Thurston st., Teamster.
 Long, Edward J., 22 Windom st., Motorman.
 Looney, Daniel P., 25 Fountain ave., Collector.
 Lord, Delbert L., 91 Highland rd., Clerk.
 Lord, Francis H., 45 Avon st., Dry goods dealer.
 Loring, Robert B., 45 Tennyson st., Treasurer.
 Lothrop, Herbert A., 217 College ave., Printer.
 Loveland, Charles M. N., 898 Broadway, Stenographer.
 Loveless, William H., 92 Myrtle st., Teamster.
 Lovell, Willard C., 51 Fairmount ave., Piano tuner.
 Lovering, Everett L., 93 Pearl st., Music teacher.
 Lovering, Robert N., 19 Chester ave., Salesman.
 Lovering, Walter H., 63 Marshall st., Salesman.
 Lowe, George F., 55 Simpson ave., Janitor.

Luce, Edward F., 70 Ossipee rd., Salesman.
 Lucy, Albert F., 3 Village st., Shipper.
 Lucy, Dennis, 73 Broadway, Teamster.
 Lydstone, John E., 4 College ave., Insurance agent.
 Lyford, Frank D., 20 Lincoln ave., Carpenter.
 Lynch, John E., 16 Caldwell ave., Clerk.
 Lynch, John E., 256 Somerville ave., Laborer.
 Lynch, William P., 88 Avon st., Agent.
 Lyons, Joseph G., 15 Bartlett st., Carpenter.

M

MacBrine, J. Wilmot, 43 Francesca ave., Insurance agent.
 Macdonald, Eugene B., 9 Crocker st., Sales manager.
 MacDonald, Henry H., 196 Broadway, Clerk.
 Macdonald, William F., 50 Bromfield rd., Brass finisher.
 MacDonald, William H., 29 Endicott ave., Fish cutter.
 MacKenzie, Arthur G., 10 Burnside ave., Laundry.
 MacKenzie, Finlay, 29 Teele ave., Blacksmith.
 Madden, John T., 15 Sargent ave., No occupation.
 Maddison, Thomas B., 221 Morrison ave., Furrier.
 Magee, James L., 12 Central st., Pressman.
 Magoon, Frank P., 38 Madison st., Clerk.
 Magown, Herbert B., 14 Clark st., Clerk.
 Maguire, John F., 414 Medford st., Photo engraver.
 Mahan, John J., 9 Dimick st., Produce dealer.
 Mahoney, Cornelius J., 10 Knapp st., Railway conductor.
 Main, Edgar S., 1044 Broadway, Draughtsman.
 Malaney, John J., 143 Boston ave., Floor manager.
 Malaney, John M., 143 Boston ave., Newspaper writer.
 Mangurian, Nishan K., 37 Porter st., Flag manufacturer.
 Manning, Daniel F., 86 Gilman st., Shipper.
 Manning, Mansel J., 82 Cameron ave., Glass packer.
 Marion, Otis D., 76 Rogers ave., Manager.
 Marsh, Ernest H., 27 Cutter st., Teamster.
 Marshall, Frank W., 214 Willow ave., Chauffeur.
 Martin, Alphonso, Jr., 95 Wheatland st., Driver.
 Martin, Earle D., 41 Putnam st., Bookkeeper.
 Martin, Frank L., 120 Josephine ave., Warehouse man.
 Martin, Harry N., 81 Wheatland st., Salesman.
 Martin, James J., 27 Concord ave., Assistant foreman.
 Mason, Frank J., 30 Pembroke st., Bookkeeper.
 Mason, John, 68 Dimick st., Cashier.
 Mason, William S., 20 Austin st., Meat cutter.
 Masury, Walter R., 367 Somerville ave., Collector.
 Maxfield, George W., 8 Wesley st., Assistant foreman.
 Maxim, William W., 59 Boston st., Commission merchant.
 Maxwell, Madison M., 22 Greenville st., Bookkeeper.
 May, Edward M., 9 Sanborn ave., Collector.
 McAlear, Thomas H., 14 Homer sq., Painter.
 McAllister, Frederick W., 14 Kingston st., Salesman.
 McAuliffe, Cornelius A., 107 Josephine ave., Office mgr.
 McBride, Anderson, 8 Ash ave., Carpenter.
 McConaghy, Robert L., 97 Gilman st., Egg lighter.
 McCarthy, John J., 220 Summer st., Superintendent.
 McCarthy, John, 5 Florence ter., Stationary fireman.
 McCarthy, Jerome J., 9 Linden circle, Baggage master.
 McCarthv. Dennis F., 68 Line st., Horseshoer.
 McCormick, Thomas, 87 Orchard st., Cooper.
 McCoubrey, Robert F., 129 Powder House blvd., Book'p'r.

