(3)

## CITY OF SOMERVILLE

## MASSACHUSETTS

## ANNUAL REPORTS

## 1920



## REPORT OF THE CITY AUDITOR.

> Office of the City Auditor, January $26,1921$.

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 1920, showing in detail the appropriations and expenditures, and the receipts from each source of income, also a statement of the funded debt and temporary loans together with a balance sheet showing the assets and liabilities at the close of the financial year.

Respectfully' submitted,
Howard E. Wemyss, City Auditor.
BALANCE SHEET，DECEMBER 31， 1920.

## Revenue Account

| G9 | $608^{\prime} \ddagger$ |
| :---: | :---: |
| ¢\％ | 9L0＇L |
| 0 S | 06 |
| 99 | L6\％ |
| 89 | 689＇L |
| 6 I | ［69＇\％ |
| 8 C | L20＇8 |
| 00 | 000‘979\＄ |

LL $066^{\prime}$ \％\＄

| $06998.692 \$$ |
| :---: |
| 98 ¢Gf「89 |
| ¢¢ 97で8\＄ |

8
8
6
6
0
0
0
0
6
Lemporary Loans
SIABILITIES
State Income Tax 1920 Excess
Unexpended balances：
Income of Trust Funds
Appropriations
Tailings
Premiums on Bonds．
Revenue from Taxes，Supple－
mentary Warrants
R．evenue Reserved when Collected：
Departmental Bill Receivable
Overlay，Reserved for Abatements：
Levy of 1920
Levy of 1918
Levy of 1917

Reserve Fund，Surplus and
Overlays
Excess and Deficiency

$\$ 759,35690$
Cash in Banks and Offices
Net Bonded Debt
BALANCE SHEET. - Continued.
Non-Revenue Accounts.
\$71,708 70
$\$ 1,124,00000$
$\frac{24,000}{} 00$
$\$ 1,148,000 \quad 00$
$\$ 27,09624$


CASH STATEMENT, DECEMBER 31, 1920.

## REVENUE.

Receipts.

| General:- Receipts |  |
| :---: | :---: |
| Taxes | \$2,622,110 44 |
| Corporation, Bank and Income Taxes | 275,070 41 |
| Licenses and Permits | 9,656 50 |
| Fines and Forfeits | 4,012 84 |
| County of Middlesex, Dog Licenses | 2,180 85 |
| Comm. of Mass. Vocational Schools | 9,112 24 |
| Comm. of Mass. Americanization | 60230 |
| Smith-Hughes Fund | 2,220 09 |
| State in lieu of taxes | 9366 |
| Excise Tax | 6409 |



Water Department Accounts
Interest on deposits, taxes etc.
Temporary Loans
Premiums on Loans
Refunds
Total receipts
Balance at beginning of period

258,339 42
23,046 42
1,883,000 00
$90 \quad 50$
$\$ 2,925,12342$

64,44124
117.506


1,836 56
$\$ 5,273,38435$
163,241 54
\$5,436,625 89

# CASH STATEMENT, DECEMBER 31, 1920. - Continued. 

## Payments.



Total Payments
Transfer to Non-Revenue Balance on hand
\$5,109,104 99
104,313 17
223,207 73
$\$ 5,436,62589$

## NON-REVENUE.

Receipts.

| Extreme Emergency, Bills | Receivable | \$12 43 |
| :---: | :---: | :---: |
| Redemption of Tax Titles | . . | 2,938 64 |
| Funded Debt Loan | . $\cdot$ | 50,000 00 |
| Refunds | . ${ }^{\text {. }}$ | 1,358 34 |

Total Receipts Revenue
Transfer from Reginning of period
Balance at begin.
Payments.
\$54,309 41
104,313 17
37,554 23
$\$ 196,17681$
Appropriations . . . . . . \$121,529 47
Redemption of Tax Titles
2,938 64
Total Payments
\$124,468 11
Balance on hand
71,708 70
$\$ 196,17681$

## Summary.

Total Revenue Receipts
\$5,273,384 35
Total Non-Revenue Receipts

Total balance at beginning of period

Total Revenue Payments
Total Non-Revenue Payments

Total balance on hand
\$5,327,693 76 200,795 77
\$5,528,489 53
\$5,109,104 99
124,46811
$\$ 5,233,57310$
294,91643
$\$ 5,528,48953$

| Total |  |
| ---: | ---: |
| $\$ 329,436$ | 81 |
| $2,717,925$ | 49 |
| $\$ 3,047,362$ | 30 |
| $2,621,108$ | 33 |
| 23,818 | 09 |
| $\$ 2,644,926$ | 42 |
| 402,435 | 88 |
| Total |  |
|  | $\$ 936$ |
|  | 24 |
| 25,795 | 32 |
| 57,868 | 37 |
| $\$ 84,599$ | 93 |
|  |  |
| 64,274 | 21 |
| 325 | 93 |
| $\$ 64,600$ | 14 |
| 19,999 | 79 |
| 2,707 | 78 |
| 17,292 | 01 |
| $\$ 19,999$ | 79 |




|  | 88 |
| :---: | :---: |
| ONT | $\bigcirc$ |
|  | 앙 |
| バベブ | $0 \cdot \mathrm{~F}$ |
|  | $\bigcirc$ |
|  | $\bigcirc$ |


TAXES－SPECIAL ASSESSMENTS．

| Excise Tax | 1917 | 1918 |
| :---: | :---: | :---: |
|  | \＄947 80 | \＄985 92 |
| $\$ 37751$ | ．．．．．．．． | 400 |
| \＄377 51 | $\$ 94780$ | \＄989 92 |
| 6409 | 5920 | 25256 |
| ．．．．．．．．．．．． | 70.40 | 38416 |
| \＄64 09 | \＄129 60 | \＄636 72 |
| 31342 | 81820 | 35320 |
| Street Sprinkling | Moths | Sewer |
| ．．． | ．．．．．．．．．． | ．．．．．．．．．．．． |
| \＄6，535 99 | \＄234 00 | ．．． |
| 44，662 08 |  | ．．．．．．．．．．．． |
| \＄51，198 07 | $\$ 23400$ | ．．．．．．．．．．． |
| 43，371 48 | 23400 | ．．．．．．．．．．．． |
| 32593 | ．．．．．．．．．．．． | ．．．．．．．．．．．． |
| \＄43，697 41 | $\$ 23400$ |  |
| 7，500 66 | ．．．．．．．．．．． | ．．．．．．．．．．． |

Uncollected January 1， 1920
Commitments

$$
\begin{aligned}
& \text { Total to collect in } 1920 \\
& \text { Collections (less refunds) }
\end{aligned}
$$ Abatements

Total collections and abatements
Uncollected December 31,1920 ．

Total Uncollected Assessments




[^0]

WATER DEPARTMENT ACCOUNTS (REVENUE).








| ¢ | $\underset{\sim}{4}$ | 810 | $\stackrel{ }{ }$ |
| :---: | :---: | :---: | :---: |
| F | H | ¢ 0 | $\cdots$ |
|  | ${ }_{0}^{\circ}$ | -1N |  |


| $3,771 \quad 10$ |
| ---: |
| $972 \quad 75$ |
| $\ldots \ldots \ldots . .$. |
| $\$ 41,54649$ |





Deferred Taxes
Deferred Assess
Deferred Assessments
. Totals
Estimate
Actual
Balance to Excess and Deficiency

| 46 LI |
| :---: |
| G\% II |
| 7, ¢ 9\%L |
| $\varepsilon 8$ I |
| ¢\% 787 |
| 098 8 |
| 68 てЂ\$ |


$\infty \times \infty$
$-\infty \frac{1}{4}$
に80


10
10 -

 uo!̣e!̣aoxddv uo!̣e!̣doaddv

8888698
$88 \stackrel{10}{4} 8888$
8

888

 8,340 1006
1050
$10 \%$


 $\$ 85000$ $\vdots$
$\vdots$
$\vdots$
$\vdots$ $\begin{array}{ll}08 \\ 08 \\ 10 & \infty \\ \infty & 0\end{array}$ $200 \quad 00$ 41000 898
1008
70 Trans, from
............
$\ldots . \ldots \ldots .$.
$\$ 5000$
$\ldots \ldots \ldots .$.



0
$\vdots$
10
$\vdots$
: ppropriation


8,14000 88
98
70
7
 General Government Board of Aldermen Clerk of Committees Eixecutive Department Auditing Department Treasury Department Assessons' Department Pedlers' License Commission Board of License Commissioners
Certification Certification of Notes and
Bonds . City Clerk's Department Registration City Laborers Law Department City Messenger's Department
 Commissioner of Public BuildMaintenance Municipal Buildings City Planning Board Election Expenses, City Clerk Election Expens,es, Registrars of Voters

Pay of Election Officers Maintenance Polling Places .




| ¢ ¢ サ |
| :---: |
|  |
| ¢8\% |
| - \% ¢ |



 88교 9888988 Total

Credit
 8
0
10
18
 Receipts and Service Trans. ppropriation
Trans. to

|  |  |
| :---: | :---: |
| ~ヶ | $\cdots$ |
| ${ }^{\infty}$ | 7 |
| ! \% | 18 |


 Appropriation Trans. from $3,000 \quad 00$

| $\vdots 8$ | $\vdots 8$ | $\vdots$ | $\vdots$ | $\vdots$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\vdots$ | $\infty$ |  |  |  |
| $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ |
| $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ |


| 8 | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots 88$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\circ$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ |  |
|  | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $4,450 \quad 00$ Appropriation

$$
888
$$

8
ㅇ8ㅇㅇㅇㅇㅇ 17,180
1,300
24,415 4,510
 Protection of Persons and

Maintenance Police Buildings Fire Department . . . Maintenance Fire Buildings Weights and Measures Maintena Departmenical partment Building Suppression of Moths Care of Trees

Health and Sanitation. Health Department

Vital Statistics .
Contagious Hospital
Maintenance Contagious Hos-
pital
Inspection
Inspection Animals and Pro-
visions
Inspection Milk and Vinegar Inspection School Children. School Nurses' Salaries Maintenance Sewer Buildings Sanitary Department

$$
\begin{aligned}
& 888888888
\end{aligned}
$$



кวuә！̣ขyə


| 98 | － | 8 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\sim}{\infty}$ | $\infty$ | ก | com N N O O |  |



| 10 | ค | －18 | Fi8988 | の内人 No |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6 \\ & \stackrel{0}{4} \end{aligned}$ | $\stackrel{\infty}{\infty}$ | $\stackrel{\infty}{\infty}$ |  |  |
| ミ゙ | $\stackrel{\text { N゙ }}{ }$ | $\infty$ | त－TN |  |


|  | 88 | N¢88 | 8 |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 88 \\ & \infty 8 \\ & \infty \\ & 0 \\ & \text { م } \end{aligned}$ | $\begin{aligned} & \text { N M N } \\ & \text { № } \\ & \text { Fin M N } \\ & \text { Fin } \end{aligned}$ |  |
|  |  | ค）${ }^{\circ}$ | 9 |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \sim \\ & 0 \\ & 0 \end{aligned}$ |  |  | $\stackrel{9}{7}$ |


| 18 | 8 | 8 | 88888 | 108N |
| :---: | :---: | :---: | :---: | :---: |
| 9 | $\infty$ | $\bigcirc$ |  | ヘ10\％$\sim_{0}$ |
| － | $\bigcirc$ | $\stackrel{7}{7}$ | $\cdots$ ¢ 0.0 | － 0 N |
| $\stackrel{\infty}{\sim}$ | $\stackrel{\sim}{-}$ | ＊゙ | 「iनinio | だががぐ |
|  |  |  |  | み尤 |


| 15 | 8 | \％888 | 18 | N－No |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \infty \\ & \underset{\sim}{\infty} \end{aligned}$ | ค | ！om | $\stackrel{10}{1}$ |  |

STATEMENT OF APPROPRIATIONS，
Appropriation Appropriation Appropriation Aprons from Trans．to

| $\vdots$ | 888 |
| :---: | :---: |
| $\vdots$ | 1080 |
| $\vdots$ | 10 |
| $\vdots$ | 10 |


| $\vdots$ | 8 | $\vdots$ | $\vdots$ | 8 | $\vdots$ | $\vdots$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\vdots$ |  |  |  |  |  |  |
| $\vdots$ |  | $\vdots$ | $\vdots$ | 10 | $\vdots$ | $\vdots$ |
| $\vdots$ |  | $\vdots$ | $\vdots$ | 7 | $\vdots$ | $\vdots$ |





Receipts and
Service Trans.

$\begin{array}{cccccccc}\text { N } & \vdots & \vdots & \vdots & \vdots & \vdots \\ \text { 円 } & \vdots & \vdots & \vdots & \vdots & \circ \\ & \vdots & \vdots & \vdots & \vdots & 0\end{array}$

Appropriation Appropriation
Trans. from Trans. to

Central Library
Maintenance Central Library
West Somerville Branch Li-
brary
Maintenance West Somerville
Branch Library
East Somerville Branch Li-
brary
Maintenance East Somerville
Branch Library
Union Square Branch Library
Maintenance Union Square
Branch Library
Recreation and Unclassified
Parks Maintenance Parks Maintenance
Maintenance Park Buildings Playgrounds Maintenance. Recreation and Playground
Commission . 8
8
8 88
88
78

$\pi$ | $\approx 8$ |
| :--- |
| 0 |
| 0 |
|  |
|  |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |

.........................

............
20000
$\cdots \cdots \cdots$
22000
88
80
8 O
$\infty$





00 £99 $\quad \mathbf{z}$

898888888
8
8
8
10

## Central Library

Maintenance Central Library Maintenary
Branch Library East Somerville Branch Li-
brary
Maintenance East Somerville
Union Square Branch Library
Maintenance Union Square Branch Library Celebrations
Memorial Day
Municipal Documents
Maintenance Bandstand
Contingen't Fund
Workmen's Compensation
Damage to persons and Personal Property


STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).
Appropriation Appropriation Receipts and Total
NO N8888

Service Trans.

2,000
129,390
$\underset{\leftrightarrow}{\circ}$
51042
13200
5,594 79

$\$ 46,067 \quad 09$
Appropriation Appropriation
Trans. from Trans, to
.......... 2,90950
3,400 00

$\$ 23,69708$ 5,800
00
125
00 $\frac{50950}{\$ 20,47208}$
$\$ 2,728,71600 \$ 20,47208$
Appropriation
$* \$ 114,140 \quad 00$
$209368 \quad 00$
209,368 00
 $129,900 \quad 00$ Municipal Indebtedness
Interest
Reduction of Funded Debt.
Water Works
Water Maintenance
Water Works Extension .
Maintenance Water Buildings
Interest on Water Bonds .
Reduction of Water Debt.
Metropolitan Water Assess-
ment . .
Total Appropriations .

* Including balance of $\$ 1,215.00$ from 1919.
$\dagger$ Reserved for 1921, $\$ 7,68958$.
STATEMENT OF APPROPRIATIONS， 1920 （REVENUE）．
Balance to
1921
$\$ 52143$
1,42309




|  |  |
| :---: | :---: |
|  |  |
| $\infty$ |  |



| 0才 9GL＇t8I＇G |  |  |  |  | － |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L\＆8もL＇90才＇${ }^{\text {d }}$ | 96＊c98＇8\＄ | ［9 \＆LL＇万\＄ | － | － | － | － | － |
| 90 矿 | ．．．．．．．．．．．． | ．．．．．．．．．．．． | － | － | － |  | － |
| 9928 | ．．． | ．．．．．．．．．．．． | － | － | － | － | － |
| 80 L9T | ．．．． | ．．． | － | － | － |  | － |
| ［9 890＇L | ．．．．．．．．．． | ．． | － | － | － | － | － |
| 88 9I | ．．． | ．．． | － | － | － | － | － |
| З¢ 0I | ．．．．．．．．．．．． | ．．．．．．．．．．．． | － | － | － |  | － |
| LI 90I＇t | ．．．．．．．．．．． | ．．．．．．．．．．． | － | － | － |  |  |
| 0009 | ．． | ．．．．．．．．．． | － | － | － |  | ． |
| 67 789＇L0L | ．．．．．．．．．．． | ．．．．．．．．．．． | － | － | － |  |  |
| 08 8T9＇709 | ．．． | ．．． | － |  | － |  |  |
| $00000 \cdot 98 L^{\prime}$＇L | ．．．．．．．．．．． | ．．．．．．．．．． |  | － | － |  |  |
| $20 \quad 20 \%$ | 9092 | 30 6\＆I | － | － | － | － | － |
| 869 | $09 \square$ | 87 | － | － | － | － | － |
| 6 L － | 78 \％も | L\＆［8 | － | － | － |  |  |
| ¢L 8．98， | 68［LI | \％t 665 |  | － | － |  |  |
| LL $60 \%$ |  | LL 60\％ | － |  | － |  | － |
| ¢8 86も | 67 967 | 998 | － |  | － |  |  |
| 680 IT | 0926 | 68 \％L\＆ | － | － | － |  |  |
| 80 \＆ | 88 2t | ¢ 1 | － | － | － | － | － |
| ¢6 799＇\＆ | 60 07\％＇\％ | 98 \％も¢＇L | － | － | － |  | － |
| ［9 L0L\＄ | 09 －LZ\＄ | IT 86も\＄ | － | － | － |  | － |
|  | s7d！̣əวəบ | 6 66T uodj |  |  |  |  |  |
| ［セ70．L |  | әวบејеg | ， |  |  |  |  |
| $\cdot(\exists \cap$ Nヨヘ | （ヨy）0z6L | NOI $\downarrow$ Vİd | dd | $\pm 0$ | N |  |  |

Other Accounts．
Income of Trust Funds：－
School：－

State Taxes and Assessments
County Tax
Advance to Poor Department Tax Titles Real Estate Liens Sbiorts Tellers＇Overs and Shorts
Refunds：－
Special Assessments
National Bank Tax
Total Other Accounts
Revenue Totals

| $\stackrel{\sim}{*}$ | $\infty$ | ¢ | 8 | \% | 8 | $\infty$ | 5 | $\cdots$ | $\stackrel{\sim}{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \mathscr{0} \\ & 0 \\ & 0 \\ & \infty \\ & \infty \end{aligned}$ | $\begin{aligned} & 10 \\ & \infty \\ & \infty \end{aligned}$ | $\begin{aligned} & 8 \\ & \text { on } \\ & \text { in } \end{aligned}$ |  | $\stackrel{\square}{7}$ | $\begin{aligned} & \infty \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | $\infty$ $\infty$ $\infty$ $\infty$ |  | $\bigcirc$ |

Expenditures

$\ldots \ldots \ldots \ldots$.
$\$ 3,94763$

STATEMENT OF APPROPRIATIONS, 1920 (NON-REVENUE).

| Balance | Appro- Appropriation Appropriation Receipts and | Total |  |
| ---: | :---: | :---: | :---: |
| from 1919 | priation | Transfer from Transfers to ServiceTrans. | Credit |

Protection of Persons and Personal
Property.
Electrical De-
Protection of Persons and Pe
Property.
Electrical De-
Dectrical De -
partment, Un-
partment, Un-
derground
Wires
$\$ 3,263 \quad 93$
$4,766 \quad 18$
4,93299
$21,300 \quad 00$
$5,072 \quad 97$

| 8 |
| :--- |
| 8 |
| 0 |
| 0 |
| 0 |

8
0
0
8
8
13,35021
8


0
4
0
0
0
8
$\begin{array}{ll}8 & \text { - } \\ 8 & 0 \\ 8 & 1 \\ 8 & 1 \\ \infty & \end{array}$
Balance Appro- Appropriation Appropriation Receipts and
priation
Wires
Extreme.
Extreme. Emer-
gency, Health
gency, Health
and Safety
Hepart-
Fire Depart-
tional Appara- $\qquad$
Sewers Con-
struction
68475
$\$ 1,650 \quad 00$
$\vdots$
$\vdots$
$\vdots$

| Expenditures | $\begin{gathered} \text { Balance to } \\ 1921 \end{gathered}$ |
| :---: | :---: |
| ............ | 1,046 70 |
| ............ | 3,53988 |
| .......... | 35335 |
| 3,28500 | .......... |


| 7 | $\cdots$ | P |  | $\bigcirc$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \infty \\ & \stackrel{\sim}{0} \\ & \infty \end{aligned}$ | $\underset{\substack{\infty \\ \multirow{2}{*}{}}}{\substack{0}}$ | $\begin{aligned} & \infty \\ & \stackrel{\infty}{0} \\ & \underset{\sim}{-} \\ & \hline \end{aligned}$ |  | - |

$$
\begin{aligned}
& \text { Шु) 잉 }
\end{aligned}
$$



New School
Building, East
Somerville
Schoolhouses,
Sprinkler Sys-
tems .
Boys' Industrial
School Addi-
dition, No. 2 .
C um m in g
School Re-
pairs .

[^1]Other Accounts Redemption Tax Redemption Tax
Liens . .

Non-Revenue
Totals

## COMMONWEALTH OF MASSACHUSETTS.

## Payments.

| State Tax | \$245,420 00 |
| :---: | :---: |
| Special State Tax | 11,569 80 |
| State Highway Tax | 48156 |
| Non-Resident Bank Tax | 3,820 61 |
| Metropolitan Sewer Assessment | 89,939 26 |
| Metropolitan Park Assessment | 57,509 59 |
| Wellington Bridge Assessment | 1,977 40 |
| Wellington Bridge Special Assessment | 1,543 30 |
| Grade Crossings Assessment . . | 9,171 80 |
| Charles River Basin Assessment | 9,693 89 |
| Alewife Brook Assessment | 1,140 65 |
| Abatement of Smoke Assessment | 40075 |
| Fire Prevention Assessment . | 1,290 82 |
| Soldiers' Exemption Assessment | 30437 |
| Poll Taxes, Chap. 283, Acts 1919 | 68,355 00 |
| Refund National Bank Tax 1919 | 1405 |

Total

## Receipts.



Total

COUNTY OF MIDDLESEX.
County Tax

## STATEMENT OF REVENUE AND EXPENSES.

Revenue.


|  | 웃ㅇํ 옹ㅇㅇㅇㅇㅇㅅㅇㅅㅇํ <br>  |  |  <br>  |
| :---: | :---: | :---: | :---: |
| డ |  | -i |  |
|  |  |  |  |







| 125,000 | 00 |
| ---: | ---: |
| 100,000 | 00 |
| 75,000 | 00 |
| 50,000 | 00 |
| $\$ 1,883,000$ | 00 |
| 527,000 | 00 |
| $\$ 2,410,000$ | 00 |
| $1,785,000$ | 00 |

8888
(O 101010

| Sept. 10, 1920 | Jan. 31, 1921 |  |
| :--- | ---: | :--- |
| Sept. 27, 1920 | April 14, 1921 |  |
| Oc.t. 8,1920 | Feb. 10, 1921 |  |
| Oct. | 8,1920 | June 15, 1921 |



* Coupon Notes, Interest Payable Semi-Annually.


## FUNDED DEBT.

The total funded debt of the city January 1, 1920, was $\$ 1,309,500$. The debt was increased by one new loan of $\$ 50,000$. Debt reductions on account of maturities were $\$ 211,500$, making the total funded city debt December 31, 1920, $\$ 1,148,000$. Final payment was made on Water Loan Bonds and the debt on account of city water works is extinguished.

## Classified Debt January 1, 1920.

| City Loan |  |  |  |  | $\$ 397,500$ | 00 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Municipal Loan | . | . | . | . | 31,000 | 00 |
| Sewer Loan | . | . | . | . | 239,000 | 00 |
| Public Building Loan |  | . | . | . | 278,000 | 00 |
| Highway Loan | . | . | . | . | 289,000 | 00 |
| Bridge Loan | . | 30,000 | 00 |  |  |  |
| Emergency Loan | . | . | . | . | 15,000 | 00 |

Total within limit
$\$ 1,279,50000$
Sewer Loan
$\$ 18,00000$
Metropolitan Park Loan . . . 10,00000
Water Loan
2,000 00

| Total outside limit | . | 30,00000 |
| :--- | :--- | :--- |
| Total Fundẹd Debt | . . |  |

## Loan Increasing the Debt.

Permanent Pavement (Highway Loan) $\$ 50,00000$
Debt reductions by maturities were as follows:-

| City Loan | . | . | $\$ 79,500$ | 00 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Municipal Loan | . | . | . | . | 8,000 | 00 |
| Sewer Loan | . | . | . | . | 20,000 | 00 |
| Public Building Loan | . | . | . | . | 24,000 | 00 |
| Highway Loan | . | . | . | . | 68,000 | 00 |
| Bridge Loan | . | 1,000 | 00 |  |  |  |
| Emergency Loan | . | . | . | . | 5,000 | 00 |

Total inside limit . . . $\$ 205,50000$
Sewer Loan . . . . . $\$ 3,00000$

Metropolitan Park Loan. . . . 1,00000
Water Loan 2,000 00

Total outside limit
$\$ 6,00000$
$\$ 211,50000$

Classified Debt December 31, 1920.


The debt per capita was reduced from $\$ 14.08$ on January 1, 1920 , to $\$ 12.34$ on December 31, 1920.
FUNDED DEBT, DECEMBER 31, 1920.







0
0
0
0
-7
-1
0




 8
8
0
-1
-8

 | 8 |
| :--- |
| $\stackrel{8}{8}$ |
|  |



Total



Total

MATURITIES ON FUNDED•DEBT, 1921. Jan. 1, 1921 April 1, 1921



$\begin{array}{r}\text { July 1, } \\ \$ 231 \\ \$ 23,500 \\ 8,000 \\ 1000 \\ 10,000 \\ 00 \\ 13,000 \\ 000 \\ 5,000 \\ \hline\end{array}$
1,00000
5,000
1921.
 10
0
0
0
0
0
0 FUNDED DEBT,

|  |
| :---: |
|  |  |
|  |  | 10

1
0
+
I
I
os






|  |  |
| :---: | :---: |
|  |  |



| $F$ |
| :---: |
|  |  |

## MATURITIES ON FUNDED DEBT (SIX YEARS).

| 1916 |  | 1917 | 1918 |  | 1919 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\$ 131,500$ | 00 | $\$ 118,500$ | 00 | $\$ 105,500$ | 00 | $\$ 92,500$ |$)$




ค


(SIX YEARS)

|  |  |
| :---: | :---: |
|  |  |





Total

Class of Loan
City Suber Buildings Highway

Bridge . . Metropolitan Park Water

Extreme Emergency
Total

## BORROWING CAPACITY DECEMBER 31,-1920.



## ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEARS.

## Charges:

Street Sprinklinig, 1919
Credit:
Excess and Deficiency

REFUNDS TAXES, CHAPTER 49, ACTS 1918.
Charges:
Taxes 1918 Refunded . . . . \$2 31
Credit:
Excess and Deficiency . . . . $\$ 2$ 31

## WATER CHARGES 1919 REFUNDED OR ABATED

Charges:
Metered
Credit:
Excess and Deficiency $\quad$.

## TELLERS' OVERS AND SHORTS.

Charges:
Shortages . . . . . . $\$ 16$ §3
Credit:
Excess and Deficiency . . . . $\$ 1693$
STATE INCOME TAX, 1917.
Charges:
To Revenue 1920 . . . . $\$ 1,99500$
Credit:
Cash from Commonwealth . . . $\$ 1,99500$
STATE INCOME TAX, 1918.
Charges:
To Revenue 1920
$\$ 2,39400$
Credit:
Cash from Commonwealth . . . $\$ 2,39400$
STATE INCOME TAX, 1919.

| Charges: |  | \$52,590 |
| :---: | :---: | :---: |
| Balance due from Commonwealth | \$6,415 00 |  |
| To Revenue 1920 | 46,17500 |  |
| Credit: |  |  |
| Cash from Commonwealth |  | \$52,590 |

STATE INCOME TAX, 1920.
Charges:
Estimate Account General School Fund $\$ 75,25000$
Estimate Account General Purposes . 61,442 65
Credit:
Cash from Commonwealth . . . 154,770 23
Balance to 1921 account . . $\$ 18,07758$

## TAX TITLES.

Charges:
Balance from 1919 account ..... \$2,079 29
Titles purchased, 1919 taxes ..... , 95517
15000
Land Court Fees
Credit:
Cash ..... $\$ 9678$
Transferred to Real Estate Liens ..... 17120Balance to 1921 account$\$ 6,18446$26798$\$ 5,91648$
REAL ESTATE LIENS.
Charges:
Transfer from Tax Titles account ..... $\$ 17120$
Taxes, 1919 ..... 1032
Balance to 1921 account ..... $\$ 18152$
GRADE CROSSINGS ADVANCES.
Debit:
Balance from 1919 account .$\$ 42730$
TAILINGS.
Credit:Balance from 1919 account .$\$ 29165$
PREMIUMS ON BONDS.
Credit:
Balance from 1919 account ..... $\$ 13200$
Premium, Loan of April 1, 1920 ..... 9050
Charges:$\$ 22250$
Transfer to General Appropriations ..... 13200Balance to 1921 account$\$ 9050$
ACCRUED INTEREST ON BONDS.
Credit:
Cash, Loan of April 1, 1920 ..... $\$ 43750$Cash, Temporary Loan.7292
Charges:Transfer to General Appropriations$\$ 51042$$\$ 51042$
REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.
Credit:
Balance from 1919 account ..... \$1,403 94
Supplementary Warrant, No. 3, 1919 ..... 3400
Supplementary Warrants 1920, PollsNos. 6 and 71,27000Supplementary Warrant 1920, Person-al No. 1 .54693
Charged to Commonwealth account Abated Polls ..... 5700

Charges:


## Balance to 1921 account

$\$ 1,01625$
REDEMPTION OF TAX TITLES.

Credit: | Cash Received |
| :--- |
| Charges: |
| Titles redeemed, cash paid. |
| OVERLAY ACCOUNTS. |
| Overlay, 1917. |$..$

Credit:
Balance from 1919 account . . . $\$ 94780$
Charges:
Abatements . . . . . $\$ 7040$
Transferred to Reserve Fund . . 5920

Balance to 1921 account
$\$ 81820$
Overlay, 1918.
Credit:
Balance from 1919 account . . . $\$ 98592$
Recommitment Taxes . . . . 400
Charges:
Abatements . . . . . $\$ 38416$
Transferred to Reserve Fund . . 25256

Balance to 1921 account . . $\$ 35320$

Credit:
Balance from 1919 account . . $\$ 2,95589$
Recommitment Taxes . . . 200
Transferred from Reserve Fund . . 1,000 00
Charges:
Abatements
$4,053 \quad 52$
Debit Balance to 1921 account
Overlay, 1920.
Credit:
Taxes, 1920 . . . . $\$ 17,07978$
Charged to Commonwealth Account
Polls . . . . . . 3,88800
Charges:

Abatements
\$20,967 78
19,14847
Balance to 1921 account

RESERVE FUND, SURPLUS FROM OVERLAY.
Credit:
Balance from 1919 account . . $\$ 14,08643$
Transferred from Overlay, 1917 . . 5920
Overlay, 1918 . 25256
$\$ 14,39819$
Charges:
Transferred to Overlay, 1919 . . $\$ 1,00000$
Revenue, 1920
5,151 66

6,151 66
$\$ 8,2465 ?$

## EXCESS AND DEFICIENCY.

Credit:
Balance from 1919 account . . $\$ 25,79697$
Refunds accounts of previous years . 23385
Adjustment Military Aid 1919 . . 2250
Revenue 1920, Excess . . . . 62,679 81
$\$ 88,73313$
Charges:
Transfers to reduce tax levy . . $\$ 20,00000$
Adjustment State Aid 1919 . . . 16750
Abatement Special Assessments Prior
Years
6949
Refund Taxes Chap. 49, 1918 . . 231
Water Charges 1919 Abated . . . 2364
Tellers' Overs and Shorts . . . 1683

Balance to 1921 account
$\$ 68,45336$

## CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

 Receipts.General Revenue.
Taxes:-
Taxes, 1920 . . . . . . $\$ 2,299,59084$
Taxes, 1919 . . . . . . 322,19584
Taxes, 1918 . . . . . . 26056
Taxes, 1917 . . . . . . 6320
From State:-
Domestic corporation . . . . 39,96342
Foreign corporation . . . . 6,286 52
National Bank . . . . . 6,419 70
Street Railway 10,651 54
Income Tax, 1920 . . . . 154,770 23
Income Tax, 1919 . . . . 52,59000
Income Tax, 1918 . . . . 2,39400
Income Tax, 1917 . . . . 1,995 00
Excise Tax, Ship Owners . . . 6409
Licenses and Permits.
Licenses:-
Amusement . . . . . . 91000
Dealers in Motor Vehicles . . . 69000
Junk . . . . . . . 98000
Milk . . . . . . . 34250
Carried forward
$\$ 2,900,16744$
Brought forward ..... $\$ 2,900,16744$
Pool and billiards ..... 32600
Sunday ..... 57000
Innholders and Victuallers ..... 9800
Pedlers ..... 76500
All other ..... 26250
Permits:-
Marriage ..... 1,294 00
Buildings ..... 1,099 50
Garages ..... 49200
Electrical ..... 1,73700
All other ..... 9000
Fines and Forfeits.
Court Fines ..... 3,724 84
Departmental Penalties ..... 28800
Grants and Gifts.
From State, - Vocational Schools ..... 9,112 24
Smith-Hughes Fund ..... 2,220 09
Americanization ..... 60230
From County, - Dog Licenses ..... 2,180 85
All Other General Revenue.
State, In Lieu of Taxes ..... 9366Total General Revenue$\$ 2,925,12342$
Commercial Revenue - Special Assessments.
For Expenses:-
Street Sprinkling, 1920 ..... $\$ 37,02906$
Street Sprinkling, 19196,509 45
Moths, 1919 ..... 23400
For Outlays:-
Sidewalks, 1920 ..... 55994
Sidewalks, 1919 ..... 3,984 20
Street Betterments, 1920 ..... 2,855 00
Street Betterments, 1919 and 1918 ..... 13,269 59
Total Commercial Revenue - Spe- cial Assessments ..... $\$ 64,44121$
Commercial Revenue - Departmental.
General Government.
Treasurer and Collector ..... 6,146 24
Assessors ..... 250
City Clerk ..... 1,535 92
Engineering ..... 742Other67Carried forward

Brought forwardProtection of Persons and Property.
Police Department:-
Service of Officers ..... 17527
Cloth ..... 741
Rent of Court Room ..... 1,00000
Fire Department ..... 500
Sealer of Weights and Measures ..... 53084
Health and Sanitation.
Contagious Hospital ..... 8,955 08
Health Department ..... 26943
Inspection ..... 29580
Sanitary Department:-
Garbage16,083 20
Incinerator ..... 40000
Sanitary Buildings ..... 1456
Highways.
Labor and Materials ..... 5,433 14
Rent of Tenements ..... 24000
Charities.Almshouse:-
Sale of produce, etc. ..... 5,317 31
Board ..... 4,599 02
Outside Relief:-Individuals49510
Cities and Towns ..... 8,616 69
State ..... 6,135 36
Mothers' Aid:-State13,699 56
Soldiers' Benefits.
State Aid ..... 25,901 48
Military Aid ..... 22500
Soldiers' Burials ..... 29527
Education.
Tuition State Wards ..... 1,466 12
Other Tuition ..... 4,923 66
Sale of Books and Supplies ..... 5072
Rent High School Hall ..... 62500
Miscellaneous, School Buildings ..... 16060
All other ..... 1963
Libraries.
Fines, etc. ..... 2,34361
Recreation.
Bathhouse ..... 53835
Shower Baths ..... 39405
Unclassified.Electrolysis50000
Miscellaneous ..... 9678
Total Commercial Revenue - De- partmental

Brought forward

## Commercial Revenue - Public Service Enterprises.

| Brought forward |  |  |  |  |  | $\$ 3,107,07145$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Water Department:- |  |  |  |  |  |  |
| Sale of Water:- |  |  |  |  |  |  |

Total Commercial Revenue - Public Service Enterprises
Commercial Revenue - Interest.