McCray, William H., 11 Bowers ave., Salesman.
McCuin, Charles F., 8 Putnam st., Cloth inspector.
McCune, Joseph P., 15 Josephine ave., Clerk.
McDermott, William J., 12 Mossland st., Shipping clerk.
McDonald, Michael A., 32 Springfield st., Clerk.
McDonald, Oscar E., 224 Willow ave., Telephone tester.
McDonough, James P., 17 Acadia pk., Manager.
McDonough, William J., 1 Village ter., Painter.
McDuffee, Walter C., 50 Sargent ave., Machinist.
McElman, George H., 30 Otis st., Machinist.
McGilvray, Francis G., 50 Bartlett st., Milk dealer.
McGowan, Patrick, 91 Marion st., Foreman.
McGrath, James J., Jr., 24 Knapp st., Machinist.
McGrath, Thomas H., 1 Dix pl., Driver.
McGregor, Thomas G., 20 Curtis st., Salesman.
McHugh, William H., 12 Hill st., Salesman.
McKinley, Walter T., 12 Bay State ave., Salesman.
McKinnon, William F., 253 Broadway, Manager.
McLain, George M., 38 Glen st., Laborer.
McLean, A. Joseph, 26 Dimick st., Grocer.
McLean, Daniel J., 82 Concord ave., Real estate agent.
McLean, James A., 30 Banks st., Machinist.
McLean, William W., 25 Victoria st., Paper cutter.
McManus, Wellington S., 18 Vermont ave., Motorman.
McNally, Harry F., 54 Derby st., Printer.
McNally, John C., 376 Washington st., Coal dealer.
McNamara, Henry H., 10 Boston ave., Optician.
McNaney, Albert J., 208 Medford st., Milkman.
McNeill, G. Leonard, 19 Highland rd., Manager.
McWilliams, Howard T., 8 Holyoke rd., Clerk.
McWilliams, Thomas H., 8 Holyoke rd., Foreman.
Meador, Joseph B., 110 Powder House blvd., Salesman.
Meaney, Michael J., 8 Cross st. pl., Stone mason.
Meehan, Joseph P., 13 Morrison ave., Chauffeur.
Merriam, Horatio S., 44 Richdale ave., Clerk.
Merrill, Charles, 24 Florence st., Teamster.
Merrill, Walter I., 25 Montrose st., Salesman.
Merrill, William G., 253 Willow ave., Electrician.
Merritt, Otis R., 38 Moore st., Salesman.
Metcalf, William A., 17 Edmands st., Collector.
Meyer, Herman W., 18 Highland ave., Merchant.
Miles, Harold A., 296 Highland ave., Salesman.
Miller, Carl W., 87 Glenwood rd., Confectioner.
Miller, David, 55 Cameron ave., Carpenter.
Miller, Harry, 34-a Madison st., Machinist.
Miller, Milton H., 102 Wallace st., Clerk.
Miller, Thomas, Jr., 24 Pleasant ave., Salesman.
Miner, Henry A., Jr., 36 Avon st., Electrical engineer.
Mitchell, Charles U., 15 Pinckney st., Electrician.
Mollet, Philip J., 54 Atherton st., Clerk.
Molloy, William P., 78 Newton st., Iron worker.
Money, Joseph A., 54 Myrtle st., Manufacturer.
Monks, Charles A., 398 Medford st., Salesman.
Montgomery, John, 69 Lowden ave., Accountant.
Mooney, George W., 100 Pearson rd., Type operator.
Moore, Eugene E., 17 Mason st., Salesman.
Morang, Arthur C., 38 Cambria st., Salesman.
Morgan, George H., 12 Sunnyside ave., Coffee roaster.
Morris, Harrie F., 57 Pennsylvania ave., Clerk.
Morris, Louis A., 57 Hinckley st., Teamster.

Morrison, Frederick S., 30 Sunset rd., Secretary.
 Morrison, James, 62 Albion st., Salesman.
 Morrison, James A., 97 Rogers ave., Clerk.
 Morrissey, John J., 20 Bonner ave., Marketman.
 Morse, E. Raymond, 21 Maple ave., Electrical engineer.
 Morse, Guy F., 6 Crescent st., Machinist.
 Morton, Nelson G., 31 Windsor rd., Editor.
 Mulcahy, John J., 80 Jaques st., Stationary engineer.
 Mullaney, Patrick J., 11-a Beacon st., Rate clerk.
 Munday, Maitland P., 16 Fellsway west, Helper.
 Mundon, Elmer L., 10-r Oxford st., Demonstrator.
 Murphy, Benjamin F., 16 Mossland st., Compositor.
 Murphy, Frank J., 206 Somerville ave., Teamster.
 Murphy, Frank J., 215 Summer st., Bookkeeper.
 Murphy, Michael F., 12 Belmont pl., Foreman.
 Murphy, Peter J., 31 Garrison ave., Clerk.
 Murphy, Timothy J., 14 Marion st., Freight clerk.
 Myers, Mark B., 15 Teele ave., Salesman.
 Myerson, Joseph, 22 Bonner ave., Merchant.

N

Nealey, Carl F., 246 Willow ave., Solicitor.
 Nelson, Edwin W., 95 Temple st., Stenographer.
 Nelson, Freeman L., 38 Chester st., Machinist.
 Neptune, Frederick W., 14 Banks st., Salesman.
 Newhouse, George, 64 Bonair st., Truckman.
 Newton, William M., 84 Bay State ave., Bookkeeper.
 Nichols, Ralph L., 9 Belknap st., Accountant.
 Nicholson, Bartlett T., 368 Highland ave., Merchant.
 Nickerson, James A., 31 Conwell ave., Real estate agent.
 Nickles, James W., 14 William st., Produce dealer.
 Niles, Franklin T., 229 Pearl st., Manager.
 Nodding, Leonard J., 119 College ave., Salesman.
 Noonan, James H., 70 Oxford st., Foreman.
 Northrop, Herbert N., 170 Walnut st., Tea blender.
 Norton, Edgerton V., 19 Ashland st., Carpenter.
 Norton, Harry J., 118 Cedar st., Salesman.
 Noyd, Carl O., 7-a Albion ter., Piano maker.
 Noyes, Charles S., 3 Sargent ave., Cigar manufacturer.
 Noyes, Frank D., 111 Rogers ave., Machinist.
 Nyman, Ernest D., 5 Wigglesworth st., Trainman.

O

Ober, S. Ellis, 12 Dearborn rd., Carpenter.
 O'Brien, Edward M., 131 Central st., Clerk.
 O'Brien, Jeremiah J., 8 Charles st., Freight handler.
 O'Brien, Patrick J., 8 Morton st., Butcher.
 O'Brien, Patrick, 153 Somerville ave., Laborer.
 O'Brien, Richard P., 68 Dimick st., Mason.
 O'Brien, William E., 70 Prospect st., Vulcanizer.
 O'Brion, Fulton, 226 Summer st., Merchant.
 O'Callaghan, John J., 16 London st., Teamster.
 O'Connell, Roger, 42 Prospect st., Rubber worker.
 O'Connell, Thomas Meade, 43 Highland rd., Shipper.
 O'Connor, Timothy J., 22 Clarendon ave., conductor.
 O'Hea, Frank J., 482 Medford st., Salesman.
 O'Leary, Daniel F., Jr., 87 Washington st., Teamster.
 O'Leary, Peter, 21 Pinckney st., Foreman.

Oliver, Wilfred N., 27 Aberdeen rd., Draughtsman.
 Olson, Charles A., 21 Edmands st., Treasurer.
 O'Neil, William A., 18 Autumn st., Insurance agent.
 Ordway, Frank A., 271 Willow ave., Merchant.
 O'Rourke, Francis, 15 Harold st., Laborer.
 Osgood, Charles G., 22 Dover st., Coal dealer.
 O'Toole, Michael L., 203 Highland ave., Clerk.
 Oxnard, John H., 156 School st., Druggist.

P

Paige, Percy H., 48 Highland rd., Clerk.
 Paine, Amos M., 8 Moore st., Elevator man.
 Palmer, Harrie H., 46 Pinckney st., Spring manufacturer.
 Palmer, Henry B., 7 Dana st., Clerk.
 Palmer, John W., 18 Aldrich st., Contractor.
 Parker, Forrest G., 12 Columbus ave., Bookkeeper.
 Parker, George S., 29 Josephine ave., Shipper.
 Parmenter, Frank E., 53 Prescott st., Insurance agent.
 Passmore, T. Ralph, 28 Powder House blvd., Clerk.
 Patrician, Edward V., 12 Grove st., Machinist.
 Patten, Harold C., 108 Pearson rd., Bank clerk.
 Patterson, Arthur E., 32 Claremon st., Chemist.
 Pearce, William L., 9 Josephine ave., Manager.
 Pearson, Albert L., 11 Teele ave., Electrical engineer.
 Pearson, Roy M., 186 Mystic ave., Foreman.
 Pedersen, Peter T., 8 Mountain ave., Carpenter.
 Pennock, Nathan Lewis, 1 Ossipee rd., Electrical engineer.
 Perkins, Albert C., 217 Pearl st., Chief clerk.
 Perkins, Daniel M., 25 Cleveland st., Machinist.
 Perry, Eugene R., 132 Highland rd., Manager.
 Perry, W. Scott, 24 Grand View ave., Manufacturer.
 Peterson, Charles E., 15 Murray st., Bookkeeper.
 Peterson, John, 128 Cedar st., Electrician.
 Phelps, George A., 222 Broadway, Printer.
 Phelps, William L., 383-a Highland ave., Manager.
 Phillips, Edgar H., 450 Medford st., Salesman.
 Phillips, George W., 71 Hudson st., Assistant buyer.
 Phillips, Joseph P., 6 Giles pk., Chief janitor.
 Phillips, Lorenzo R., 138 Powder House blvd., Manager.
 Pickering, Charles B., 29 Auburn ave., Electrician.
 Pierce, Charles H., 13 Morgan st., Clerk.
 Pierce, William F., 15 Chester pl., Salesman.
 Pike, Roger J., 7 Putnam st., Iron worker.
 Pillsbury, Robert F., 22 Hamlet st., Credit man.
 Piper, August J., 18 Sanborn ave., Cigar maker.
 Pitcher, Redington, 1 Thurston st., Salesman.
 Pitman, J. Russell, 9 Lee st., Clerk.
 Plumer, William E., 197 Washington st., Salesman.
 Plummer, Albert C., 20 Willow ave., Salesman.
 Pond, George W., 91 Bay State rd., Superintendent.
 Porter, C. Frank, 34 Franklin st., Musician.
 Potter, Archie S., 6 Liberty ave., Manager.
 Potter, Eugene V., 157 Walnut st., Civil engineer.
 Powell, Frank A., 9 Columbus ave., Machinist.
 Pratt, Rufus A., 84 Cross st., Salesman.
 Prescott, Horace A., 411 Highland ave., Milk dealer.
 Prescott, Oliver A., 50 Sydney st., Carpenter.
 Preston, Howard M., 1 Virginia st., Salesman.
 Preston, William A., 1 Virginia st., Shipper.

Price, Chester G., 67 Church st., Machinist.
 Price, Elmer A., 35 Bartlett st., Clerk.
 Prichard, John A., 24 Main st., Chauffeur.
 Prior, Charles W., 23 Greene st., Electrician.
 Proctor, Clarence D., 101 Highland ave., Salesman.
 Proctor, George Waldo, 44 Spring st., Grain dealer.
 Prouty, G. Edward, 205-a Summer st., Clerk.
 Pugh, Ambrose J., 106-a Concord ave., Teamster.
 Pugh, John, 38 Rhode Island ave., Salesman.

Q

Quayle, William, 16 Bedford st., Teamster.
 Quigley, Bernard L., 76 Broadway, Machinist.
 Quigley, James P. F., 567-a Somerville ave., Teamster.
 Quimby, Frank W., 309 Summer st., Stenographer.
 Quinlan, Daniel F., 22 Sewall st., Manager.
 Quinn, Daniel C., 98 Elm st., Photo engraver.
 Quinn, George, 42-r Merriam st., Laborer.
 Quinn, John J., 7 Shawmut st., Foreman.
 Quinn, Matthew, 42-r Merriam st., Laborer.
 Quinn, Walter M., 19-a Belmont st., Clerk.
 Quinn, William C., 19 1-2 Linden st., Barrel dealer.