Municipal Indebtedness.
Temporary Loans:-
Anticipation of Revenue ..... 1,883,000 00
General Loans:- Highway ..... 50,00000
Premiums on Loans ..... 9050
Total Municipal Indebtedness \$1,933 090 ..... 50
Agency, Trust and Investment.$\$ 2,93864$
Refunds.
Soldiers' Benefits ..... 13900
General Appropriations ..... 1,411 71
Outlay Appropriations ..... 1,370 77
Miscellaneous ..... 28585Total Refunds$\$ 3,207$33
Total Receipts ..... $\$ 5,327,69376$

## EXPENDITURES.

GENERAL GOVERNMENT.




|  |  | Expenses |
| :---: | :---: | :---: |
| Brought forward |  | \$92,183 12 |
| Public Buildings Department, sioner of Public Buildings. | Commis- |  |
| Salaries and Wages:- |  |  |
| Commissioner . | \$3,100 00 |  |
| Inspector of Plumbing | 1,900 00 |  |
| Clerks . . | 1,986 23 |  |
| Other Expenses:- |  |  |
| Books, postage and supplies$20834$ |  |  |
| Printing and advertising | 3475 |  |
| Telephone | 17801 |  |
| Auto maintenance | 75727 |  |
| All other | 2465 | 8,189 25 |
| Maintenance Municipal Buildings, City Hall and City Hall Annex. |  |  |
|  |  |  |
| Salaries and Wages:- |  |  |
| Janitors - | \$5,024 28 |  |
| Labor | 75232 |  |
| Other Expenses:- |  |  |
|  |  |  |  |
| Furniture and furnish- ings . | 1,036 27 |  |
| Janitors' supplies . | +323 88 |  |
| Repairs to buildings | 33419 |  |
| Heating apparatus and equipment | 26583 |  |
| Plumbing and supplies . | 7615 |  |
| Hardware and materials | 19471 | 11,815 74 |
| Ice | 22629 |  |
| All other | 385 |  |
| City Planning Board. |  |  |
| Clerical hire . . | \$10 00 | 1820 |
| Books, postage and supplies | 820 |  |
| Election Expenses, City Clerk. Salaries and Wages:- |  |  |
|  |  |  |
| Clerks . . | \$600 00 |  |
| Other Expenses:- |  |  |
| Equipment and supplies | 9944 |  |
| Printing and advertising | 46251 |  |
| Carfares and auto hire. | 15763 |  |
| Ballot boxes and repairs | 4000 |  |
| Refreshments | 15130 | 1,512 24 |
| All other | 136 |  |
| Election Expenses, Registrars of Voters. |  |  |
|  |  |  |
| Salaries and Wages:- |  |  |
| Registrars . . | \$1,989 50 |  |
| Clerks | 58397 |  |
| Clerical hire | 1,000 00 |  |
| Carried forward | \$3,573 47 | \$113,718 55 |


|  |  | Expenses |
| :---: | :---: | :---: |
| Brought forward | \$3,573 47 | \$113,718 55 |
| Other Expenses:- |  |  |
| Stationery and Postage | 12670 |  |
| Printing and advertising | 1,907 52 |  |
| Refreshments | 2577 |  |
| Car hire . | 3825 |  |
| Registers | 7700 |  |
| All other | 44 |  |
| Election Expenses, Pay of Election Officers. |  |  |
| Salaries and Wages:- |  |  |
| Wardens and clerks | \$1,360 00 |  |
| Inspectors | 2,718 00 |  |
| Public Buildings Department, Mainte. nance Polling Places. |  |  |
| Labor . | $\$ 30830$ |  |
| Teaming | 12725 |  |
| Rent . | 5250 |  |
| Lumber | 28097 |  |
| Hardware and materials | 5516 |  |
| Fuel and light | 3373 |  |
| Repairs to buildings | 24705 |  |
| All other | 2000 |  |
|  |  | 1,124 96 |

## PROTECTION OF PERSONS AND PROPERTY.

| Extreme Emergency Health | nd Safety | Expenses | Outlays |
| :---: | :---: | :---: | :---: |
| Salaries and Wages:- |  |  |  |
| Clerk | \$167 37 |  |  |
| Investigator | 350 |  |  |
| Other Expenses:- |  |  |  |
| Telephone | 438 |  |  |
| Emergency hosptal | 3,600 00 |  |  |
| State Guard | 1800 |  |  |
| Police Department. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Chief | \$3,000 00 |  |  |
| Captains and Lieutenants | 13,712 14 |  |  |
| Sergeants and Inspectors | 12,282 60 |  |  |
| Patrolmen | 142,868 99 |  |  |
| Special police | 34517 |  |  |
| Matrons | 99152 |  |  |
| Other employees | 4,947 75 |  |  |
| Horses and Care of Same:- |  |  |  |
| Hay, grain and straw | 27362 |  |  |
| Shoeing | 5925 |  |  |
| All other | 1125 |  |  |
| Carried forward | \$178,492 29 | 124,670 66 | \$3,793 25 |



|  |  | Expenses | Outlays |
| :---: | :---: | :---: | :---: |
| Brought forward | \$211,752 98 | \$312,934 18 | \$3,793 25 |
| Hose | 65375 |  |  |
| Equipment for men | 12557 |  |  |
| Power | 991 |  |  |
| Hardware, tools, etc. | 20998 |  |  |
| All other | 200 |  |  |
| Other Expenses:- |  |  |  |
| Books, printing, postage and supplies | 10492 |  |  |
| Telephone . | 50053 |  |  |
| Janitors' supplies | 27958 |  |  |
| Furnishings | 55495 |  |  |
| Laundry work | 33551 |  |  |
| All other | 27066 |  |  |
| Supplies:- |  |  |  |
| Grease and oil | 30992 |  |  |
| Gasoline | 86029 |  |  |
| Fuel | 450 |  |  |
| Ice | 13682 |  |  |
| Soda and acid | 14927 |  |  |
| All other . | 21470 |  |  |
| Public Buildings Department, Maintenance Fire Buildings. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Labor | \$425 28 |  |  |
| Other Expenses:- |  |  |  |
| Fuel and light | 7,545 52 |  |  |
| Furniture and furnishings | 58457 |  |  |
| Janitors' supplies . | 3430 |  |  |
| Repairs to buildings | 21945 |  |  |
| Heating apparatus and equipment . . . 30214 |  |  |  |
| Plumbing and supplies . | 32259 |  |  |
| Lumber and materials | 35153 |  |  |
| Putting in concrete floor | 52245 |  |  |
| All other | 1111 |  |  |
| Weights and Measures Department. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Sealer | \$1,600 00 |  |  |
| Labor | 6500 |  |  |
| Other Expenses:- |  |  |  |
| Books, postage and sup-plies . . . |  |  |  |
| Printing and advertising | 1450 |  |  |
| Equipment and supplies . | 5475 |  |  |
| Telephone | 2907 |  |  |
| Auto maintenance | 50171 |  |  |
| Electrical Department. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Commissioner | \$2,600 00 |  |  |
| Carried forward | \$2.600 00 | \$542,024 50 | \$3,793 25 |



## HEALTH AND SANITATION.

Health Department.
General Administration:-


| CITY AUDITOR. |  |  | 47 |
| :---: | :---: | :---: | :---: |
|  |  | Expenses | Outlays |
| Brought forward | \$6,741 83 | \$569,949 45 | \$3,793 25 |
| Acting Medical Inspector | 17985 |  |  |
| Acting Bacteriologist | 8993 |  |  |
| Health Nurses . | 2,100 00 |  |  |
| Books, printing, and postage | 40562 |  |  |
| Carfares, etc. . . | 28715 |  |  |
| Telephone . | 26744 |  |  |
| All other | 7659 |  |  |
| Quarantine and Contagious |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Cities and towns. | 51950 |  |  |
| Other Institutions | 57680 |  |  |
| Tuberculosis:- |  |  |  |
| Board and Treatment:- |  |  |  |
| Cities and towns . | 1,011 18 |  |  |
| State | 3,069 10 |  |  |
| Other Institutions | 24250 |  |  |
| Groceries and provi- sions | 1,261 54 |  |  |
| Other Expenses:- 122 |  |  |  |
| Equipment and supplies . | 12261 |  |  |
| Auto maintenance. | 88647 |  |  |
| Burying dead animals | 10233 |  |  |
| All other . | 18690 | 8127 |  |
| City Clerk's Dēpartment, Vital Statistlcs. |  |  |  |
|  |  |  |  |
| Canvassing and reportingbirths |  |  |  |
| Reporting deaths | 14950 |  |  |
| Printing and advertising | 12625 |  |  |
| Books and supplies | 14811 |  |  |
| Binding | 1950 |  |  |
| All other | 4900 |  |  |
|  |  | 1,220 36 |  |
| Contagious Hospital. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Matron . . | \$1,200 00 |  |  |
| Nurses and other help | 10,005 91 |  |  |
| Other Expenses:- |  |  |  |
| Drugs and medicines | 24602 |  |  |
| Medical attendance | 12800 |  |  |
| Bedding, dry goods and |  |  |  |
| Groceries and provisions | 9,096 02 |  |  |
| Equipment and supplies . | 1,602 40 |  | 1 |
| Telephone . | 7751 |  |  |
| Electric power | 12939 |  |  |
| All other . | 4293 | 2291644 |  |
| Carried forward |  | \$612,213 59 | \$3,793 25 |


| Brought forward |  | $\begin{gathered} \text { Expenses } \\ \$ 612,213 \quad 59 \end{gathered}$ | $\begin{gathered} \text { Outlays } \\ \$ 3,79325 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Public Buildings Department, nance Contagious Hospital. | Mainte- |  |  |
| Salaries and Wages:- |  |  |  |
| Janitor and labor | \$544 96 |  |  |
| Other Expenses:- |  |  |  |
| Fuel | 1,766 59 |  |  |
| Light | 67776 |  |  |
| Janitors' supplies | 4020 |  |  |
| Furniture and furnishings | 61187 |  |  |
| Repairs to buildings . | 31590 |  |  |
| Heating apparatus and equipment | 12962 |  |  |
| Plumbing and supplies | 5674 |  |  |
| Hardware and materials . | 5366 |  |  |
| All other | 675 |  |  |
| Inspection of Animals and Provisions. |  |  |  |
| Salaries and Wages:Inspector | \$2,100 00 |  |  |
| Other Expenses:Telephone | 3173 |  |  |
|  |  | 2,131 73 |  |
| Inspection of Milk and Vinegar. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Inspector | \$2,300 85 |  |  |
| Milk Collector | 1,500 00 |  |  |
| Other Expenses: - |  |  |  |
| Books, printing and post- age | 11508 |  |  |
| Auto maintenance . . | 81585 |  |  |
| New auto - . | 95000 |  |  |
| Equipment and supplies | 23648 |  |  |
| Telephone | 3886 |  |  |
| All other | 4279 |  |  |
| Inspection of School Children. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Inspectors | \$1,583 26 |  |  |
| Other Expenses:- |  |  |  |
| Books, printing and supplies | 2825 |  |  |
| Carfares | 9790 |  |  |
| School Nurses' Salaries. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Nurses | \$1,749 97 |  |  |
| Sewers Construction. |  |  |  |
| Salaries and Wages:- |  |  |  |
| Inspector | \$74 02 |  |  |
| Labor | 2,407 62 |  |  |
| Other Expenses:- |  |  |  |
| Carried forward | \$2,481 64 | \$628,008 66 | \$3,793 25 |


|  |  |  | Expenses | Outlays |
| :---: | :---: | :---: | :---: | :---: |
| Brought forward | - | \$2,481 64 | \$628,008 66 | \$3,793 25 |
| Teaming | . | 62560 |  |  |
| Pipe and fittings |  | 5461 |  |  |
| Brick and cement |  | 1325 |  |  |
| Castings |  | 60876 |  |  |
| Contract work | - | 1,000 27 |  |  |

Engineering Department, Sewers Main-
tenance.
Salaries and Wages:-
Inspector
Labor . . . . 13,756 29

Other Expenses:-
Teaming . . . 7,859 75
Tools and equipment . 29071
Pipe and fittings . . . 2326
Castings . . . 4040
Other materials and supplies . . . .

1832
Care of Medford Street pump

9677
Telephone . . . 5305
Repairs storm drain . 23789
All other . . . 4133
$23,466 \quad 07$
Less service transfers for materials furnished other departments

3160

Public Building | Department, Mainte- |
| :---: |
| nance Sewer Buildings. |

Salaries and Wages:Labor . . . . $\$ 36149$
Other Expenses:-
Fuel . . . . 6997
Light . . . . 2996
Repairs to buildings . 850
Plumbing . . . 2759
Lumber and materials . 14527

## Sanitary Department.

General Administration:

| Superintendent |  | \$2,300 00 |
| :---: | :---: | :---: |
| Bookkeeper |  | 30000 |
| Books, printing and plies |  | 9007 |
| Telephone |  | 5346 |
| Auto maintenance |  | 80780 |
| All other |  | 785 |

Carried forward

| Brought forward | \$3,559 18 | $\begin{gathered} \text { Expenses } \\ \$ 652,08591 \end{gathered}$ | Outlays <br> \$8,577 38 |
| :---: | :---: | :---: | :---: |
| Ashes, Rubbish and Garbage:- |  |  |  |
| Labor | 109,653 65 |  |  |
| Hired teams and trucks | 50,615 17 |  |  |
| Equipment and repairs | 94019 |  |  |
| Rent of dump | 30000 |  |  |
| Materials and supplies | 6164 |  |  |
| Stable Expenses:- |  |  |  |
| Hay, grain and straw | 11,724 69 |  |  |
| Shoeing | 40484 |  |  |
| Veterinary and medicine | 27374 |  |  |
| Stable equipment | 31389 |  |  |
| Public Buildings Department, nance Sanitary Buildings. | Mainte |  |  |
| Labor | \$92 18 |  |  |
| Fuel | 11446 |  |  |
| Light | 24031 |  |  |
| Repairs to buildings | 26225 |  |  |
| Lumber and materials | 4281 |  |  |
| Plumbing and supplies | 160 |  |  |
| Street Cleaning. |  |  |  |
| Labor . | \$23,965 13 |  |  |
| Hirer teams and trucks | 4,479 23 |  |  |
| Equipment | 11778 |  |  |
| Printing |  |  |  |
|  |  | 28,597 14 |  |
| HIGHWAYS |  |  |  |
| Highway Maintenance. |  |  |  |
| General Administration:- |  |  |  |
| Superintendent | \$3,100 00 |  |  |
| Bookkeeper and clerk | 2,711 47 |  |  |
| Books, printing, postage and supplies | 6443 |  |  |
| Telephone . . . | 24081 |  |  |
| Maintenance Superin- tendent's auto. | 72361 |  |  |
| All other | 4595 |  |  |
| General:- |  |  |  |
| Labor . | 51,509 37 |  |  |
| Hired teams | 11700 |  |  |
| Tools, equipment and repairs$1,462 \quad 13$ |  |  |  |
| Autos and supplies | 1,855 63 |  |  |
| New auto for foreman | 85700 |  | , |
| Broken stone, gravel, etc. | 2,157 14 |  |  |
| Edgestones, bricks and cement | 72880 |  |  |
| Lumber | 25078 |  |  |
| Tarvia and road oil | 2,146 02 |  |  |
| Fuel | 92792 |  |  |
| Oil and waste | 49214 |  |  |
| Carried forward | \$69,390 20 | \$859,283 65 | \$8,577 38 |




## CHARITIES.

| Brought forward <br> Poor Department. <br> Advance for immediate aid | $\$ 5000$ | Expenses | Outlays <br> $\$ 1,049,807$ |
| :--- | :--- | :--- | :--- |
| $\$ 124,15796$ |  |  |  |

Poor Department, Miscellaneous.
General Administration:-

| Agent | . | $\$ 1,800$ | 00 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Clerks | . | . | 2,093 | 34 |  |
| Books, printing, | postage |  |  |  |  |
| and supplies | . | . | 111 | 34 |  |
| Telephone | . | . | . | 119 | 95 |
| All other | . | . | 52 | 80 |  |

Outside Relief:-
City Physician
2,000 92
Auto maintenance
12500
Board and care
3.71941

Cash
14,265 96
Cash allowance . . 1,472 17
Groceries and provisions - 2,407 25
Coal and wood
1,710 72
Dry goods and clothing
1350
Medicine and medical attendance

21013
Ambulance hire . . 1500
Nursing . . . . 6400
State Institutions . . 16763
Contagious Hospital . 18429
Somerville Hospital . 7,779 29
Other Institutions . . 1,455 03
Burials . . . . 37000
Relief by Other Cities and
Towns:-
Cities . . . . 2,349 28
Towns . . . . . 600
Mothers' Aid:-.
By city . . . 30,43200
Other cities and towns . 4,242 06
77,167 07
Poor Department, City Home.
Salaries and Wages:-

Warden and Matron
$\$ 2,00000$
Bookkeeper
10000
Domestic labor . . 2,389 74
Farm labor . . . 2,685 05
Other Expenses:-
Auto maintenance
29631
Groceries and provisions
Clothing
Medicine and hospital goods . . . .
Household furnishings and supplies
Farm equipment and supplies

74896
5,390 83
21279
11726

56284

| Brought forward | \$14,503 78 | $\begin{gathered} \text { Expenses } \\ \$ 1,127,02454 \end{gathered}$ | Outlays $\$ 124,15796$ |
| :---: | :---: | :---: | :---: |
| Live stock and care | 44936 |  |  |
| Garbage | 37700 |  |  |
| Hay, grain and feed | 1,218 94 |  |  |
| Horse shoeing | 8380 |  |  |
| Harnesses and horse clothing | 290 |  |  |
| Seeds and fertilizer | 13964 |  |  |
| Books, printing and sta- tionery | 2850 |  |  |
| Telephone | 5766 |  |  |
| Power | 5981 |  |  |
| Ice | 11158 |  |  |
| Disinfectant and sprayer | 3150 |  |  |
| All other | 19082 |  | - |
| Public Buildings Department, nance City Home Buildings. | Mainte- |  |  |
| Labor | \$92 68 |  |  |
| Fuel | 1,228 39 |  |  |
| Light | 55313 |  |  |
| Furniture and furnishings | 44547 |  |  |
| Repairs to buildings . | 90220 |  |  |
| Heating apparatus and equipment . . . | 16451 |  |  |
| Plumbing and supplies | 8026 |  |  |
| Hardware and materials | 1435 |  |  |
| All other . . . | 552 | 3,48651 |  |

## SOLDIERS' BENEFITS

Soldiers' Benefits, General Administra-
tion.
Salaries and Wages:-
Agent . $\quad$.
Clerk $\quad$.
Other Expenses:-

## Soldiers' Relief.

$\begin{array}{llr}\begin{array}{l}\text { Cash as per pay rolls } \\ \text { Medicine and medical at- } \\ \text { tendance }\end{array} & \$ 21,750 & 00 \\ \end{array}$
1,35141

Military Aid.
Cash as per pay rolls
$\$ 1,31150$
State Aid.
Cash as per pay rolls . $\$ 10,58600$
1,31150
$\begin{array}{lllll}\text { Cash as per pay rolls } \\ \text { Carried forward } & . & \frac{\$ 10,58600}{10,586} 00 \\ \$ 1,182,85231 & \$ 124,157 & 96\end{array}$


## EDUCATION.

School Contingent.
Salaries and Wages:-

$\$ 5,00000$
Superintendent
Assistant Superintendent Clerks

3,124 73
Truant Officers . . 2,81280 , 4,62617

Other employees . . 25694
General Expenses:-
Stationery, postage and office supplies . . 41391
Telephones . . . 1,125 31
Automobile maintenance 23378
Travel
45497
Mimeograph . . . 6500
All other . . . 29868
Textbooks and Supplies:-
Text and reference books
Maps
Stationery and supplies
Equipment and repairs
Other Expenses:-
Tuition . . . . 62026

Support of truants
Printing and advertising Catering

## Power

Binding
8,165 12
7870
12,722 72
3,377 35

All other

1,026 43
51911
1,214 79
11517
76645
17665
1200

School Teachers' Salaries.
Day Schools . . . $\$ 666,92522$
Evening Schools . . 9,492 75

Maintenance School Buildings, Janitors'
Salaries.
Janitors' Salaries . . $\$ 56,95756$
Maintenance School Buildings, Fuel and Light.
$\begin{array}{llr}\text { Labor } \quad . & \quad . & \quad . \\ \text { Fuel } & \quad . & 35.339 .05 \\ \text { Light }\end{array}$
Light . . . . 14,299 65

676,417 97

56,95756

| Brought forward |  | $\begin{gathered} \text { Expenses } \\ \$ 2,013,597{ }_{22} \end{gathered}$ | $\begin{array}{r} \text { Outlays } \\ \$ 124,1579 \text { 9, } \end{array}$ |
| :---: | :---: | :---: | :---: |
| Maintenance School Buildings, and Grounds. | Buildings |  |  |
| Labor | \$8,748 60 |  |  |
| Furniture and furnishings | 5,452 21 |  |  |
| Janitors' supplies | 2,500 24 |  |  |
| Laundry | 3707 |  |  |
| Repairs to buildings | 7,630 14 |  |  |
| Heating apparatus and equipment | 8,383 48 |  |  |
| Plumbing | 3,352 70 |  |  |
| Glass, hardware and paint | 2,770 32 |  |  |
| Lumber | 1,463 10 |  |  |
| Other materials and supplies | 28378 |  |  |
| Care of grounds | 68600 |  |  |
| Flags and flag poles | 35951 |  |  |
| Auto maintenance | 52989 |  |  |
| Power | 32161 |  |  |
| Insurance | 3,119 62 |  |  |
| Use of Y. M. C. A Gymnasium. | 50000 |  |  |
| Use of Amory | 15000 |  |  |
| Armorer | 5000 |  |  |
| All other | 88943 |  |  |
| Cummings School Repairs. |  |  |  |
| Repairing fire damage . | \$3,285 00 |  | 3,28500 |

## SCHOOL TRUST FUNDS.

S. Newton Cutler Fund.

Books
$\$ 18618$

Smith-Hughes Fund.
School teachers' salaries . $\$ 2,13985$

18618

2,13985

## LIBRARIES

## Central Library.



|  |  | Expenses | Outlays |
| :---: | :---: | :---: | :---: |
| Brought forward | \$25,215 88 | \$2,063,150 95 | \$127,442 96 |
| Postage and office supplies | 74795 |  |  |
| Printing and advertising | 54950 |  |  |
| Telephone | 17043 |  |  |
| Catalogue cards | 10000 |  |  |
| Express. . | 13617 |  |  |
| Convention expenses | 4775 |  |  |
| Mimeograph | 10780 |  |  |
| All other | 13315 | 27,20863 |  |

Public Buildings Department, Mainte-
nance Central Library.


West Somerville Branch Library.
$\begin{aligned} & \text { Salaries and Wages:- . } \\ & \text { Assistants }\end{aligned} 4,73313$
Oťer Expenses:-

| Books |  | 1,685 14 |
| :---: | :---: | :---: |
| Periodicals |  | 37136 |
| Music |  | 315 |
| Binding | . $\cdot$ | 68023 |
| Postage and plies. | office sup- | 12619 |
| Printing and | advertising | 4400 |
| Telephone |  | 3638 |
| Express |  | 20267 |
| 'All other |  | 11 |

Public Buildings Department, Maintenance West Somerville Branch Library.

| Janitor | \$1,339 00 |
| :---: | :---: |
| Labor | 1688 |
| Fuel | 40033 |
| Light | 50490 |
| Repairs to buildings | 11661 |
| Plumbing | 1723 |
| Hardware and material |  |
| All other | 5413 |


| Brought forward |  | $\begin{gathered} \text { Expenses } \\ \$ 2,106,693 \end{gathered}$ | $\begin{gathered} \text { Outlays } \\ \$ 127,44296 \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Salaries and Wages:- |  |  |  |
|  |  |  |  |
| Assistants . | \$3,034 54 |  |  |
| Other Expenses:- . |  |  |  |
| Books | 83433 |  |  |
| Periodicals | 16652 |  |  |
| Binding | 33596 |  |  |
| Postage and office supplies |  |  |  |
| Printing and advertising | 3250 |  |  |
| Telephone . . . | 3428 |  |  |
| Express . | 20267 |  |  |
| All other | 3350 |  |  |
|  |  | 4,751 01 |  |
| Public Buildings Department, Maintenance East Somerville Branch Library. |  |  |  |
| Janitor . . . . | \$1,068 91 |  |  |
| Labor | 1768 |  |  |
| Fuel | 26368 |  |  |
| Light | 27101 |  |  |
| Furniture and furnishings | 160 |  |  |
| Repairs to buildings | 250 |  |  |
| Hardware and Materials | 378 |  |  |
| All other . . . | 500 |  |  |
|  |  |  |  |
| Union Square Branch Library. <br> Salaries and Wages:- |  |  |  |
| Assistants . | \$3,116 55 |  |  |
| Other Expenses:- |  |  |  |
| Books | 92239 |  |  |
| Periodicals | 15698 |  |  |
| Binding | 42965 |  |  |
| Postage and office sup-plies . 8001 |  |  |  |
| Printing and advertising | 2390 |  |  |
| Telephone | 3396 |  |  |
| Express | 20316 |  |  |
| All other | 400 |  |  |
| Public Buildings Department, nance Union Square Branch | MainteLibrary. |  |  |
| Janitor | \$1,067 92 |  |  |
| Labor | 1882 |  |  |
| Fuel | 32395 |  |  |
| Light | 31282 |  |  |
| Furniture and furnishings | 250 |  |  |
| Janitors' supplies . | 165 |  |  |
| Heating apparatus and equipment | 539 |  |  |
| Plumbing . . . | 300 | , |  |
| Hardware and materials | 1358 |  |  |
| All other | 475 | 175438 |  |
| Carried forward |  | \$2,119,803 67 | \$127,442 96 |




CITY AUDITOR.
UNCLASSIFIED
$\begin{array}{cr}\text { Expenses } & \text { Outlays } \\ \$ 2,146,978 & 59 \\ \$ 127,44296\end{array}$
Brought forward

| Memorial Day. |  |  |
| :--- | :--- | ---: |
| Music and catering |  | $\$ 263$ |

Public Buildings Department, Mainte-
$\$ 5528$
Lighting . . . . 1625
Lumber and hardware
2681

Municipal Documents.
Printing:
Annual reports . . $\$ 1,57483$
Municipal registers . 12250
Postage . . . . 618
All other . . . . 5250
1,75601
Workmen's Compensation.

| Compensation for injuries | $\$ 3,59783$ |
| :--- | ---: |
| Medical attendance . | 16100 |
| Postage and supplies . | 400 |

Postage and supplies.
$\begin{array}{lllll}\text { Janitors . . . } \\ \text { Police } & \$ 1,818 & 19 \\ 9,549 & 00\end{array}$
Fire 4,009 42
Weights and Measures 81250
Health . . . . 75000
Poor . . . . 85000
Laborers:-
Highway . . . , 4.38406
Sanitary . . . 86716
Water

1,689 50

Damage to Persons and Personal Property.
Settlement of claims . . $\$ 2,00200$
Repairs . . . . 125

## MUNICIPAL INDEBTEDNESS.

## Interest.

Temporary loans:-
Anticipation of Revenue . $\quad \$ 59,11867$
General Loans:-
Sewer . . . . 9,74875
Carried forward
$\$ 68,86742 \$ 2,179,79121 \$ 127,44296$


## WATER WORKS.

Water Maintenance.
Administration:-

| Commissioner | . | $\$ 3,100$ | 00 |
| :--- | :--- | :--- | :--- |
| Clerks |  |  |  |

Books, printing, postage
and supplies . 1,66153
Telephone . . . 26637
All other . . . 10086

General:-
Labor . . . . 38,774 74

Pipe and fittings . . 3,05631
Meters and fittings . 4,459 47
Hydrants and fittings . 1,04260
Tools . . . . 1,274 26
$\begin{gathered}\text { Autos, trucks and sup- } \\ \text { plies }\end{gathered} 4,83689$
Horses and equipment . 39138
Power . . . . 2201
Miscellaneous supplies . 13794
Street repairs • • 20396
Fountains . . . 3623
All other . . . 4385
$\begin{array}{crr}\text { Less service transfers for } & 66,00480 \\ \text { teaming } & . & 25967\end{array}$



[^2]
## SCHEDULE OF PUBLIC PROPERTY.



[^3]|  |  | Land and <br> Fire Buildings. |  |
| :--- | :--- | :--- | ---: |
| Nuildings |  |  |  |

## Libraries.

| $\dagger$ Central | \$137,500 00 |
| :---: | :---: |
| East Somerville Branch | 24,400 00 |
| West Somerville Branch | 30,00000 |
| Total | \$191,900 00 |

## Miscellaneours Buildings.



Contagious and Tuberculosis Hospital . . 45,90000
City Home
Police
$\dagger$ City Hall
$\dagger$ City Hall Annex
Parks:-

| Broadway |  | 3,100 | 00 |
| :---: | :---: | :---: | :---: |
| Lincoln |  | 3,000 | 00 |
| Bathhouse |  | 5,000 | 00 |
| Polling Booths |  | 1.800 | 00 |
| Sanitary |  | 21,000 |  |
| Water |  | 49,000 |  |

Total
$\dagger$ Land included in Central Hill Park.

| Parks and Playgrounds. |  |
| :---: | :---: |
| Broadway |  |
| Central Hill |  |
| Lincoln |  |
| Prospect Hill |  |
| Tufts |  |
| Paul Revere |  |
| Belmont Street |  |
| City Field |  |
| Glen Street |  |
| Kent Street |  |
| Poplar Street |  |
| Beacon Street |  |
| Webster Avenue |  |
| Mason Street |  |
| Somerville Field |  |

Total . . . $\$ 1,318,50000$
$\$ 421,20000$
$472,000 \cdot 00$
84,500 00
69,800 00
109,000 00
1,00000
5,100 00
70,900 00
17,30000
12,00000
5,500 00
3,00000
3,000 00
4,20000
40,00000

93,100 00

| Personal | Totals |  |
| ---: | ---: | ---: |
| $* \$ 103,00000$ | $\$ 178,20000$ |  |
| $\ldots, \ldots \ldots \ldots \ldots \ldots$ |  |  |
| 15,00000 |  | 52,00000 |
| 20,00000 |  | 49,00000 |
| 8,00000 |  | 31,50000 |
| 15,50000 |  | 75,50000 |
| 7,70000 |  | 18,90000 |
| 15,00000 |  | 34,70000 |
| 7,00000 |  | 26,50000 |
|  |  | $\$ 46,30000$ |


| \$100,000 00 |  | \$237,500 |  |
| :---: | :---: | :---: | :---: |
|  |  | 24,400 | 00 |
| 6,000 | 00 | 36,000 | 00 |
| \$106,000 | 00 | \$297,900 | 010 |
| $\begin{array}{r} \$ 30,000 \\ 500 \end{array}$ | 00 | \$85,000 | 00 |
|  | 00 | 7,200 | 00 |
| 9,000 | 00 | 54,900 | 00 |
| 17,000 | 00 | 110,100 | 00 |
| $\begin{array}{r} 8,000 \\ 149,000 \end{array}$ | 00 | 77,500 | 00 |
|  | 00 | 206,200 | 00 |
| 12,500 | 00 | 80,700 | 00 |
| 500 |  | 3,100 | 00 |
|  | 00 | 3,500 | 00 |
|  |  | 5,000 | 00 |
|  |  | 1,800 | 00 |
| $\begin{array}{r} 19,200 \\ 6,500 \end{array}$ | 00 | 40,200 | 00 |
|  | 00 | 55,500 | 00 |
| \$252,200 00 |  | \$730,700 |  |

Land and

| Personal | Totals |
| :---: | :---: |
|  | \$421,200 00 |
|  | 472,000 00 |
| 3,500 00 | 88,00000 |
| 1,50000 | 71,30000 |
|  | 109,000 00 |
|  | 1,000 00 |
|  | 5,100 00 |
|  | 70,900 00 |
|  | 17,300 00 |
|  | 12,000 00 |
|  | 5,50000 |
|  | 3,000 00 |
|  | 3,000 00 |
|  | 4,200 00 |
| 20,000 00 | 60,000 00 |
| 25,000 00 | 343,500 |

## CITY AUDITOR.

## Miscellaneous Land.

| Ledge, Holland Street | \$54,500 00 | ............... | \$54,500 00 |
| :---: | :---: | :---: | :---: |
| Somerville Avenue | 30000 | .............. | 30000 |
| Putnam | 40000 | ............... | 40000 |
| Murdock Street | 60000 | ............... | 60000 |
| Lowell Street | 10000 | ............... | 10009 |
| Spencer Avenue | 10000 | ............... | 10000 |
| Weston Avenue | 2,100 00 | ............... | 2,100 00 |
| Endicott Avenue | 60000 | ............... | 60000 |
| Powder House Boulevard | 40000 | ............... | 40000 |
| Waltham Gravel Land | 10,000 00 | ........ | 10,000 00 |
| Total | \$69,100 00 | ............... | \$69,100 00 |



# REPORT OF THE TREASURER AND COLLECTOR OF TAXES. 

Somerville, Mass.,<br>January 27, 1921.

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

Gentlemen:-
I herewith present the annmal report of the City Treasurer and Collector of Taxes for the year 1920. The following items seem of particular interest:

The assessor's warrants for 1920 amounted to . . $\$ 2,762,54757$
The assessor's warrants for 1919 amounted to . . $2,344,29737$
The assessor's warrants for 1918 amounted to . . $2,053,86253$ showing an increase for 1920 over 1919 of $\$ 418,25020$, the increase for 1920 over 1918 being $\$ 708,68504$.

The valuation as fixed by the Board of Assessors to establish the tax rate was $\$ 3,442,568.40$ less than in 1919 . The peal estate valuation increased $\$ 3,455,000$. The valuation of personal estate, including non-resident bank shares, decreased $\$ 6,897,568.40$. The decrease in the personal valuations was on account of the provisions of Part 2 Chapter 355, General Acts of 1919 affecting foreign corporations. If the personal valuations had been the same as in 1919 there would have been a saving of $\$ 2.00$ or more per thousand in the tax rate.

Respectfully submitted,

> Joseph S. Pike,

City Treasurer and Collector of Taxes.

## CONDENSED CASH STATEMENT.



| Brought forward |  | \$4,979,428 65 | \$200,795 77 |
| :---: | :---: | :---: | :---: |
| Foreign Corporation |  | 6,28652 |  |
| Income Tax, 1917. | 1,995 00 |  |  |
| 1918. | 2,394 00 |  |  |
| 1919 | 52,590 00 |  |  |
| 1920. | 154,770 23 |  |  |
|  |  | 211,749 23 |  |
| Vocational Schools |  | 9,112 24 |  |
| Americanization Work |  | 60230 |  |
| Soldiers' Benefits . |  | 26,473 75 |  |
| In lieu of taxes |  | 9366 |  |
| County of Middlesex: |  |  |  |
| Dog licenses . |  | 2,18085 |  |
| Courts, County | -164 50 |  |  |
| Police | 3,545 84 |  |  |
| Probation Officer | 1450 |  |  |
| Departmental Penalties: |  | 3,724 84 |  |
| Callmen, Fire Dept. . | 11700 |  |  |
| School Dept. | 17100 |  |  |
|  |  | 28800 |  |
| Licenses and Permits |  | 9,656 50 |  |
| Interest: On taxes | 10,964 33 |  |  |
| Assessments | 15871 |  |  |
| Tax Titles | 842 |  |  |
| Bank Accounts: |  |  |  |
| Treasurer | 10,763 65 |  |  |
| City Clerk | 745 |  |  |
| Treasury Department: |  |  |  |
| Costs: Taxes . | 5,433 21 |  |  |
| Assessments | 1840 |  |  |
| Tax Titles | 845 |  |  |
| Tax lien certificates | 62400 |  |  |
| Redemptiontax liens | 2400 |  |  |
| Collecting bank tax | 3818 |  |  |
|  |  | 6,146 24 |  |
| Edison Electric Illuminating Co., electrolysis |  | 50000 |  |
| General Expenses, refunds |  | 1,040 29 |  |
| Trust Funds, Income: |  |  |  |
| School, S. Newton Cutler | 21450 |  |  |
| Smith-Hughes | 2,220 09 |  |  |
| Library, S. Newton Cutler | 4288 | 2,43 |  |
| Hunt, Art . | 9750 |  |  |
| Hunt, Books | 49529 |  |  |
| Pitman, Art . | 17132 |  |  |
| Pitman, Poetry . | 4282 |  |  |
| Wilder, Children's | 450 |  |  |
|  |  | $85431$ |  |
| Premium on Bonds . |  | 9050 |  |
| Accrued Interest . |  | 51042 |  |
| Excess and Deficiency |  | 23385 |  |
|  |  | \$5,273,384 35. |  |
| Carried forward . . . |  | \$5,273,384 35 | \$200,795 77 |

Brought forward
Non-Revenue
Funded Debt, Highway Loan bonds
Outlay Appropriations, refunds and offsets . . 1,370 77
Redemption of Tax Liens . 2,938 64
$\$ 5,273,38435 \quad \$ 200,79577$

$$
50,000 \quad 00
$$

$54,30941 \frac{5,327,693 \quad 76}{\$ 5,528,489 \quad 53}$

## PAYMENTS.

| Revenue |  |  |
| :---: | :---: | :---: |
| Advances, Poor Department |  | \$50 00 |
| Taxes, 1917, refunds | \$4 00 |  |
| 1918, refunds | 800 |  |
| 1919, refunds | 7290 |  |
| 1920, refunds | 98130 |  |
| Refunds under chap 49, Acts 1918 . | 231 |  |
|  |  | 1,068 |
| Street Sprinkling, 1919, refund | 4295 | 16703 |
| 1920, refund | 12408 |  |
| Water Charges: |  |  |
| Previous year, refunds | 1200 |  |
| Current year, Refunds | 7555 |  |
| Refund, Bank tax, 1919 |  | 8755 |
|  |  | 1405 |
| Real Estate Liens. |  | 1032 |
| Tax Titles . . . |  | 4,105 17 |
| Temporary Loans . . . |  | 1,785,000 00 |
| Commonwealth of Massachusetts: |  |  |
| State Tax | 245,420 00 |  |
| Special State Tax | 11,569 80 |  |
| Assessments | 173,149 02 |  |
| Metropolitan Water assessments . | 127,505 74 |  |
| Civilian War Poll Taxes | 68,355 00 |  |
|  | 30437 |  |
| Bank Tax, non-resident | 3,820 61 |  |
|  |  | 630,124 54 |
| $\begin{aligned} & \text { County of Middlesex, county } \\ & \text { tax } \end{aligned}$ |  | 107,532 49 |
| General Expenses |  | 2,256,091 79 |
| Inter,est: Temporary Loans | 59,191 59 |  |
| Funded Debt | 50,758 75 |  |
| Reduction of Funded Debt |  | $\begin{array}{ll} 109,950 & 34 \\ 211,500 & 00 \end{array}$ |
| Trust Funds: |  |  |
|  | 18618 |  |
|  | 2,139 85 |  |
| Carried forward |  | \$5,105,701 79 |



## BALANCES, DECEMBER 31, 1920.




The assessor's warrant for the tax levy, assessed upon polls and property April 1, 1920, including non-resident bank shares, amounted to $\$ 2,760,998.13$, and the tax rate established was $\$ 30.90$ on each $\$ 1,000$ of valuation, as follows :

| Real estate | \$76,752,500 00 |  |
| :---: | :---: | :---: |
| Personal estate | 7,088,200 00 |  |
| Resident bank shares | 70,155 60 |  |
| Total valuation | \$83,910,855 60 |  |
| At rate of $\$ 30.90$ |  | \$2,592,845 44 |
| Polls, 23,805 at \$5.00 |  | 119,025 00 |
| Non-resident bank shares to be paid to the state (valuation $\$ 123,644.40$ ) |  | 3,820 61 |
| Street Sprinkling |  | 44,662 08 |
|  | - | \$2,760,353 13 |
| Additional Assessments: |  |  |
| Personal $\$ 30.90$ estate, valuation $\$ 17,700$ at | \$546 93 |  |
| Polls, 254 at $\$ 5.00$ | 1,270 00 |  |
| Excise Taxes | 37751 |  |
| Total commitments by assessors |  | \$2,762,547 57 |


| ¢¢¢8용 | 아용 | ®® |
| :---: | :---: | :---: |
|  | - | ®8\% |
| ¢ | が | 18 |
| \% | - | ${ }^{6}$ |







STREET SPRINKLING AND MOTH ASSESSMENTS.

|  | $\begin{gathered} \text { Sprinkling } \\ 1919 \end{gathered}$ | $\underset{1920}{\substack{\text { Sprinkling } \\ \hline}}$ | Moths 1919 | Total |
| :---: | :---: | :---: | :---: | :---: |
| Balance Dec. 31, 1919 | \$6,535 99 |  | \$234 00 | \$6,769 99 |
| Committed, 1920 |  | \$44,662 08 | ............ | 44,662 08 |
| Refunds | 4295 | 12408 | ....i....... | 16703 |
| Total | \$6,578 94 | \$44,786 16 | \$234 00 | \$51,599 10 |
| Collected | 6,509 45 | 37,029 06 | 23400 | 43,772 61 |
| Abated | 6949 | 25644 |  | 32593 |
| Total credits | \$6,578 94 | \$37,285 50 | \$234 00 | \$44,098 44 |
| Balance Dec. 31, |  | 7,500 66 |  | 7,50066 |


| 6－888 | ¢10\％ | ツ®ミへ |
| :---: | :---: | :---: |
|  | Rep | ¢ |
| がべが | ¢0\％ | ๙๐ |


| がッ\％ | がめか8 | ¢19 |
| :---: | :---: | :---: |
|  |  | le |




OVERLAY AND ABATEMENT．

| $\begin{array}{r} 1919 \\ \$ 2,955 \quad 89 \end{array}$ |
| :---: |
|  |
| 1，000 00 |
| \＄3，957 89 |
| 4，053 52 |
| 4，053 52 |
| 95 |


| お8 | あ゙せめ | № |
| :---: | :---: | :---: |
| ¢9\％ | คณำํ | ${ }^{18} \mathrm{~N}$ |
| $\underset{-1}{-1}$ | $\underset{\sim}{7}$ | $\cdots$ |


| ～号 | $\infty$ | $\stackrel{\sim}{\sim}$ | － 10 | N＊＊＊ | が |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 9 $\stackrel{3}{3}$ $\stackrel{1}{4}$ $\cdots$ |  |  |  |


|  |  | 10 0 8 8 0 7 |
| :---: | :---: | :---: |
|  | 10 <br> 0 <br> 0 <br> 0 <br> 1 <br> 0 <br> 0 <br> 00 <br> 10 | $\infty$ <br> $\infty$ <br> － <br> － <br> -1 |


| Service |
| :---: |
| Ass＇ts |
| $\$ 1,905 \quad 10$ |
| $\ldots \ldots \ldots \ldots$ |
| $\$ 1,905 \quad 10$ |
| $1,905 \quad 10$ |
| $\ldots \ldots \ldots \ldots$ |
| $\$ 1,905 \quad 10$ |


| ${ }_{\sim}^{8}$ | 10 6 | 48 |
| :---: | :---: | :---: |
| － |  |  |
| ¢ | がった | － |
|  | －サ |  |
| $\infty$ | あ | ＋ |


| Highway |
| ---: |
| 1920 |
| $\ldots \ldots \ldots \ldots$ |
| $\$ 8,577 \quad 00$ |
| $8,577 \quad 00$ |
| $2,855 \quad 00$ |
| $5,722 \quad 00$ |


| こె | ¢－¢ | 9 |
| :---: | :---: | :---: |
|  |  |  |
| \％ | ¢ ${ }^{\infty}$ | 앙 |
| \％ | ヘัద | ค |
| ¢ | $\cdots$ | 7 |


| ¢0 ${ }^{\circ}$ | ホパ | N |
| :---: | :---: | :---: |
| ¢ | サヘ |  |
| E N | ¢ ${ }^{\circ}$ in ${ }^{10}$ | － |
| ¢ | O8 | 0 |
| $\infty$ | $\leftrightarrow$ | $\infty$ |

WATER DEPARTMENT ACCOUNTS．


| ¢ | ¢\％लै | ¢ |
| :---: | :---: | :---: |
|  |  |  |
| ¢9 ${ }^{2}$ |  | － |
| 苍 ${ }^{\text {a }}$ |  | ${ }^{10}$ |
| $\underset{\sim}{5}$ | N | $\stackrel{\text {－}}{\text {－}}$ |

Balance Dec．31， $191 \hat{9}$ Committed ．． Balance Dec．31， 1920
Collected
Committed
Refunds
Collected
Abated
Balance to 1921




## TEMPORARY LOANS.

## In Anticipation of Revenue.

Balance from 1919
$\$ 527,00000$
Borrowed by authority of the Board of Aldermen on city notes as follows:
Nos. 748-754 289 days - $4.99 \%$
$\$ 100,00000$ 755-783 259 " $-5.20 . \quad . \quad 300,00000$
784-787 253 " -5.80 . . . 100,00000
788-793 253 " -5.85 . . . 50,00000
794-795 95 " -5 . . . 28,00000
796-797 243 " -5.75 . . . 30,00000
798-799 189 " -5.65 . . . 100,000 00
800156 " -5.60 . . . 50,00000
801-803 245 " -5.65 . . 50,00000
$804-807173$ " -5.85 . . . 100,00000
808-811 215 " -5.85 . . . 100,00000
812-813 179 " -6.1 . . . 50,00000
814-815 199 " -6.1 . . . 50,00000
$816-817172$ " -6.1 . . 50,00000
$818-820105$ " -6.05 . . . 100,00000
821-822 195 " -6 . . . 50,00000
$823-824143$ " -6 . . . 125,00000
825-833 199 " -5.99 . . 100,00000

834-841 125 " -5.90 . . . 75,00000
842-846 250 " -5.90 . . . 50,00000
On coupon notes, interest to follow semiannually, as follows:
Nos. $78-82-1$ yr. $5 \frac{1}{4} \%$. . . 50,00000
$83-86-1$ yr. $51 / 2 \%$. . . 100,00000
$87-1$ yr. $51 / 2 \%$. . . 25,00000
$88.97-1$ yr. $6 \%$. . . 50,00000
1,883,000 00
$\$ 2,410,00000$
Paid notes maturing 1920
Maturing in 1921
625,00000
Discount paid was . . . . . $\$ 53,22659$
6 mos. int. on coupon
notes 78-82 - 83-87 . $\$ 4,75000$
Less accrued int. 78-82 7292

Int. due in 1921 on coupon notes 78-82 - 83-87 - 88-97

4,677 08
7,750 00
\$65,653 67
$\$ 1,658,000$ discounted notes average 204.6 days, average rate 5.636 .