R

Rand, Monroe C., 240 Powder House blvd., Salesman.
 Ranger, Reuben O., 71 Irving st., Painter.
 Rankin, Albert, 5 Irving st., Carpenter.
 Rapp, Henry W., 78 Fellsway West, Salesman.
 Rawles, Aaron B., 16 Broadway, Salesman.
 Ray, George E., 68 Rogers ave., Glass maker.
 Ray, John H., 20 Cypress st., Teamster.
 Raymond, Chester B., 45 Bromfield rd., Salesman.
 Raymond, Clifford H. M., 15 Mystic st., Packer.
 Raymond, John M., 37 Jaques st., Bookkeeper.
 Reardon, Maurice, 12 Houghton st., Car inspector.
 Reed, John T., 9 Franklin st., Painter.
 Reed, Nathan P., 42 Browning rd., Manager.
 Rees, Cyrus B., 35 Prospect st., Salesman.
 Rees, Warren C., 183 Willow ave., Inventor.
 Reid, Thomas A., 101 Willow ave., Telephone inspector.
 Remick, Lewis H., 45 Josephine ave., Mechanic.
 Reynolds, James B., 4 Concord ave., Machinist.
 Reynolds, Joseph J., 8 Calvin st., Printer.
 Rhodes, Harry L., 275 Summer st., Manager.
 Rice, Nathaniel P., 143 Summer st., Clerk.
 Rich, Everett L., 72 Bay State ave., Credit man.
 Rich, Herbert F., 3 Whitman st., Bookkeeper.
 Rich, Reuben D., 34 Grant st., Teamster.
 Richards, George W., 15 Hall ave., Clerk.
 Richards, Russell, 24 Harold st., Candy maker.
 Richardson, Frank P., 37 Walker st., Real estate agent.
 Richmond, Charles, 7 Munroe st., Salesman.
 Richmond, Samuel, Jr., 431 Norfolk st., Laborer.
 Riel, Henry A., 38 Lexington ave., Salesman.
 Riley, Charles E., 14 Boston st., Teamster.
 Riley, Edward H., 110 Josephine ave., Real estate dealer.
 Riley, Philip W., 55 Josephine ave., Pressman.
 Rines, Amos, 7 Herbert st., Driver.

Ripley, Lawrence G., 48 Rogers ave., Piano tuner.
 Rivers, Fred S., 35 Charnwood rd., Electrician.
 Roberts, Albert M., 30 School st., Foreman.
 Roberts, Henry P., 769 Broadway, Printer.
 Roberts, William H., 62 Chandler st., Clerk.
 Robertson, Enoch B., 87 Highland rd., Bookkeeper.
 Robie, Walter A. H., 227 Highland ave., Jeweler.
 Robinson, John, 155 Somerville ave., Stationary fireman.
 Robinson, Richard H., 18 Thorndike st., Core maker.
 Robinson, William F. S., 84 Pearl st., Artist.
 Rogers, Andrew J., 25 Bay State ave., Decorator.
 Rogers, Charles E., 452 Medford st., Salesman.
 Rogers, Francis F., 95 Highland ave., Painter.
 Rogers, Harold S., 452 Medford st., Insurance clerk.
 Rogers, Thomas H., 157 Beacon st., Shipper.
 Rokes, Wesley A., 2 Aberdeen rd., Carpenter.
 Rollins, Edgar J., 18 Kidder ave., Real estate agent.
 Rose, Edward, 127 Josephine ave., Florist.
 Rose, Henry C., 23 Fiske ave., Teamster.
 Rose, John T., 463 Medford st., Drug clerk.
 Rose, William G., 606 Broadway, Machinist.
 Rosenthal, William, 18 Otis st., Florist.
 Ross, John W., 7 Stickney ave., Electrician.
 Ross, William H., 37 Laurel st., Salesman.
 Rowe, Ernest L., 36 Simpson ave., Broker.
 Rowland, Samuel N., 244 Powder House blvd., Shipper.
 Rowland, William E., 36 Hamilton rd., Shipper.
 Royer, Clinton W., 19 Barton st., Traveling salesman.
 Rundle, William, 21 Wheatland st., Truckman.
 Rundlett, William E., 36 Russell rd., Printer.
 Rutherford, Harry W., 53 Webster st., Clerk.
 Ryan, Charles F., 94 Flint st., Manager.
 Ryan, Daniel M., 30 Moore st., Driver.
 Ryan, Frank P., 20 Belknap st., Shipping clerk.
 Ryan, Henry M., 18 Linden st., Tile layer.
 Ryan, Joseph A., 33 Dickinson st., Electrician.
 Ryan, Matthew J., 20 Columbus ave., Manager.
 Ryan, Patrick, 81 Marion st., Shipper.
 Ryan, William G., 29 Merriam st., Tile layer.
 Ryder, Carl E., 207 Morrison ave., Clerk.
 Ryder, Howard F., 54 Francesca ave., Salesman.

S

Sample, John J., 18 Cleveland st., Real estate agent.
 Sampson, Alfred N., 130 Powder House blvd., Agent.
 Sanborn, Carl H., 99 Summer st., Civil engineer.
 Sanborn, Sam S., 99 Summer st., Stock cutter.
 Sanborn, William B., 16 Kingston st., Pit foreman.
 Sargent, Charles W., 101 Rogers ave., Clerk.
 Sargent, John W., 20 Mystic ave., Cabinet maker.
 Sargent, Walter P., 75 Curtis st., Salesman.
 Saunders, Alfred J., 24 Powder House ter., Clerk.
 Sawyer, Henry R., 10 Browning rd., Clerk.
 Scanlon, Michael J., 70 Clarendon ave., Bricklayer.
 Scates, Karl D., 176 Powder House blvd., Salesman.
 Schultz, J. Irving, 26 Melvin st., Superintendent.
 Scott, Elton H., 92 Cross st., Agent.
 Scott, John Winfield, 35 Hawthorne st., Printer.
 Scully, Michael J., 39 Mansfield st., Checker.

Sears, George R., 19 Columbus ave., Clerk.
Seaver, Ora E. L., 63 Wallace st., Bookkeeper.
Seelig, Carl H., 69 Rush st., Machinist.
Sexton, Frank J., 20 Paulina st., Manager.
Seymour, Alfred A., 10 Brook st., Salesman.
Shapleigh, Ralph W., 44 Quincy st., Locksmith.
Sharkey, James F., 31 Thurston st., Manager.
Sharpe, Alvin I., 22 Oxford st., Machinist.
Shattuck, Ernest V., 59 Glen st., Grocer.
Shea, Edwin P., 11 James st., No occupation.
Shea, Frederick J., 1288 Broadway, Waiter.
Shedd, Guy A., 212 Highland ave., R. R. brakeman.
Sheedy, Thomas F., 17 Ashland st., Salesman.
Sheehan, Denis, 56-a Pinckney st., Watchman.
Sheehan, J. Francis, 35 Marion st., Teamster.
Sheehan, Thomas W., 13 Fitchburg st., Teamster.
Shepard, Frederick E., 191 Broadway, Merchant.
Sheppard, William H., 17 Moore st., Salesman.
Sheridan, George V., 40 Pearson ave., Salesman.
Sheridan, Robert F., 40 Pearson ave., No occupation.
Shippee, Fred W., 35 Hawthorne st., Packer.
Shirley, Percy E. S., 50 Vinal ave., Insurance agent.
Sholes, Harry W., 10 Cypress st., Chauffeur.
Shurtleff, Carroll K., 296 Highland ave., Salesman.
Siegel, Alexander J., 69 Webster ave., Blacksmith.
Silva, Charles, 390 Somerville ave., Salesman.
Simon, Moses H., 36 Washington st., Grocer.
Simonds, Edward, 10 Howe st., Salesman.
Simpson, Artemus D., 15 Lesley ave., Produce dealer.
Sinclair, George D., 26 Wesley st., Collector.
Slade, Franklin L., 353 Highland ave., Watchman.
Slager, Charles A., 42 Ivaloo st., Carpenter.
Sleeper, Fred A., 11 Park ave., Automobile dealer.
Small, Joseph P., 16 Spring st., Foreman.
Small, Ralph C., 7 Walnut rd., Salesman.
Smith, Albert, 104 Fremont st., Salesman.
Smith, Earl D., 30 Fountain ave., Teamster.
Smith, Frank W., 43 Curtis st., Real estate agent.
Smith, Franklin P., 90 Oxford st., Dentist.
Smith, Harold W., 106 College ave., Messenger.
Smith, James I., 29 Jay st., Carpenter.
Smith, Joseph, 47-a Conwell ave., Moulder.
Smith, Joseph J., 7 Durham st., Stationer.
Smith, Louis H., 49 Moore st., Salesman.
Smith, Otis D., 21 Thorndike st., Salesman.
Smith, Ralph W., 5 Avon st., Confectioner.
Smith, Reuben S., 11 Powder House ter., Clerk.
Smith, Thomas, 54-r College ave., Canner.
Snow, Edward L., 22 Temple st., Freight agent.
Snow, Wallace H., 42 Derby st., Foreman.
Snow, William A., 17 Francesca ave., Iron contractor.
Snowman, Linwood E., 20 Lovell st., Treasurer.
Southall, Samuel, 16 Pleasant ave., Janitor.
Souther, Charles E., 95 Kidder ave., Milliner.
Souther, Samuel C., 115 Belmont st., Clerk.
Southwick, Eugene H., 7 Moreland st., Railway guard.
Spaans, David, 26 Wisconsin ave., Pointer.
Sparrow, Harry J., 30 Hall ave., Sales manager.
Sparrow, William W., 98 Hancock st., Baker.
Spear, Charles W., 22 Gibbens st., Provision salesman,

Spence, Charles A., 27-r Sydney st., Painter.
 Spinosa, Ralph, 56 Warren st., Printer.
 Sprague, Harry R., 18 Hancock st., Clerk.
 St. Coeur, Alphonse J., 27 Putnam st., Telephone inspector.
 Steed, Herbert, 82 Highland rd., Printer.
 Stellar, Samuel, 7 Lowden ave., Tailor.
 Stephens, William J., 102 Cross st., Stationary engineer.
 Sterling, Elmer L., 24 Bradley st., Manager.
 Stetson, Walter E., 13 Browning rd., Bookkeeper.
 Stevens, James H., 18 Melvin st., Manager.
 Stewart, William J., 41 Walter st., Clerk.
 Stockelberg, Peter R., 24 Cutter st., Clerk.
 Stocker, Joseph F., 23 Thorndike st., Telephone installer.
 Stoddard, Frank W., 21-a Radcliffe rd., Chauffeur.
 Stone, George A. C., 14 Melvin st., Wire manufacturer.
 Storer, Fred E., 113 Glen st., Clerk.
 Story, William C., 50 Holyoke rd., Foreman.
 Strangman, Herbert T., 585 Broadway, Helper.
 Stromberg, Charles H., 9 Barton st., Manager.
 Strout, Frank W., 17 Flint st., Salesman.
 Sturtevant, George H., 64 Bow st., Salesman.
 Sullivan, Edward S., 81 Rogers ave., Clerk.
 Sullivan, Matthew W., 33 Joy st., Agent.
 Sullivan, Richard C., 36 Springfield st., No occupation.
 Sullivan, Richard F., 26 Pinckney st., Machinist.
 Sutherland, Fred, 97 Grant st., Stationary engineer.
 Swan, Porter E., 21 Michigan ave., Railroad conductor.
 Sweeney, John F., 15 Prospect Hill ave., Salesman.
 Swenson, James A., 22 Belknap st., Real estate agent.
 Syer, Harry A., 16 Aberdeen rd., Doorkeeper.