The funded debt December 31, 1920, was $\$ 1,148,000.00$, clas. sified as follows :

| City Loan Bonds at $31 / 2$ per cent . . | $\$ 33,00000$ |  |  |
| :--- | :--- | :--- | :--- | :--- |
| City Loan Bonds at 4 | per cent. | . | 255,00000 |
| City Loan Bonds at $41 / 4$ per cent | . | 30,000 | 00 |

Carried forward
$\$ 318,00000$

| Brought forward | \$318,000 00 |
| :---: | :---: |
| Sewer Loan Bonds at $31 / 2$ per cent | 62,000 00 |
| Sewer Loan Bonds at 4 per cent | 149,000 00 |
| Sewer Loan Bonds at $41 / 4$ per cent | 23,000 00 |
| Met. Park Asst. Loan Bonds at $31 / 2$ per cent | 9,000 00 |
| Lowell ISt. Bridge Loan Bonds at $31 / 2$ per cent | 29,000 00 |
| Municipal Loan Bonds at $41 / 2$ per cent | 23,000 00 |
| Highway Loan Bonds at $31 / 2$ per cent | 54,00000 |
| Highway Loan Bonds at 4 per cent | 127,000 00 |
| Highway Loan Bonds at $41 / 2$ per cent | 40,00000 |
| Highway Loan Bonds at 5 per cent | 50,00000 |
| Public Bldg. Loan Bonds at 4 per cent | 179,000 00 |
| Public Bldg. Loan Bonds at $41 / 2$ per cent | 75,000 00 |
| Emergency Loan Bonds at $41 / 4$ per cent | 10,000 00 |
|  | \$1,148,000 00 |

Funded delot within the limit fixed by law:

| City Loan |  | . | . | . |  | $\$ 318,000$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | 00

Funded debt beyond the limit fixed by law :

Sewer Loan (Chap. 357, Acts 1895) .
Met. Park Asst. Loan (Chap. 325, Acts of 1902)
$\$ 15,00000$
9,000 00

BONDS DUE IN 1921.

|  | January | April | July | October | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Emergency |  | ........... | \$5,000 | $\ldots$ | \$5,000 |
| Park | ........... |  | 1,000 | ........... | 1,000 |
| Bridge |  | \$1,000 |  |  | 1,000 |
| Sewer | \$3,000 | 10,000 | 10,000 |  | 23,000 |
| City | 9,000 | 34,000 | 23,500 | \$2,000 | 68,500 |
| Municial |  |  | 8,000 | ........... | 8,000 |
| Highway | 16,000 | 43,000 | 5,000 | $\ldots$ | 64,000 |
| Building | 6,000 | 5,000 | 13,000 | ........... | 24,000 |
|  | \$34,000 | \$93,000 | \$65,500 | \$2,000 | \$194,500 |

## BOND INTEREST DUE IN 1921.

|  | January | April | July | October | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Emergency | \$212 50 |  | \$212 50 |  | \$425 00 |
| Park | 15750 |  | 15750 |  | 31500 |
| Bridge |  | \$507 50 |  | \$490 00 | 99750 |
| Sewer | 1,490 00 | 3,063 75 | 1,435 00 | 2,867 50 | 8,856 25 |
| City | 3,137 50 | 3,177 50 | 2,957 50 | 2,495 00 | 11,767 50 |
| Municipal | 51750 |  | 51750 |  | 1,035 00 |
| Highway | 1,295 00 | 4,340 00 | 1,015 00 | 3,445 00 | 10,095 00 |
| Building | 3,907 50 | 1,360 00 | 3,787 50 | 1,260 00 | 10,315 00 |
|  | \$10,717 50 | 2,448 75 | 0,082' 50 | 0,557 50 | \$43,806 25 |

BONDS OUTSTANDING JANUARY 1, 1921, WITH INTEREST TO MATURITY.


Emergency







## Yèarly Bond Maturities with Interest.

| Date Due | Principal | Interest | Total |
| :---: | :---: | :---: | :---: |
| 1921.............. | \$194,500 00 | \$43,806 25 | \$238,306 25 - |
| 1922.............. | 164,500 00 | 36,356 25 | 200,856 25- |
| 1923.............. | 125,500 00 | 30,221 25 | 155,721 25. |
| 1924............... | 101,500 00 | 25,356 25 | 126,856 25. |
| 1925............... | 88,000 00 | 21,518 75 | 109,518 75 |
| 1926............... | 74,000 00 | 18,203 75 | 92,203 75 |
| 1927............... | 64,000 00 | 15,316 25 | 79,316 25. |
| 1928............... | 56,000 00 | 12,813 75 | 68,813 75- |
| 1929............... | 54,00000 | 10,531 25 | 64,531 25 |
| 1930.............. | 47,000 00 | 8,416 25 | 55,416 25. |
| 1931............... | 38,00000 | 6,688 75 | 44,688 75 |
| 1932.............. | 33,00000 | 5,246 25 | 38,246 25 |
| 1933............... | 23,000 00 | 3,978 75 | 26,978 75 |
| 1934............... | 23,000 00 | 3,051 25 | 26,051 25 |
| 1935............... | 16,000 00 | 2,223 75 | 18,223 75 |
| 1936.............. | 11,000 00 | 1,673 75 | 12,673 75. |
| 1937............... | 11,000 00 | 1,221 25 | 12,221 25 - |
| 1938............... | 5,000 00 | 80875 | 5,808 75 |
| 1939............... | 4,00000 | 63625 | 4,63625 |
| 1940............... | 3,00000 | 50125 | 3,501 25 |
| 1941.............. | 2,000 00 | 40375 | 2,403 75. |
| 1942............... | 2,000 00 | 32625 | 2,326 25 - |
| 1943............... | 2,000 00 | 24875 | 2,248 75 |
| 1944............... | 1,000 00 | 19250 | 1,192 50 |
| 1945............... | 1,000 00 | 15750 | 1,157 50 - |
| 1946............... | 1,000 00 | 12250 | 1,122 50 |
| 1947. | 1,000 00 | 8750 | 1,087 50- |
| 1948............... | 1,000 00 | 5250 | 1,052 50 |
| 1949............... | 1,000 00 | 1750 | 1,017 50 |
|  | \$1,148,000 00 | \$250,178 75 | \$1,398,178 75 |

BORROWING CAPACITY, DECEMBER 31, 1920.

Brought forward . . . $\$ 254,886,74560$

| Average three years one-third |  |  |  | $\begin{array}{r} 84,962,24853 \\ 2,124,056 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| $21 / 2$ per cent |  |  |  |  |
| Funded Debt December 31, 1920 . . $\$ 1,148,00000$ Outside limit fixed by law |  |  |  |  |
|  |  |  |  |  |  |
| Sewer loan, 1895, Chap. 357. \$15,000 00 |  |  |  |  |
| Metro. Park loan, Chap. 325, | 9,000 00 | \$24,000 | 00 | \$1,124,000 00 |
| Borrowing capacity, December- |  |  |  |  |
| Maturities: |  |  |  |  |
| January 1, 1921 |  | \$34,000 | 00 |  |
| April 1, 1921 |  | \$93,000 | 00 |  |
| July 1, 1921 | \$65,500 00 |  |  |  |
| Less outside limit | 4,000 00 |  |  |  |
| October 1, 1921 |  | $\begin{array}{r} 61,500 \\ 2,000 \end{array}$ |  |  |
|  |  |  |  | \$190,500 00 |
|  |  |  |  | \$1,190,556 21 |
| Maturities within the limit, 1921 | - | \$190,500 | 00 |  |
| Maturities outside the limit, 1921 |  | 4,000 | 00 |  |
| Total maturities, 1921 |  | \$194,500 |  |  |

MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1920.
Bonds, General City Debt
Bonds, Water ....................
Temporary Loans .................
Grade Crossings .............

| Principal |
| ---: |
| $\$ 209,500 \quad 00$ |
| 2,000 |
| $\ldots 00$ |
| , 280 |
| 8,280 |

Interest

| $\$ 50,678$ | 75 | $\$ 260,178$ |
| ---: | ---: | ---: |
| 80 | 75 |  |
| 00 | 2,080 | 00 |
| 59,118 | 67 | 59,118 |
| 67 |  |  |
| 891 | 80 | 9,171 |
| 80 |  |  |

On account of Metro. Dist. Debt:

| Sewers | 21,961 36 | 31,419 72 | 53,381 08 |
| :---: | :---: | :---: | :---: |
| Park | 3,952 61 | 14,649 08 | 18,601 69 |
| Wellington Bridge | 1,265 00 | 27830 | 1,543 30 |
| Charles River Basin | 32051 | 3,705 67 | 4,026 18 |
| Alewife Brook | 81839 | 32226 | 1,140 65 |
| Water | 14,787 26 | 74,903 80 | 89,691 06 |
|  | 262,885 13 | 236,048 05 | 498,933 1 |

Somerville's proportion for debt requirements:

| In State Tax | \$27,324 93 | \$34,025 17 | \$61,350 10 |
| :---: | :---: | :---: | :---: |
| In County Tax | 4,812 91 | 3,112 49 | 7,925 40 |
|  | \$295,022 97 | \$273,185 71 | \$568,208 68 |

## GRADE CROSSING DEBT.

(Carried by Commonwealth).


TREASURY DEPARTMENT, 1920.


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

School Committee Rooms, December 28, 1920. Ordered, that the annual report of the Superintendent be adopted as the annual report of the Board of School Committee, it being understood that such adoption does not commit the Board to the opinions or recommendations made therein; that it be incorporated in the reports of the City Officers; and that 1,000 copies be printed separately.

Charles S. Clark, Secretary of School Board.

SCHOOL COMMITTEE, 1920.

| Herbert Cholerton William M. Morrison |  |  | Chairman <br> Vice-Chairman |
| :---: | :---: | :---: | :---: |
| Members. EX-OFFICIIS. |  |  |  |
| - Charles W. Eldridge, Mayor, |  |  | 47 Highland road. |
| Richard L. Rice, President | Board of | Aldermen, | , 2961/2 Broadway. |
| Francis J. Fitzpatrick, |  |  | 76 Broadway. |
| William T. McCarthy, | - |  | 38 Pearl street. |
|  | WARD Two. |  |  |
| Daniel H. Bradley, <br> Christopher J. Muldoon, |  |  | 88 Concord avenue. |
|  | Ward three. |  |  |
| Charles W. Boyer, |  |  | 104 Summer street. |
| Oscar W. Codding, |  | - | 59 Vinal avenue. |
| Frank M. Hawes, | . . . |  | 257 School street. |
| Edward I. Tripp, |  | 21 | Wigglesworth street. |
| Harry M. Stoodley, | - |  | 83 Highland avenue. |
| Miss Minnie S. Turner, |  | . | 64 Hudson street. |
| Walter I. Chapman, | Wa. |  | 18-A Central street. |
| Willtam M. Morrison, | - . |  | 97 Rogers avenue. |
| Herbert Cholerton, | Ward seven. |  | 94 College avenue |
| Paul O. Curtis, |  |  | 41 Mason street. |

## Superintendent of Schools.

Charles S. Clark.
Office: City Hall Annex, Highland avenue.
Residence: 75 Munroe street.
The Superintendent's office will be open on school days from 8 to 5 ; Saturdays, 8 to 10 . His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

> *Assistant Superintendent of Schools.
> Joseph A. EWART.

Residence: 11 Bigelow street.
Office hour: 4 o'clock on school days, and 8:30 on Saturdays.
Superintendent's office force:-
Mary A. Clark, 42 Highland avenue.
Mildred A. Merrill, 26 Cambria street.
H. Madeline Kodad, 104 Sharon street, West Medford.

Marion E. Marshall, 30 Gilman street.
*Resigned November 1, 1920.

## Board Meetings.

January $26 . \quad$ April 26.
February 23. May 31. March $29 . \quad$ June 28.

September 27.
December 24.
October 25. December 31.
November 29.
8:15 o'clock.

## SCHOOL DEFARTMEN'I.

STANDING COMMITTEES, 1920.

Note. - The member first named is chairman.

District I. - McCarthy, Fitzpatrick, Muldoon. PRESCOTT, HANSCOM, BENNETT.

District II. - Muldoon, Bradley, Codding.
KNAPP, PERRY, BAXTER.

District III. - Codding, Boyér, Fitzpatrick.

> POPE, CUMMINGS.

District IV. - Hawes, Tripp, Miss Turner.
EDGERLY, GLINES.

District V. - Stoodley, Miss Turner, Hawes.
FORSTER, BINGHAM.

District VI. - Morrison, Chapman, Stoodley.
CARR, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII. - Cholerton, Curtis, Morrison.
HIGHLAND, CUTLER, LINCOLN, LOWE.

High School. - Bradley, Hawes, Fitzpatrick, Codding, Stoodley, Morrison, Cholerton.
Finance. - Stoodley, Bradley, Fitzpatrick, Codding, Tripp, Morrison, Cholerton, Eldridge, Rice.
Text-Books and Courses of Study. - Muldoon, Miss Turner, McCarthy, Boyer, Tripp, Chapman, Curtis.
Industrial Education. - Tripp, Boyer, Fitzpatrick, Muldoon, Miss Turner, Chapman, Curtis.
School Accommodations. - Codding, Chapman, McCarthy, Bradley, Hawes, Stoodley, Cholerton, Eldridge, Rice.
Teachers. - Cholerton, Muldoon, Codding, Miss Turner, Morrison.
Health, Physical Training and Athletics. - Morrison, Curtis, McCarthy, Muldoon, Boyer, Tripp, Stoodley.
Rules and Regulations. — Hawes, McCarthy, Bradley.

## REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee: -
Hereby is submitted a report of the public schools for the school year ended June 30 and for the municipal year 1920. The report covers the work of the schools, and statistical tables giving facts concerning membership and ex̀penses. The statistical tables are prepared for the school year ended June 30 in order to correspond with the reports made to the State Board of Education, but other facts to correspond with the municipal year are also presented.

## Membership

There has been an increase in the membership of the schools during the past year. This increase shows equally well under the headings of average membership, enrollment, or present membership, although the numbers under those headings vary. A comparison between the membership in the schools in December, 1920, and December, 1919, is as follows:

|  | Elementary |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | High | Junior High | ntinder gartens | $\stackrel{\text { Vo- }}{\stackrel{1}{2}}$ | Total | $\begin{gathered} \text { In- } \\ \text { crease } \end{gathered}$ |
| December | 1920 | 1692 | 3168 | 8630 | 121 | 13,611 | 444 |
| December | 1919 | 1618 | 2937 | 8517 | 95 | 13,167 |  |

A similar comparison for teachers is as follows:

|  |  | High | Junior <br> High | Elementary <br> including <br> Kinder- <br> gartens | Vo- cational |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | Total Decrease

Twenty-eight teachers were elected during the year, distributed as follows: High School 4, Junior High School 6, Elementary schools 13, Vocational school 1, Continuation school 4.

Fifteen teachers resigned, -4 to be married, 7 to accept better paying positions; the remainder for various other reasons. This statement shows a greater stability in the teaching corps during 1920 than in any other of the last few years. This change is doubtless due to two causes ; first, to improved
salary schedules, second, to the return to more normal business conditions since the close of the war. It is to be hoped that this stability may continue so that the schools may have the benefit of uninterrupted service of competent teachers.

## Elementary Schools

The elementary schools comprise all the classes below the seventh grade. Their function is to teach the tools of knowledge and to train the pupils in civic obligations,' in the rules and practice of health, and in appreciation of the arts of music and drawing. In connection with these undertakings and as the purpose of them all, it is the function of these schools to train the pupils in regard for the right and in abhorrence of the wrong; in short, to mold the character of the youth and to make them self-dependent and upright.

In these schools are laid the foundations of learning and the foundations of habit. It is important, therefore, that adequate provision should be made to insure their successful operation. Among the most important of these provisions are good teachers, good school rooms and school furnishings, a proper ratio of pupils to a teacher, and a well planned and adequate curriculum of studies. These conditions have prevailed in the elementary schools during the past year. Some improvements have been planned and partially put into effect during that time.

Among these is the introduction in all grades of specific instruction in civics, and in United States history in accordance with the provisions of an enactment of the State Legislature made in May, 1920. A revision of the course of study in arithmetic has also been made and committees are being formed for the revision of the other courses of study. New editions of the text books in use are being furnished in replacement of older editions. The principals and teachers are working enthusiastically and good results are being secured.

While it is undoubtedly true that more is demanded of the schools today in the way of variety and extent of service than was ever asked of them before, it is also true beyond a doubt that never was there a time when the schools responded more successfully or more vigorously to their task than they do today.

## Secondary Schools

In 1918 the Department of the Interior, bureau of education, issued a bulletin entitled "Cardinal Principles of Sec-
ondary Education." This was a report of the commission on the re-organization of secondary education appointed by the National Education association.

By reason of the reputation of its members, the nature of its appointment, its affiliation with many other committees dealing with the organization and administration of secondary schools, this commission has spoken with greater authority than that which attaches to the utterances of a single individual however eminent in educational thinking. After discussing the changes which have taken place in American life during the past decade and the changes that have occurred during the past 25 years in secondary school population of the United States, the commission proposes the following as the main objectives that should guide education in a democracy:
(1) health, (2) command of fundamental processes, (3) worthy home membership, (4) vocation, (5) citizenship, (6) worthy use of leisure, (7) ethical character. While applying these objectives to the whole process of education the commission deals specifically with the problem of re-organizing secondary education so as best to promote the attainment of these objectives. It favors such a re-organization of secondary education that it may be defined as applying to all pupils of approximately 12 to 18 years of age.

It favors the division of the six years deroted to secondary education into two periods, the junior and senior. "In the junior period emphasis should be placed upon the attempt to help the pupil to explore his own aptitudes and to make at least provisional choice of the kinds of work to which he will devote himself. In the senior period emphasis should be given to training in the fields thus chosen. This distinction lies at the basis of the organization of junior and senior high schools."

Our junior and senior high schools correspond with the organization recommended in the report of the commission. Each of the objectives is recognized as a "cardinal principle" in the management of the schools but equal advancement has not been made in all of them. Where the advancement is the smallest. is in the case of the objectives which have not been so generally emphasized as important functions of secondary education.

As an illustration of the change of sentiment in these particulars, may be cited the action of the Massachusetts Legislature already referred to requiring the study of American history and civics in all public elementary and high schools and the proposition to make physical training and health instruction compulsory in the public schools.

## Junior High Schools

The Junior High schools have had a year of uninterrupted and successful work. In the main the teaching corps was the same as that of the previous year and consisted of teachers who had had one or more years of experience in their subjects. The organization of the schools had become so well managed as to provide a good medium for the teaching forces of the schools. The courses of study were well understood. The things to be undertaken and the methods to be employed were known. Consequently the work of the year was as a whole the best since the establishment of the Junior High schools.

As an evidence of the holding power of the Junior High school the facts about promotion in June are given below. It should be borne in mind in considering these figures that many children become 14 years of age during the eighth school year and consequently are legally free to leave school. Between the eighth and ninth year, or between the grammar school and the high school, is the time when many children drop out. Another danger period is that between the ninth and tenth year, or the first and second year of the high school.. The figures given below relate to those two transition points.

## Eighth Grade Promotions

Promotion from the eighth grade to the ninth grade in the Junior High School corresponds to the promotion from the last grade of grammar school to the High School.

| Eastern Sunior High | No. Entering Grade 9 |  |  |
| :---: | :---: | :---: | :---: |
|  | No. in No. promoted in SepClass in June to Grade 9 tember, 1920 |  |  |
|  |  |  |  |
| Southern Junior High | 233 | 228 | 215 |
| Northern Junior High | 215 | 204 | 204 |
| Wêstern Junior High | 351 | 331 | 336 |
|  | 936 | 897 | 880 |

Promotion from the ninth grade to the tenth is the promotion from the Junior High School to the Senior High School. The tenth grade corresponds to the second year of a four year High School.

|  |  |  | o. certified | d No. |
| :---: | :---: | :---: | :---: | :---: |
|  | No. in |  | to High | entering |
|  | class | No. given | Schiool H | High School |
| School | in June | diplomas | Grade 10 | Sept., 1920 |
| Eastern Junior High | 113 | 101 | 101 | 93 |
| Southern Junior High | 209 | 200 | 200 | 157 |
| Northern Junior High | 169 | 164 ' | 160 | 148 |
| Western Junior High | 251 | 240 | 239 | 226 |
|  | 742 | 705 | 700 | 624 |

## Senior High School

The senior high school provides training for the pupil in the field which he has chosen. The curriculums prepare forhigher institutions, for work in special vocation, and for a general training upon which future specialization may be built. Each of these curriculums is well organized and taught by competent teachers. The opportunity for success is open to every serious student.

During the last school year, the work of the school was conducted with fewer interruptions and distractions than had been the case for the past few years. As a consequence moresatisfactory work was accomplished in all departments of the school. The graduates in 1920 compared favorably with those in any previous year whether in preparation for higher institutions of learning or in preparation for business pursuits.

There are difficulties, however, in the way of meeting fully the objectives above outlined which grow out of the limitations of time and space. The school day is too short to permit devoting an adequate amount of time to physical training. As a consequence, this important objective of secondary education is slighted.

The school occupies the plant so completely that some activities which ought to be conducted are omitted or are conducted in a cramped manner. An illustration of the latter is the school bank and the office practice work of the commercial department. The lack of time could be remedied by making a reasonable addition to the length of the school day. For the lack of room, there is no remedy at present.

## Boys' Vocational School

Several new features have characterized the conduct of the Vocational School for Boys during the past year. The first of these is the loan by the United States Government of machine equipment valued at approximately $\$ 25,000$.

These machines were received in the early part of the year and were set up in the building used by the machine shop. The second of these events was an arrangement made by the School Committee with the Federal Board for Vocational Education whereby disabled service men are to receive instruction in the trades which the school teaches.

As a consequence of this arrangement, approximately 60 men have been received in the shop and have been trained for various periods. The purpose of this work is to qualify these men to go out into the trades and become self-supporting.

Another distinctive feature of the year is the fact that the-
attendance of boys has increased so that now there is a waiting list in the automobile and machine departments. Two new instructors, one a machinist and one a teacher of mechanical drawing, have been employed and a thoroughly equipped room for mechanical drawing has been provided. This school is now in the most prosperous condition that it has had since its opening.

## Household Arts Department

In the fall of 1919 it was deemed wise, on account of the lessening number of pupils, to transfer the Girls' Yocational School from the building on Atherton street to the High School building. Accordingly the school was established in rooms in the east wing of the High School building, and was there conducted during the school year enḍed June 30, 1920.

Eleven girls were graduated but the number remaining in the school was too small to justify its continuance as a separate organization another year. The decline of this school has been coincident with the period of disturbed social and economic conditions which have attended the world war. Girls have readily found employment during this period, and the high wages paid coupled with the necessities due to the high cost of living have induced them to leave school as soon as they could.

The school has not been able to hold these girls against such attractions of employment, and consequently the attendance has diminished. The School Committee, however, was reluctant to abolish this type of work which has been so successfully conducted in the Girls' Vocational School. Consequently it took advantage of the provisions of the statutes enabling it to establish in the High School a department of Household Arts, to be conducted in co-operation with the State Board of Education.

Girls who take the work of this department devote one half of their time to Household Arts and the other half to academic subjects. This course is open to pupils in the third year of the junior high school as well as to girls in the senior high school. Like other courses in the curriculum it leads to a diploma. Graduates of this course are eligible for admission to the vocational courses for teachers at the Framingham Normal School, and will be qualified for profitable employment in the line of work which they have pursued in this course.

## Kindergartens

Kindergartens form a part of the school system in most progressive communities. In Somerville there are four kindergartens, located in 'Wards I, II, and IV, which were pro-
vided more than a dozen years ago. During the interval sincethe establishment of the last one, requests have been madefor kindergartens in various parts of the city.

These requests have been denied partly because of the expense involved and partly because for the most of the time there have been no vacant rooms available for this use. Recently the School Committee has been asked to open a kindergarten in the Bingham School, and informal requests have been presented for one in the western part of the city.

When the existing kindergartens were established the school system consisted of 13 grades, the kindergarten making the fourteenth. Now the system consists of 12 grades, oneyear having been taken off the course below the high school.

Under these circumstances it is all the more reasonable: to provide kindergartens whenever it is possible to do so. Kindergartens have effectively demonstrated their usefulness. It isundoubtedly desirable that there should be at least one kindergarten in every ward in the city.

## Continuation School

According to the forecast made in the last report a continuation school was organized and made ready for the opening of the school year in September. Careful examination of the conditions affecting the youth for whom the school was intended was made before the plans for the school were adopted.

From this examination it appeared that there were over a thousand minors between fourteen and sixteen years of agewho were at work by authority of an employment certificate. Of this number by far the larger number were employed outsideof Somerville. As under the provisions of Chapter 311, General Acts of 1919, minors must attend continuation school in the place where they work, only those who were employed in Somerville were eligible for attendance in the local continuation school.

It was found that there were about 150 , of whom about 50 were girls and 100 boys. Since this number was not large enough to make it necessary to use a separate building for this school, considerations of economy dictated placing it in a school building where overhead charges could be reduced and where the expenses of installing new equipment could be avoided by using that already provided.

Arrangements were therefore made to conduct this school afternoons and to place it in the high school building. One of the manual training rooms was put at the disposal of the boys and one of the domestic science rooms was given to the girls. It was determined that the program of studies should:
be divided about equally between academic and practical arts subjects.

A director and three teachers, two men and one woman, were employed. When the school opened in September there was a good market for child labor and as a consequence the number of children who were out of school and at work was above the normal.

At the present time, however, minors are being "laid off" and are out of employment. Such minors must, under the law, attend school in the place where they reside. Most of them prefer to go to the continuation school rather than to return to the day school while waiting for a new job. Such pupils are required to attend continuation school 20 hours a week. About 50 of these minors have been added to the membership of the school.

Should this condition continue, it will have a material effect upon the plans of the school, as the problem of the twentyhour pupils is distinct from the problem of the four-hour pupil. It involves a larger provision of room, instruction and equipment. A temporary teacher of academic subjects for the girls' classes should be provided for the opening of the schools after the holidays.

## Americanization Work

Since September work in Americanization has been given an impetus by the action of the Board in appointing a Director to have supervision of this work and by the opening of additional classes. There are now in operation 9 classes for adults who are seeking instiuction in our speech and customs. These classes are enthusiastic and are all making good progress. There is likelihood that several more classes can be formed when schools reopen after the holidays.

It is planned to provide instruction whenever a group can be brought together for this purpose. Such classes may be held in factories, in homes, and club rooms, as well as in school buildings, and may meet in the day time as well as in the evening. This work is being carried on in co-operation with the Americanization Division of the State Department of Education.

## Evening Schools

Evening schools were conducted this fall with the following classification: High School in the High School building; Elementary Schools in the Bell and Highland School buildings; Industrial classes for Men in the Boys' Vocational School;

Practical Arts classes for Women in the High and Western Junior High School buildings; Americanization classes in four elementary school buildings.

Elementary schools have had a reduced attendance, partly on account of the opening of the Continuation School, which takes some pupils who would otherwise attend at night. The evening high school has maintained classes in commercial subjects, mechanical and free-hand drawing, Civil Service and English. These classes have been well attended and have developerl a good interest throughout the term. As only experienced and capable teachers are employed, the work has been of a high order.

Industrial classes for men have been carried on at the Boys' Vocational School two nights a week. Classes have been formed in automobile repair and in machine shop work. Four instructors have been employed and the work is conducted in co-operation with the State Board of Education.

In practical arts classes for women instruction has been given in dressmaking and in millinery. These classes were very large and have met a very obvious need. Difficulty in securing teachers for these classes alone prevented opening additional ones.

## Credits For Music

The study of rocal music has long been a part of the curriculum of the public schools and as such has had the help of special instructors. The ability to teach rocal music has been one of the qualifications of teachers in elementary schools. Textbooks and pianos have been provided to aid in this instruction. The place of instruction in rocal music in public schools is secure.

The results of the teaching of music have entered into the life and character of the nation. A remarkable demonstration of the fundamental spiritual value of music was given when during the period of the world war the whole nation as well as our soldiers sang and played the songs which stirred the people and raised their ideals and purposes to a lofty plain. That with the removal of the strain of war there should be a relapse in this emotional display is wholly natural, but such a relapse does not detract at all from the significance of music as an element in the life of a people.

The lesson, if one were needed, is that music is a serious pursuit and one which should be encouraged in all proper ways. In youth is the time to begin the study of instrumental music. Parents recognize this fact and provide, often times at great sacrifices, opportunities for their children to begin to
play. The more serious the effort of the child in such a study, the greater is the draft upon his time.

With the increase of demands for study made by the school as the child progresses in years, there comes a conflict between the requirements of the school for outside work and the demands of the study of music. Under these circumstances, promising students in music are frequently compelled to drop such study during a period of their school life. Sometimes this results in the pupil's abandoning such study after a favorable beginning has been made.

These considerations have induced many school systems to provide a way whereby outside study of music may be offered to take the place of some of the studies in the school curriculum. By this means children who wish to study music seriously at home may be permitted to do so and still carry on their school work unimpaired. The Somerville School Committee in June of this year, after due consideration, adopted a plan which was designed to give to students of the high and junior high schools the benefit of credits for outside study of music.

This plan was put into effect with good results at the opening of the schools in September. In view of the short notice concerning the provisions of this plan given the high school pupils, the number taking advantage of the opportunity is large. In October 92 pupils had registered for credits in music. Of this number 69 are studying the piano; 11 the violin; 4 are studying the cornet; 1 the drum ; 1 the trumpet, and 6 are taking vocal lessons. 61 different teachers are represented in this group. In the junior high school a corresponding response has been made. This plan then is well begun and promises to grow in importance.

Larger provision should undoubtedly be made for the study of instrumental music in connection with the work in the high and junior high schools. Already in these schools there are orchestras, which are attempting to do serious work. That their efforts are meeting with success is shown by the fact that there is a constant request for the services of these organizations at meetings of parent-teachers' associations and other associations of a similar nature.

In the high school a military band is conducted and there is a boys' fife and drum corps and one composed of girls. These organizations have taken a conspicuous part in school outdoor events and as such are a valuable asset to the general activities of the school. There are in the senior and junior high schools glee clubs which train the children in concerted singing.

The efficiency of the instrumental music in the high and junior high schools would be greatly increased by making a
definite provision in the program of study for this work as is now made for vocal music. The plan adopted by the School Committee for giving credits for outside study of music is as follows :
I. That a pupil belonging to the High School orchestra, band, or any other instrumental school organization having weekly rehearsals, may receive one (1) diploma point credit per year if, in the judgment of the teacher in charge, he has been regular in attendance and faithful to his work.
II. That a pupil belonging to a school glee-club or choral practice class having weekly rehearsals may receive one (1) diplona point credit per year, if, in the judgment of the teacher in charge, he has been regular in attendance and faithful to his work. Either course shall be open to all pupils passing a voice and sight-reading test made by the Supervisor of Music.
III. That a pupil of the High School taking lessons on the piano, organ, any orchestral instrument or in vocal music shal) be allowed two (2) points credit per year on the following conditions:
(a) An application for such credit, on forms to be furnished by the Board, shall be filed with the headmaster not lat. er than two weeks after the opening of school.
(b) One hour of daily practice shall be required throughout the school year.
(c) One lesson per week throughout the school year shall be taken from a teacher.
(d) Lessons or study lost shall be made up before the end of the period for which credit is desired.
(e) A quarterly report, on the forms to be furnished by the Board, shall be filed with the headmaster by the pupil, signed by his teacher certifying the number of lessons taken during the quarter, the compositions studied or work covered and the grade of accomplishment, and signed by the parent or guardian certifying the number of hours per week practiced.
(f) Annually, during the first week in June, pupils desiring credit shall be examined by a Board of Examiners consisting of the Supervisor of Music and one other person to be appointed by the School Board. The examination shall be based on the private teacher's statement of the course covered.
(g) Granting of the credit shall be determined by the examination, but due weight shall be given to the quarterly reports of the private teacher.
(h) Outside study in applied music may be counted each year and may be substituted in place of an elective in any course; provided that pupils fitting for Harvard College, the Institute of Technology, Radcliffe, Mt. Holyoke, Smith and Wellesley College may not substitute this subject for an elec-
tive but may take it only after all subjects indicated in the college requirements for that year have been elected; provided, furthermore that the restrictions set forth in this paragraph shall automatically be removed at any time the college requirements permit.
IV. That the Superintendent of Schools in conjunction with the Supervisor of Music be authorized to prepare a course of study for the piano, the course to be divided into groups.
V. That no specific course offered by the publishing houses be recommended by the Board.
VI. That the Superintendent of Schools be authorized to formulate and have printed two blank forms.

1. An application blank and examination record.
2. A quarterly report blank to embody space for data called for in Paragraph III (e).
VII. That the Superintendent of Schools be authorized to have printed a circular setting forth briefly the plan for giving credit for outside study in applied music.
VIII. That the Superintendent of Schools be authorized to have printed a circular showing the course of study for the piano.
IX. Inasmuch as the point credit system does not obtain in the junior high schools, the committee recommends in lieu of credit points:
(a) that pupils of the first and second year of the junior high school be allowed to substitute outside music for drawing;
(b) that third year junior high school pupils be allowed to substitute outside music for one period of Manual and Household Arts or for one period of another subject at the discretion of the master.

X . That the requirements of applications, quarterly reports and examinations applicable to high school pupils shall be exacted of junior high school pupils.
XI. That the work of the musical groups, mentioned in paragraphs numbered 1 and 2 of this report, shall, when offered, constitute part of the approved curriculum of the high school.

## Garden Work

During the summer, school gardens were conducted on public areas and upon private land loaned for the purpose. Eleven places were used for gardens; 365 children engaged in this work during the season and raised crops whose market value was estimated by Supervisor Moore to be approximately $\$ 8,214.45$.

The cost of this undertaking to the city was $\$ 3,044.05$, so it will be seen that the young gardeners have produced values in excess of the cost of the undertaking to the amount of $\$ 5,170.40$. In addition to this, they have had valuable experience both in garden training and in habits of work.

The garden supervisor has reported that many children have said they worked harder in school gardens than they had ever done in anything else. In several instances parents have expressed wonder that children who would do little work at home were willing to work in the gardens. The products of the gardens were used for home consumption, but in many cases there was a surplus which was sold and yielded a good money return to the producer.

Along with the work in gardening canning classes were conducted. 56 pupils were enrolled in these classes and they put up an average of 32 jars each. Estimating the value per ${ }^{2}$ jar at 40 c , this made a total valuation of $\$ 716.80$. As far as possible the products of the garden were used for canning classes. The cost of the canning is included in the statement already made for garden cost.

## Thrift

During the last school year, the schools returned to the use of the school savings bank as a means of promoting thrift. This action was taken after a careful consideration of the relative merits of thrift stamps and of the school bank as a means of establishing habits of economy and saving.

For our schools it was the opinion of masters and teachers that the school bank as organized in the local schools and as carried on by co-operation with the Somerville Institution for Sarings was the better agency. Consequently the school bank was set up in all the schools and children were instructed in thrift and were encouraged to bring their savings to school to be deposited in the school bank.

As a result of this effort more than six thousand children became depositors and nearly $\$ 40,000$ were put in the bank during the last school year. This is a good showing when all the facts affecting the matter are taken into consideration.

The child today lives in an environment where easy spending is the prevailing habit of mind. Economy and saving are old-fashioned virtues to which little respect is shown today. Along with this disregard of responsibility for the economical use of money which is everywhere apparent, temptations for the child to spend his money have multiplied on all sides. To offset these temptations and to counteract the tendency towards waste and extravagance, serious efforts should be made in the schools.

The teaching of thrift and the promoting of saving should be vigorously carried on in the hope that the child may by these means be taught habits which will endure when he leaves school to become self-supporting. To this end the school bank should be maintained in every school and principals and teachers should encourage children to use it systematically throughout the school year.

## Classes for Retarded Children

During the year some informal inquiries were made in the schools to ascertain the number of children three years or more retarded in mental development, with a view of carrying into effect the provisions of the statutes of 1920 which require School Committees to establish special classes for such children.

This work was carried on before the close of school in June and it showed that there were enough children of this description to make several more classes. Before this work was completerl, however, the announcement was made that the State Board of Education would be able to offer the services of travelling clinics for phychological testing in the schools, by means of which the children who should be instructed in such classes might be determined.

Upon the receipt of this information it was decided to defer further efforts until the travelling clinic could make the tests. It is probable that the services of the clinic will be available early in 1921. Until after the investigation shall be made by this clinic no further action need be taken. It is probable, however, that it will then be necessary to open several more classes for these children. For each one of these a room and a teacher must be provided.

## School Accommodations

The situation in respect to school accommodations was presented at length in the last annual report of the School Committee. Since that time, no material change has occurred. In the high school all rooms are now in use for the regular work of the school, and several more rooms could be occupied advantageously if they were available. The junior high schools are all overcrowded and three of them seriously so. Several of the elementary school buildings are full and in three of them are part-time classes.

On the other hand in several school buildings there are rooms not devoted to regular classes. These rooms, however; are used for valuable school purposes. In one building, the

Knapp School, two rooms have been converted into an assembly room wherein general exercises of the school can be held. In other school buildings, the vacant room will soon be needed for special classes.

During the year action for providing additional accommodations has been halted by the high cost of building but there is encouragement to believe that with the advent of lower construction cost, renewed consideration will be given to providing additional accommodations.

Upon this matter, in reply to a communication sent to the School Committee from the Board of Aldermen, the School Committee made a public statement of its position which is printed in the appendix of this report.

Following this action, the Board of Aldermen replied by proposing the erection of one junior high school building, "when it shall be apparent that building can be safely carried on" to accommodate the Northern and Eastern Junior High School organizations and the releasing thereby of "the present junior high school in the Prescott School for elementary purposes."

## Co-operative Work

In carrying on the work of the schools during the last year the assistance of agencies outside the administrative force has been sought wherever possible in planning the policies to be followed and in putting them into effect when once adopted.

Among the agencies which have helped in this co-operative work are the following:

First - The aid of principals and teachers has been employed by means of :

1. Frequent conferences with principals of schools.
2. Stated meetings of teachers of the junior high schools with heads of departments at which policies and methods were discussed and at which plans were made for the work which was to follow. The superintendent participated in some of these meetings and the results of all of them were reported to him by a member of the conference.
3. Committees of teachers composed for the purpose of preparing outlines of study. All the courses of study in the junior high school were revised this year by committees of junior high school teachers. These committees consisted of representatives from the several junior high schools who worked together in the preparation of the outlines. The members of the committee conferred with the other teachers in their own schools so that in this way all teachers had a part in the making of these outlines.
4. Grade meetings of elementary school teachers with
supervisors of special subjects and with the superintendent of schools.
5. Reports from teachers upon new textbooks. Teachers have had an opportunity to examine and pass upon all books which have been submitted for adoption as new textbooks.
6. Conferences with individual teachers with the superintendent upon their personal or school interests.

Second - Parent-Teachers' associations have been formed in connection with three of the junior high schools and with several of the elementary schools. These associations have met frequently and have done much to promote the interests of the schools by bringing the teachers and parents into more intimate and friendly relations.

Third - The American Red Cross has given assistance by (1) providing material for the work of boys in manual training schools, and for girls in sewing; (2) making possible the activities of the Junior Red Cross organization.

Fourth - The Somerville Visiting Nursing association has contributed $\$ 50$ for the conduct of the Modern Health Crusade in several of the public schools.

Fifth - The Anne Adams Tufts Chapter of the D. A. R. has offered a prize for an essay contest in the junior high schools and has furnished copies of the American's Creed for distribution.

Sixth - Major John A. Cummings Camp Number 3, Sons of Veterans, has offered a prize for an essay contest in the high school.

Seventh - The American Legion has offered a prize for an essay contest upon a patriotic subject in the high school.

## Conclusion

This review is too brief to give more than an outline of the work of the schools. It will be amplified, however, by reports which heads of departments will submit to be printed herewith. In these reports will be found much interesting and valuable matter concerning the work of the several departments of the school undertaking.

In closing I wish to acknowledge cordial co-operation of the teachers and principals in the work of the school year. Theirs, in the largest degree, has been the responsibility and in a high degree they have borne it nobly. To the members of the School Committee I express deep appreciation of their consideration throughout the year and of their zeal and fidelity in caring for the interests of the schools.

> Respectfully submitted, Charles S. Clark,

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

Dear Mr. Clark: -
The year of 1920 marked a new epoch in the history of the Somerville High School, - the establishment of a Senior ${ }^{2}$ High School. Although junior high schools had been in operation for several years in certain parts of the city, yet not until this year were all pupils entering the High School graduates of a junior high school.

In mentioning this last rearrangement of the High School it might be interesting to note that Somerville has always been abreast the times in that it has exemplified in the changes in its High School the progress of the high school movement throughout the country. The four epochs or stages through which our High School has passed might be classified as follows:

1. The original High School (1852-1895), largely a college preparatory school, was the only school which a pupil desiring an education beyond the grammar school could attend.
2. The Specialized High Schools (1895-1911). The Latin High School, a strictly preparatory school, and the English High School, a school doing some preparatory work, but placing great emphasis on business preparation, work in the manual arts, and making a special feature of the elective system.
3. The comprehensive four-year High School (1911-1920). The curriculum of the school was planned along the following lines: College Preparatory, Scientific Preparatory, Normal Preparatory, Commercial, General, Manual Arts and Domestic Science Courses. This type of school has gradually been adopted as the accepted type of high school throughout the country and in the report of the Commission on the Reorganization of Secondary Schools, appointed by the National Education Association published in 1918, the comprehensive high school was endorsed as the standard type of secondary school in the United States.
4. The Senior High School (1920- ).

The three upper classes are retained in the high school, the first class becoming the last class of the junior high schools.

## Physical Training.

One feature of high school development emphasized under the "Cardinal Principles of Secondary Education" issued by
the National Education Association and endorsed by the U. S. Bureau of Education in which our city has not made satisfactory progress, is that of physical education. Health is placed first among the seven "Cardinal Principles," yet very little attention has been paid to this great need in our schools, and particularly in the high school. Although Somerville has stoorl out prominently in athletics, this has been of little advantage to the great mass of our young people. While much money has been spent upon members of our athletic teams who are selected from the strongest and healthiest and who are therefore in the least need of physical training, very little on the other hand has been spent on the girls and the great majority of the boys who sadly need instruction and advice on matters of health and physical development.

A request for a gymnasium has been made year after year, and has been even recommended more than once by the School Committee, but no gymnasium has as vet materialized. There are twenty-one schools in the state of a thousand or more pupils; seventeen of these schools are well equipped with gymnasiums, four are not. Somerville is in the latter group. To teach properly physical training to the pupils of this school we should have at least one, preferably two, gymnasiums well equipped with proper apparatus and properly supervised by expert instructors. Then, and not till then, will we be able to help our bors and girls to think straight in the care and proper development of their bodies.

## Open House Night

An interesting experiment was tried on the evening of Jamuary 21 st when parents of the pupils were invited to an evening session of the high school which consisted of recitations and demonstrations of school work. The invitation was worded as follows:

PARENTS' NIGHT

## SOMERVILLE HIGH SCHOOL

will keep

OPEN HOUSE

The program for the evening will consist of one period of the week's work, including recitations and class room work in the following subjects:

| Arts and Crafts | History |
| :--- | :--- |
| Biology | Manual Training |
| Bookkeeping | Mathematics |
| Chemistry | Mechanical Drawing |
| Commerce and Industry | Physics |
| Cooking | The Languages |
| Dressmaking | Stenography |
| Freehand Drawing | Typewriting |

At an assembly at $9: 00$ o'clock in the Auditorium the School Orchestra will play. Two Physical Training Groups will give a demonstration of the daily Setting-up-Drill.

Throughout the evening the teachers will be in their class rooms to welcome visitors for conferences.

## ALL FRIENDS OF THE SCHOOL ARE INVITED

A very large number of parents were present and much interest was manifested in the demonstration of recitations, in the display of school work, and in the entertainment furnished by the orchestra and physical training groups.

## Honor To Our Heroes

I wish to give public recognition, at this time, of the tablets which have been placed on the walls of the school in honor of the boys who went from this school to serve their country in the World War. Two beautiful tablets, one of the graduates of the school, and the other of the undergraduates who served in the war, were prepared by our art teachers, Blanche S. Bradford and Helen F. Lyon, who gave unstintingly their talent and time to honor our young men in the war. The other, a beautiful bronze tablet, was presented by the pupils of the school in honor of the boys who died in the service. This was formally presented at the graduation exercises last June. This tablet was made by a firm composed of graduates of the school, T. F. McGann \& Company, and is in every sense symbolic of the honor and affection of all who have been members of the Somerville High School for the boys who gave their lives in loyal defense of their country.

## Credit For Music

The recognition of applied music as a part of the school curriculum not only brought to our attention a great many pupils who are studying music outside of school, and who are desirous of getting diploma credit therein, but has also cre-
ated renewed interest among the many pupils who have thereby registered as members of the orchestra, school band, fife and drum corps, glee clubs, etc.

The following figures are extremely interesting, and surely indicate a great appreciation of music in the school.

Enrolled in applied music. -


In thie school band and kindred organizations, the following pupils have registered:

|  | Boys | Girls | Total |
| :---: | :---: | :---: | :---: |
| Drum | 50 | 18 | 68 |
| Fife | 22 | 31 | 53 |
| Trumpet | 7 | .. | 7 |
| Horn | 2 |  | 2 |
| Trombone | 3 |  | 3 |
| Baritone | 1 |  | 1 |
| Bass | 3 |  | 3 |
| Piccolo | 1 |  | 1 |
| Clarinet | 4 | . | 4 |
| Saxophone | 1 |  | 1 |
|  | 94 | 49 | 143 |

In the school orchestra there are 48 pupils playing the following instruments:


The Girls' Glee Club has an enrollment of sixty pupils. The Boys' Glee Club has an enrollment of thirty pupils.
The total number of pupils registered in the music courses is 374 ; girls 204, boys 170 .

## Enrollment of the School by Courses, December, 1920.



Summary

| Courses | III Yr | II Yr. | I Yr. | Total |
| :---: | :---: | :---: | :---: | :---: |
| College | 78 | 145 | 111 | 334 |
| General | 55 | 97 | 108 | 260 |
| Scientific | 41 | 119 | 102 | 262 |
| Normal | 13 | 22 | 4 | 39 |
| Commercial | 131 | 334 | 307 | 772 |
| 50.50 |  | 6 | 3 | 9 |
| Grand total | 318 | 723 | 635 | 1676 |

Two interesting observations should be made from the above tabulation.

1. The size of the General Course, 262 pupils out of 1676 , giving a much larger proportion of general pupils than we have had in previous years. This would seem to imply that many pupils realize that neither the College Course nor the Commercial Course furnishes the best fitting for the particular plans which they have in mind.
2. The establishing of a $50-50$ course, that is, the Domestic Science course authorized by the State Board of Education wherein girls may devote 50 percent of their time to household arts subjects and the other 50 percent to academic subjects, this course being state-aided. It is to be hoped that this course will become much larger as it is truly beneficial to the school and to the pupils.

## The Preparatory Course.

The result of preparation for college last year, although not satisfactory to us was nevertheless commendable. When thousands of young people had been turned away by the colleges because they had no room to accommodate them and when, therefore, the very best only of those applying were admitted, it is worth noting that Wellesley College from six pupils presenting themselves for examination from our school admitted five. Of nine gills taking examinations for Women's Colleges seven passed. Of twelve boys taking examinations for college, seren passed. It should be noted in stating the case for the schools of the present day in contrast to the old days that the recommendation of the school is not now required in order for a boy to present himself for examination. As a result, failures are often foreseen, but with no power on the part of the school to prevent them.

Honors to Our Graduates at the Colleges.
The following pupils, all of whom received their college preparation in our comprehensive high school, have been granted special honors at college.

## Class of $1: 16$

Arrington, Ruth
Radcliffe. Winner of $\$ 200$ Scholarship for passing best entrance examination. Won scholarship each year of college course. Phi Beta Kappa.
Arrington, Winnifred
Radcliffe. Winner of scholarship each year of college course. Phi Beta Kappa.
Murray, Arnold
Harvard. Price Greenleaf Scholarship.

Weisman, Bella
Boston University. Scholarship each year. Phi Beta Kарра.
Newton, Carl
Dartmouth. Rhodes Scholarship. Rufus Choate Scholarship at Dartmouth.
Class of 1917
Cole, Russfll
Tufts. Leader of class and of college in scholastic standing. Elected valedictorian. (Died shortly before graduation).
Coyle, Doris
Boston University. Phi Beta Kappa.
Carey, Frederick M.
Harvard. Scholarship each year. Foreign Fellowship
at graduation. Made Phi Beta Kappa in Junior Year.
Barrett, Gerald R.
Harvard. Scholarship each year of college course.
Foreign Fellowship at graduation. Phi Beta Kappa.
Derby, Edward H.
Harvard. Price Greenleaf Scholarship.
Class of 1918
Currie, Dorothy G.
Radcliffe. Winner of $\$ 200$ prize for passing best entrance examination.
Starbird, Arthur H.
Harvard. Second Group Scholarship.
Class of 1919
Chapman, Dwight I.
Boston University. Winner of Augustus Buck Scholarship.
Easton, Charles
Boston University. Winner of entrance scholarship. Price, Harold F.

Harvard. Price Greenleaf Scholarship.
Class of 1920
Blanchard, Walter O.
Harvard. Price Greenleaf Scholarship.
Northrup, Guy H.
Harvard. Price Greenleaf Scholarship.
Slafsky, Leo
Harvard. Price Greenleaf Scholarship.
Foye, Lucian Curtis
Boston University. Buck Scholarship.

After careful analysis of the record of the pupils who have - entered college and business from this school, it seems that the iSomerville High School should in no sense be ashamed of its graduates, and in fact I feel justified in stating that the record of pupils who have gone from this school compares very favorably with the product of the best public high schools.

With a return gradually to normal conditions and with the corresponding disappearance of the disconcerting influences of the past few years, the year 1921 should produce an even higher grade of progress, efficiency, and service.

Respectfully submitted,

John A. Avery,

Head Master.
February 18, 1921.

## REPORT OF VOCATIONAL SCHOOL FOR BOYS.

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

## Dear Sir :

I submit the following report of the work of the Boys' Vocational School. The enrollment this year is the largest in the history of the school and there is a waiting list in two of the departments.

In June 18 boys were graduated and 17 boys were placed in the industry for which they were trained. The work of a vocational school is judged by its so-called "productivity" and in this respect our school has been signally successful as some twenty manufacturing firms in Greater Boston have co-operated with us in assigning work to be done by our school. This arrangement serves two purposes:-it provides our pupils with definitely practical work of a commercial nature and it saves the City of Somerville the expense of providing material to supply this or similar practical experience and training. The trade value of the finished product this year was $\$ 5817.29$. The school increased the value of its own plant equipment $\$ 2007.56$ and benefited the School and City Departments by their efforts to the extent of $\$ 935.80$, for which no charge was
made to these departments. No charge for labor furnished by the pupils is made to the City and the cash received from outside work done by the pupils is used to purchase raw materials, maintenance and equipment. The various manufacturing concerns with which we have been able to make connections, havefurnished material to the extent of $\$ 1401.41$.

The outstanding feature of the year is the work of rehabilitation in connection with wounded and disabled servicemen of the World War, under the direction of the Federal Board for Vocational Education. In order to undertake this work properly, the Federal Board has loaned the school $\$ 25,000$ worth of new machinery, so that we now have a fairly complete machine shop accommodating 40 men in machine shop practice. In the woodworking shop 8 service men are being trained.

This work of rehabilitation will probably take three years to complete. Many of these men have had very little education and in their poor physical condition it requires very much more effort, time and patience to train them for a livelihood. The instructors are to be commended for their interest in this exacting work as it involves additional labor, time and thought.

This department is operated for twelve months in the year, from January to December. At the end of the training. period the school will co-operate with the Federal Board to place these men in profitable employment.

Altogether, since April 75 men have been tried out and trained for actual work.

A new drawing room has been equipped for these men and is also used at times by the regular pupils. As far as possible the men and the boys are separatel.

The present departments of the school are fairly completein regard to room, but several new departments, especially a department of printing, should be provided so that the school may render a larger service to industry and thereby provide: the pupils with added opportunities for service in industry.

> Respectfully yours,

Harry L. Jones.
December 31, 1920.

## BOYS' VOCATIONAL SCHOOL. SOMERVILLE, MASS.

Financial Statement, 1919-1920.

| Gross Maintenance | \$24,480 51 |  |
| :---: | :---: | :---: |
| Gross Per Capita |  | \$290 05 |
| Tuition, State Aid Smith-Hughes' Fund and Cash from product, etc. | 6,044 64 |  |
| Net Maintenance | 18,435 87 |  |
| Net Per Capita |  | \$218 42 |
| Net Maintenance Cost to City | \$9,217 93 |  |
| Net Per Capita Cost to City |  | \$109 21 |
| Difference between Cash Received and |  |  |
| Value of Products made for City De- |  |  |
| partment and Up-Keep and Addition- |  |  |
| al Equipment for School | \$1,704 94 |  |
| Net Cost to City | \$7,512 99 |  |
| Net Cost per Capita |  | \$89 01 |

## REPORT OF THE GARDEN SUPERVISOR FOR 1920.

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

Dear Sir:
Herewith I submit my report as garden supervisor for the season of 1920 . The conducting of supervised school gardens as a healthful and useful form of education for city boys and girls is a comparatively new idea. About ten years ago it was advocated and encouraged by the United States Departments of Education and Agriculture jointly. The different State Departments of Education immediately took up the idea and the City of Somerville was one of the first to put this form of activity into practical operation. During the late world war school garden activities received great impetus. Contrary to the belief of many, interest in this work did not cease with the signing of the Armistice, and last year supervised school gardens were conducted in a great many cities and towns in this immediate vicinity.

The general appearance of the Somerville school gardens, and the results obtained by the 365 boys and girls who successfully carried on this project last summer, are positive proof
of the real interest in school gardens. The work in Somer-ville was conducted along about the same lines as have been in successful operation the past three years. All of the areas, with one exception, were used again this year for school garden purposes. The land was put in proper condition and fertilized by the city and the children paid for the seeds and plants used in their individual plots, the cost to them this year being 90 cents. All seeds and plants were furnished by the garden supervisor and all planting and the care of the gardens was under his personal supervision. Early in the year those who were to have garden plots were organized into clubs. Meetings were held and instruction given by the supervisor in the methods to be pursued during the garden season. Seventeen schools were represented in garden work this year. The number of children from each school, the location of their gardens, and the size of the area cultivated are given on a schedule appended to this report. The keeping of a school garden record book is made part of their garden work. A complete and summarized report book turned in by each one of the school gardeners is on file at the Superintendent's office: in itself a positive proof of the real interest of the boys and girls. of the City of Somerville to carry to a successful finish an undertaking of this kind. By the use of this record book, arithmetic, spelling, and bookkeeping are correlated with garden work. A careful summary of these record books has been made and is appended to this report. It shows the total amount of the different vegetables raised, and their retail market value. The sum total aggregates $\$ 8214.45$. This fine record of results was made during a season which was not a particularly favorable one for the raising of crops from the standpoint of weather conditions. During the planting season it was exceedingly cold and wet, which necessitated the re-planting of several of the garden areas, and later on, during mid-summer, the continued dry spell necessitated frequent watering in order to save the crops.

This year exhibits were made by the children of their products at the New England States Fair at Worcester early in September, and also at the Middlesex Agricultural Fair held at Waltham. The first prize was captured by the school gardeners of this city at both places, this in competition with a score or more of other cities and towns.

## Seeds.

At the request of several principals and teachers the garden supervisor obtained a supply of flower and vegetable seeds put up in small packages from a reliable seed concern, which.
were sold to school children at cost. In this way good, reliable seeds of the varieties best adapted to conditions found here in Somerville, were placed in the hands of the school children. About 12,000 packages of seeds were disposed of this season, and from the reports received good results were obtained, and it is planned to continue this practice each year.

## Canning Clubs.

Canning clubs were organized and conducted through the two summer months by five clubs, with a total enrollment of 56 children. Two teachers were employed two days a week to supervise and carry on this work. What has been said in regard to the interest in school gardens is also very true of this form of work for boys and girls. Even with the inadequate paraphernalia and places for carrying on this work at our disposal, good results have been obtained each year. I would like to see more equipment and help provided so that more boys and girls might benefit from this form of activity another year. Most of the children belonging to the canning clubs have a school garden so that the regetables canned are freshly picked and of good quality, which insures a canned product of the best. An exhibition was held at the Cutler School in October, where each member exhibited five jars of his canned products. They were judged by a representative sent by the State Board of Education, and an average percent of 91 was obtained by the five clubs and a banner awarded to them for their good work. In both the garden work and canning activities help and assistance were rendered by the officers and staff of the Middlesex County Farm Bureau and State Department of Agriculture.

## Winter Instruction.

During the winter term I have been giving classroom instruction to boys and girls in the fifth and sixth grades along simple lines of properly preparing the soil and planting gardens, and it is hoped that the coming season will find the gardens more productive, and their general appearance an improvement over anything accomplished in the past.

In addition to my work with the school gardens help and assistance were given to any and all persons, juvenile or adult, who carried on backyard or vacant lot gardens during the season of 1920 , children alone having about 2500 such plots under cultivation in the City of Somerville. Many of them produced regetables enough to furnish the home table during the entire garden season. The use of some cold frames at the City Farm
was given by that Department and children from the Cutler and Western Junior High Schools raised in these frames about 2500 cabbage plants, and 1000 tomato plants which were used in the school gardens. I wish it were possible to have cold frames in the school yards of several of our school buildings where vegetables, plants and flowers might be started by the children and transplanted to their garden plots later in the season.

In closing, permit me to express my appreciation to all those who have shown an interest and have been a help in this branch of school work. It is only through the co-operation of principals and teachers that this work can be carried on successfully.

Very truly yours,
William B. Moore.
Jannary, 1921.

SCHOOL GARDEN DATA, SEASON 1920

Location
Adrian Street
Prospect Hill
Glen Street
Broadway
Central Hill
Highland Avenue
Central Hill
School
Craigie Street
Lowell Street
Powder House
Powder House
Tufts Oval
City Farm

| School | No. Children | Area |  |
| :--- | :---: | :---: | :---: |
| Knapp | 30 | 1 | Acres |

## Season 1920.

## Individual Plots

| Kind | Retail Mkt. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Amt. from | Total | Value | Total |
|  | each plot | Amount | per unit | Amount |
| Radishes | 30 bunches | 9,600 | . 08 | \$768 00 |
| String Beans | 8 qts. | 2,560 | . 12 | 30720 |
| Shell Beans | 7 qts. | 2,240 | . 15 | 33600 |
| Dried Beans | $21 / 2 \mathrm{qts}$. | 800 | . 20 | 16000 |
| Table Beets | 200 | 64,000 | . 025 | 1,600 00 |
| Table Carrots | 100 | 32,000 | . 02 | 64000 |
| Swiss Chard | 4 pks. | 1,280 | . 35 | 44800 |
| Summer Squash | 20 | 6,400 | . 15 | 96000 |
| Ripe Tomatoes | 3 pks. | 960 | . 85 | 81200 |
| Green Tomatoes | $11 / 2 \mathrm{pks}$. | 480 | . 50 | 24000 |
| Beet Greens | 1 pk . | 320 | . 35 | 11200 |
| Cabbage | 7 heads | 2,240 | . 15 | 33600 |
| Lettuce | 16 heads | 5,120 | . 10 | 51200 |
| Parsnips | 75 | 24,000 | . 02 | 48000 |

$\$ 7,711 \quad 20$
Community Plots


|  | Canning Club Values. |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Value | Total |  |
| No. Participating | Average No. of Jars | per jar | Value |  |
| 56 | 32 | .40 | $\$ 716 \quad 80$ |  |

71680
$\$ 8,93125$

Value in money of garden and canning projects
December 1, 1920.
Comparison of Garden and Canning values to Cost of Undertaking.

## Value of Crops.

| Value of vegetables sold | \$1,630 45 |
| :---: | :---: |
| Value of vegetables used at |  |
| home (Fresh) | 5,868 50 |
| (Canned) | 71550 |
| Total Value of Garden Crops | \$8,214 45, |

## Value of Canned Products

1792 Jars @ 40c. . . 71680

Total Values

## Cost of Garden Undertaking.

Salaries

| Supervision |
| :--- |
| High School Boy as helper |


| $@$ |
| :--- | :--- | :--- | :--- |
| $\$ 3.00$ |

$l$
Instruction
Salary of Agricultural
Teacher . . . .

Cost of preparing land for Garden Use
Plowing
Teaming . . . . 9450
Fertilizer . . . . 7500
Labor. Helper on team @ $\$ 4.00$. . . . 5900

1,24939

1,02475

37863
Miscellaneous disbursements
Us.e of Auto . . . 23533
Express . . . . 1140
Painting signs . . . 1400
Sundries . . . . 1170
27243

## Cost of Canning Operations

:2 Teachers @ $\$ 3.00$ each per
day .
Total Cost to City
$\$ 3,018 \quad 80$
Actual money profit from undertaking
$\$ 5,91245$

## STATEMENT SHOWING THE NUMBER OF HIGH SCHOOL PUPILS, bY SUBJECTS, DECEMBER, 1920.

English ..... 1676
Elocution ..... 663
History ..... 827
Algebra ..... 353
Geometry ..... 469
Trigonometry ..... 35
Latin ..... 375
French ..... 879
Spanish ..... 330 ..... 330
German ..... 22 ..... 22
Greek ..... 17
Chemistry ..... 437
Physics ..... 120
Physiology ..... 16
Biology ..... 42 ..... 42
Astronomy and Geology
Astronomy and Geology ..... 16 ..... 16
Stenography ..... 660
Typewriting ..... 695 ..... 310
Bookkeeping
Bookkeeping
Penmanship ..... 74シ ..... 74シ
Commerce and Industry ..... 336 ..... 336 ..... 10 ?
Business Practice and Salesmanship
Business Practice and Salesmanship ..... 40

Business Arithmetic

Business Arithmetic ..... 177 ..... 177
Manual Training
Manual Training
Mechanical Drawing ..... 388
Free Hand Drawing ..... 107
Cobking ..... 54
Sewing ..... 128
Textiles ..... 10 ..... 10
Dietetics ..... 10
Commercial Law ..... 21
Arts and Crafts ..... 19
Millinery ..... 13
Household Science ..... 10
Printing ..... 10
SOMERVILLE TEACHERS' ASSOCIATION.1920-1921.
President, William W. Obearf Mrs. Bertha M. MortonZ Arthur L. Doe
Secretary-Treasurer Ilene C. RitchieExecutive Committee
Charles S. Clark, ex-officio.

Ella W. Bowker, High Ida M. Record, E. Junior Raymond E. Shepherd, S. Junior Marcella M. Garrick, W. Junior Grace M. Driscoll, N. Junior Charles A. Kirkpatrick, Boys' Voc. Mary H. Brown, Household Arts Elizabeth L. Marvin, Prescott Florence M. Shaw, Hanscom Alice M. Hayes, Bennett Margaret M. Breen, Baxter Mary G. McCarthy, Knapp L. Gertrude Allen, Perry Fannie L. Gwynne, Cummings Eleanor E. Waldron, Pope

Alice W. Cunningham, Edgerly Ida M. Kane, Glines
Carrie T. Lincoln, Forster Lillian F. Commins, Bingham Eva S. Bent, Carr Agnes C. Rice, Morse Grace E. Packard, Durell Margaret Beattie, Burns Edith L. Hunnewell, Proctor Maude E. Abbott, Brown Catherine A. Burden, Highland Maude C. Valentine, Lowe Lillian M. Wentworth, Lincoln Ruth L. Whitehouse, Spec. Teachers

The meetings held under the auspices of this association in the year 1920 were as follows:
April 21 - Reading by Mrs. Elizabeth Pooler Rice. Subject: "The Two Virtues."
December 8 - Lecture by John Clair Minot. Subject: "Unfamiliar Phases of the Pilgrim Story."

## SOMERVILLE TEACHERS' CLUB.

Officers, 1920-1921

President, Annie C. Woodward.
Vice-Presidents, $\quad$ Clara G. Hegan
Recording Secretary, Clara B. Sackett
Corresponding Secretary, Gladys L. Swallow
Treasurer, Mary G. McCarthy
Auditor, Alice A. Todd

## Object.

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

## Program.

January 21 - Address by Mrs. Claude Gilson of Boston. Subject: "The New Citizen and Her Education."
February 17 - Symphony Concert, assisted by Mrs. Grace Bonner Williams.
March 24 - Address by Frank P. Speare, President of Northeastern College. Subject: "The Teaching Profession, its Present and Future Status." Following the lecture Mr. Clayton L. Lent, Secretary of the State Teachers' Retirement Board, explained "The Benefits and Possibilities of the Teachers' Retirement Fund and the Proposed Legislation."
April 21 - Joint meeting with the Teachers' Association.
October 19 - Address by Hugh S. Magill, Field Secretary of the National Education Association. Subject: "A National Program in Education." Address by Dr. Albert E. Winship, Editor of the Journal of Education. Subject: "Educational Problems."
November 9 - Lecture by Chief Strongheart. Subject: "From Peace Pipe to Trail." A special invitation was extended to the Camp Fire Girls, Girl Scouts and Boy Scouts.
November 17 - First of a series of Concerts. "The Cotters' Saturday Night."
December 15 - Christmas Party. Solos, games, carol singing and gifts, followed by refreshments and dancing.

## SOMERVILLE HIGH SCHOOL ATHLETIC ASSOCIATION.

## Report of Treasurer.



TREASURER'S REPORT APRIL 15 to JANUARY 1, 1921.

| Receipts |  |  |
| :---: | :---: | :---: |
| Balance on hand Apr. 15, 1920 |  | \$454 70 |
| Baseball games |  | 2,044 19 |
| Football games |  | 5,941 28 |
| Membership dues |  | 21500 |
| Interest on bank deposits |  | 537 |
| Miscellaneous | . $\cdot$ | 5750 |
| Expenditures |  |  |
| Athletic supplies | - - | 2,261 02 |
| Medical attendance and supplies | . . | 24511 |
| Paid to visiting teams . | . . | 2,216 98 |
| Police. |  | 58950 |
| Officials | . ${ }^{\text {. }}$ | 35200 |
| Assistance at games |  | 13650 |
| Telephone | - ${ }^{\text {- }}$ | 1135 |
| Postage | - | 571 |
| Printing - | - $\cdot$ | 17841 |
| Carfares and transportation of | players | 17710 |
| Coaching . | . - | 56000 |
| Treasurer's salary |  | 30000 |
| Dues - Suburban and Mass. Leagues |  |  |
| Special expenses | - | 25650 |
| Miscellaneous expenses | - . | 5684 |

$$
\$ 7,354 \quad 02
$$

$\$ 1,36402$

George E. Pearson,

STATEMENT OF WORK OF SĊHOOL DENTAL DISPENSÁRY.


# CONTENTS OF APPENDIX. 

## SUMMARY OF STATISTICS.

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

## MISCELLANEOUS TABLES.

## CONCERNING FINANCE.

No. of Table.

1. Schedule of school property.
2. Cost of maintaining schools, school year 1919-1920.
3. Cost per capita of maintaining schools, school year 1919-1920.
4. Cost of maintaining schools for a series of years.
5. Cost per capita for maintaining schools for a series of years.
6. Amount spent annually for new school buildings and for repairs for a series of years.

## CONCERNING PUPILS.

7. Population and school registration.
8. Attendance, etc., of the schools for school year 1919-1920.
9. Statistics of the high school for school year 1919-1920.
10. Pupils by grades, June, 1920.
11. Separate statistics for high, junior high, elementary and vocational schools, for school year 1919-1920.
12. Admissions to first grade in September.
13. Number of junior high school graduates, 1920.
14. Truant statistics for a series of years.
15. Evening school statistics, 1919-1920.
16. Grammar school promotees for a series of years.
17. Attendance statistics of all schools for a series of years.
18. Statistics of the high school for a series of years.
19. Promotions, junior high schools, 1920.

19A Promotions, elementary schools, 1920.

## CONCERNING TEACHERS.

20. Resignations of teachers, 1920.
21. Teachers elected in 1920.
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, 1920.
26. High and Junior High school graduation exercises, 1920.
27. Vocational school graduation exercises, 1920.
28. Organization of school board for 1921.
29. Teachers in service January, 1921.
30. Officers in service January, 1921.
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
Population, United States census, 1920 ..... 93,033
Children between five and sixteen years of age, April, 1920, by school census ..... 1.5,704
2.-SCHOOL BUILDINGS.
Number of school buildings in June ..... 30
Number of classrooms in use in June ..... 382
Valuation of school property ..... $\$ 2,271,700$
3.-TEACHERS.

|  | *1919 | *1920 | Change |
| :---: | :---: | :---: | :---: |
| In high schools | 69 | 68 | -1 |
| In junior high schools. | 106 | 113 | +7 |
| In elementary schools | 206 | 209 | +3 |
| In kindergartens | 8 | 8 | 0 |
| Total in elementary schouls | 214 | 217 | $+3$ |
| Vocational school for boys | 6 | 7 | +1 |
| Vocational school for girls | 6 | 2 | -4 |
| Atypical classes | 3 | 3 | 0 |
| Cadet teachers | 2 | 3 | +1 |
| Special | 11 | 10 | -1 |
| Total | 417 | - 423 | +6 |

4.-ATTENDANCE FOR YEAR.

| $* 1919$ | $* 1920$ | Change |
| ---: | ---: | ---: |
| 14,039 | 14,091 | +52 |
| 12,733 | 12,836 | +103 |
| 11,609 | 11,807 | +198 |
| 91.2 | 91.9 | +0.7 |
| 310 | 241 | -69 |
| 596 | 705 | +109 |

## 5.-COST OF SCHOOL MAINTENANCE. <br> *1919 *1920

Salaries of teachers
Salaries of officers
Cost of books and supplies
Cost of light
Cost of janitors' services
Cost of fuel
Rent of Armory
Total cost of day and evening schools
Per capita cost
Cost of high school instruction
Per capita cost
$\$ 426,58731$
11,142 89
33,225 26
8,820 72
55,709 67
22,959 73
88250
559,328 08
4393
$87,11201 \quad 111,78491+24,67290$

[^4]6.-MISCELLANEOUS,

|  | *1919 | *1920 | Change |
| :---: | :---: | :---: | :---: |
| Paid for new school buildings |  |  |  |
| Repairs and permanent improvements $\qquad$ | 20,491 59 | 44,285 91 | 23,794 32. |
| Total school expenditures.. | 683,886 47 | 802,164 75 | +118,278 28 . |
| Number of dollars spent to maintain schools out of every $\$ 1,000$ of valua- |  |  |  |
| tion ................................. | 643 | 903 | +260 |
| Valuation of city ..... | $87,353,42400$ | 83,910,855 60 | $-3,442,56840$ r |
| Number of dollars spent for all school purposes out of every $\$ 1,000$ of valua- |  |  |  |
| tion ................................. | 782 | 956 | +174 |

[^5]
## Cost of the Schools.

The total amount spent for the maintenance of the schools: of Somerville for the school year ending June 30, 1920, is $\$ 757,678.84$.