T

Taaffe, Samuel E., 159 Morrison ave., Nurse.
 Tabb, Foster F., 12 Leonard st., Salesman.
 Taft, Fred S., 67 Columbus ave., Clerk.
 Tarbell, Charles J., 36 Lowden ave., Composer.
 Tarbell, George W. Jr., 7-a Bradley st., Salesman.
 Tarbox, Edwin F., 30 Willoughby st., Yard master.
 Tarpey, John J., 25 Avon st., Barber.
 Tarpey, Michael J., 23 Fremont st., Foreman.
 Tasker, Cecil F., 32 Lexington ave., Clerk.
 Taylor, Alexander, 559 Somerville ave., Salesman.
 Taylor, Edwin R., 85 Lowell st., Foreman.
 Taylor, Ernest A., 15 Sargent ave., Trainman.
 Taylor, James C., 85 Lowell st., Tailor.
 Taylor, Ralph E., 44 Meacham rd., Insurance agent.
 Teague, Charles I., 5 Pearson rd., Traveling salesman.
 Terhune, Samuel L., Jr., 16 Banks st., Caterer.
 Thacher, James H., 96 Oxford st., Clerk.
 Thayer, William C., 103 College ave., Laundryman.
 Thibodeau, Samuel L., 16 Glendale ave., Machinist.
 Thomas, Fred, 18 Madison st., Salesman.
 Thompson, Clarence L., 9 Morgan st., Chauffeur.
 Thompson, Charles W., 237 School st., Music dealer.
 Thompson, George J., 55 Willow ave., Piano teacher.
 Thompson, Ralph M., 73 Simpson ave., Chemist.
 Thornton, Joseph H., 11 Jay st., Railroad conductor.
 Thurston, Ned F., 14 Landers st., Painter.
 Tierney, Thomas W. J., 208 Broadway, Priceman.

Tilton, Harold N., 73 Derby st., Teamster.
 Tirella, Sabato, 6 Mt. Vernon st., Machinist.
 Toby, Carl H., 7 Vinal ave., Printer.
 Toppan, Arthur W., 209 Highland ave., Manufacturer.
 Towle, Henry E., 249 Willow ave., Bookkeeper.
 Towne, Clifford P., 76 Fellsway West, Plumber.
 Townsend, Walter S., 29 Whitfield rd., Bookkeeper.
 Trask, Harry F., 80-a Fremont st., Stationary engineer.
 Traver, Edward L., 12 Miner st., Laundry proprietor.
 Treat, Frederick H., 306 Summer st., Salesman.
 Trefry, Albert C., 65 Adams st., Clerk.
 Trefry, Walter J., 65 Adams st., Shoe cutter.
 Trefry, William S., 74-a Fremont st., Salesman.
 Tripp, Walter E., 420 Broadway, Caretaker.
 Tripp, William A., 8 Pearl ter., Shipper.
 Trull, Alden H., 28 Kidder ave., Clerk.
 Trustenitzer, Samuel, 17 Cedar ave., Clerk.
 Tucke, Archie J., 916 Broadway, Traveling auditor.
 Tucker, Ralph, 10-a Everett ave., Driver.
 Tufts, Charles R., 11 Clarendon ave., Motorman.
 Turbert, Francis, 37 Calvin st., Foreman.
 Turner, Darwin H., 25 Leonard st., Laundryman.
 Turner, Edgar B., 15 Everett ave., Grocer.
 Turner, George C., 251 School st., Salesman.
 Twichell, George R., 11-a Columbus ave., Bookkeeper.
 Twitchell, Elmer, 72 Concord ave., Teamster.
 Twitchell, Ralph, 72 Concord ave., Electrician.

U

Underwood, Louis F., 50 Meacham rd., Bookkeeper.
 Union, William E., 11 Kingston st., Building inspector.

V

Vannah, Chester A., 1196 Broadway, Stationary engineer.
 Van Ummersen, William, 21-a Cambria st., Carver.
 Varney, Charles A., 25 Teele ave., Clerk.
 Viano, Frank E., 19 Dover st., Jeweler.
 Vilardo, Paul, 31 Ossipee rd., Barber.
 Voodry, Leo H., 35 Belknap st., Assistant superintendent.
 Vorce, Martin E., 29-a Putnam st., Stationer.

W

Wade, James H., 34 Spencer ave., Bookkeeper.
 Waldron, Ralph D., 15 Albion st., Grocer.
 Walker, Henry I., 5 Columbus ave., Clerk.
 Walker, Walter D., 88 Pearl st., Shipper.
 Wallace, James F., 203 Tremont st., Laborer.
 Wallace, William E., 88 Bartlett st., Interior decorator.
 Wallace, William J., 411 Highland ave., Shipper.
 Walsh, James, 6 Charles st., Teamster.
 Walsh, John, 31 Wilton st., Teamster.
 Walsh, John L., 213 Beacon st., Rubber cutter.
 Walsh, Stephen P., 36-r Glen st., Driver.
 Ward, Charles H., Jr., 125 Liberty rd., Plumber.
 Ward, William F., 10 Morton st., Machinist.
 Warner, Chester F., 24 Waterhouse st., Teamster.
 Warner, Frank O., 10 Ashland st., Machinist.
 Warner, John T., 10 Ashland st., Undertaker's assistant.