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

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

| The amount paid for jani | ors is |  |  | - | - | \$56,381 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The cost of fuel is | . . |  |  | . |  | 37,083 |  |
| The cost of light is | . $\cdot$ |  |  | - |  | 10,091 | 82 |
| Rental of Armory | - . |  |  | - |  | 750 | 09 |
| A total cost of | . - |  |  | - |  | \$104,306 |  |
| The cost per capita |  |  |  |  |  | 8 | 13: |
| Cost of repairs |  |  |  |  |  | \$44,285 |  |

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:-



```
Southern Junior High .
Vestern Junior High ..
l
M
I
```

$\begin{array}{r}\cdots \cdots \\ \hline \$ 647,33921\end{array}$

| Specia <br> 1,664 <br> 688 <br> 691 <br> 679 <br> 200 <br> 496 <br> 421 <br> 505 <br> 895 <br> 173 953 <br> 801 <br> 223 852 <br> 702 <br> 442 368 18 <br> 173 <br> 326 <br> 558 <br> 1,083 <br> 943 173 <br> 280 <br> .... <br> .... <br> .... <br> ..... <br> .... |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

teachers


Administration
$\ldots .$.

## ItURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1920.


Southern Junior High Southern Junior High
Northern Junior High Northern Junior High

Evening, Vocationa
Evening, Practical Arts
..... Americanization
Continuation
Administration
Miscellaneous


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

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

|  |  | Day Schools. |  | Evening Schools. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Expenditures. | Total. | High and Vocational | Elementary | High and Vocational | Elementary |
| Supervisors | \$8,706.50 | \$3,005.00 | \$5,701.50 |  |  |
| Principals. Teachers | $\begin{array}{r} 43,227.25 \\ 546,656.05 \end{array}$ | $\begin{array}{r} 12,185.33 \\ 162,443.75 \end{array}$ | $\begin{array}{r} 29,299.92 \\ 376,506.80 \end{array}$ | $\begin{array}{r} \$ 842.00 \\ 5,287.50 \end{array}$ | $\begin{array}{r} \$ 900.00 \\ 2,418.00 \end{array}$ |
| Total. | \$598,589.80 | \$177,634.08 | \$411,508.22 | \$6,129.50 | \$3,318.00 |

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, 1920, is as follows:-

| Care | \$104,306 10 |
| :---: | :---: |
| Contingent | 54,782 94 |
| Salaries | 598,589 80 |
| Total for school maintenance | \$757,678 84 |
| Paid for repairs .............................. | 44,285 91 |
| Paid for new buildings | 20000 |
| Total for all school purposes | \$802,164 75 |

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

|  | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Janitors' salaries | \$0.074 | \$0.077 | \$0.076 | \$0.079 | \$0.097 | \$0.074 |
| Heat and light | 0.054 | 0.059 | 0.066 | 0.081 | 0.057 | 0.063 |
| Administration | 0.017 | 0.017 | 0.018 | 0.017 | 0.017 | 0.020 |
| School supplies | 0.067 | 0.058 | 0.062 | 0.064 | 0.067 | 0.053 |
| Teachers' salaries | 0.788 | 0.789 | 0.778 | 0.759 | 0.762 | 0.790 |
| 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 1919 AND 1920.


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


An examination of these tables shows that we have paid $\$ 20.45$ more for the instruction of each pupil in the Bigh School than in 1919, and $\$ 3.30$ more per pupil for supplies.

The grammar and primary schools have cost $\$ 10.64$ more per pupil for instruction, and thirty-five cents more for supplies.

The amount spent for the school year 1920 was $\$ 9.03$, or $\$ 2.60$ more than was spent in 1919. The amount yielded for each child in the average membership of the schools for 1920 , not including the vocational schools, was $\$ 54.59$.

## Teachers' Salaries.

The salaries paid to teachers in January, 1921, are as follows:

| 1 man | \$4,100 | 2 | men, 4 women | \$1,700 |
| :---: | :---: | :---: | :---: | :---: |
| 1 man | 3,500 | 21 | women | 1,650 |
| 4 men | 3,100 | 18 | women | 1,600 |
| 6 men, 1 woman | 3,000 | 1 | woman | 1,575 |
| 2 men | 2,900 | 1 | man, 7 women | 1,550 |
| 3 men | 2,700 | 2 | men, 193 women | 1,500 |
| 1 woman | 2,600 | 19 | women | 1,450 |
| 3 men | 2,500 | 27 | women | 1,400 |
| 1 man, 1 woman | 2,400 | 15 | women | 1,350 |
| 4 men | 2,300 | 23 | women | 1,300 |
| 6 men | 2,200 | 2 | women | 1,250 |
| 6 men | 2,100 | 2 | women | 1,200 |
| 4 men, 2 women | 2,000 | 2 | women | 1,100 |
| 8 men, 6 women | 1,900 | 1 | man, (part time) |  |
| 2 men, 1 woman | 1,800 |  | man | 1,050 |
| 5 women | 1,750 | 10 | women | 1,000 |

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

## SIGHT AND HEARING.

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

| Eyes. |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 1920 | 1919 | Change |
| Tested | 12,242 | 11,840 | $402+$ |
| Defective | 1,658 | 1,516 | $142+$ |
| Per cent. defective. | 13.5\% | 12.8\% | 0.7\% + |
| Notices sent to parents | 1,070 | 1,084 |  |
| Professionally treated | 225 | 202 |  |

## Ears.

|  | 1920 | 1919 | Change |
| :---: | :---: | :---: | :---: |
| Tested | 13,346 | 12,681 | 665 + |
| Defective | 195 | 219 | 24 - |
| Per cent. defective | 1.5\% | 1.72 \% | $0.22 \%$ - |
| Notices sent to parents | 139 | 149 |  |
| Professionally treated ... | 36 | 27 |  |

Table 1. - Schoolhouses, January, 1921.

| Name | †No. of Classrooms |  | Size of Lot, including Space Occupied by Building |  |  |  | Valuation, including Furniture |  | Enlargements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High (West.... <br> School \} East. | 74 | 1,786 | * | Brick | Steam | Fan |  | 1895 | 8 rooms added 1906 |
| Prescott | 13 | 7 |  | Brick | Steam | Fan |  | 1871 | 30 rooms added 1913 |
| Southworth $\}$ | 11 | 356 |  | Brick | Steam | Fan |  | 1867 |  |
| Knapp ......... | 13 | $5 \cdot 26$ | 24,517 | Brick | Steam | Gravity | 58,500 | 1889 | 4 rooms added 1894 |
| Pope | 12 | 578 | 27,236 | Brick | Steam | Gravity | 88,600 | 1891 |  |
| Bell. | 24 | 797 | 29,860 | Brick | Steam | Fan | 147,000 | 1874 | 13 rooms added 1918 |
| Edgerly | 12 | 573 | 24,000 | Brick | Steam | Gravity | 48,000 | 1871 | $\left\{\begin{array}{l}4 \text { rooms added } 1882 \\ 4 \text { rooms added } 1892\end{array}\right.$ |
| Glines | 14 | 628 | 28,800 | Brick | Steam | Gravity | 101,400 | 1891 | 5 rooms added 1896 |
| Forster $\}$ | 13 | 576 | 30,632 | Brick | Steam | Gravity | 112,000 | $1866$ |  |
| Folsom $\}$ | 13 | 293 |  |  |  | Gravity |  | 1899 |  |
| Bingham | 16 | 773 | 35,586 | Brick | Steam | Gravity | 82,000 | 1886 | $\left\{\begin{array}{l}4 \text { rooms added } 1894 \\ 8 \text { rooms added } 1904\end{array}\right.$ |
| Carr | 17 | 745 | 20,450 | Brick | Steam | Gravity | 63,100 | 1898 |  |
| Morse | 12 | 473 | 29,000 | Brick | Furnace | Furnace | 59,000 | 1869 | 6 rooms added 1890 |
| Highland | 12 | 524 | 23,260 | Brick | Steam | Gravity | 71,600 | 1880 | 4 rooms added 1891 |
| Carried forward | 256 | 9,115 | $\ldots$ | ...... | ... | ......... | \$1,396,400 | ......... |  |

[^6]Table 1. - (Concluded).-Schoolhouses, January, 1921.

| Name | No. of Classrooms |  | Size of Lot, including Space Occupied by Building |  |  |  | Valuation, including Furniture |  | Enlargements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Brought forward | 256 | 9,115 |  |  |  |  | \$1,396,400 |  |  |
| Hodgkins | 14 | 568 | 35,034 | Brick | Steam | Gravity | 103,700 | 1896 |  |
| Western.. | 17 | 577 |  | Brick | Steam | Fan | 84,000 | 1917 |  |
| Cutler | 18 | 783 | 53,729 | Brick | Steam | Fan | 108,700 | 1912 | 6 rooms added 1915 |
| Bennett | 12 | 436 | 21,964 | Brick | Steam | Gravity | 58,000 | 1902 |  |
| Hanscom | 10 | 487 | 16,767 | Brick | Steam | Fan | 70,500 | 1897 | 4 rooms added 1907 |
| Brown | 10 | 487 | 26,733 | Brick | Steam | Gravity | 80,600 | 1901 | 4 rooms added 1907 |
| Proctor | 9 | 343 |  | Brick | Steam | Gravity | 44,000 | 1905 |  |
| Burns . | 8 | 387 | 16,080 | Brick | Steam | Gravity | 47,000 | 1886 | 4 rooms added 1899 |
| Lowe. | 8 | 386 | 21,650 | Brick | Steam | Gravity | 53,000 | 1903 |  |
| Baxter | 6 | 290 | 11,000 | Brick | Steam | Gravity | - 40,700 | 1901 |  |
| Perry , ............... | 6 | 298 | 46,080 | Brick | Steam | Gravity | 48,500 | 1899 |  |
| $\ddagger$ Girls' Vocational ..................... |  |  | 8,850 | Wood | Furnace | Furnace | 5,000 | 1911 |  |
| Boys' Vocational $\left\{\begin{array}{l}\text { Davis 4 } \\ \text { Machine Shop 2 } \\ \text { Automobile Shop2 }\end{array}\right.$ | 8 | $51)$ | 30,155 | Wrood | Furnace | Furnace | 71,000 | 1884 | $\left\{\begin{array}{c} \text { Machine shop added } 1917 \\ \text { Automobile shop added } \\ 1918 \end{array}\right.$ |
| Cummings ............................. | 4 | 196 | 11,300 | Wood | Furnace | Furnace | 16,900 | 1884 |  |
| Durell..... | 4 | 190 | 13,883 | Brick | Steam | Gravity | 22,900 | 1894 |  |
| Lincoln ........................................ | 4 | 175 | 17,662 | Wood | Steam | Gravity | 20,800 | 1885 |  |
| Total | 394 | 14,768 |  |  |  |  | \$2,271,700 | ........ |  |

## Table 2. - Cost of Maintaining Schools.

FOR SCHOOL YEAR 1919-20.

| Schoois. | From School Appropriation. |  | Spent by City GOVERNMENT. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Instruction and Supervision. | Supplies. | Care. | Total |
| High | \$113,510.78 | \$13,231.58 | \$19,763.99 | \$146,506.35 |
| Eastern Jr | 32,004.64 | 1,502.72 | 4,236.58 | 37,743.94 |
| Southern Jr. | 41,942.64 | 2,751.11 | 5,114.93 | 49,808.68 |
| Northern Jr. | 37,889.21 | 2,031.09 | 4,231.39 | 44,151.69 |
| Western Jr | 51,720.73 | 2,830.61 | 6,988.93 | 61,540.27 |
| Prescott | 6,754.70 | 312.80 | 1,607.33 | 8,674.83 |
| Hanscom | 17,228.99 | 810.57 | 2,593.30 | 20,632.86 |
| Bennett | 18,093.40 | 891.09 | ,2,720.39 | 21,704.88 |
| Baxter | 10,280.86 | 293.42 | 1,960.97 | 12,535.25 |
| Knapp | 11,653.53 | 634.42 | 2,837.34 | 15,125.29 |
| Perry | 9,371.11 | 414.05 | 1,960.97 | 11,746.13 |
| Pope | 17,758.52 | 936.40 | 2,921.95 | 21,616.87 |
| Cummings | 6,073.18 | 209.79 | 1,607.32 | 7,890.29 |
| Edgerly | 18,148.06 | 816.90 | 2,921.95 | 21,886.91 |
| Glines. | 22,082.94 | 796.69 | 3,225.60 | 26,105.23 |
| Forster | 5,957.70 | 354.81 | 1,841.19 | 8,153.70 |
| Bingham | 21,657.72 | 879.09 | 3,567.82 | 26,104.63 |
| Carr ..... | 20,987.30 | 1,125.65 | 3,856.09 | 25,969.04 |
| Morse | 14, 597.73 | 759.98 | 2,946.94 | 18,304.65 |
| Proctor | 10,723.39 | 445.57 | 2,416.46 | 13,585. 42 |
| Durell | 6,052.75 | 187.68 | 1,607.32 | 7,847.75 |
| Burns | 12,215.42 | 427.06 | 2,289.64 | 14,932.12 |
| Brown. | 15,291.77 | 670.39 | 2,593.30 | 18,555.46 |
| Highland | 15,844.91 | 1,175.03 | 2,334.18 | 19,35+.12 |
| Cutler | 25,230.26 | 1,567.71 | 4,932.93 | 31,730.90 |
| Lincoln | 5,962.64 | 346.82 | 1,607.32 | 7,916.78 |
| Lowe... | 12,367.83 | 506.99 | 2,289.64 | 15,164.46 |
| Atypical.......... | 3,969.75 | 112.13 | 695.96 | 4,777.84 |
| Boys' Vocationa | 13,548.29 | 2,400.67 | 2,640.07 | 18,589.03 |
| Girls' Vocational | 4,477.13 | 106.87 | $1,697,75$ | $6,281.75$ |
| Evening | 9,896.18 | 548.99 | 2,296.55 | 12,741.72 |
| Total | \$613,294.06 | \$40,078.68 | \$104,306.10 | \$757,678.84 |

Table 3. - Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1919-20.

| Schoors. | $\begin{aligned} & \text { Instruction } \\ & \text { and } \\ & \text { Supervision. } \end{aligned}$ | Supplies. | Care. | Total. |
| :---: | :---: | :---: | :---: | :---: |
| High | \$73.04 | \$8.51 | \$12.72 | \$94.27 |
| Eastern Jr. | 63.88 | 3.00 | 8.46 | 75.34 |
| Southern Jr | 54.12 | 3.55 | 6.60 | 64.27 |
| Northern Jr. | 59.76 | 3.20 | 6.67 | 69.63 |
| Western Jr. | 54.16 | 2.96 | 7.32 | 64.44 |
| Prescott | 30.70 | 1.42 | 7.31 | 39.43 |
| Hanscom | 32.38 | 1.52 | 4.87 | 38.77 |
| Bennett. | 40.48 | 1.99 | 6.09 | 48.56 |
| Baxter. | 48.04 | 1.37 | 9.16 | 58.57 |
| Knapp. | 36.65 | 2.00 | 8.92 | 47.57 |
| Perry ... | 39.54 | 1.75 | 8.27 | 49.56 |
| Pope | 34.68 | 1.83 | 5.71 | 42.22 |
| Cummings | 38.19 | 1.32 | 10.11 | 49.62 |
| Edgerly .. | 35.58 | 1.60 | 5.72 | 42.90 |
| Glines . | 35.22 | 1.27 | 5.14 | 41.63 |
| Forster.. | 34.24 | 2.04 | 10.58 | 46.86 |
| Bingham | 38.13 | 1.55 | 6.28 | 45.96 |
| Carr...... | 33.37 | 1.7!) | 6.13 | 41.29 |
| Morse | 35.78 | 1.86 | 7.22 | 44.86 |
| Proctor | 35.27 | 1.47 | 7.95 | 44.69 |
| Durell | 44.18 | 1.37 | 11.73 | 57.28 |
| Burns | 37.36 | 1.31 | 7.00 | 45.67 |
| Brown | 39.21 | 1.72 | 6.65 | 47.58 |
| Highland | 40.01 | 2.97 | 5.89 | 48.87 |
| Cutler .... | 35.14 | 2.18 | 6.87 | 44.19 |
| Lincoln | 42.29 | 2.46 | 11.40 | 56.15 |
| Lowe | 38.32 | 1.57 | $\cdot 7.09$ | 46.98 |
| Atypical | 92.32 | 2.61 | 16.19 | 111.12 |
| Evening ......... | 14.70 | . 82 | 3.41 | 18.93 |
| Elementary ............... | 36.99 | 1.76 | 6.88 | 45.63 |
| All schools (without vocational) | 44.34 | 2.80 | 7.45 | 54.59 |
| Boys' Vocational ....... | 205.28 | 36.37 | 40.00 | 281.65 |
| Girls' Vocational ......... | 263.35 | 6.28 | 99.86 | 369.49 |

## 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 A ppropriation. |  | Sum Spent under Direction of City Government. |  |  |  | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Instruction and Supervision. | School Supplies. | Light. | Heating. | Janitors. | School Telephones |  |
| 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 $\dagger$ |
| 1914 | 12,320 | 338,587 | 26,843 | 6,448 | 18,952 | 33,711 | 624 | 425,165 |
| 1915 | 12,903 | 357,581 | 29,389 | 5,755 | 18,366 | 32,674 | 213 | 443,978 |
| 1916 | 13,191 | 363,948 | 26,098 | 6,233 | 20,197 | 34,667 |  | 451,143 |
| 1917 | 12,770 | 376, 138 | 29,221 | 5,429 | 25,487 | 35,718 |  | 471,993 |
| 1918 | 12,656 | 410,589 | 33,587 | 6,966 | 35,839 | 42,063 | 18 | 529,062 |
| 1919 | 12,733 | 437,730 | 33,225 | 8,821 | 22,960 | 55,710 |  | *559,328 |
| 1920 | 12,836 | 613,294 | 40,079 | 10,092 | 37,083 | 56,381 |  | *757,679 |

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

* Includes $\$ 882.50$, rent of Armory
750.00 ,

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 | Jảnitors, Heat and Light. | Total. | Assessors' <br> Valuation of City. | Ratio of Cost of School Main tenance to Valuation Valuation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1912 | \$23 61 | \$2 12 | \$3 99 | \$29 72 | \$69,632,540 | \$ . 00556 |
| 1913 | 2454 | 191 | 418 | 3063 | 71,848,811 | . 00559 |
| 1914 | 2455 | 189 | 427 | 3071 | 74,887,800 | . 00568 |
| 1915 | 2490 | 203 | 392 | 3085 | 77,153,500 | . 00575 |
| 1916 | 2625 | 188 | 441 | 3254 | 79,304,329 | . 00569 |
| 1917 | 2672 | 205 | 461 | 3338 | 78,921,472 | . 00595 |
| 1918 | 2958 | 240 | 609 | 3807 | 84,639,280 | . 00625 |
| 1919 | 3182 | 245 | 643 | 4070 | 87,353;424 | . 00643 |
| 1920 | 4434 | 280 | 745 | 5459 | 83,910,855 | . 00903 |

Table 6. - Amount Spent Annually for all School Purposes.
FOR A SERIES OF YEARS.

| Year. | For New <br> Schoolhouses. | For Repairs and <br> Permanent <br> Improvements. | For Maintaining | Amount Spent <br> Schools. |
| :---: | :---: | :---: | :---: | :---: |
| 1912 | $\$ 35,527$ | $\$ 14,163$ | $\$ 389,431$ | for all <br> School Purposes |
| 1913 | 34,866 | 19,341 | 402,092 | 439,121 |
| 1914 | 120,913 | 19,700 | 425,165 | 456,299 |
| 1915 | 9,745 | 28,212 | 443,978 | 465,778 |
| 1916 | 81,184 | 21,634 | 451,143 | 481,935 |
| 1917 | 94,420 | 27,283 | 471,993 | 553,961 |
| 1918 | 100,177 | 30,126 | 529,062 | 593,696 |
| 1919 | 104,067 | 20,492 | 559,328 | 659,365 |
| 1920 | 200 | 44,286 | 757,679 | 683,887 |
|  |  |  |  | 802,165 |

For years prior to 1912 see School Report of 1917.

TABLE 7.-POPULATION AND SCHOOL CENSUS.
For School Year 1919-1920.


## School Census.

Number of children between 5 and 15 years of age, inclusive, April 1, 1920 . 15,704

## School Registration.

Number of children between 5 and 15 years of age, inclusive,
April 1, 1920:-
In public schools . . . . . . . . 11,738
In private schools 2,849

Total
14,587
Number of compulsory school age, 7 to 13, inclusive:-


Table 8. - Attendance of the Public Schools for the School Year 1919-1920

|  | Schools. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| *71 | High | 1714 | 1554 | 1437 | 92.5 | 1639 | 1485 |
| 20 | Eastern Jr. High | 535 | 501 | 457 | 91.2 | 506 | 471 |
|  | Southern Jr. High | 842 | 775 | 712 | 91.8 | 806 | 728 |
| 22 | Northern Jr. High | 702 | 634 | 581 | 91.6 | 661 | 604 |
| 31 | Western Jr. High | 1038 | 955 | 898 | 94.0 | 992 | 912 |
|  | Prescott | 211 | 220 | 196 | 89.0 | 192 | 217 |
| 10 | Hanscom | 625 | 532 | 476 | 89.5 | 571 | 516 |
| 10 | Bennett. | 500 | 447 | 408 | 91.3 | 449 | 454 |
| 6 | Baxter | 252 | 214 | 195 | 91.1 | 212 | 222 |
| 8 | Knapp | 374 | 318 | 299 | 94.0 | 320 | 334 |
|  | Perry | 255 | 237 | 219 | 92.4 | 245 | 232 |
| 12 | Pope. | 562 | 512 | 473 | 92.4 | 527 | 496 |
|  | Cummings | 184 | 159 | 145 | 92.5 | 162 | 158 |
| 12 | Edgerly | 562 | 510 | 468 | 91.8 | 522 | 494 |
| 14 | Glines | 634 | 627 | 573 | 91.4 | 613 | 634 |
| 4 | Forster | 197 | 174 | 158 | 90.8 | 182 | 168 |
| 15 | Bingham | 635 | 568 | 524 | 92.3 | 565 | 577 |
|  | Carr | 678 | 629 | 581 | -92.4 | 647 | 620 |
| 10 | Morse | 435 | 408 | 378 | 92.6 | 410 | 408 |
|  | Proctor | 330 | 304 | 278 | 91.4 | 304 | 307 |
|  | Durell | 151 | 137 | 125 | 91.2 | 138 | 144 |
|  | Burns | 356 | 327 | 298 | 91.1 | 344 | 310 |
| 10 | Brown | 425 | 390 | 359 | 92.1 | 402 | 373 |
| 11 | Highland | 423 | 396 | 370 | 93.4 | 392 | 390 |
| 18 | Cutler | 798 | 718 | 662 | 92.2 | 745 | 682 |
|  | Lincoln | 159 | 141 | 129 | 91.5 | 153 | 141 |
|  | Lowe | 354 | 323 | 292 | 90.4 | 332 | 318 |
|  | Atypical | 48 | 43 | 38 | 88.4 | 44 | 44 |
|  | Boys' Vocational | 91 | 66 | 62 | 94.0 | 75 | 58 |
| 3 | Girls' Vocational | 21 | 17 | 16 | 94.1 | 19 | 13 |
| 382 | Total | 14,091 | 12,836 | 11,807 | 91.9 | 13,169 | 12,510 |
| 388 | Total for 1918-19... | 14,039 | 12,733 | 11,609 | 91.2 | 12,997 | 12,397 |

*Includes all rooms used for school exercises.

Table 9. - Statistics of High School for School Year September 10, 1919
to June 25, 1920.


Table 10. - Pupils by Grades, June, 1920.


Table 11. - Pupils in High, Junior High, Elementary and Vocational
Schools, 1919-1920.

|  | $\begin{aligned} & \text { 我 } \\ & \text { 荡 } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Annual enrollment | 1,714 | 3117 | 8,873 | 227 | 91 | 21 | 48 | 14,091 |
| Average membership | 1,554 | 2865 | 8,089 | 202 | 66 | 17 | 43 | 12,836 |
| Average attendance .............. | 1,437 | 2648 | 7,426 | 180 | 62 | 16 | 38 | 11,807 |
| Per cent. of attendance.. | 92.5 | 92.4 | 91.8 | 89.1 | 94.0 | 94.1 | 88.4 | 91.9 |
| Number cases of tardiness .... | 5,135 | 1595 | 4,886 |  | 12 |  |  | 11,628 |
| Number cases of dismissal ... | 527 | 918 | 2,116 |  | 21 | 12 |  | 3,594 |
| Membership, October, 1919..... | 1,639 | 2965 | 8,224 | 203 | 75 | 19 | 44 | 13,169 |
| Membership, June, 1920 .......... | 1,485 | 2715 | 8,002 | 193 | 58 | 13 | 44 | 12,510 |
| No. cases corp. punishment..... |  | 5 | 90 |  |  |  |  | 95 |

Table 12. - Number of Pupils Admitted to Grade 1 In September.


Table 13. - Eighth Grade Promotions - Junior High Schools - June, 1920.

Promotion from the eight grade to the ninth grade in the Junior High School corresponds to the promotion from the last grade of a grammar school to the High School.

| School |  |  |  |
| :---: | :---: | :---: | :---: |
| Eastern Junior High School.. Southern Junior High School. Northern Junior High School Western Junior High School . | $\begin{aligned} & 137 \\ & 233 \\ & 215 \\ & 351 \end{aligned}$ | $\begin{aligned} & 134 \\ & 228 \\ & 204 \\ & 331 \end{aligned}$ | $\begin{aligned} & 125 \\ & 215 \\ & 204 \\ & 336 \end{aligned}$ |
| Total ... | 936 | 897 | 880 |

Table 13A. - Ninth Grade Promotions - Junior High Schools - June,. 1920.

Promotion from the ninth grade to the tenth is the promotion from the Junior High School to the Senior High School. The tenth grade corresponds to the second year of a four year High School.

| School |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Eastern Junior High. | 113 | 101 | 101 | 93 |
| Southern " | 209 | 200 | 200 | 157 |
| Northern | 169 | 164 | 160 | 148 |
| Western | 251 | 240 | 239 | 226 |
| Total ...................... | 742 | 705 | 700 | 624 |

Table 14. - Comparative Statistics of the Attendance Department for the School Year 1919-1920.

|  | 1919 | 1920 | Change |
| :---: | :---: | :---: | :---: |
| Number of visits to the schools | 571 | 651 | +80 |
| Number of visits to the homes | 1,463 | 1,345 | -118 |
| Number of cases investigated | 1,550 | 1,473 | -77 |
| Number of cases found to be trua cy or absenteeism | 425 | 482 | +57 |
| Number of different pupils who wer truants or habitual absentees | 329 | 379 | $+50$ |
| Number who were truants for th first time | 260 | 302 | $+42$ |
| Number who were truants for the second time . | 48 | 55 | +7 |
| Number who were truants for thre or more times | 17 | 20 | +3 |
| Number of girls who were truants o absentees | 78 | 63 | -15 |
| Number of cases of parental neglec of children found and reported to charitable institutions | 4 | 3 | -1 |
| Number of cases of removal of chil dren from the custody of parents by order of the court | 2 | 2 | -0 |
| Number of visits to mercantile o manufacturing establishments | 56 | 36 | -20 |
| Number of minors found to be work ing without employment certifi cates | 70 | 37 | -33 |
| Number of employment certificates issued to boys | 544 | 736 | +192 |
| Number of employment certificates reissued to boys | 364 | 673 | +309 |
| Number of employment certificates issued to girls | 502 | 553 | +51 |
| Number of employment certificates reissued to girls | 487 | 507 | +20 |
| Number of educational literate cer tificates issued to minors over 16 years of age (first issue) | 1,262 | 1,297 | +35 |
| Number of newspaper licenses issued to boys 12 to 16 years of age . | 108 | 74 | -34 |
| Number of transfer cards investi gated | 1,333 | 1,200 | -133 |
| Number of truants in the County Training school at the close of the year | 22 |  | -4 |
| Amount paid for board of truants |  | \$1,071.42 | +\$221.29 |

Table 14. - (Concluded). - Comparative Statistics of the Attendance
For the School Year 1919-1920.
Disposition of truancy and habitual absentee cases:-
Warned and returned to school . . . . . 290
Transferred to other schools . . . . . 7
Obtained certificates (14 to 16 years) . . . . 28
Left school (over 16 years) . . . . . . 5
Removed from city . . . . . . 25
Brought before court and returned to school . . 9
Brought before court and sent to Training School . . 8
Parents brought before court for keeping children out of
school (convicted) . . . . . . .
Sent to Lyman School . . . . . . 3
Given in charge of State Board of Charity . . . 4

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

| Grades. | BY AgES. |  |  |  |  |  |  |  |  |  |  | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | $\begin{aligned} & \overline{16} \text { or } \\ & \text { Over } \end{aligned}$ |  |
| II | 2 | 15 | 3 | 1 |  |  |  |  |  |  |  | 21 |
| II |  | 6 | 11 | 7 | 1 |  |  | ... |  |  |  | 22 |
| III. |  |  | 9 | 7 | 7 | 1 |  |  |  | 1 |  | 25 |
| IV. |  |  | 3 | 3 | 14 | 9 | 5 |  | 3 |  |  | 37 |
| V |  |  |  |  | 2 | 17 | 11 | 4 | 7 |  |  | 41 |
| VI. |  |  | ..... |  |  | 3 | 14 | 20 | 8 |  |  | 45 |
| VII. |  | ..... | ..... |  | ..... | 3 | 8 | 25 | 18 | 2 | 1 | 57 |
| VIII |  |  | ... |  | ..... |  |  | 15 | 15 | 5 | 2 | 37 |
| LX |  | .... | ... | .... | ..... |  |  | 2 | 11 | 8 | 4 |  |
| X |  | .... |  | ..... | ..... | ..... |  |  | 3 | 4 | 29 | 37 |
| NI. |  |  |  |  | .... |  |  |  |  |  | 12 | 14 |
| XII. |  |  |  |  |  |  |  |  |  |  | 8 | 8 |
| Boys' Voc'l |  |  | ... |  | ... |  |  |  | 2 | 1 |  | 3 |
| Girls' Voc'l |  | ... |  |  |  |  |  |  | 1 |  |  |  |
| Ungraded.. |  |  |  | 1 |  | 1 | 1 | 2 | 1 |  |  | 6 |
| Total. | 2 | 21 | 26 | 16 | 24 | 34 | 39 | 69 | 69 | 23 | 56 | 379 |

Table 15. - Attendance in Elementary Evening Schools from October. 1919, to June, 1920.

| - |  | Bell. | Highland. | Total. |
| :---: | :---: | :---: | :---: | :---: |
| Enrolled | Male Female | $\begin{array}{r} 171 \\ 85 \end{array}$ | $\begin{aligned} & 72 \\ & 24 \end{aligned}$ | $\begin{aligned} & 243 \\ & 109 \end{aligned}$ |
|  | Total | 256 | 96 | 352 |
| Ave. membership | Male Female | $\begin{aligned} & 69 \\ & 41 \end{aligned}$ | $\begin{aligned} & 44 \\ & 12 \end{aligned}$ | $\begin{array}{r} 113 \\ 53 \end{array}$ |
|  | Total | 110 | 56 | 166 |
| Ave. attendance.. | Male Female | $\begin{aligned} & 51 \\ & 30 \end{aligned}$ | $\begin{array}{r} 34 \\ 8 \end{array}$ | $\begin{aligned} & 85 \\ & 38 \end{aligned}$ |
|  | Total | 81 | 42 | 123 |
| Per cent. Att. out of No. belonging .................. <br> Per cent. Att. out of No. enrolled. |  | $\begin{gathered} 73.6 \\ 31.6 \end{gathered}$ | 75.0 43.7 | $\begin{aligned} & 74.1 \\ & 35.0 \end{aligned}$ |
| Ave. No. of teachers......... | Male Female | $1$ | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\frac{2}{9}$ |
|  | Total | 8 | 3 | 11 |
| No. of sessions ........................... |  | 76 | 76 |  |
| Teachers, cost of Janitors, fuel, supplies, and light, cost of........ |  | $\begin{array}{r} \$ 2,100.00 \\ 755.80 \end{array}$ | $\begin{array}{r} \$ 942.00 \\ 415.74 \end{array}$ | $\begin{aligned} & \$ 3,042.00 \\ & 1,171.54 \end{aligned}$ |
|  | Total | \$2,855.80 | \$1,357.74 | 84,213.54 |
| Cost per pupil per evening. Cost per evening Cost per pupil in ave. membership. <br> Cost per pupil in ave. attendance.. |  | \$0.341 | \$0.318 | \$0.334 |
|  |  | 37.58 | 17.86 | 55.44 |
|  |  | 25.96 35.26 | 24.25 32.33 | 25.38 34.26 |

Table 15. - (Concluded). - Evening High School-Season of 1919-1920.


Average attendance: October, 342; November, 275; December, 225;
January, 200; February, 152; March, 170.

Table 16. - Promotions from Elementary to Junior High Schools_

|  | 1919 | 1920 |
| :---: | :---: | :---: |
| Knapp. | 62 | 107 |
| Perry. | 34 | 32 |
| Pope. | 139 | 127 |
| Edgerly. | 136 | 171 |
| Glines. | 88 | 83 |
| Forster. | 35 | 81 |
| Bingham. | 66 | 66 |
| Carr. | 106 | 96 |
| Morse. | 46 | 61 |
| Proctor. | 44 | 59 |
| Brown. | 43 | 70 |
| Highland. | 143 | 178 |
| Cutler. | 126 | 120 |
| Total. | 1068 | 1201 |
| Average Membership of Elementary Schools. | 8345 | 8334 |
| Per cent. of Average Membership Promoted | 12.79 | 14.41 |

Table 17. - Attendance Statistics.

FOR A SERIES OF YEARS.

| JUNE | I <br> EnRoLlment | Average <br> Membership | Average <br> Attendance | Per cent. of <br> Attendance | Number of <br> Tardi- <br> nesses | Ratio of <br> Tardiness <br> to Average <br> Attendance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1912 | 13,272 | 11,710 | 11,083 | 94.6 | 6,307 | 0.569 |
| 1913 | 13,491 | 11,903 | 11,216 | 94.2 | 7,354 | 0.655 |
| 1914 | 13,932 | 12,320 | 11,610 | 94.2 | 7,380 | 0.635 |
| 1915 | 14,505 | 12,903 | 12,189 | 94.5 | 8,000 | 0.656 |
| 1916 | 14,647 | 13,191 | 12,323 | 93.4 | 9,373 | 0.761 |
| 1917 | 13,967 | 12,770 | 11,933 | 93.7 | 7,325 | 0.613 |
| 1918 | 14,256 | 12,656 | 11,798 | 93.2 | 8,970 | 0.760 |
| 1919 | 14,039 | 12,733 | 11,609 | 91.2 | 9,744 | 0.839 |
| 1920 | 14,091 | 12,836 | 11,807 | 91.9 | 11,628 | 0.993 |

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

FOR A SERIES OF'YEARS.

| Year. | Average <br> Membership <br> all Schools. | Largest <br> Number in <br> High School. | Per cent. of <br> Average <br> Membership <br> of all <br> Schools. | Number of <br> Graduates of <br> High School. | Per cent. of. <br> Average <br> Membershipi <br> of all <br> Schools. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1912 | 11,710 | 2,023 | 17.28 | 296 |  |
| 1913 | 11,903 | 2,081 | 17.48 | 2.53 |  |
| 1914 | 11,610 | 2,111 | 18.18 | 296 | 2.48 |
| 1915 | 12,903 | 2,258 | 17.50 | 273 | 2.35 |
| 1916 | 13,191 | 2,288 | 17.35 | 311 | 2.41 |
| 1917 | 12,770 | 1,973 | 15.45 | 348 | 2.64 |
| 1918 | 12,656 | 1,520 | 12.01 | 340 | 2.66 |
| 1919 | 12,733 | 1,854 | 14.56 | 332 | 2.62 |
| 1920 | 12,836 | 1,714 | 13.35 | 310 | 2.43 |
|  |  |  |  | 241 | 1.87 |

For years prior to 1912 see School Report of 1917.

Table 19. - Promotions for School Year Ending June 25, 1920. Junior High Schools.

| Grade. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | 1082 | 910 | 117 | 54 | 1 | 1 |
| II | 936 | 806 | 91 | 39 |  |  |
| III | 743 | 660 | 44 | 39 |  |  |
| Total.. | 2761 | 2376 | 252 | 132 | 1 | 1 |

Percentage of Promotions for School Year Ending June 25, 1920. Junior High Schools.

| Grade. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | 100 | 84.1 | 10.8 | 5.4 | 0.1 | 0.1 |
| II | 100 | 86.1 | 9.7 | 4.2 |  |  |
| III | 100 | 88.8 | 5.9 | 5.3 |  |  |
| Average ... | 100 | 86.1 | 9.1 | 4.7 | 0.1 | 0.1 |

Table 19-A. - Promotions for School Year Ending June 25, 1920. Grammar Grades.

| Grade. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | 1,492 | 1,149 | 92 | 242 | 9 | 6 | 1 |
| II | 1,346 | 1,135 | 94 | 108 | 9 | 8 | 3 |
| III | 1,358 | 1,144 | 128 | 74 | 12 |  |  |
| IV | 1,322 | 1,087 | 146 | 79 | 10 | 2 | 2 |
| V | 1,293 | 1,030 | 160 | 97 | 6 | 8 | 9 |
| VI | 1,292 | 1,102 | 99 | 88 | 3 | 12 | 5 |
| Total. | 8,103 | 6,647 | 719 | 688 | 49 | 36 | 20 |

Percentage of Promotions for School Year Ending June 25, 1920.

| Grade. |  |  |  | 烒 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | 100 | 77.0 | 6.2 | 16.2 | 0.6 | 0.4 | 0.1 |
| II | 100 | 84.3 | 7.0 | 8.0 | 0.7 | 0.6 | 0.2 |
| III | 100 | 84.3 | 9.4 | 5.4 | 0.9 |  |  |
| IV | 100 | 82.2 | 11.0 | 6.0 | 0.8 | 0.2 | . 02 |
| V | 100 | 79.6 | 12.4 | 7.5 | 0.5 | 0.6 | . 07 |
| VI | 100 | 85.3 | 7.7 | 6.8 | 0.2 | 0.9 | . 04 |
| Average.. | 100 | 82.0 | 8.9 | 8.5 | 0.6 | 0.4 | 0.2 |

TABLE 20. - RESIGNATIONS OF TEACHERS, 1920

| School | Teacher | Resignation Took effect | In Service |
| :---: | :---: | :---: | :---: |
| High | Lester W. Dearborn Elizabeth H. Hunt Guy C. Blodgett Julia T. Connor Elise Brecker | March, 1920 | 5 years, 4 months |
|  |  | June 30, 1920 | 12 years |
|  |  | June 30, 1920 | 9 years, 7 months |
|  |  | June 30, 1920 | 9 years, 5 months |
|  |  | Elected July 16, 1920 | Did not accept position |
| Eastern Junior High | Ellen H. Coughlan | March 5, 1920 | 3 years, 5 months |
| Southern Junior High | Esther L. Small | April 16, 1920 | 5 years, 7 months |
|  | Katherine E. Read | June 30, 1920 | 2 years |
| " " " | Clarisse L. Tirrell | June 30, 1920 | 2 years |
| Northern Junior High | Jane H Perkins | June 30, 1920 | 1 year |
| Glines | Leslie Caverly | June 30, 1920 | 12 years |
|  | Edith M. Dow | June 30, 1920 | 5 years, 8 months |
| Proctor | Abbie A. Gurney | June 30, 1920 | 32 years |
| Cutler | Georgie B. Collins | October 28, 1920 | 4 years, 4 months |
|  | Mary L. Ennis | June 30, 1920 | 5 years |
| (1) ...................... | Inez M. Rodgers | June 30, 1920 | 5 years |
| Cadet$\qquad$ Aos't Sup't of Schools | Enna Bella Weisman | Elected July 16, 1920 | Did not accept position |
|  | Joseph A. Ewart | November 1, 1920 | 7 years, 8 months |

TABLE 21. - TEACHERS ELECTED IN 1920.

| School | T'eacher | Coming From | Salary | Service Began |
| :---: | :---: | :---: | :---: | :---: |
| High | Forrest S. Miller | Boston | \$1,900 | March 8, 1920 |
|  | Elise Brecker |  | 1,400 | Did not accept |
| -، | Gladys S. Jennison | Not teaching | 1,700 | Nov. 29, 1920 |
| " | Margery Moore | Andover | 1,300 | Sept., 1920. |
| " | Dorothy E. Harvey | Northboro | 1,400 | Sept., 1920. |
| Eastern Junior High | Amelia M. Gray | Somerville | 1,200 | Sept., 1920. |
| Southern Junior High | Carrie M. Frost | Bangor, Me. | 1,450 | June, 1920. |
|  | Edith M. Joel | Arlington | 1,400 | Sept., 1920. |
| Northern Junior High | Grace M. Driscoll | Somerville | 1,000 | Sept., 1920. |
| Western Junior High | Helen M. Pulsifer | Denver, Colo. | 1,500 | Sept., 1920. |
| " ، ، | Augusta H. Bergin | Not teaching | 1,400 | Sept., 1920. |
| Prescott | Dorothea A. Shay | Hamilton, N. J. | 1,000 | Sept., 1920. |
|  | Grace E. Allen | Somerville | 1,000 | Sept., 1920. |
| Hanscom | Ethel H. Werner | Somerville | 1,100 | May, 1920. |
| Pope | Eleanor E. Waldron | Somerville | 1,000 | May, 1920. |
| Glines | Elizabeth C. Sullivan | Somerville | 1,000 | Sept., 1920. |
| " .. | Laura M. Flynn | Somerville | 1,000 | Sept., 1920. |
| Bingham | Alice E. Griffiths | Newton | 1,400 | Sept., 1920. |
| Carr | Helen M. Mason | Boston | 1,300 | Sept., 1920. |
| Proctor | Ethel F. Morang | Not teaching | 1,300 | Sept., 1920. |
| Cutler | Katie L. Harmon | Somerville | 1,400 | May, 1920. |
| " | Stella G. Buckman | Somerville | 1,000 | May, 1920. |
| ، | Nettie M. Humiston | Somerville | 1,300 | Sept., 1920. |
| " ................. | E. Mildred Milner | Danvers | 1,300 | Sept., 1920. |
| Boys' Vocational | Percy A. Brigham | Malden | 2,100 | Nov. 1, 1920. |
| Continuation | Everett W. Ireland | Boston (Wentworth Institute) | 2,500 | Sept., 1920. |
| " | Lawrence E. Landahl | Not teaching | 1,800 | Sept., 1920. |
| " | Kells S. Boland | Not teaching | 1,500 | Sept., 1920. |
| " | Estelle Crowe | Not teaching | 1,000 | Sept., 1920. |

## Table 22. - Leave of Absence of Teachers.

Katherine A. Breen, Western Junior High, from Sept. 1, 1920, to June 30, '21.
Elizabeth J. Baker, Hanscom, from Sept. 1, 1920, to Dec. 31, 1920.
Helen L. Follansbee, High, Thanksgiving Recess to June 30, 1921.
Hazel M. Yaeger, Western Junior High, from Sept. 1, 1920 to June 30, 1921.

## Cadets

Ruth E. Arrington
Eunice S. Higgins
Ethel F. Rudd
Enna Bella Weisman

Table 23. - Transfers of Teachers.

Teacher From To
Annette B. MacKnight Southern Junior High High
Minnie P. Cunningham Knapp

Alice A. Tassinari Catherine E. Giles Mary L. Gallagher Vernie T. Neily Nona E. Blackwell Maude M. Cunningham

Bennett
Northern Junior High Knapp
Girls' Vocational
Knapp
Bingham

Bennett
Knapp
Western Junior High Glines
Western Junior High Southern
Southern

Table 24. - Number of Teachers.
FOR A SERIES OF YEARS.

| Year. | High School. | $\begin{aligned} & \text { Junior } \\ & \text { High } \\ & \text { Schools. } \end{aligned}$ | Elementary Schools | Special Teachers. | Assistants not in Charge of Room. | Men. | Women | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1912 | $66 \ddagger$ |  | 252* | 22 | 9 | 40 | 309 | 349 |
| 1913 | $68+$ |  | $257^{*}$ | 28 | 12 | 39 | 326 | 365 |
| 1914 | 75 |  | 266 * | 30 | 20 | 44 | 347 | 391 |
| 1915 | $76 \ddagger$ |  | $272^{*}$ | 31 | 1.5 | 45 | 349 | 394 |
| 1916 | $77 \pm$ |  | 290* | 30 | 15 | 46 | 366 | 412 |
| 1917 | $70_{+}^{+}$ | 65 | 238* | 33 | 17 | 49 | 374 | 423 |
| 1918 | $70 \pm$ | 108 | 207* | 28 | 5 | 49 | 369 | 418 |
| 1919 | $70 \ddagger$ | 106 | $207 *$ | 26 | 9 | 48 | 370 | 418 |
| 1920 | $69 \ddagger$ | 113 | $212^{*}$ | 23 | 8 | 54 | 371 | 425 |

$\ddagger$ Including a secretary and a matron. *Including four kindergartners.

Table 25. - Books Authorized for Use, 1920
For Elementary and Junior High Schools, -
As Text Books.
The Merrill Series of Readers, C. E. Merrill Pub. Co.
As Reference Books.
Broad Stripes and Bright Stars, Carolyn Sherwin Bailey - Milton Bradley Company.

## Table 26. - HIGH SCHOOL GRADUATION.

The graduation exercises of the High School occurred Friday, June 18, 1920.

## ORDER OF EXERCISES.

HERBEERT CHOLERTON, Chairman of the School Committee, Presiding

1. OVERTURE - "Little Red Cap"

High School Orchestra, Malcolm P. Bergmann, Leader
2. PRAYER-Rev. George E. Soper, D. D.

Pastor of the Prospect Hill Congregational Church
3. SINGING - "Look Down from Heaven" (EIijah)........Mendelssohn

Graduating Class
4. ESSAY - "Life, Liberty, and the Pursuit of Happiness" W. Dorothea Crowne
5. WALTZ - "Barcarolle"

Waldteufel
Orchestra
6. ESSAY - "Education or Chaos"

William F. Kelly
7. SINGING - "Carmena"

Lane-Wilson:
Graduating Class
8. PRESENTATION OF MEMORIAL TABLET
9. ADDIRESS TO GRADUATES

Dean Henry W. Holmes, Harvard University
10. PRESENTATION OF DIPLOMAS TO GIRLS
11. SINGING - "Recognition of Land"

Grieg
Graduating Class
12. PRESENTATION OF DIPLOMAS TO BOYS
13. SINGING - "The Star Spangled Banner"
14. POSTLUDE - "Coronation March" Meyerbeer
Orchestra
Singing and orchestra under the direction of James P. Mc.Vey, Supervisor of Music in the Public Schools

# LIST OF GRADUATES 

June, 1920
*Graduated with honor

Sarah Elizabeth Abbott
Blanche Marie Amirault
Ethel Mae Armstrong
Mabelle Linsley Backus
Dorothy Phillips Baker
*Sylvia Bateman
Teresa Nancy Begley
Marie Benedetto
Fannie Berman
Albertina Bettencourt
Edith Illeone Bixby
*Marion Alice Blood
Mildred May Boggs
Grace Clayre Brenan
Eleanor Brown
Clara Louise Buker
Madeline Grace Burhart
*Mona Cecelia Burke
Myrtle Alberta Burnside
Eleanor Gilchrist Buswell
Alice Louise Callahan
Sarah Louise Cameron
Lydia May Carlz
Hester Ramona Carman
Marguerite Pauline Clements
Gussie Cohen
Loretta Jane Colbert
Caroline Mae Comey
*Agnes Elizabeth Conwell
*Anna Corliss
*Winifred Dorothea Crowne Marion Danforth
Bessie Reina David
$\dagger$ Ruth Eleanor Dawes Gladys May Deckoff
Lea Olive DeLorme
*Mildred Dorothy Dewire Dorothea Violet Dion
*Pauline Davenport Dodge
Abbie Marie Donahue
Doris Ernestine Donovan
Agnes Gray Crawford Dornan
Barbara Virginia Douglas
Mary Margaret Duffy
Ethel Leah Durning Muriel Beatrice Edwardes
Helen Goldie Elliott June Carol Evans
*Miriam Rogers Ewart Esther Mary Filadoro

Doris Elizabeth Flint
Harriette Roberts Ford
Marion Emma Foster

* Marion Garside

Anne Mae Getchell
Edna Mabel Gilmore Sadie Helen Grady Ida Sophie Graustein
Gratia Manola Grisim
Grace Langton Haley

* Alice Winifred Hamilton

Lola Genieve Hamilton
Alice Louise Hancock
Vesta Ruth Hanson
Mildred Marie Harkins
Helen Louise Harney
Emma Elizabeth Haskell
Doris Henderson
Allene Lucille Holman
Pearl Katherine Honold
Ruth Evelyn Hopson
Lillian Elizabeth Hubbard
Helen Wilder Hudson
Elva Gladys Hutchins
Ruth Gwendolyn Johnson
Florence Kavooghian
Frances Gertrude Kenney
Ethel Mae Kimball
Mildred Loretta Kodad
Elena Leighton
Lena Leveen
*Dagmar Elizabeth Lindequist
Rose Lipsez
*Edna May Ludwig
Evelyn Macgillvray
Florence MacLachlan
Marjorie Grace MacPhee
Anastasia Mary Mannion
Anita Angela M. Marchese
Irene Elizabeth Mason
Emily Hazel Mathews
Mary Mortimer McAuley
Eleanor Marie McElroy
Alice Marie McFarland
Margaret Whitney McGill
Kathryn Marie McGrath
Emilie Mary McHale
Dorothy Helen McQuinn
Dorothy Tufts Miller

Margaret Catherine Miller
Muriel Bertha Morrill
Alice Emma Morrison
Helen Mary Mulligan
Alice Irene Murphy
Fannie Myerson
Gertrude Pauline Nangle
Louise Viola Newcomb
Ruth Eleanor Newman
Victoria Newman
Lucy Elizabeth Noreau
*Lillian Grace Norris
*Helen Gilson Northrup
Gladys Josephine Nugent
Eileen Marie O'Brien
Baranson Helen Ohanian
Lena Pearl Peck
:Dorothy Perkins
*Sophie Mae Phillips
Sarah Teresa Pickering
Lillian Stacy Pierce
Velma Louise Pincus
*Ruth Platt
Helen Blaisdell Powers
Ruth Margaret Ramsay Eleanor Alice Randall Elizabeth Frances Ray Mildred Frances Reardon Dorothy Dunbar Reynolds Helen May Rice
Emily Gertrude Richards
Thelma Grace Robertson
Josephine Agnes Saunders
Mary Kathryn Shea
Frances Elizabeth Simmons
Mary Simonetti
Katherine Maitland Simpson
Elvia Arline Spaulding
Mary Ruth Stack
Helen Ames Steere
Frances Madeline Stephenson
Rose Mary Still
Dorothy Maxwell Sutherland
Esther Ruth Taylor Margaret Dorothy Taylor
Mildred Elizabeth Teakles
Berenice Louise Tedford
Louise Thornquist
Helen Constance Tooker
Ethel Palma Trimble
Charlotte Burkett Wadsworth
Violet Isabella Walker
Gertrude Alice Walsh
Nelle Kendall Wilder
=*Helen Wilson
Francis Edward Aherne
Charles Andelman
Fred Lawrence Bacigalupo

## Roland Barker

Lester George Barrett
John Thomas Beaver, Jr.
*Weston Taft Bennett
Malcolm Prentice Bergmann
*Walter Orville Blanchard
Earl Elwyn Bolton
Horace Milton Brandt
Raymond Eugene Brinig
Grant Kirk Chisholm
Hartwell Robley Congdon
Earle Ogden Cruikshank
Learned Russell Cutter
John Sylvester Delaney, Jr.
Michael Bernard Dewire
James Charles Donahue
David Donaldson
George Michael Dowd
Karl Henrick Erickson
Dwight Foster Evans
Herrick Wrightson Farren
Theodore Rufus Fisher
Lucian Curtis Foye
Adolphus Carl Gnecco
James Edward Hagan
Chester Twombly Hammond
Joseph Lee Herlihy
Henry Holsbery Holmes
*Philip LaForest Holmes
Ellsworth Samuel Irwin
Warren Sumner Johnston
Robert Joseph Keating
Thomas Andrew Kelley
*William Francis Kelly
William Harold Knox
Joseph Clarence Lane
Reginald August Langell
Frederic Billings Littlefield
Lawrence Beckley Maddison
Grahame Magee
Walter Wellington Martin
Walter Adolph Mayer
James Franklin McAloney
Edward John McCarthy
James Andrew McNamara
John Francis McSweeney
Charles Alvah Mitchell
Hobart Henry Mowers
Leo Patrick Murphy James Albert Murray
James Joseph Murray, Jr.
*Guy Hosford Northrup Thomas Joseph O'Connell
Carl Oscar Olson
John Stephen Patten
Francis Robbins Pray
Warren Leslie Prescott
John Paul Joseph Reardon

Robert Anthony Repetto Allen MacDonald Rideout
*William Henry Robinson, Jr.
James Birmingham Ryan
Alfred Bernard Rowland Shelley
Manuel John Silva
Lloyd Russell Simpson
*Leo Slafsky
Albert Daniel Sullivan
Eugene Joseph Sullivan
Timothy Joseph Sullivan
Francis Xavier Tansey
Henry Edward Tassinari

John Francis Thompson, Jr. Howard Simpson Tochtermann Edward Augusta Tosi
Miles Toulouse
Frank Herbert Townsend Thomas Henry Twigg, Jr. Walter Norman Westland Francis Bingham White, Jr. George Washington Whittier, Jr: Lawrence Irving Williams Henry Webster Youlden George Franklin Young, Jr.
$\dagger$ Deceased
Total Number of Graduates, 241. Boys, 87; Girls, 154.

Junior High School graduations occurred in the schooll buildings on June 24, 1920.

## LIST OF GRADUATES

## Eastern

Mary V. Bannon
Doris J. Barnes
Arthur J. Barry
Helena Mildred Beale
William Austin Beard
Henry R. Beecher
William Bell
Rose Eleanor A. Blanche
Charlotte E. Bonschau
William E. Bonschau
John Brennan
Harry Leslie Brown
Francis J. Buckley
John W. Burke
Helen C. Busby
Edith M. Button
Eugene F. Caldarone
Julia Mary Carney
Edith Lufkin Charlesworth
Ruth Coffey
Francis Leo Coffin
Kathryn M. Collins
Mary Cox
J. Lester Crooker

Grace Edith Crosby
Alice Louise Desmond
Mae A. Devereau
Gecrge Nelson Dix
Ida Duchin

Frank P. Fay
Helen Florence Fitzgerald
John L. Forey
Clyde George Geake
Samuel Gilman
John Goslen
Francis Harold
John Joseph Harold
Arthur Hayes
Albert Healey
Mary F: Horan
Edna Rose Howe
Isabelle Higgins Hughes
Puth Jennins
Einer William Johansen
Kathleen L. Keaney
Helen Kerner
Matthew H. Kerner
Helen Winifred Kyes
Gertrude E. Lane
Anna La Terza
A!ma Louise Lauriat
Edward Joseph Lynch
Helena MacDonald
Walter MacDonald
Artemas MacLean
Katherine A. McCarthy
Marv E. McCarthy
Certrude: M.. D. McCloudi

Fuiott M. McDermod
Duiliel J. McGeath
Maigaret F. Mccrath
Wary McMahon
Mary Catherine Meaney
Marion G. Merrit ${ }^{+}$
Marien Mottola
Albert H. Newhouse
George M. Newman
Francis S. Noyes
Alice Veronica O'Nèil Clarence Edward Overlock Leona Beatrice Perkins
Merue Caroline Perkins
Harold Porter
Charles R. Prescott
Solomon Price
Marion Rita Quinn
Paul F. Regan
Herbert Ringer
Helen Virginia Roebuck
Frank B. Rogers

Lena M. Rosetta<br>Marion Fisher Rowe<br>Beatrice A. Ruggles<br>John Ryan<br>Francis E. Shea<br>Agnes Shepherd<br>Mary G. Souza<br>Harold Stanton<br>Frederick B. Steeves<br>John Landers Stewart<br>Mary Beatrice Sullivan<br>Florence Mirriam Sullivan<br>Esther Evelyn Tamlyn<br>Henry H. Thomas<br>David Edward Wallach<br>Catherine Josephine Walsh<br>Abraham Joseph Weisman<br>John Wells<br>David Albert Wesley<br>Frederick Everett Wilson<br>Frank Wood

## Northern

Drucilla Harriet Allen
Frances I. Beckett
Carlton E. Bessey
Dorothy M. Brann
Evelyn May Breen
Robert Brine
Amelia Bell Bruce
Peter S. Caffanges
Chester Irving Carran
Throphilo Stone Carreiro
Marie Antonett Castellucci
Amelia A. Cavalieri
Jamer Hunter Chalmers
Grace Lillian Chandler
Rufus Choate
Margaret Laura Ciambelli
Mary Theresa Clement
Frank J. Clements
Charles Irving Conley
Florence Emily Cooper
William T. Corey
Edward H. Costa
Vivian Crafts
Doris E. Crosby
Raymond Cross
Fdward Melvin Croto
Charles Crowley
Walter Joseph Crowley
Arthur Stanislaus Cudmore
Frank Walker Currier
James Dangora
Ruth Low Davis

Florence Ciertrude Denney
Richard Jcseph Desmond
Joseph Henry Doll
Fred Francis Driscoll
Milton Frederick Dyke
Henry George Eimert
Esther Lorena Fisher
George Flibotte
George Titus Fogerty
Ruth Louisa Foskett
Charles Edward Fowler
Clarence W. Fraser
Margaret Frances Friel
Reginald J. Fritz
I)crothy Gallagher

Tary Cecelia Gallayher
C'larles Fiul Galli
Anna May Giacobbe
Dante Reginald Giorgetti
Anna Goduti
Verna Eulalie Goff
Miriam Eunice Gordnn
James Joseph Gormley
Issbel Sarah Guibord
Bertram I'. Gustin
Veronica Crutosky
Edward Lovell Hall
I auri iW. Hanni
C'ecil Gilbert Harries
Albert G. Harkins
Francis J. Harkins
Kuth Frances Haskins

Helena C. Havican
John Barr Hayward
Mary P. Heiser
Pauline Dudley Hobbs
Mildred Horton
Herry John Hurford
Abraham I. Jacobson
Leo J. Jennings
Fdward John Jeremiah
Christine Helen Johnson
Warren E. N. Johnson
Gladys Estella Jones
William Duncan Jordan
Rena Josie
Charles E. Keenan
John Jerome Kelliher
Frances M. Kelter
John Francis Kinneen
Leroy Charles Klinger
Flances Elizabeth Knibbs
Edward Kennamon Kyte
Mary Agnes Linehan
Eleanor MacGovern
Donald MacNeil
John Francis Maguire
Arthur Attwood Mahonev Margaret Mary Mahoney
Mary H. Mahoney
William F. Mahoney
licrguerite J. Mansfield
Katherine Louise Marmand
Gerald Mculton Marston
Helen Margaret Martigastte
E. Rees Martine

Edward Matthew
Francis Henry McCall
Mary Elizabeth McCartizy
Livelyn Mary McClusky
Frances M. McColgan
Mary Louise McGill
Wallace Joseph McGrath
Margaret Mary McGuigan
Bessie Margaret McManus
Margaret Mary McSweeney
Nildred Gertrude Merriam
Margaret Elizabeth Miller
Carol Hester Millett
Charles Leo Mooney
Richard F. Mooney
Katherine Agnes Mornane

Helen Anna Morse
Thelmá Alice Moss
Hugh P. Muligan
Situra Phyiis isumford
Jinh Joseph Murphy, Ji.
Joseph G. ixurphy
Futh Elizabeth Nangle
Cathleen Helen O'Brien
Jalia O'Connor
Eetelia Elizabeth O'Nail
$\therefore$ rthur E. Peterson
Katrina Louisa Porter
James Siephen Rancarore
Marian Eva Rancatore
CAlia Delora Richardson
Johr A. Roma
E'llen Frances Ronan
John B. Russell
NilGred Russo
A. Luc:ill: Savage

Lawrence J. Savage
Gladys The: dora Scnulz
Pli:icmena Seretto
Horace Woodruff Sexton, Jr..
Marion Alberta Shea
Irene Antoinette Simard
A. Raymond Spaulding

Flurence A. Stack
liertrude Mable Stack
Elizabeth Gertrude Stewart.
Saul Tomashevsky
Norma Gene Trefry
Yronne Diana Tremblav
Hester Day Waldron
Viartha Marion Wegat
Albert James Welch
Alma B. Wells
Lawrence Francis Welsh
Reginald Hall Wentworth
Richard George Whiting
Helen Whitney
Muriel Lewetta Williams
Theresa Frances Williams.
Walter E. Williams
Charles Edward Wilson
Ezella Catherine Wilson
Paul T. Wilson
Helen $\dot{\mathrm{M}}$. Wright
Earle W. Young

## Southern

Ethel May Adams
Theresa Marie Albani
Daniel Edwin Anderson
Margaret M. Aylward
Florence Mabel Baird
Thomas L. Baker
Agostina Mary Balboni
Lillian Barberi
Martha Irene Barrish
Anna Baruffaldi
John W. Bates
Leo C. Begley
Arthur Ernest Benge
Angelo P. Bertocci
Philip James Beyer
Rose Blaustein
Mary Teresa Bloomer
Frances Gertrude Blute
Carl W. Bockstrom
Leslie J. Bradley
Margaret Dorothy Brady
Oliver Joseph Brazeau
Hilda Bridgens
Eileen V. Bridges
Florence Irma Burns
Lillian Louise Burry
John Joseph Callahan, Jr.
William J. Campbell
Elizabeth Pauline Canniff
Joseph A. Capodanno
Albert John Capone
Joseph John Cardillo
Margaret Florence Carney
Annie I. Carrigan
Josephine Catherine Carrigan
Emily Carterino
Warren Albert Caswell
George Catanzano
Walter Roger Caty
Stuart W. Chapman
Alfred John Clark
Annie M Cleaves
James Aloysius Cloran
Oscar Norman Codding
Nathaniel A. Colbert
Frances Conneilly
Arthur E. Connor
Ralph William Crocker
Elmer Keith Crosby
Margaret Mary Cronin
William A. Curtin
Dorothy Mae Dean
Woobury Curtis Dean
Helen May DeRosear
Lilian M. Dole
Robert Charles Donovan

Helen Elizabeth Douglass
Beatrice E. Everett
Charles V. Falls
Helen Elizabeth Fenton
Leo Ferrarini
Albert F. Ferretti
Albert Leo Fitzgerald
Robert B. Fitzgerald
Josephine C. Flanagan
William F. Flynn
John T. Ford
Armida Eleanor Formichelli
Mary Beatrice Fortunati
Kathryn Frances Gallagher
Elvira Asunta Garibotto
Joseph C. Gaudet
Martha W. Gissler
Robert Glover, Jr.
Evelyn Loretta Góldburgh
Harry Goldenberg
Theresa Gromes
Eugene Alphonsus Gormley
William A. Graustein
C. Prescott Greenleaf

Anna Mildred Guilderson
Robert S. Harrington
Francis J. Haley
Catherine Blanche Hancock
Emma Fedora Hancock
Charles Dudley Harrington
Fayette Haskell
Daniel Parker Hatch
Theodore Haviland
Katherine McLeod Henderson
Israel Hershkovitz
Eugene S. Holton
Cleon Edson Hopkins
Francis Elmer Kavanaugh
John Joseph Keenan
Ellen Christina Kelleher
Isabella Madeline Keppe
Kathryn Anne King
Edward Augustine Kirke
Mabel Marie La Rose
Francis Lavash
Dorothy Winifred Lawson
Rose Louise Lazzaro
Ellen Agnes Leahy
Thomas Vincent Leahy
Carl A. Leavis
Margaret Mary Lee
Mabel Irene Lewis
Fay Bertha Lipkind
Francelina Florence Lima
Miriam Lipsez
Rita Moore Logan

Helen B. Lucas
A. Warren Lynch

Edward Barry Lynch
Ruth A. Lynch
John A. MacIntyre
John D. MacKeown
Aubrey B. MacMahan
Mary T. Mahony
Mildred Frances Manning
Hilda Mary Martell
James J. Martin
Bertha Mason
Thomas F. McAllister
Mabel Violet McAuliffe
Elizabeth Claire McCarthy
M. Agnes McGrath

William D. McIntire
Robert J. McKay
Earl Putnam McKim
William Joseph McMahon
Frank Meletti
Mary Emma Mercer
James M. Mifflin
Raymond E. Mills
Alice Moore
Glennis E. Mowatt
Loretta Catherine Murphy
Raymond J. Murphy
Frances Etta Murray
Hyman Needle
Mary Christine Nolan
Dorothy Obear
Grace Marion O'Brien
Harold J. O'Brien
Mary Eleanor O'Brien
Margaret E. O'Connor
Grace Gertrude Olin
John Lawrence O'Leary
Bertha May Parshley
Dorothy F. Peck
Doris Penny
Eleanor Isabel Perry
William C. Peterson Margaret Mae Pollock
Ellen Marie Prebensen
John W. Pretty

John Anthony Ramos, Jr.
Myrtle Ramsay
Walter Franklyn Robinson
Madeline M. Rowe
Ada R. Russ
Irene Francis Ryan
Myrtle A. Ryer
Marie Dorothy Sammon
Mary Seymourian
Walter Frederick Shaw
James White Shephard
Doris Louise Short
Celia Sigel
Arthur Joachim Silva
Doris Gertrude Smith
Gladys Smith
Katherine Martha Smith
Mark Frederick Smith
Mildred Sparks
Carolyn E. Strehle
Elizabeth Y. Stromme
Hazen Kimball Sturtevant
Helen Gertrude Sweeney
Umbert Timothy Taddia
Bessie Talalewsky
Alice H. Thomas
Violet Mary Thorne
Joseph Harold Tierney
Evelyn E. Timmins
Joseph M. Tobin
Henry J. Tosi
Lilly Helen Walgis
Francis Paul Walsh
Teresa Anne Walsh
Pauline S. Ward
Ralph Baxter Ward
Mary Alice Watts
Ida May Weinstein
George Foster Whitcomb
Catherine Rita White
Mary Louise Wiggins
Fred E. Wilson
Mary Wisewell
Margaret Anna Yelinek
Olga E. Yelinek
Marion Selig Zwicker

## Western

Audrey Bancroft
Rita Elizabeth Baron
Emmáa F. Bates
Dorothy Isabel Baxter
Henry George Bedighian
Blanche W. Bell
Claribel L. Benjamin
Theodore Roosevelt Bernson

Edmund John Berry
J. Nelson Berry

Marjorie Frances Birtwell
Maude E. Black
Henry Allen Blackman
Harold F. Bloom
Bertha K. Bockman
James W. Boggs
Grace Dorothy Boss
M. Genevieve Bowser

Edna Mae Briggs
Clifford R. Brooks
Charles Edward Brown
Hugh L. Brown
Welton M. Burgess
Catherine M. Burke
Ives A. Busnel
Albert Henry Buswell
Robert Norman Butterfield, Jr.
Murdena A. Campbell
Benjamin D. Carey, Jr.
Charles Clinton Carey
Edith Elizabeth Carlson
Robert E. Carmichael
Blanche C. Carpentier
Lenora M. Chandler
Norman A. Chapman
Marion V. Chebook
Doris Cheyne
Charles Arthur Clapp
Leslie J. Clark
John Clarke
Catherine Edith Coaker
Anna L. Colbert
Sarah Elisabeth Colby
Clifford Douglass Cole
Inez Alice Comstock
Frank P. Connor
Cullum Coulson
Doris N. Cross
Harold L. Cruikshank Paul Cruwys
Warren L. Dalton, Jr.
Winifred A. Damon
Geraldine Goodwin Davis
Norman H. Dawes
Leslie C. Densmore
Everett Bond Dewar
Loretta M. Dionne
Kathleen E Donohue
Alice C. Donovan
D. Bailey Donovan

Leon P. Donovan
Nora T. Donovan
Norma Elizabeth Duerner
William B. Dunne
Clarence A. Durling
Eunice Edwards
Arthur F. Eldridge

Arnold G. H. Engborg
Amelia English
Pearl M. Fairweather
Dorothea Farnsworth
Irene Marie Felt
Grace Figved
Robert F. Fisher
David E. Flett
Aunie Imilda Flynn
Mary Agnes Ford
Homans Stearns Foster
Joseph Raymond Foster
Marie M. Fuches
John Stanley Fudge
Paul Hildreth Fuller
David E. Gallant
Edna Glendon
Hilda M. Goldstrass
Carleton C. Goodspeed
Alice E. Goudie
Leslie Douglas Gould
Charles B. Grady
Alma Pauline Graves
Jobn J. Haley, Jr.
George Albro Hall
Donald S. Hamilton
Mary Caroline Hankwitz
Alice Grace Hardin
Alice I. Hardy
Iawrence E. Harris
Louis M. Hathaway
Evelyn Alice Hatton
John H. Hill
Isathleen R. Hill
Mary Ioretta Hoar
.Tchir Albert Holmes, Jr.
Dorcthy M. Holyoke
Lucy Gladys Howard
Laura Florence Hughes
Louise G. Hunt
Edward Hurley
Herbert Francis Hurley
Viola Catherine Jellison
Margaret Norma Jodice
Aram Johnian
Ruth Ellen Johnson
Helen Johnston
Edna F. Jordan
Edwin F. Jordan
John W. Kaup, Jr.
Helen F. Keeley
Marion Elizabeth Keith
Albert Lovejoy Kelley
Dorothy Irene Kerr
Ruth King
Reginald G. Lacount
Armand La France
Florine M. Lang
Raiph L. Lawson

Blanche L. LeSueur
Myer Levinson
Dorothy Levy
Rollo Sewell Lewis
Dorothy May Linfield
Beatrice Alta Lord
Audrey Louise Lundy
Doris Lydiard
Charles F. Lynch
Mary Isabel MacDonald
Leonard MacGovern
Wilhelmina MacIver
Kenneth Alexander MacLeod
Margaret Anna Isabel MacNeil
Annie Margaret MacSween
Frederick C. Matheson
Lester A. Matheson
James E. McGuinness
Richard Hoyt Merrill
Leon Miller
Calvin Chambers Mills
Edmund Lombard Mitchell
Eva Mitrano
Helen Louise Monte
Eleanor A. Moore
Halsey Bryant Moore
Winifred Louise Moses
Barbara Muller
Elizabeth L. Murphy
Edward Joseph Murray
Ronald Naugler
Ebba Irene Nelson
Roy Nelson
Nellie Elma Newton
Ripley E. Nickerson
Joan Henny Nielsen
Dudley Andrew Noyes
Vincent T. O'Connor
Anna T. O'Keefe
Edna Alice Marie Olson
Edward Francis Ormond
Mildred Elizabeth Osgood
Sarah M. Paganussi
Ralph E Peterson
Charles W. Phelps
Clarence Hooper Phelps
Arthur Gordon Pratt
Evelyn Elizabeth Pratt
Isabel L. Prescott
Charles Raymond Reed
Doris D. Robinson
Bethel Elizabeth Rockwell
Walter William Rose
Tedford Harry Rourke
Charles Royal
Henry Preston Royal

Carolyn Eva Russell
Charlena Mae Russell
Mildred E. Russell
Harold H. Sahlin
Sirancosh G. Sarkisian
Zabelle G. Sarkisian
Helen M. Saunders
Alice L. Sawyer
George Earl Saxton
Mildred Wilhelmena Seckendorf
Eleanor Maude Shaw
Margaret T. Shea
Cecile Agnes Sheldon
Anthony C. Silva
Paul E. Simpson
Priscilla Creevy Simpson
Sydney G. Stahl
Alfred J. Steed
Charles L. Stevens
Charles Edward Stille
Margaret Mabel Sullivan
Frances M. Swinehamer
George Richard Tadgell
Beatrice Etta Taylor
Stanley F. Teele
Sarah P. Tennyson
Warren Smiley Thomas
Alice Elizabeth Thompson
Bernice C. Throensen
Elizabeth F. Tibbetts
Heinn Frederic Tomfohrde, Jr.
Stanley G. Tribe
Claire Macdonald Tucke
Katherine Kennett Tufts
James Ernest Urlwin
Margaret M. Vacaro
Ruth V. Van Arsdalen
Ian C. Walker
Herbert F. Wallstrom
Richard Joseph Walsh
Curtis Joseph Ware
Raymond Herbert West
Hazel Westgate
Marie J. White
Rodney E. Whittemore
Bradford C. Wier
Virginia Rosamond Wilkins
Isabel L. Winkley
Lillian Mae Wise
W. Atherton Witham

Alice R. Wood
Rose Dorothea Wood
Hazel M. Wythe
Evelyn W. Young
Fred H. Zimmerman

# Table 27. - VOCATIONAL SCHOOL GRADUATES. <br> Vocational School for Boys 

W. Bernard Brown Eugene J. Cappuccio<br>Robert W. Cochran<br>Fred J. Coffey<br>Harold Dugmore<br>Russell Percy Foster<br>Bernard J. Hanley<br>Charles Kerr<br>Walter S. Lufkin

Charles C. McAlpine<br>Leo Thomas Murray<br>John W. Reynolds<br>Edward Solomon<br>Robert Joseph Spadafora Fred Everett Starrett<br>Ralph L. Taylor<br>James Duncan Weir, Jr. Harold E. Willey

## Vocational School for Girls

Alice Ayer Hazel E. Clark Ethel Mae Longmire Ruth M. Murray

Gladys Bertha Seales
Hazel B. Steele
Barbara Truelson
Alice Wahlstrom

Table 28. - Organization of School Board, 1921.
School Committee.

| Herbert Cholerton . . . . . . . . Chairman |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Walter I. Chapman | - | - |  | Vice-Chairman |
| Members. |  |  |  |  |
| EX-OFFICIIS. |  |  |  |  |
| Charles W. Eldridge, Mayor, . . |  |  |  | 47 Highland road. |
| Richard L. Rice, President Board of Aldermen, $2961 / 2$ Broadway WARD ONE. |  |  |  |  |
| Francis J. Fitzpatrick, William T. McCarthy, |  |  |  | 76 Broadway |
|  |  |  | - | 38 Pearl street. |
|  | WARD | Two. |  |  |
| Daniel H. Bradley, <br> Christopher J. Muldoon, |  |  |  | 19 Concord avenue. |
|  | - |  |  | 88 Concord avenue. |
|  | WARD | THREE. |  |  |
| Charles W. Boyer, Oscar W. Codding, |  |  |  | . 66 Avon street. |
|  |  |  | - | . 59 Vinal avenue. |
|  | WARD | FOUR. |  |  |
| Frank M. Hawes, EDw I T Tripp |  | - | . 257 School street. |  |
|  |  |  | 21 Wigglesworth street. |  |
| Edward I. Tripp, | WARD | FIVE. |  |  |
| Harry M. Stoodley, |  |  |  | 283 Highland avenue. |
| Miss Minnte S. Turner, |  |  | . | 64 Hudson street. |
|  | WARD | SIX. |  |  |
| Walter I. CHapman,William M. Morrison, | . |  | - | 18-A Central street. |
|  |  | - . | . | 97 Rogers avenue. |
| William M. Morrison, | WARD S | SEVEN. |  |  |
| Herbert Cholerton, Paul O. Curtis, | - |  | - | 94 College avenue. |
|  |  |  |  | . 41 Mason street. |

## Superintendent of Schools <br> Charles S. Clark.

Office: City Hall Annex, Highland avenue.
Residence: 75 Munroe street.
The Superintendent's office will be, open on school days from 8 to 5 ; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

Superintendent's office force:-
Mary A. Clark, 42 Highland avenue.
Mildred A. Merrill, 26 Cambria street.
H. Madeline Kodad, 104 Sharon street, West Medford.

Marion E. Marshall, 30 Gilman street.

## Board Meetings.

January 31.
February 28. March 28.

April 25. September $26 . \quad$ December 23. May 30. October 31. December 30.

8:15 o'clock.

Table 28. - Organization of School Board, 1921. - Concluded. Standing Committees.

NOTE.-The member first named is chairman.
District I. - Fitzpatrick, McCarthy, Muldoon.
PRESCOTT, HANSCOM, BENNETT.

District II. - Bradley, Muldoon, Codding.
KNAPP, PERRY, BAXTER.
District III. - Boyer, Codding, Fitzpatrick.
POPE, CUMMINGS.

District IV. - Tripp, Hawes, Miss Turner.
EDGERLY, GLINES.

District V. - Miss Turner, Stoodley, Hawes.
FORSTER, BINGHAM.

District VI. - Chapman, Morrison, Stoodley. CARr, MORSE, PROCTOR, DURELL, BURNS, BROWN.

District VII. - Curtis, Cholerton, Morrison.
highland, cutler, lincoln, lowe.

High School. - Bradley, Hawes, Fitzpatrick, Codding, Stoodley, Morrison, Cholerton.