Warren, Harry E., 229 Morrison ave., Architect.
Warren, James E., 34 Summit ave., Tailor.
Waterhouse, Wesley D., 93 Washington st., Clerk.
Watson, Daniel H., 80 Holland st., Salesman.
Watson, Ralph W., 9 Greenville st., Merchant.
Watters, Robert D., 16 Ames st., Buyer.
Wattie, Harold F., 17 Sewall st., Chauffeur.
Watts, Edwin S., 33 1-2 Adrian st., Drug clerk.
Watts, Frederick W., 11 Madison st., Salesman.
Waugh, W. Whitney, 125 Highland rd., Bookkeeper.
Webster, Alexander S., 77 Columbus ave., Salesman.
Wedlock, Albert L., 9 Charnwood rd., Plasterer.
Weiner, Adam J., 19-a Morton st., Agent.
Weisslinger, Joseph W., 78 Morrison ave., Teamster.
Welch, John T. A., 32 Prescott st., Mason.
Wellington, W. Joseph, 11 Belknap st., Foreman.
Wellman, Arthur M., 62 Hall ave., Salesman.
Wells, John F., 10 Willow ave., Clerk.
Wentzell, E. W. Harry, 282 Summer st., Salesman.
Westcott, Frederick W., 16 Richardson st., Motorman.
Wetherbee, Fred E., 152 Walnut st., Paymaster.
Weyand, Martin C., 14 Buckingham st., Carpenter.
Wheeler, Frank A., 34 Evergreen ave., Accountant.
Wheeler, Lester E., 21 Langmaid ave., Shipper.
Whipple, Guy E., 48 Gilman st., Bookkeeper.
Whipple, William D., 74 Josephine ave., Clerk.
Whitaker, Howard H., 3 West st., Stationary engineer.
Whitaker, William L., 118 Josephine ave., Manager.
White, Carleton G., 124 Highland ave., Clerk.
White, Charles F., 25 Columbus ave., Accountant.
White, Frank H., 14 Montgomery ave., Map moulder.
White, Richard, 295 Washington st., Freight handler.
Whitman, Burton S., 26 Pearl st., Teamster.
Whitney, George W., 130 Sycamore st., Bookkeeper.
Whittum, Norman A., 51 Simpson ave., Teamster.
Whitworth, Fred A., 3 Hillside ave., Conductor.
Wiggin, Albert L., 15 Knapp st., Salesman.
Wiggin, Leon B., 15 Knapp st., Mechanic.
Wilbur, Moses F., 227 Morrison ave., No occupation.
Wilder, Harry F., 20 Gilman st., Shipper.
Wiley, Henry C., 75 Thurston st., Banker.
Wiley, William S., 77 Grant st., Clerk.
Wilkinson, Frederick O., 40 Grant st., Foreman.
Williams, Adin E., 32 Fosket st., Salesman.
Williams, Edward E., 39 Prescott st., Stenographer.
Williams, W. Louis, 178 Powder House blvd., Broker.
Williams, Ralph E., 45 Marshall st., Delivery clerk.
Williamson, William J., 40 Otis st., Teamster.
Willis, Henry J., 12 Woodbine st., Woodworker.
Wilmarth, Harry T., 14 Walnut rd., Machinist.
Wilson, Daniel S., 56 Lowden ave., Electrician.
Wilson, Harry A., 34 Tower st., Foreman.
Wilson, J. Albert, Jr., 52 Brastow ave., Musician.
Wilson, James C., 45 Grove st., Gas fitter.
Wilson, Stanley W., 10 Dresden cir., Electrician.
Wilson, Thomas M., 16 Laurel st., Grocer.
Wilson, William O., 6 Albion ter., Bridge builder.
Winchenbaugh, Leslie F., 5 Granite st., Clerk.

Winchester, Royal E., 41 Chetwynd rd., Electrician.
 Wing, John G., 14 Oxford st., Salesman.
 Wiseman, George E., 78 Bay State ave., Trainman.
 Withington, Henry A., 189 Summer st., Bookkeeper.
 Wolf, John, Jr., 13 Fosket st., Produce merchant.
 Wood, George W., 51 Bow st., Grocer.
 Wood, Percy O., 150 Powder House blvd., Credit mgr.
 Woods, Frank W., 34 Myrtle st., Inspector.
 Woods, James A., 57 Pennsylvania ave., Stationary eng.
 Woodward, Leonard S., 52 Dartmouth st., Bookkeeper.
 Wright, Emory T., Jr., 24 Paulina st., Clerk.
 Wyman, Harry E., 18 Tower st., Salesman.

Y

Yeomans, James E., 8 Ellsworth st., Inspector.
 Young, Charles E., 41 Webster st., Laundryman.
 Young, George W., 53 Grant st., Salesman.

EDWIN D. SIBLEY, Chairman.

DOUGLASS B. FOSTER,

CHARLES LEO SHEA,

FREDERIC W. COOK,

Board of Registrars of Voters.

CITY GOVERNMENT AND OFFICERS FOR 1915.

Mayor.

Zebedee E. Cliff,
29 Powder House Terrace.

Board of Aldermen.

President, William P. French.
Vice-President, James A. Butler.

WARD ONE.

William Fleming, Alderman-at-large	73 Florence street
Wallace E. Loveless	91 Perkins street
William J. Casey	15½ Alston street

WARD TWO.

George W. Pratt, Alderman-at-large	35 Clark street
Robert C. Harris	12 Dimick street
Maurice F. Ahearn	21 Linden street

WARD THREE.

Oscar W. Coddington, Alderman-at-large	21 Pleasant avenue
Charles M. Austin	23 Berkeley street
George W. Brown	7 Berkeley street

WARD FOUR.

Edwin Connell, Alderman-at-large	150 Pearl street
William H. Andrews	18 Walnut road
Arthur N. Richardson	68 Bonair street

WARD FIVE.

Fred E. Durgin, Alderman-at-large	52 Albion street
William G. Cummings	82 Thurston street
Hermon A. Fleming	51 Heath street

WARD SIX.

Arthur W. Robinson, Alderman-at-large	118 Highland road
James A. Butler	286 Highland avenue
Warren C. Blair	26 Tower street

WARD SEVEN.

William P. French, Alderman-at-large	13 Thorndike street
Warren C. Daggett	28 Belknap street
Almon W. Preble	28 Francesca avenue

City Clerk—Frederic W. Cook.

Assistant City Clerk—Jason M. Carson.

City Messenger—Fred E. Hanley.

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS—Aldermen Coddington, Pratt, Durgin, Connell and Casey.

FINANCE—The President, Aldermen Cummings, Richardson, Casey, Austin, Ahearn and Blair.

LEGISLATIVE MATTERS—Aldermen Connell, Butler, Harris, Brown and Loveless.

LICENSES AND PERMITS—Aldermen Robinson, Fleming of Ward 1, Coddington, Richardson, Preble, Fleming of Ward 5 and Ahearn.