Finance. -Stoodley, Codding, Bradley, McCarthy, Tripp, Chapman, Cholerton, Eldridge, Rice.
Text-Books and Courses of Study. - Muldoon, Chapman, McCarthy, Boyer, Haw,es, Turner, Curtis.
Industrial Education. - Tripp, Boyer, Fitzpatrick, Muldoon, Miss Turner, Morrison, Cholerton.
School Accommodations. - Codding, Curtis, Fitzpatrick, Bradley, Tripp, Stoodley, Morrison, Eldridge, Rice.
Teachers. - Cholerton, Miss Turner, Muldoon, Codding, Chapman.
Health, Physical Training and Athletics. - Morrison, McCarthy, Muldoon, Boyer, Tripp, Stoodley, Curtis.
Rules and Regulations. - Hawes, Curtis, McCarthy.

# TABLE 29. - TEACHERS IN SERVICE, JANUARY, 1921. 

Name and Residence
HIGH SCHOOL.


TABLE 29. - Teachers in Service January, 1921. - Continued.

Name and Residence.

Julia A. Haley, Assistant, 88 Prospect Street
Mary C. Smith, Assistant, 117 Prospect Street
Gladys L. Swallow, Assistant, 15 Pleasant Avenue Alfreda Veazie, Assistant, 193 Linden Street, Everett Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury Ruth E. Low, Assistant, 58 Central Street
Ilene C. Ritchie, Assistant, 15 Willoughby Street
Margaret E. Ford, 83 Brattle Street, Cambridge
Ella W. Burnham, 40 Vinal Avenue
Mrs. Cornelia D. Pratt, 112-A Glenwood Road
Bernice O. Newborg, 12 Hale Avenue, Medford
Louise M. Saunders, 1 Waterhouse Street, Cambridge
Gertrude W. Chaffin, 4 Copeland Terrace, Malden
Mrs. Ruth L. Strand, Assistant, Central Ave,, Needham Hghts.
Ruth T. Merritt, Assistant, 102 Gainsboro Street, Boston
Doris B. Cresto, Assistant, 52 Rush Street
Elizabeth M. Welch, Asst., 3 Washington Av., Arlington Heights
Harriet M. Bell, Assistant, 42 Orchard Street, Cambridge
Dorothy E. Harvey, 204 Hemenway Street, Boston
Margery Moore, 17 Elm Street, Charlestown
Gladys S. Jennison, 40 Vinal Avenue
Matilda C. Wright, Matron, 17 Gibbens Street
*Edythe L. Miller. Librarian, 10 Sycamore Street
Mabell M. Ham, Clerk, 41 Boston Street
*Wesley A. Maynard, 18 Grand View Avenue

Began Serv-
Salary.

## ice.

\$1,500 1913
$1,600 \quad 1916$
1,500 1916
1,550 1916
$1,600 \quad 1916$
$1,400 \quad 1916$
$1,600 \quad 1913$
$1,600 \quad 1912$
$1,550 \quad 1918$
$1,550 \quad 1919$
$1,500 \quad 1918$
$1,400 \quad 1918$
$1,550 \quad 1919$
$1,500 \quad 1916$
$1,450 \quad 1919$
$1,400 \quad 1919$
$1,100 \quad 1919$
$1,500 \quad 1919$
$1,650 \quad 1904$
$1,400 \quad 1.920$
$1,300 \quad 1920$
$1,700 \quad 1920$
$1,000 \quad 1919$
$650 \quad 1919$
1,400 1906
8401918
*Part-time.

## Eastern Junior high school.

Pearl Street.

| Samuel A. Johnson, Master, 5 Gardner Terrace, Allston | \$3,100 | 1916 |
| :---: | :---: | :---: |
| Francis J. Mahoney, Vice-Principal, 16 Parker Street | 2,200 | 1919 |
| Walter W. Newcombe, Sub-Master, 138 Sycamore Street | 1.410 | 1917 |
| Elizabeth M. iVarien, 29 Summit Avenue | 1,575 | 1897 |
| Sarah H. Christie, 78 Sycamore Street | 1,500 | 191.1 |
| Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain | 1,500 | 1909 |
| Pertie l. Gray, 22 S Broadway | 1,500 | 1917 |
| Ida M. Pecord, 104 Hemenway Street, Boston | 1,500 | 1899 |
| Edith L. Laycock, 104 Hemenway Street, Boston | 1,500 | 1913 |
| Elizabeth J. Mooney, 41 Vinal Avenue | 1,500 | 1904 |
| Catherine L. Heagney, 32 Sewall Street | 1,500 | 1912 |
| Mary A. Hickey, 41 Sever Street, Charlestown | 1,350 | 1918 |
| Elma Isaac, 32 Richardson Street, Brighton | 1,300 | 1918 |
| Velma B. Strout, 36 Francesca Avenue | 1,500 | 1918 |
| Theresa Morrison, 174 Broadway | 1,500 | 1912 |
| Hazel W. Ruggles, 20 Hawthorne Street, Roxbury | 1,450 | 1918 |
| Helen B. Ryan, 35 Columbus Avenue | 1,400 | 1918 |
| Alice M. McNally, 50 Church Street, Watertown | 1,350 | 1917 |
| Mrs. Constance H. Scherer, 25 Falmouth Street, Belmont | 1,500 | 1917 |
| Kathinka Fessman, 1126 Boylston Street, Boston | 1,650 | 1912 |
| Olive E. Whittier, 78 Sycamore Street | 1,500 | 1918 |
| Mrs. Amelia M. Gray, 150 Riverside Avenue, Medford | 1,200 | 1920 |

# TABLE 29. - Teachers in Service January, 1921. - Continued. 

## Name and Residence

SOUTHERN JUNIOR HIGH SCHOOL.

| Vinal Avenue. | Salary. | Began Service. |
| :---: | :---: | :---: |
| George M. Wadsworth, Master, Whitman | '\$\$,100 | 1891 |
| Raymond E. Shepherd, Vice-Principal, 16 Grand View Avenue | 2,200 | 1919 |
| Arthur E. Gordon, Sub-Master, 116 School Street | 2,000 | 1918 |
| Melvin T. Carver, Sub-Master, 6 Loring Road, Winthrop | 1,909 | 1917 |
| Alice L. Davis, 40 Vinal Avenue | 1,650 | 1895 |
| Clara B. Sackett, 106 Summer Street | 1,500 | 1891 |
| Mrs. Blanche G. North, 25 Columbus Avenue | 1,500 | 1893 |
| Mrs. Gertrude W. Leighton, 31 Vinal Avenue | 1,500 | 1895 |
| Grace T. Merritt, 10 Charnwood Road | 1,500 | 1897 |
| Marie T. Smith-Brandt, 64 Vinal Avenue | 1,500 | 1898 |
| Lilla E. Mann, 33 Walnut Street | 1,500 | 1902 |
| Mrs. Mary B. Soule, 39 Walnut Street | 1,500 | 1902 |
| Leila L. Rand, 43 Norfolk Road, Arlington | 1,500 | 1906 |
| Rena S. Hezelton, 23 Preston Road | 1,500 | 1909 |
| Mrs. N. Theresa Hennessey, 9 Centre Street, Woburn | 1,500 | 1909 |
| Nona E. Blackwell, 45 Ibbetson Street | 1,500 | 1906 |
| Edith L. French, 52 Prescott Street | 1,500 | 1912 |
| Emma J. Kennedy, 15 Pleasant Avenue | 1,500 | 1912 |
| Maude M. Cunningham, 60 Central Street | 1,500 | 1913 |
| Carrie M. Frost, 83 Browne Street, Brookline | 1,500 | 1920 |
| Charlotte A. Holmes, 24 Cambria Street | 1,500 | 1899 |
| Ada G. Macdonald, 43 Babcock Street, Brookline | 1,500 | 1914 |
| Anna J. Coll, 65 Newton Street | 1,400 | 1916 |
| Anna E. McCully, 12 Francis Street | 1,400 | 1916 |
| Mrs. E. Marie Kelley, 69 Chadwick Street, Bradford | 1,450 | 1918 |
| F. Antoinette Pratt, 31 Vinal Avenue | 1,450 | 1918 |
| Olive M. Brownell. 62 Simpson Avenue | 1,450 | 1919 |
| Edith M. Joel, 92 Perkins Street | 1,400 | 1920 |

## NORTHERN JUNIOR HIGH SCHOOL.

## Sycamore Street and Evergreen Avenue.

| Frank W. Seabury, Master, 18 Winslow Avenue | \$3,100 | 1911 |
| :---: | :---: | :---: |
| Joseph S. Hawthorne, Vice Principal, 233 School Street | 2,200 | 1915 |
| Arthur J. Marchant, Sub-Master, 99 Glenwood Road | 2,000 | 1914 |
| Walter P $\mathrm{S}_{\text {c }}$ Sweet, 4 Teele Avenue | 1,900 | 1919 |
| Mary I. Bradish, 112 Magoun Avenue, Medford | 1,500 | 1899 |
| Emma G. Blanchard, 146 Massachusetts Avenue, Boston | 1,600 | 1902 |
| Mrs. Mina P. Bickford, 36 Emerson Street, Medford | 1,500 | 1903 |
| Mary F. Mead, 52 Pearson Road | 1,500 | 1905 |
| M. Edna Merrill, 228 Broadway | 1,500 | 1909 |
| Anna R. Walsh, 27 Avon Street | 1,450 | 1914 |
| May A. Daly, 52 Adams Street | 1,550 | 1915 |
| Dorothy A. Chapin, 11 Mystic Street | 1,450 | 1917 |
| Ruth C. Harrington, 3 Moulton Avenue, Stoneham | 1,450 | 1918 |
| Mary C. Fox, 28 Linden Street | 1,300 | 1918 |
| Florence R. Gallagher, 16 Otis Street, Medford | 1,350 | 1918 |
| May B. Thompson, 120 Peterboro Street, Boston | 1,500 | 1918 |
| Minnie A. Holden, 6 Sanborn Avenue | 1,500 | 1906 |
| Maud Rose, 53 Albion Street | 1,500 | 1919 |
| Alice M. Patterson, 108 Glenwood Road | 1,350 | 1919 |
| Mrs. Ruth Hawkins, 1673 Cambridge Street, Cambridge | 1.450 | 1919 |
| Mrs. Gladys M. Sheldon, 55 Liberty Street, Everett | 1,300 | 1919 |
| Annie G. Merrill, 33 Stuart Street, Everett | 1,350 | 1919 |
| Marie Clifford, 1648 Mass. Avenue, Cambridge | 1,500 | 1907 |
| Mary Donoghue, 80 Porter Road, Cambridge | 1,500 | 1911 |
| Grace M. Driscoll, 25 Arthur Street | 1,000 | 1920 |

TABLE 29. - Teachers in Service January, 1921. - Continued.

## WESTERN JUNIOR HIGH SCHOOL.



## TABLE 29. - Teachers in Service January, 1921. - Continued.

## Name and Residence

# VOCATIONAL SCHOOL FOR BOYS (Day). 

Davis Building, Tufts Street. Salary

Harry L. Jones, Principal, 137 Powder House Blvd. $\$ 3,300 \quad 1896$ Nehemiah E. Gillespie, 28 Worcester Sq., Boston $2,100 \quad 1911$ Charles A. Kirkpatrick, $27{ }^{\prime}$ Sewall Street $\quad 2,000$
H. Ralph Aubin, 6 Oxford Street $\quad 2,100$

Roy R. King, 18 Landers Street $\quad 1,900$
Phillip J. Heffernan. 356-A Broadway - 1,700
Benjamin C. Bowman, 102 Walnut Street 1,500
Edward A. Mason, 63 Tonawanda St., Dorchester 1,900
1,900
2,100
1917 1918

Percy A. Brigham, 22 Madison Street $\quad$ 2,100 1918

Percy A. Brigham, 22 Madison Street
Mrs. Alice A. Hathaway, Clerk, 27 Pearson Road

1919 1920 1920
$\$ 16.00$ per week 1920

INDEPENDENT HOUSEHOLD ARTS SCHOOL.
High School Building.
Mary Henleigh Brown, Director, 162 Highland Ave. $\$ 2,200$

## CONTINUATION SCHOOL.

High School Building.
Everett W. Ireland, Principal, 57 Packard Avenue
$\$ 2,500$
Lawrence E. Landahl, 99 Summer Street 1,800
Kells S. Boland, 1200 Mass. Avenue, Cambridge 1,500 1920
Estelle Crowe, 55 Cedar Street $\quad 1,000$ 1920

## (WILLIAM H.) PRESCOTT SCHOOL

Grade. Pearl and Myrtle Streets.

|  | Samuel A. Johnson, Master, 5 Gardner Ter., Allston |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4. | Clara Taylor, 36 Flint Street | 1893 |  |
| 8. | Elizabeth L. Marvin, 17 Summit Street | 1871 |  |
| 2. | Louise E. Pratt, 11 Prospect Hill Avenue | 1,500 | 1898 |
| 2. | Mrs. Grace E. Allen, 271 Summer Street | 1,500 | 1889 |
| 1. Jeannette M. Hannabell, 166 Highland Avenue | 1,000 | 1919 |  |
| 1. Dorothea Shay, 68 Mt. Pleasant Street | 1,500 | 1917 |  |
|  |  |  |  |

## SANFORD HANSCOM SCHOOL. <br> Webster and Rush Streets.

Florence A. Chaney, Master. 49 Boston Street
. Mrs. Agness M. Travis, 100 Park Ave., Winthrop
. Maude A. Nichols, 166 Highland Avenue
Jennie M. Twiss, 67 Berkeley Street
Frances E. Robinson. 88 Charles Street, Boston
Mrs. Nellie W. McPheters, 163 Summer Street
Martha L. Littlefield, 163 Summer Street
Ethel H. Werner, 59 Cedar Street
Florence M. Shaw. 58 Central Street
Marion A. Viets, 122 Dale Street, Waltham
. Alice M. Saben, 11 Prospect Hill Avenue
Kind'n. Elizabeth J. Baker, 33 West Cedar Street, Boston Asst. Gertrude Prichard, 5 Webster Street

TABLE 29. - Teachers in Service January, 1921. - Continued.

## Name and Residence. <br> CLARK BENNETT SCHOOL.

Grade

Soplar and Maple Streets. $\quad$| Began |
| :---: |
| Serv- |
| Ice |

## GEORGE L. BAXTER SCHOOL.

Bolton Street.
Francis A. Ryan, Master, 99 Raymond Avenue ..... 1919
5. Mary G. Blackwell, Principal, 45 Ibbetson Street ..... $\$ 1,600$ ..... 1900
1,500

1,500

1,500 ..... 1916
3. Margaret M. Breen, 461 Somerville Avenue
3. Margaret M. Breen, 461 Somerville Avenue19081,5001912
2. Sue A. Fitzpatrick, 451-a Somerville Avenue ..... 1,500

1. Maria D. McLeod, 78 Larchwood Drive, Cambridge ..... 1906
1,400
Kind'n. Eleanor A. Connor, 86 Belmont Street ..... 1903
Asst. Martha W. Delay, 48 Beacon Street ..... 1911
OREN S. KNAPP SCHOOL
Concord Avenue.
Francis A. Ryan, Master, 99 Raymond Avenue ..... $\$ 2,900$ ..... 1913
2. Mrs. Clara B. Donlon, Ayer ..... 1,650 ..... 1914
3. Winifred I. Macdonald, 43 Babcock Street, Brookline ..... 1,500 ..... 1917
4. Mary T. McCarthy, 246 School Street5. Ellen C. Moynihan, 67 Avon Street1,5001919
5. Eleanor M Lundgren, 50 Harrison Street1,3503. Agnes C. Riley, 451 Somerville Avenue$1,350 \quad 1918$
6. Alice A. Tassinari, 94 Beacon Street ..... $1,300 \quad 1919$
7. M. Edith Callahan, Woburn$1,500 \quad 1911$
8. Mrs. Evelyn P. Hansen, 143 Elm Street ..... 900 ..... 1920

## ALBION A. PERRY SCHOOL.

Washington Street, near Dane Street.

Francis A. Ryan, Master, 99 Raymond Avenue
1919
6. Catherine E. Sweeney, Principal, 633 Broadway
$\$ 1,600$
1919
1,500 1910
4. Irene Vincent, 47 Vinal Avenue

1,500
1903
8. L. Gertrude Allen, 75 Ossipee Road

1,500
1884
2. Mrs. Sarah E. Murphy, 120 Rogers Avenue

1,500
1906

1. Grace R. O'Neil, 347 Washington Street

1,500
1913

TABLE 29. - Teachers in Service January, 1921. - Continued.
Name and Residence.
CHARLES G. POPE SCHOOL.
Washington and Boston Streets. Salary. $\begin{gathered}\text { Serv- } \\ \text { ice. }\end{gathered}$
Florence A. Chaney, Master, 49 Boston Street $\$ 2,600 \quad 1892$
6. Alice I. Norcross, 90 Russell Avenue, Watertown 1,6501885
6. Harriet M. Clark, 10 Vernon Street, West Medford 1,500 1893
6. M. Abbie Tarbett, 11 Washington Street, Stoneham 1,500 1906
5. Marie Higgins, 55 School Street $\quad 1,5001919$
5. C. Edith Taylor, 36 Flint Street $\quad 1,3001917$
4. Lizzie W. Parkhurst, 146 Highland Avenue 1,5001885
4. Annie G. Sheridan, 57 Stanley Avenue, Medford 1,5001886
3. Eleanor E. Waldron, 135 Powder House Boulevard $1,000 \quad 1919$
3.2. M. Katherine Davis, 243-A Highland Avenue 1,5001904
$\begin{array}{lllll}\text { 2. Florence E. Locke, } 25 & \text { Highland Avenue, Cambridge } & \text { 1,500 } & 1899 \\ \text { 1. Mary J. Dewire, } 384 \text { Washington Street } & 1,450 & 1913\end{array}$

1. Alice B. Frye, 12 Champa Avenue, Malden $\quad 1,5001904$
(JOHN A.) CUMMINGS SCHOOL.
School Street, near Highland Avenue.
Charles G. Ham, Master, Watertown
1919
2. Fannie L. Gwynne, Principal, 65 School Street $\quad \$ 1,600$ - 1886
$\begin{array}{lllll}\text { 3. Katherine M. Fox, } 150 \text { Franklin Street, Stoneham } & 1,500 & 1896 \\ \text { 2. Elizabeth L. Hersey, } 96 \text { Oxford Street } & 1,500 & 1896\end{array}$
3. Mrs. Stella M. Hadley, 11 Greene Street 1,5001914

## (JOHN G.) EDGERLY SCHOOL.

Grade. Cross and Bonair Streets.

| Charles E. Brainard, Master, 82 Munroe Street | $\$ 3,000$ | 1889 |
| :--- | :--- | :--- | :--- |
| Edith M. Snell, 4 Vine Street, Melrose | 1,650 | 1900 |
| Annie L. Dimpsey, Hotel Woodbridge | 1,500 | 1891 |
| Mary E. Richardson, 26 Oxford Street | 1,500 | 1893 |
| Isabelle M. Gray, 25 Webster Street | 1,500 | 1897 |
| Mabel C. Mansfield, 26 Oxford Street | 1,500 | 1893 |
| Berta M. Burnett, 1619 Mass. Ave., Cambridge | 1,500 | 1915 |
| G. Hortense Pentecost, 157 Walnut Street | 1,500 | 1905 |
| Myrtle M. Irwin, 41 Putnam Street | 1,350 | 1915 |
| Mrs. Louise S. Weare, 63 Hancock Street, Boston | 1,500 | 1896 |
| Lillian Nealley, 109 Glen Street | 1,500 | 1882 |
| Alice W. Cunningham, 62 Highland Avenue | 1,500 | 1901 |
| Martha M. Power, 37 Gleason St., West Medford | 1,500 | 1890 |
| Edna F. Scriven, 108 Summer Street | 600 | 1920 |

## JACOB T. GLINES SCHOOL.

Jaques Street, near Grant Street.
Charles E. Brainard, Master, 82 Munroe Street
1919
Margaret A. Orr, 146 Massachusetts Ave., Boston $\$ 1.650$
Harriet F. Ward, Weymouth
$\begin{array}{ll}1,500 & 1895 \\ 1,450 & 1917\end{array}$
Alice C. Blodgett, 55 Tennyson Street
Clara D. Eddy, 49 Tennyson Street
5, 4. Editha A. Sharkey, 7 Wesley Park
1,500
1900

Mrs. Carrie Armitage, 57 Madison Street
$1,300 \quad 1919$
1,000 1920

Florence E. Baxter, 42 Highland Avenue
$\begin{array}{ll}1,500 & 18.99 \\ 1,500 & 1891\end{array}$
Cora J. Demond, 146 Mass. Avenue, Boston $\quad 1,500 \quad 1900$
Elizabeth C. Sullivan, 74 Ossipee Road $\quad 1,000 \quad 1.920$
Florence W. Schroeder, 268 Summer Street 1,400 1915
Mary L. Gallagher, 81 Benton Road $\quad 1,450 \quad 1913$

| 1. | Isabel J. Tifft, 109 Highland Avenue | 1,500 | 1892 |
| :--- | :--- | ---: | :--- |
| Marguerite Driscoll, 396 Medford Street | 900 | 1919 |  |

$\begin{array}{lllll}\text { Asst. } & \text { Marguerite Driscoll, 396 Medford Street } & 900 & 1919 \\ \text { ind'n. Mrs. Etta D. Ellsworth, Trinity Court, Boston } & 1,400 & 1897\end{array}$
Asst. Ida M. Kane, 28 Fellsway West
$1,250 \quad 190 \%$

TABLE 29. - Teachers in Service January, 1921. - Continued.

Name and Residence.<br>(CHARLES) FORSTER SCHOOL.

## Sycamore Street and Evergreen Avenue.

Grade.
Frank W. Seabury, Master, 18 Winslow Avenue
6, 5. Elizabeth F. Clement, 29 Kidder Avenue
5, 4. Annie S. Gage, 32 Marshall Street
3, 2. Carrie T. Lincoln, 65 Ashland Street, Medford
2,1. Grace Shorey, 23 Forster Street

Began
Serv-
Salary.
ice.
1913
$\$ 1,500$
1884
1,500
1881
1,500
1893
$1,500 \quad 1832$

## (NORMAN W.) BINGHAM SCHOOL. <br> Lowell Street, near Vernon Street.

Harry F. Hathaway, Master, 29 Albion Street
$\$ 3,000$
1890
6. Elizabeth J. O'Neil, 82 Benton Road
,650
1894
6,5. Jane Batson, 68 Cedar Street, Malden . 1,500 1900
6. Helen M. Farr, 4 Oak Street, Belmont 1,4001915
5. Elizabeth ${ }^{\text {'S S. Brown, }} 18$ Forster Street 1,500 1897
5. Clara L. Griffiths, 39 Ames Street 1,5001902
4. Anna R. Canfield, 205 Cedar Street 1, 1,400 1914
4. Alice A. Griffiths, 39 Ames Street $\quad 1,400 \quad 1920$

4, 3. Barbara E. Drummey, 43 Short Street, Marlboro 1,400 1918
3. Lillian F. Commins, 24 Hanson Street 1,400 1914
3. Lynda V. Merrill, 26 Brastow Avenue $1,500 \quad 1912$
2. G. Marion Lovering, 27 Flint Street 1,450 1913
2. Priscilla A. Merritt, 96 Oxford Street $1,500 \quad 1885$

2, 1. M. Gertrude McCarthy, 36 Brastow Avenue 1,300 1917

1. Mabel E. Mansir, 77 Albion Street 1,500 1894
2. Ethel Gross, 8 Fosket Street 1,300 1917

## MARTIN W. CARR SCHOOL.

Atherton Street.
Chas. G. Ham, Master, 20 Washburn St., Watertown
6. Eva S. Bent, 6 Steeves Circle
$\$ 3,000$
1898
6. Eva s. Bent, 6 Steeves Circle 1,65

1915
6. Susie L. Luce, 21 Francesca Avenue

1,500
1891
6. Mrs. Hazel F. Quinn, 206 Washington St., E. Woburn

1,500
1,300
1915
6,5. Mrs. Helen M. Mason, 19 Grand View Avenue
5. Lillian T. Haskell, 41 Putnam Street
$\begin{array}{ll}1,500 & 1920 \\ 1,500 & 1913\end{array}$
5. Elizabeth S. Foster, 53 Laurel Street

1,500
5. Dorothy Lundgren, 50 Harrison Street
$\begin{array}{ll}1,300 & 1915\end{array}$
4. Alice M. Cumming, 117 School Street
4. Ada C. Tassinari, 94 Beacon Street

1,300
, 400
1917
3. Margaret M. Brennan, 30 School Street
$\begin{array}{ll}1,400 & 1919 \\ 1,300 & 1917\end{array}$
3. Bessie I. Berry, 38 Wyllis Avenue, Everett

1,500
2. Annie B. Russell, 14 Kidder Avenue

1915
2. Mary E. Flanley, 9, Avon Street, Wakefield

1,500 1901

1. Frances E. Welch, 303 Highland Avenue

1,400
1915

1. Mabel R. Ingham, 62 Central Street
$1.500 \quad 190 \mathrm{~S}$
(ENOCH R.) MORSE SCHOOL.
Summer and Craigie Streets.।

## Mina J. Wendell, Master, 211-A Summer Street

\$3,000
1882
6. Mrs. Harriette C. Hamilton, 68 Wallace Street
5. Lennie W. Bartlett, 53 Laurel Street
5. Blanche E. Thompson, 33 Hudson Street
5. Blanche E. Thompson, 33 Hudson Street
4. Mary A. Whitney, 10 Dow Street

4, 3. Eva A. Wilson, 9 Monmouth Street
3. Mrs. Agnes C. Rice, 34 Highland Avenue
2. Alice C. Ray, 82 Benton Road
$1,500 \quad 1906$
$1,500 \quad 1916$
$1,350 \quad 1917$

Lena Munroe, 211-A Summer Street
$1,500 \quad 1900$

1. Helen L. Tuck, 43 Paulina Street
$1,500 \quad 1914$
2. Louise F. Deady, 84 Bay State Avenue
$1,500 \quad 1913$
$1,500 \quad 1912$
$1,300 \quad 1.917$

TABLE 29. - Teachers in Service January, 1921. - Continued.
Name and Residence.
GEORGE O. PROCTOR SCHOOL.'

Hudson Street.
Grade.
Harry F. Hathaway, Master, 29 Albion Street
6. Nora F. Byard, Principal, 27 College Avenue

6,5. Alice G. Hosmer, 42 Boston Street
5. 4. Ethel F. Morang, 18 Curtis Avenue
4. Ella P. McLeod, 163 Summer Street
3. Edith L. Hunnewell, 41 Mason Street
2. Mary S. Richardson, 347 Boston Avenue, Medford

1. Lucia Alger, 163 Summer Street

Salary. $\begin{gathered}\text { Began } \\ \text { Serv- } \\ \text { ice. }\end{gathered}$
Salary. ice.

1912
$\$ 1,650 \quad 1884$
$\begin{array}{rr}\$ 1,650 & 1884 \\ 1,500 & 1906\end{array}$
1,300 1920
1,500
1888
1,500 1894
1,500
1906
1,500

## GEORGE W. DURELI」 SCHOOL.

Beacon and Kent Streets.
Charles G. Ham, Master, Watertown
1919
4. Abigail P. Hazelton, Principal, 14 Billingham Street $\$ 1,600 \quad 1902$
3. Grace E. Packard, 12 Carlisle Street, Roxbury 1,500
2. Mary Winslow, 23 Hall Street 1,500

1. Alice M. Dicker, 82 Marion Street, East Boston 1.500

$$
1.912
$$

## MARK F. BURNS SCHOOL.

Cherry Street, near Highland Avenue.
Mina J. Wendell, Master, 211-A Summer Street
4. Mrs. Margaret D. Hellyar, 427 Medford Street

| $\ldots \ldots \ldots$. | 1919 |
| ---: | ---: |
| $\$ 1,650$ | 1909 |
| 1,500 | 1890 |
| 1,500 | 1885 |
| 1,400 | 1914 |
| 1,500 | 1890 |
| 1,500 | 1896 |
| 1,500 | 1893 |
| 1,450 | 1917 |

## BENJAMIN G. BROWN SCHOOL.

Willow Avenue and Josephine Avenue.
Geo. I. Bowden, Master, 92 Monument St., W. Med. $\$ 3,000 \quad 1 \cap n \$$
6. Maude E. Abbott, 9 Summit Avenue $\quad 1,6001918$
5. Mary T. Ford, 32 Central Road 1,5001911
5. Annie Sanburn, 11 East Newton St., Boston 1,500 1906
4. Anna N. Johnson, 33 Everett Avenue 1,500 1912
4. Martha R. Taylor, 26 Simpson Avenue
3. Helen L. Galvin, 1681 Beacon St., Brookline $1,500 \quad 1.911$
. Alice M. Dorman. 159 Morrison Avenue
$1,500 \quad 1903$
$\begin{array}{ll}1.500 & 1903\end{array}$
2. Mrs. Grace H. Bliss, 33 Whitfield Road $\quad 1,500 \quad 1900$
$\begin{array}{lllll}\text { 1. Mrs. Bessie T. MacCutcheon, } 72 & \text { Mt. Vernon Street } & 1,400 & 1915 \\ \text { 1. Olivia H. Norcross, Wilmington } & 1,500 & 1914\end{array}$

1. Olia H. Norcross, Wilmington
$1,500 \quad 1914$

## HIGHLAND SCHOOL.

Highland Avenue and Grove Street.
Harlan P. Knight, Master, 22 Hamilton Road
1919
6. Grace M. Clark, 10 Vernon Street, West Medford $\$ 1,650$
6. Mary H. Joyce, 42 Orchard Street, Cambridge $\quad 1,500 \quad 1891$
6. Ethel M. Park, 48 Electric Avenue 1,5001916
6. Lillian F. Richardson, 129 Mt. Auburn St., Camb. 1,5001904
6. Eva M. Barrows, 71 Hudson Street $\quad 1,500 \quad 1903$
5. Marion Allen, 74 Collins Street, Danvers 1,5001911
5. Catherine A. Burden, 42 Kidder Avenue $\quad 1,500 \quad 19 \mathrm{n2}$
$\begin{array}{lllll}\text { 5. Eva E. Perkins, } 16 \text { Buckminster Street, Allston } & 1,500 & 1911 \\ 5 \text { 5. Hazel M Stone, } 2 \text { Medina Building } & 1,350 & 1919\end{array}$
5. Hazel M. Stone, 2 Medina Building . 1,350 1919

TABLE 29. - Teachers in Service January, 1921. - Continued.

## Name and Residence.

## S. NEWTON CUTLER SCHOOL.

Powder House Boulevard, near Raymond Avenue. Began ServGrade.

## Harlan P. Knight, Master, 22 Hamilton Road

6. Bernice J. Andrews, 10 Locke Street
7. Mrs. Edith M. Thornquist, 49 Curtis Avenue
8. Ella H. Bucknam, 1105 Broadway
9. Mrs. Mabel T. Totman, 17 Pleasant Avenue
10. Bessie J. Baker, 19 Mills Street, Malden
11. Mrs. Elva A. Cutler, 36 Powder House Boulevard
12. M. Eunice Young, 6 Myrtle Street, Winchester
13. Mabel Worcester, 24 Brastow Avenue
14. Alice A. Libbey, 20 Chandler Street
15. Mrs. Eisie M. Guthrie, 50 Bromfield Road
16. Mrs. Katie L. Harmon, 1092 Broadway
17. E. Mildred Milner, 12 Medina Building
18. Almena J. Mansir, 77 Albion Street
19. Mrs. Nettie M. Humiston, 43 Fairmount Avenue
20. Annie H. Hall, 1092 Broadway
21. Mary L. McKenna, 294 Lowell Street
22. Stella Bucknam, 319 Highland Avenue

| Began |  |
| ---: | ---: |
| Salary. | Serv- <br> ice. |
| $\$ 3,000$ | 1897 |
| 1,650 | 1914 |
| 1,500 | 1906 |
| 1,500 | 1897 |
| 1,500 | 1893 |
| 1,500 | 1905 |
| 1,500 | 1911 |
| 1,500 | 1912 |
| 1,300 | 1919 |
| 1,300 | 1919 |
| 1,450 | 1919 |
| 1,400 | 1916 |
| 1.300 | 1920 |
| 1,500 | 1899 |
| 1,300 | 1920 |
| 1,500 | 1906 |
| 1,350 | 1915 |
| 1,000 | 1917 |

## LINCOLN SCHOOL.

Broadway, near Teele Square.
Harlan P. Knight, Master, 22 Hamilton Road
3. Eliza H. Lunt. Principal, 50 Curtis Street
$\$ 1,600$ 1889
4. Mrs. Lillian M. Wentworth. 248 Highland Avenue

1,500 1911
2. Olevia M. Woods, 116 Powder House Boulevard 1,500 190.

1. Hortense F. Small, 91 Electric Avenue

## MARTHA PERRY LOWE SCHOOL.

## Morrison Avenue, near Grove Street.

George I. Bowden, Master, 92 Monument St., W. Med.
1917
4. May E. Small. Principal, 81 Orchard Street Stella M. Holland, 7 Francesca Avenue $\quad \$ 1,60$

1. Martha A. Jencks, 47 Meacham Road
2. Octavia A. Stewart, 15 Kenwood Street 1,500
1.917

## EVENING SCHOOL PRINCIPALS.

| Everett W. Tuttle, High | $\$ 7.00$ |
| :--- | ---: |
| John S. Emerson, Bell | 6.00 |
| Charles E. Brainard, Highland | 6.00 |

I
CADET TEACHERS.
Ruth C. Arrington, 37 Walnut Street

TABLE 29. - Teachers in Service January, 1921. - Continued:
SUPERVISORS AND SPECIAL TEACHERS.
Music.
12, 7. James P. McVey, 29 Hammond Street, Cambridge $\quad \$ 2,500$ 1915,
6, 1. Mrs. Charlotte D. Lawtcn, 121 St. Stephen St., Boston 1,900 1898.
Drawing.
9, 1. Clara M. Gale, 21 Willoughby Street $\$ 1,900 \quad 1911$
Sewing.
Mary H. Brown, Supervisor, 162 Highland Ave. $\$ \$ 2001913$.
6, 5. Mary L. Boyd, 74 Heath Street $\quad 1,500$
6, 5. Mrs. Emma J. Ellis, 54 Marshall Street $\quad 1,500$
$\ddagger 6$, 5. Lucy Dorr, 124 Summer Street $\quad 1,500 \quad 1919$ -
Penmanship.
9, 1. Ruth L. Whitehouse, 2 Medina Building. $\$ 1,700$ 1915-
Manual Training.
Harry L. Jones, Supervisor, 137 Pow. House Blvd. $\dagger \$ 2001911$
Physical Instruction.
$\begin{array}{ccccc}\ddagger 12,1 . & \text { Ernst Hermann, } 58 \text { Shepard Street, Cambridge } & \$ 1,550 & 1914 \\ 12,1 . & \text { Alma Porter, 43 Ossipee Road } & 1,400 & 1918\end{array}$
Atypical.
Mary A. Holt, 13 Pleasant Avenue

| $\$ 1,550$ | 1910 |
| ---: | ---: |
| 1,550 | 1913 |
| 1,450 | 1914 |

Mrs. Bertha M. Morton, 62 Highland Avenue $\quad 1,550 \quad 1913$
Julia M. Kiordan, 165 Albion Street $\quad 1,4501914$
Supervisor School Gardens.
$\ddagger$ William B. Moore, West Peabody
$\$ 1,050 \quad 1919$

* Additional to salary as Director of Household Arts Courses.
$\dagger$ Additional to salary as Principal of Boys' Vocational School.
$\ddagger$ Part time.

TABLE 30. - OFFICERS, ETC., IN SERVICE JANUARY, 1921.

## Name and Address. SUPERINTENDENT AND SECRETARY

| Charles S. Clark, 75 Munroe Street | Salary. <br> $\$ 5,000$ |
| :--- | ---: |
| CLERKS. |  |
| Mary A. Clark, 42 Highland Avenue | $\$ 1,400$ |
| Mildred A. Merrill, 26 Cambria Street | 1,250 |
| H. Madeline Kodad, 104 Sharon Street, West Medford | 1,150 |
| Marion E. Marshall, 30 Gilman Street |  |

ATTENDANCE OFFICER.
Benjamin R. Jones, 25 Loring Street
$\$ 1,800$

TABLE 31. - SCHOOL JANITORS, JANUARY, 1921.

| School. | Name. | Residence. | Weekly Salary |
| :---: | :---: | :---: | :---: |
| ;High School, assistant | Jeremiah M. Brennan | 482 Medford St. | \$26.00 |
| -High School, assistant | John N. Quirk | 202 Somerville Ave. | 25.00 |
| High School, assistant | Nicholas J. Lacey | 327 Washington St. | 30.00 |
| High School, assistant | * Andrew H. Finnegan | 77 Concord Ave. | 25.00 |
| High School, assistant | Joseph McCormack | 206 Washington St. | 25.00 |
| JHigh School, assistant | Charles Hoyt | 18 Trull St. | 30.00 |
| High School, assistant | Thomas G. Pullen | 6 Madison St. | 25.00 |
| Eastern Junior High | James J. Quirk | 216-B Medford St. | 27.50 |
| Prescott | John T. Morey | 21 Michigan Ave. | 28.50 |
| Hanscom | Charles F. Rose | 15 Brastow Ave. | 26.50 |
| Boys' Vocational | Charles B. Kelley | 25 Clark St. | 26.00 |
| Bennett | Michael Mullaney | 467 Somerville Ave. | 28.00 |
| Baxter | Jeremiah Sullivan | 60 Newton St. | 24.00 |
| Knapp | Maurice T. Mullins | 13 Fremont St. | 28.50 |
| Perry | Dan'l E. Cunningham | 15 Leland St. | 24.00 |
| Pope | John J. Kilty | 662 Somerville Ave. | 28.00 |
| Southern Junior High | William Meskill | 53 Partridge Ave. | 30.00 |
| Southern Junior High | John C. Kelleher | 8 Newman Pl. | 26.00 |
| Cummings | Lewis G. Keene | 54 Prescott St. | 22.00 |
| 'Edgerly | Charles P. Horton | 22 Everett Ave. | 28.00 |
| Glines | Roy C. Burckes | 20 Jacques St. | 29.00 |
| Forster | George W. Coombs | 73 Bonair St. | 28.00 |
| Northern Junior High | Michael A. Mullin | 16 Bowdoin St. | 27.50 |
| Bingham | John F. O'Brien | 347 Lowell St. | 31.00 |
| Carr | John H. Lane | 5-A Belmont St. | 34.00 |
| Morse | John W. Cremen | 69 Oxford St. | 28.50 |
| Proctor | James F. Flynn | 31 Linden St. | 25.50 |
| Durell | Ellsworth C. Lundgren | 50 Harrison St. | 22.00 |
| Burns | Charles J. Elkins | 35 Mansfield St. | 25.50 |
| Brown | James J. Cooper | 105 Willow Ave. | 26.50 |
| Highland | E. Parker Cook | 103 Willow Ave. | 28.00 |
| Hodgkins | George A. Givan | 17 Henry Ave. | 29.00 |
| Western Junior High | James T. Eddy | 33 Wallace St. | 34.00 |
| Cutler | Daniel Campbell | 22 Barton St. | 28.00 |
| Cutler | Walter F. Burns | 23 Avon St. | 25.0 |
| Lincoln | Thomas F. O'Day | 134 Lowell St. | 22.00 |
| Lowe | Frank H. Flagg | 22 Clyde St. | 25.50 |

Report of a Special Committee appointed by the School Committee to consider and report upon the Junior High School and Vocational system, submitted to the School Committee on June 11, 1920. This report was accepted by the School Committee and its recommendations were adopted.