PUBLIC PROPERTY—Aldermen Cummings, Preble, Butler, Loveless and Brown.

PUBLIC SAFETY—Aldermen Harris, Robinson, Daggett, Fleming of Ward 5 and Andrews.

PUBLIC WORKS—Aldermen Durgin, Fleming of Ward 1, Andrews, Daggett, Blair, Pratt and Austin.

School Committee.

Chairman.—GEORGE E. WHITAKER.

Vice-Chairman.—CLARENCE W. WILLIAMS.

(Term, two years, except members ex-officiis.)

ZEBEDEE E. CLIFF, Mayor (ex-officio), 29 Powder House terrace.

WILLIAM P. FRENCH, President Board of Aldermen (ex-officio),
13 Thorndike street.

WARD ONE.

MARY G. WHITING (elected 1913), 7 Wheeler street.

THOMAS KELLEY (elected 1914), 8 Rush street.

WARD TWO.

DANIEL H. BRADLEY (elected 1913), 19 Concord avenue.

CHRISTOPHER MULDOON, JR., (elected 1914), 88 Concord avenue.

WARD THREE.

GEORGE E. WHITAKER (elected 1913), 75 Walnut street.

ALBERT C. ASHTON (elected 1914), 33 Columbus avenue.

WARD FOUR.

HARRY A. STONE (elected 1913), 254 Broadway.

FRANK H. HOLMES (elected 1914), 22 Walter street.

WARD FIVE

JULIA R. ALDRICH (elected 1914), 262 School street.

HARRY M. STOODLEY (elected 1914 to fill vacancy), 283 Highland avenue.

WARD SIX.

MARY R. BREWER (elected 1914), 170 Summer street.

GUY E. HEALEY (elected 1913), 34 Benton road.

WARD SEVEN.

HERBERT CHOLERTON (elected 1914), 94 College avenue.

CLARENCE W. WILLIAMS (elected 1913), 205 Morrison avenue.

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 1916).

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).

JOHN A. BLASER (term expires 1916).

RALPH F. HODGDON, M. D., (term expires 1916).

Clerk, Laurence S. HOWARD.*Agent*.—CALEB A. PAGE.*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 1916).

ALBERT W. EDMANDS (term expires 1917).

PHILIP KOEN (term expires 1918).

Agent.—CHARLES C. FOLSOM.*Secretary*.—CORA F. LEWIS.*Warden City Home*—J. FOSTER COLQUHOUN.*Matron City Home*—CATHERINE COLQUHOUN.

Office open: 8 A. M. to 4 P. M., Saturdays, 8 A. M. to 12 M.

Planning Board.

(Term, two years.)

WILLIAM H. SMITH, Chairman (term expires 1916).

WALDO E. DODGE, Secretary (term expires 1917).

CHARLES F. MAGUIRE (term expires 1916).

HERMON C. BUMPUS (term expires 1916).

AUSTIN M. PINKHAM (term expires 1916).

ERNEST W. BAILEY (term expires 1917).

ALMON F. HEALD (term expires 1917).

Registrars of Voters.

(Term, three years.)

EDWIN D. SIBLEY, Chairman (term expires 1918).

DOUGLASS B. FOSTER (term expires 1917).

CHARLES LEO SHEA (term expires 1916).

FREDERIC W. COOK, City Clerk (term expires 1917).

Public Library Trustees.

(Term, three years.)

THOMAS M. DURELL, Chairman (term expires 1916).

J. FRANK WELLINGTON (term expires 1917).

FREDERICK W. PARKER (term expires 1918).

WILLIAM L. BARBER (term expires 1916).

CHARLES L. NOYES (term expires 1917).

W. DUDLEY YATES (term expires 1916).

HERBERT E. BUFFUM (term expires 1917).

GILES W. BRYANT (term expires 1918).

DAVID H. FULTON (term expires 1918).

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 2 P. M.; Saturdays, 8 A. M. to 12 M.

City Messenger.

FRED E. HANLEY.

Mayor's Secretary.

FRED E. WARREN.

City Solicitor.

FRANK W. KAAH,
50 State street, Boston.

City Auditor.

HOWARD E. WEMYSS,
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

City Engineer.

ERNEST W. BAILEY.
Office open: 8 A. M. to 4 P. M.; Saturdays, 8 A. M. to 12 M.

Commissioner of Streets.

ASA B. PRICHARD.
Office hour: 9.30 to 10 A. M.

Commissioner of Public Buildings and Inspector of Buildings.

WALTER T. LITTLEFIELD.
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 hours: 9 A. M. to 12 M.

Registration Clerk, City Laborers.

FORREST D. COOK.

Fence Viewers.

CHARLES M. BERRY,
60 Prescott street.
ALBERT FISKE,
47 Prescott street.

Burial Agent.

UNDER REVISED LAWS, CHAPTER 79, SECTION 2

JOHN H. DUSSEAULT,
42 Sargent avenue.

Constables.

CHARLES M. AUSTIN.	FRED E. HANLEY.
HENRY T. BATES.	JAMES M. HARMON.
CHARLES W. BENNETT.	CHARLES A. KENDALL.
GEORGE H. CARLETON.	JOHN J. MCCARTHY.
EUGENE A. CARTER.	EDWARD E. MARSH.
WINSLOW W. COFFIN.	CHARLES B. PALMER.
WILLIAM E. COPITHORNE.	JOHN F. SCANNELL.
ALBION B. CROCKER.	MALCOLM E. STURTEVANT
THOMAS DAMERY.	FRED S. WAUGH.
CHARLES L. ELLIS.	HERBERT WILSON.
CHARLES C. FOLSOM.	CHARLES E. WOODMAN.
ERNEST W. GAY.	

Measurer of Wood and Bark.

CHARLES A. HANDY.
NORMAN A. WHITTUM.

Measurer of Grain.

EVERETT C. EMERY

Public Weigher in Charge of City Scales at City Ledge.

WILLIAM H. WHITCOMB.

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