To the School Committee:
Your committee has given careful consideration to the communication of the board of aldermen dated May 14, notifying the school committee that it had accepted a report from the committee on public property relative to additional school accommodations, and reporting "that no action is necessary and that it is the opinion of this committee that the present junior high school system and the present system of vocational education be abolished and in its place be substituted a centrally located vocational school, and that the present Western Junior High School be converted for use as a high school."

In reply your committee begs leave to report adversely upon all the recommendations therein contained. In support of its action it submits herewith a report which points out errors in the assumptions of the board of aldermen and states. reasons for opposing its conclusions.

Taking up first the recommendation that "the present system of vocational education be abolished and in its place besubstituted a centrally located vocational school," your committee calls attention to the fact that the Somerville system of vocational education was established in accordance with the laws of the Commonwealth in 1910 by the joint action of the school committee, the city government, and the Massachusetts State Board of Education. On December 8, 1910, the board of aldermen of the city of Somerville passed the following resolution and it was approved by the mayor on December 9, 1910 :
"That the board of aldermen of the city of Somerville hereby authorizes and approves the establishment and maintenance of an independent industrial school for boys and an independent industrial school for girls by the school committee of Somerville."

Vocational education has been conducted since that time in accordance with the laws of the Commonwealth and in partnership with the State department of education. By law this opportunity is open to youths 14 years or more of age. This system is the established system of the State and cannot be changed unless Somerville desires to go contrary to the practice of the other communities. If this should be done the entire expense for such school would have to be borne by the city of ${ }^{\text {. }}$

Somerville instead of being borne as now, one-half by the State and one-half by the city.

Nor can manual training and household arts be withdrawn from the course of study of the junior high school inasmuch as by law communities of 20,000 or more inhabitants are required to provide both manual and household arts instruction in the elementary and high schools.

Proceeding now to the main recommendations of the board of aldermen "that no action is necessary and that it is the opinion of this committee that the present junior high school system be abolished," your committee contents itself with presenting several convincing reasons for opposition to these recommendations.

Chief among these reasons is the one of educational policy. The committee is thoroughly convinced that the junior high school system should be maintained because of the educational advantages which it affords the children of the early adolescent age.

The second reason is that the committee is convinced that the cost of the junior high school system as compared with the cost of any substitute therefor is not enough greater, if any greater, to be a consequential factor.

Finally the committee is convinced that the proposer program of additional accommodations is one which provides for the needs of future years in a way consistent with the spirit of the times and with the practice of other progressive communities. Moreover, this program can be carried into effect by unnits, one unit at a time, rather than all at once, if, for any reason, it is desirable to do so.

This report will consider the junior high school question in relation to the educational advantages which that system provides, in relation to cost of education, and in relation to the building program involved.

For a number of years a discussion of re-organization of the educational system of the country has been carried on by leading educators and by various bodies devoted to the study of education. The purpose of the study has been to define more clearly the objectives of education and to determine in what way those objectives could best be accomplished. During the last ten years the discussion has taken more definite form and direct proposals for action have been advanced. In his report for 1913, page XXIV, the United States Commissioner of Education, among other suggestions, made the following: "The 12 years of elementary and high schools now grouped in the primary and grammar school and four years of high school should be rearranged into six years of elementary and six years
of high school. The high school should be sub-divided into three years junior high and three years senior high school." Some of the reasons given for this change are the following:
"For most children the beginning of adolesence marking the transition from childhood to youth comes at 12 or 13. In most of our schools children make little real progress in the 7 th and 8 th grades. There has been much complaint that this is a period of marking time. Taking up the 7th and 8th years as part of the high school makes it easy to begin departmental teaching in these grades and to adapt the methods of teaching and discipline to the changing demands of the children."
"We lost much by postponing the study of languages to the later years, when children have grown out of the imitative period of life in which they can learn to speak, read, and write a new language."
"Many more children than now enter the high school at all would remain throughout the entire high school period."

In the Annual Report of the Massachusetts State Board of Education 1914-1915, (page 37) the Commissioner of Education, Dr. David Snedden, in discussing the work in the 7th, 8 th and 9 th grades says: "The older pupils in our elementary schools should as far as possible be gathered into central schools where departmental and flexible courses can be provided. The creation of the intermediate or junior high school in central locations for all children over 12 years of age is essential to other administrative changes to be expected as educational demands become more exacting and knowledge of how to meet these demands is accumulated."

The plan here outlined and the reasons given have been adopted and approved by various organizations and societies. The National Education Association, the Federal Bureau of Education, State Departments of Public Instruction, the leading universities and recognized educational authorities of the country are all on record as favoring the movement. The 15th Year Book of the National Society for the Study of Education, published in 1917, said: "If a complete canvass were made of all the cities of the United States, it would probably be found that the nation is pretty well committed to the plan of reorganizing its schools on a broad junior high school basis."

The report of the special commission of Education for Massachusetts, appointed under authority of Chapter 88, Resolves of 1918, to investigate educational systems of the Commonwealth, says (on page 38) : "The junior high school is a distinct step in adrance. It offers to pupils an earlier opportunity to find themselves; to discover their tastes and capacities by extending the range of their school experience. It affords a certain amount of prevocational experience in manual training
and homemaking courses. If well organized and managed, it lessens the number of misfits in the senior high school. It introduces at an earlier stage studies which, while in a sense by nature elementary, are usually deferred to the high school: e. g., foreign languages and algebra. If desirable, it may lessen the time needed for preparation for higher institutions. It increases markedly the advantage of departmental teaching."

It is estimated by competent educational authority that at the present time the number of communities in the United States having established junior high schools is between 800 and 1,000 and that in the near future the plan of six elementary, three junior high school, and three senior high school grades will be adopted generally throughout the country. Over40 communities in Massachusetts have now established junior high schools, and half as many more are now making plans to establish them or are investigating the subject with that end in view. Nearly all the large cities of the State are included in one or the other of these two lists.

In Somerville in 1914 the school committee authorized theorganizing of an intermediate school in the upper grammar grades in the Forster School. Departmental teaching was established and manual training and household arts were provided. A program of studies was adopted which included all of the work of the elementary course, while at the same time it provided an opportunity for the pupil to make selection of an additional study in accordance with his inclinations and aptitudes.

This school had been in successful operation for two years, when in 1916 it became necessary for the school committee to make recommendation to the mayor and the board of aldermen concerning building accommodations. At this time there was complaint about the overcrowding of the high school, and there was overcrowding in the Prescott, Hanscom, Edgerly, Glines, Carr, Morse, Burns, Brown and Hodgkins elementary schools. The whole situation both in relation to the giving of relief from overcrowding and to providing for the future educational policy of the city was considered by the school committee, His Honor the Mayor, and the president of the board of aldermen in meetings held during the early part of 1916. Various organizations and representatives of citizens' associations took part in the consideration.

It was finally decided to adopt the junior high school plan of organization and in September, 1916, a junior high school was established in the Forster School district and one in the Prescott School, where a new nine-room building had just been
completer. In September, 1917, a third junior high school was opened in a new building on Holland street, and in 1918 the fourth was opened in the Bell School, where an addition prorided for the purpose was completed in September of that year.

When this plan was adopted it was clearly intended to provide at each center the additional room which then could be foreseen would be needed. The character of this undertaking is well shown by the letter quoted below, which was written by Hon. Z. E. Cliff near the close of his last term as mayor in the city of Somerville.

January 4, 1918.

## "Mr. Charles S. Clark, <br> Superintendent of Schools, Somerville, Mass.

"Dear Sir: At this time, at the completion of my four years' service as mayor and as a member of the School Committee,. I desire to express to your committee my appreciation of your hearty co-operation in all matters considered by us.
"At the beginning of my administration, we were confronted with the high school problem, and I believe that the solution at which we have arrived, made possible by the action of the school committee, board of aldermen and the mayor, is a satisfactory one. The comprehensive plan contemplated four junior high school centers.
"In the eastern district, the new building adjoining the Prescott schoolhouse is now in use ; in the northern district, the Forster School annex has been adapted for junior high school purposes; in the western district, the new building on Holland street property has been completed and is in use; in the southern district, a building is now in process of erection on Vinal avenue, arljoining the Bell schoolhouse. It was not considererl by us that these buildings would be sufficient to care for all the pupils, but we have built as far as the finances would permit. The comprehensive plan anticipated the construction of future units in each of these districts from time to time, and the buildings are designed with this in mind.
"I earnestly hope that appropriations will be made from year to year and additional units constructed until sufficient accommodations are provided in all these districts.
"My experience in the school committee has convinced me of the wisdom of the charter change which provided for the membership of the president of the board of aldermen and the
mayor, and I believe that this membership enables both of these officers to consider school needs with much greater understanding.
"Though my official connection with the school committee ceases within a few days, I wish to assure you that my personal interest in the schools and your work will continue in the future years.

## Very truly yours, <br> (Signed) Z. E. CLIFF, Mayor."

The plan contemplated, also, the release from school use of certain elementary buildings which had been used approximately a half century. As a consequence of these changes there has been set up an educational organization corresponding to the prevailing opinion of the day. Relief has been given to the high school; relief has been given to a number of elementary schools which were formerly overcrowded; the number of pupils per teacher in the elementary schools has been reduced so that now the average is about 42. For a number of years the opinion of educational authorities has been that no elementary school teacher should have more than 40 pupils. In a bulletin recently issued by the Department of the Interior, Bureau of Education, the number was made as low as 35.

Somerville was one of the first cities in the East to establish junior high schools and during the few vears of their operation, school men, including members of the school committees, superintendents of schools, principals of high and elementary schools, and teachers have visited the junior high schools of Somerville for the purpose of studying their organization, course of study, and educational practice. Among these are representatives of the following school systems: Cambridge, Haverhill, Wellesley, Salem, Arlington, Watertown, Revere, Malden, Gloucester, Newton, Boston, Winchester, Lynn, Lowell, Brockton, Wakefield, Melrose, Natick, Medford, Holyoke, Needham, New Bedford, Fall River, Milton, Danvers, Lexington, Springfield, Chelsea, Waltham, Brookline, Beverly, Worcester, Woburn, Hingham, Pepperell, Webster, Ipswich, Everett, Bridgewater, Franklin, Quincy, Chicopee, Swampscott, Marlboro, Hamilton, Gardner, Marblehead, Stoneham, Fitchburg, Keene, N. H., Jefferson, Vt., Englewood, N. J., Waterbury, Conn., East Orange, N. J., Forest City, Ark., Salem, Ind., Manchester, N. H., St. Johnsbury, Vt., Pawtucket, R. I., Rochester, N. H., Augusta, Me., Bethel, Me., Wilton, N. H., St. Paul, Minn., Madison, Wis., New York City, Nashua, N. H., Rockland, Me., Camden, Me., Charleston, W. Va., Baltimore,
Md., Kansas City, Mo., Bellows Falls, Vt., Canaan, Vt., Sendai, Japan, Hartford, Conn., Bristol, R. I., Bangor, Me., Brooklyn, N. Y., Kumamoto, Japan, and others. The interest in our schools shown in this way is continuous. Only within a week seven members of the school committee of Watertown visited one of our junior high schools.

The present outlook for the junior high school movement is shown in this statement recently made by the Commissioner of Education of Massachusetts, Payson Smith: "In my opinion, there is no question of the fundamental soundness of the junior high school idea. I believe the public as well as school officers are coming to see that the elementary schools, including the first five or six grades, ought to be devoted more definitely to giving the children a mastery of what we may call the "tools" of an education. With the beginning of the adolescent period, much larger provision must be made for individual differences in children. The junior high school represents the only economical plan for making this provision. Junior High Schools have been rapidly developing in this State in the past four years and the idea seems to be gaining such rapid acceptance that the general adoption of it in the very near future seems probable."

Practically every survey of a school system conducted in the country by the U. S. Bureau of Education has recommended the establishment of junior high schools as a means of increasing school efficiency.

Following are quotations taken from statements made by well-known educational authorities. These statements appeared in the Somerville Press of May 28, 1920. They constitute a notable contribution to the literature of the junior high school, and The Press is to be congratulated for the civic interest it has shown in collecting them and-making them acces; sible to the public. They were made with specific reference to the Somerville junior high schools.

Clarence D. Kingsley - Agent in charge of high schools for the Mass. State Board of Education and chairman of the Commission on the Reorganization of Secondary Education of the National Education Association.
"I know of no one who has made a careful study of the junior high school who is not convinced that it is highly desirable. It is advocated not by theorists, but by practical school administrators, teachers, and parents. No city to my knowledge which has given the plan a thorough trial has discarded it. It is no longer an experiment. It has demonstrated its value.
"The junior high school has met a long felt need. Heretofore the last two years of the elementary school and the first
year of the four-year high school were the weakest points in our school system. The junior high school is adapted to the needs, interests, and capacities of children 12 to 15 years of age, as neither the elementary nor the senior high school can be. As a result fewer children become discouraged and drop out of school.
"The junior high school helps young people to find out what they can do best so that it will not be necessary to choose blindly the work which they should begin in the senior high school.
"The junior high school should be supported by everyone who wants to see the school system turn out the most effective citizens, because it is possible in the junior high school to develop certain civic qualities that cannot be so effectively developed at any other time in the life of the child."

Dr. John M. Brewer - Director of Bureau of Vocational Guidance, Harvard University.
"More than sixty per cent. of the children who leave school do so because they or their parents do not believe further education worth while. This erroneous opinion is largely due tothe rigid program of studies and artificial atmosphere of the old-style 7th and Sth grades. The junior high school has largely changed these evils and it aims to give an education that fits for life. Citizens with civic imagination see the dangers ahead if children are allowed to grow up without knowing about the serious social and economic problems of the future. If the fire department were to be abolished to save money, we should suffer loss at once. A blow at the schools causes a loss which is postponed, perhaps, till long after the term of office of our present city officials has expired, but a loss just as real and dangerous."

Dr. Pall H. Hanus - Professor of Education, Harvard University; for many years a member of Massachusetts State Board of Education.
"To abandon the junior high schools already established in Somerville would be a calamity. Junior high schools are the best means yet developed for adapting the educational opportunities which a school system affords to the needs and abilities of individual pupils, and this adaptation is an indispensable element of efficient schools."

Prof. Henry W. Holmes - Dean of the New School of Education, Harvard University.
"I believe heartily in the general theory of the junior high school, and I have supposed from all I have heard that the Somerville practice in junior high school work is as effective and valuable as any that has been worked out."

Dr. Thomas H. Briggs - Professor of Education, Teachers' College, Columbia University, who has recently finished a survey of junior high schools of the country for the U. S. Bureau of Education.
"Although less than ten years old, the movement has spread to all parts of the country, with the exception of five Southern and two arid states. The total number of junior high schools today is probably about 800 ."

Dr. A. H. Wilde - Director of Boston University, School of Education.
"The junior high school is an important addition to our public school organization. It saves losses of time and energy in the 7 th and 8th grades, gives adolescent boys and girls a better preparation for life or for higher education, and appeals to them more deeply."

Prof. Antoinette Roof - Instructor in Education at Simmons College.
"The results prove the soundness of the theory, for when put into operation it holds children in the schools, it opens the door of opportunity for many who would otherwise drift into unskilled occupations and be lost in blind alley jobs-in other words, it aims to give a fair deal to 'all the children of all the people,' giving them the right kind of an education at the right time. No community can afford to give its future citizens anything less than the best educational opportunities."

Prof. Alexander Inglis - Assistant Professor of Education at Harvard.
"It should be recognized that the primary and fundamental purpose of the junior high school is to provide a more effective and valuable form of education, with special reference to the different capacities and needs of children of ages approximately 12 or 13 to 15 or 16 -a form of education which is absolutely impossible under the old form of organization. A return to the older form of education in Somerville would be nothing short of an educational crime against the interests of the children."

Prof. George A. Mirick - Lecturer on Elementary Education at Harvard.
"So far as one can judge it will not be many years before the junior high school will have replaced the seventh, eighth, and ninth grade organizations generally in this country, not only in cities and towns but in rural sections. I cannot con-ceive that Somerville will undo the fine piece of work she has done in her junior high schools. She might as well think of going back to horse-cars, and wells in the back yards."

Cost - The per capita cost of schools in Somerville for the school year 1919 was $\$ 44.82$. Although in the number of pu-
pils in the average membership Somerville was the seventh city in the Commonwealth, in per capita expenditure it was 13th among the 14 largest cities, only one of them having a lower per capita expenditure. Among the 354 cities and towns in the State it was 238 th in per capita expenditure. This means that 237 communities expended more upon each pupil in its average membership. Of the first fourteen cities of the State, Worcester, Fall River, New Bedford, Cambridge, Lowell, Lawrence, Haverhill and Malden spend more for education per child than Somerville, although they do not as yet maintain junior high schools, while Somerville does. This fact shows conclusively that the presence of the junior high school system in Somerville has not raised the cost of education here to the level of other cities of its class. On the other hand, Boston and Springfield both have junior high schools, and both spend more than Somerville.

Contrasting the expenditure per capita in 1909 with that of 1919 we find a decrease in expenditure per pupil as compared with the expenditures in other cities and towns of the State. In 1909 the expenditure per pupil was $\$ 29.71$ and Somerville was 93 d among the communities of the State in the amount which it expended for each child in its average membership. In 1919 Somerville expended $\$ 44.82$ per child but was only 23Sth among the 354 communities of the State. From this comparison it is evident that although the amount spent by Somerville upon each pupil has increased in the last ten years, yet in those years 144 communities have passed Somerville in the amount expended per child, giving to Somerville a rank in 1919 of 238 in place of 93 in 1909.

Again Somerville's expenditures for education have not increased proportionately to its increase in wealth. In 1909 Somerville liad a valuation of $\$ 5,165$ for each pupil in the average membership of the schools. In 1919 it had a valuation of $\$ 6.722$ per pupil. There was expended for school support during the school year ending June 30, 1909, $\$ 5.75$ on each thousand dollars of valuation, which gave Somerville a rank in expenditure per thousand dollars of valuation in 1909 of ' 121 among the 354 communities of the State. In the school year ending June 30, 1919, there was expended for school support $\$ 6.68$ on each thousand dollars of valuation. Somerville's rank for expenditure on each thousand dollars of valuation in 1919 was 163 among the 354 communities of the State. In other words, while in 1909120 communities appropriated more per thousand dollars of valuation for education than Somerville, in 1919162 cities and towns expended more. These facts show that during the last ten years Somerville's valuation per pupil has increased over thirty per cent., and its expenditure only
sixteen per cent. These facts show also that education in Som-erville is not so expensive today compared to that in othercities and towns as it was in 1909.

These conclusions hold despite the fact that during this. period the change to the junior high school system has been effected, that junior high schools now have been in operatioli several years, and that these years of operation have been themost expensive years because of initial cost of installation of equipment.

Buildings - In a statement prepared for the board of aldermen and by them used as an exhibit, it is asserted that there are 317 rooms and 17,117 sittings. Reports submitted to the school committee by principals of the schools showed 272 rooms and 14,881 sittings. This is a decrease of 45 rooms and 2,236 sittings.

What appears, even then, superficially considered, to be a surplus of sittings in the city has no effect whatever upon the validity of the claim of overcrowding which resulted in the request for additional school accommodations. The vacant seats are found principally in Wards 2 and 6 ; serious overcrowding exists in East Somerville and at Winter Hill. In both of these latter sections relief has been sought through transfers of pupils to more distant schools and has been met, almost without exception, with protest on the part of parents. It is evident that no more relief can be obtained in this way.

Moreover, in reporting the maximum capacity of the several buildings, principals reckoned upon 48 or 49 seats perroom. If the children of our city are to have educational opportunities equal to those of other places, this number of pupils per class should be reduced at least 8 pupils. Such reduction covering the entire elementary school system would of itself reduce the number of vacant sittings by about 1,600 . The School Committee believes that the parents will endorse its position that the interests of the children rather than the number of desks that can be gotten into a room, should determine the size of the classes. Large classes increase failures of promotion. Every failure of promotion increases the cost of instruction. The reduction of the size of classes is, therefore, not only in the interest of the children themselves but also in the interest of economy.

It is well known to persons who are acquainted with management of schools that rooms must be provided for a variety of purposes. There are regular classrooms in which pupils sit to study and recite. There are rooms which are used only for recitation purposes; there are laboratories and shops; there should be assembly rooms in large school buildings. In the enumeration of rooms and sittings made by principals, regular
-classrooms alone are counted in the seating capacity of the :schools. Carpenter shops, kitchens, chemical and physical laboratories, sewing rooms, etc., are not counted as suitable for home rooms. Rooms now used for manual training and household arts cannot be diverted from that use to home rooms for academic use inasmuch as the teaching of household arts and manual arts is required by law in both elementary and high schools.

An illustration of the application of this general distinction in the use of rooms is shown in the erroneous report submitted to the board of aldermen for the Folsom building. This is a six-room building and was used as a primary school until 1914. Its class rooms would provide 291 sittings, 48 or 49 in a room. There were two rooms in the basement used as storerooms and an unfinished attic. There was also a small room on the second floor used chiefly as a storeroom. In the Fall of 1914 this building was taken for the intermediate school work. During that year a floor was laid in the attic by the pupils and later beaver board partitions were set, making four rooms unventilated and insufficiently heated. These rooms are used as cooking, sewing, typewriting and recitation rooms. None of them can be used properly as a home room. The two rooms in the basement are shops. The room on the second floor is used for recitations for small classes. These rooms also are unfit for home room purposes. Yet, all of these rooms have been treated as suitable for sittings for home rooms in the report submitted by the board of aldermen. The total number of sittings for the school building is given as 459 , whereas it should have been only 291 at the most.

In the Southern Junior High School building basement rooms user as manual training and typewriting rooms have been counted as furnishing seating space. Besides being basement rooms, in other respects they are wholly unfit to be used as home rooms. In the Bell Schoolhouse the wardroom, which has been divided to furnish space for recitations, is counted as two home rooms. These two rooms are unsuitable for their present use, being insufficiently lighted, heated and ventilater, and would not be tolerated as places for seating classes for home room purposes.

In the Southworth building a basement room now used for assembly and physical exercises has been rated as a space suitable for permanent sittings. Besides being a basement room, this room is insufficiently lighted for regular classroom use. In fact basement rooms are being put to their largest possible educational use now as shops, cooking rooms, sewing rooms, etc. In a few instances where such work is done in regular classrooms, it is done of necessity. Inasmuch as manu-
al training and household arts instruction must by law be given to children in the elementary and high schools, rooms must be provided for their use. Such rooms cannot be properly used also as classrooms for study and recitation purposes. In junior high schools space has been taken for these classes, in most cases, which would not otherwise be applied to any other educational use. However, all these rooms appear to have been counted as home rooms in the report of the board of aldermen.

The building program submitted to the board of aldermen in May, 1919, was intended to present in a comprehensive way a plan that would be sufficient for these schools through 1925 at least. It was intended to include accommodations which the committee believed to be necessary for the children to have in the years that are to come. It recognized that certain school buildings have long since outlived their adaptability to present day educational needs. This building program set forth the additional accommodations which are needed to complete the plans for the junior high schools which were adopted in 1916. It was then foreseen that the junior high schools when completed should contain auditoriums, gymnasiums, and seating capacity sufficient for all of the pupils, and it was proposed at that time to add units periodically until the whole plan was completed in each center. The plan adopted in 1916 was approved by the mayor and board of aldermen of that year and was still further endorsed by them in an appropriation for a new building on Holland street. It was further approved by the mayor and the board of aldermen in 1916 in the purchase of land on Vinal arenue and an appropriation in 1917 for the erection of an addition to the Bell School. The building program also contained a request for a gymnasium for the high school. This is a need which has been conceded by public opinion for many years. In these days in which additional emphasis is laid upon health instruction, the need for a gymnasium for the high school is more urgent than ever before. The tendency of the times is now to provide facilities to furnish a broader educational experience for pupils. An assembly room, gymnasium, science laboratory, cooking and manual training rooms are among the indispensable features which modern schoolhouses for higher elementary and high school purposes should possess.

It should be noted that while the furnishing of these provisions at one time would afford a means of treating all parts of the city alike and would make immediately available for pupils concerned the advantages which this program would give, still it is capable of division, in point of time, whereby part can be furnished at one time and part at another.

As a summary of these various considerations it is main:-
tained that the provisions of the junior high school are in accordance with the best and most competent educational thought; that the junior high school presents an educational program looking to the future and adaptable to the demands which the future may make upon the schools for the education of the youth of twelve to sixteen years of age. At a time when a decision had to be made to meet a condition of general overcrowding, Somerville decided to establish junior high schools. Those schools have been organized, successfully conducted, and have met the high approval of educators not alone from Massachusetts and New England, but from more distant points.

Among the latter was Superintendent Broome and a member of the school committee of East Orange, New Jersey, which is confronted by a situation similar to that which existed in the high school and the upper grammar grades in Somerville in 1916. They spent a forenoon here in two of the junior high. schools six weeks ago. In the Journal of Education of May, 25,1920 , Dr. A. E. Winship, Editor, who is recognized as one who knows more about school conditions throughout the country than any other person, in speaking of East Orange says: "Superintendent E. C. Broome has presented a comprehensive plan providing three junior high school buildings to accommodate all children of the seventh and eighth grades and the ninth or lower high school class. Mr. Broome's vision will make East Orange as distinct a city as any in the country. Mr. Broome's vision is as clearly outlined professionally as it is administratively. His plans for East Orange's educational future are as definite as is his building planning."

When one considers the aims and ideals of the junior high school system, the enthusiastic and unanimous approval of its plan by the leading educational experts of the State and the Nation, and its successful working in practice everywhere it has been adopted, and notably in our own city, it seems inconceivable that any public official in Somerville should advocate its abandonment.

The subject is too large, too vital to be debated or decided on narrow lines. It affects too deeply the present and future lives of thousands of the school children of Somerville on whom we must rely, as the coming citizens, for the stability and permanence of all we hold dear in our republican institutions.

The issue then is between a plan which looks towards the future and one which faces the past; between a plan which asks for the children of the future, school accommodations suited to their needs and adapted to the most approved educational processes of the day and a plan which contemplates filling existing school rooms to their maximum capacity and using at-
tics and basements for classrooms; between a plan which, while meeting the needs of the future wholly, can yet be provided in installments, if necessary, and a plan which says that existing accommodations meet all the needs of the present and the future.

Upon this issue the school committee stands firmly committed to the plan which promises better schoolhouses in the future for the school children of Somerville, and to that end cordially invites the co-operation of the public and of the board of aldermen.

Respectfully submitted,
(Signed) H. M. Stoodley, Chairman Finance
Oscar W. Codding,
Chairman School Accommodations
Christopher J. Muldoon,
Chairman Text Books and Courses of Study
Edward I. Tripp,
Chairman Industrial Education Committee

## QUESTIONNAIRE ON STUDY OF MUSIC

In the Spring of 1920 a questionnaire was circulated among the pupils of the High and Junior High Schools in order in ascertain facts on which to base a plan for giving school credits for the outside study of music. These replies show the musical inclinations of the pupils and to what extent pupils are making a serious study of music.

Following is a summary of the questionnaire:
1,470 questionnaires were taken in the Senior High School and 2,417 in the Junior High Schools, making a total of 3,887.

Of the whole number 2,330 or $59.9 \%$ have had musical training and 1,307 or $33.6 \%$ were studying music outside of school at that time.

Of the 1,470 Senior High School pupils 954 or $64.8 \%$ had had training and 436 or $29.6 \%$ of the whole number or $45.7 \%$ of those trained were then studying.

Of the 2,417 Junior High School pupils 1,376 or $56.9 \%$ had had training and 871 or $36 \%$ of the whole or $63.2 \%$ of those trained were still studying. 98 had given up their musical study on account of school work.

Of the 2,417 Junior High School pupils 1,564 or $65 \%$ expressed a wish to study music. Of the 1,564 or $65 \%$ who wished to study 1,315 or $54.4 \%$ of the whole number would like credit for their musical study, and 187 or $7.7 \%$ of the whole number stated that they did not wish credit. Not all of those then studying music wished to do so though the number who were dissatisfied was far less than those who were not studying but wished to.

There was shown a wide preference as to the line of study, the detail of which is set forth by schools in the following table:

| Number of Question naires | AspirationNorthern ${ }^{\text {Southern }}$ ( |  | Eastern | Western | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 505 |  | Lastern | Western | Tal |
| Wish to Study Music . | ${ }_{331}^{505}$ | 453 | 409 242 | 800 538 | $\stackrel{2417}{1564}$ |
| Voice | 44 | 63 | 31 | 85 | 223 |
| Piano or Organ | 226 | 248 | 140 | 367 | 981 |
| Violin . | 47 | 79 | 57 | 74 | $25 \%$ |
| Other Strings | 1 | 1 | 0 | 6 | 8 |
| Flute, Clarinet or Saxo phone. | 2 | 9 | 3 | 3 | 17 |
| Cornet | 9 | 14 | 8 | 25 | 56 |
| Other Brass | 3 | 4 | 3 |  | 15 |
| Banjo, Mandolin, etc. | 8 |  | 4 | 12 | 31 |
| Fife . | 2 | 0 | 0 | 0 | 2 |
| Drum | 5 | 9 | 2 | 12 | 28 |
| Other Instruments |  | 2 | 1 | 1 | 4 |
| No Preference |  | 9 | 0 | 1 | 13 |

By schools the percentage of those wishing to study music is: Western $67 \%$, Northern $65.5 \%$, Southern $63 \%$, Eastern $59 \%$.

The number of pupils in the Senior High School trained or: studying, and the instrument are shown in the following table. The number is greater than the number of children, some being counted twice as they were trained upon or were studying more than one instrument. In this connection the voice is considered as an instrument.


COURSES OF STUDY IN JUNIOR AND SENIOR HIGH SCHOOLS 1921

## Grade VII

Required:

| Periods per week |  |
| :---: | :---: |
| . | 3 |
| . | 3 |
| . | 3 |
| . | 1 |
| . | 1 |

Spelling ..... 1
Writing ..... 1
Drawing ..... 1
Cooking and Sewing ..... 2
or
Shop work for boys ..... 2
Physical Training
Elective: (choose one)
Latin ..... 4
French ..... 4
Spanish ..... 4
German ..... 4
Special Household Arts ..... 4
Special Manual Arts ..... 4
Typewriting and Commercial Principles ..... 4
Elementary Subjects (Special) ..... 4
Grade VIII
Required:
Periods per week
English ..... 3
Arithmetic ..... 3
History and Geography ..... 3
Hygiene ..... 1
Music ..... 1
Spelling ..... 1
Writing ..... 1
Drawing ..... 1
Cooking and Sewing ..... 2
or
Shop Work for boys ..... 2
Physical Training
Elective: (choose one)
Latin4
French ..... 4
Spanish ..... 4
German ..... 4
Special Household Arts ..... 4
Special Manual Arts ..... 4
Typewriting and Commercial Principles ..... 4
Elementary Subjects (Special) ..... 4
Grade IX
Required:
Periods per week
5
English
1
Community Civics ..... 1
Physical Training
Elective: (choose one group)
College: -
Latin ..... 5
Algebra ..... 5
Ancient History ..... 3
Scientific:
5
Algebra
Ancient History ..... 3
Mechanical Drawing ..... 1
Latin or Manual Training ..... 5
Normal: -

```
    Algebra . . . . . . . . 5
    Ancient History . . . . . . . }
    Freehand Drawing . . . . . . 1
    Latin or French . . . . . . . 5
    Manual Arts: -
    Algebra . . . . . . . . 5
    Mechanical Drawing . . . . . . 1
    Manual Arts . . . . . . . }
    Household Arts: -
    Algebra . . . . . . . . 5
    Freehand Drawing . . . . . . 1
    Household Arts . . . . . . . }
    Commercial:
    Bookkeeping . . . . . . . 5
    Typewriting . . . . . . . }
    Penmanship . . . . . . . 1
    Spanish or French or German or Manual Arts or
        Household Arts
    5
(Scientific group omits music. Normal has English four periods instead of five.)
```


## Shop Work for Boys

Carpentry (including project work, construction and repairs) in all schools. In addition a second occupation is provided in the several schools as follows: Eastern, Bookbinding; Northern, Printing; Southern and Western, Metal Working.

## COLLEGE COURSE

## Grade X



## Grade XI

English . . . . . . . 4
Latin (3) . . . . . . . 5
Algebra (2) . . . . . . $211 / 2$ 21⁄2
Electives (Take two)
Greek (2) . . . . . . . 5
5
French (2) . . . . . . 5
Chemistry . . . . . . 5
Eng. History . . . . . . 4
Spanish (1) . . . . . . 5
5
German (1) . . . . . . 5
A science must be taken either second or third year.

## Grade XII



* Only for pupils offering Chemistry for Examination at Harvard, Radcliffe, Wellesley, Smith, Mt. Holyoke.


## SCIENTIFIC COURSE

## Grade $X$

|  | Grade X | Recitations |  |
| :---: | :---: | :---: | :---: |
|  |  |  | Points |
| English | . . | . 4 | 4 |
| Geometry | . . | - 5 | 5 |
| Anc. History (2) | . . | $21 / 2$ | $21 / 2$ |
| Mec. Drawing (2) | . . | $21 / 2$ | 1 |
| French (1) | . . | 5 | 5 |
| ctives (Take one) |  |  |  |
| Latin (2) |  | 5 | 5 |
| Man. Training (2) |  | 6 | 4 |

Grade XI


## Grade XII



## NORMAL COURSE

## Grade X



Normal Art students must take extra drawing periods each year.

## HOUSEHOLD ARTS COURSE

## Grade $X$



Grade XI


## Grade XII

English

## Grade XI



GENERAL COURSE

## Grade X

## English

E'ur. History
Elocution . . . . . . . . 1
Latin (2)
French (2)
Spanish (2)
German (1)
Physics
Recitations Points

## Biology

4
$4 \quad 4$ 1
. . . . .
5
Man. Training (2) \& . . . . . , 6
Mec. Drawing (2) . . . . . $21 / 2$
1
Cooking (2) . . . . . 42
Dressmaking (2)
$4 \quad 2$
Geometry . . . . . . . 5
5
Commerce and Industry . . . . $21 / 2 \quad 21 / 2$
Optional
Freehand Drawing
$21 / 2 \quad 1$
Mec. Drawing . . . . . . $21 / 2$
Penmanship . . . . . . $21 / 2$
1


COMMERCIAL COURSE


```
Electives
```




```
    Spanish (2) . . . . . . 5 5 5
    French (2) . . . . . . 5 5 5
    German (1) . . . . . . 5 5
    Physics . . . . . . . 5 5
    Man. Training (2) & . . . . . 6 4
    Mec. Drawing (2) . . . . . 21/2 1
Optional
    Com. Drawing (2) . . . . . 21/2
    1
```

Bookkeeping or Stenography and Typewriting must be included in the electives chosen by each pupil.

## Grade XI

| English |  |  | - | 4 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Elocution (2) | - | - | . | 1 | 1 |
| Physiology |  |  |  | 1 | 1 |
| Penmanship (3) |  |  |  | $21 / 2$ | 1 |
| ctives |  |  |  |  |  |
| Bookkeeping (3) or |  |  |  | 5 | 5 |
| Stenography (2) \& |  | . |  | 5 | 5 |
| Typewriting (2) |  | . |  | 5 | 2 |
| Spanish (3) |  | - | - | 5 | 5 |
| French (3) |  | - | . | 5 | 5 |
| German (2) | . | - | . | 5 | 5 |
| Commercial History |  | . |  | 4 | 4 |
| Mod. Eur. History |  | . |  |  | 4 |
| Chemistry . |  |  |  | 5 | 5 |

Bookkeeping or Stenography and Typewriting must be included in the electives chosen by each pupil.

## Grade XII



Bookkeeping or Stenography and Typewriting or Business Practice and Salesmanship must be included in the electives taken by each pupil. Pupils who do not take Bookkeeping need not take Penmanship. Pupils who take Bookkeeping or Business Practice and Salesmanship need not take Business Arithmetic (2).

## PUBLIC LIBRARY.

BOARD OF TRUSTEES.
Thomas M. Durell, M. D., President.
J. Frank Wellington, Vice-President.

Frederick W. Parker. Herbert E. Buffum, M. D.
William L. Barber. Giles W. Bryant, M. D.
Charles L. Noyes, D. D. David H. Fulton.
Frank M. Barnard

COMMITTEES.
On Administration.
The President, Messrs. Wellington, Parker, Noyes, Buffum and Fulton.
On Books and Cataloguing.
The President, Messrs. Barber, Buffum, Bryant and Barnard.
On Buildings and Property.
The President and the Vice-President.

## Secretary of the Board.

George H. Evans.

# PUBLIC LIBRARY. <br> <br> ORGANIZATION OF LIBRARY AND STAFF PERSONNEL. 

 <br> <br> ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.}

December 31, 1920.
George Hill Evans, Librarian.
Nellie M. Whipple, Assistant Librarian.
Vivian J. Morse, Executive Assistant.

## CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.

Highland Avenue and Walnut Street.

GRADED SERVICE.
Department Heads and Special Positions..
Cora B. Eames, Reference Librarian.
Edith B. Hayes, Chief Cataloguer.
Mary S. Woonman, Reviewer and Classifier.
Anna L. Stone, Periodicals.
Ebythe L. Miller, High School Librarian.
Nina L. Winn, Librarian of Graded and Junior High Schools
Gladys B. Hastings, Children's Librarian.

> Senior Assistants.
> Myrtle Nicholson, Desk Chief.

- Assistant Cataloguer

Dorothy B. Spear, Circulation Department. Circulation Department.
Rutif A. MoDuffee, Children's Room

Junior Assistants.
—— Circulation Department:
Circulation Department.

## UNGRADED SERVICE.

Mae L. Gormley, Circulation Department. Bernice L. Watt, Catalogue Department. Jessie E. Bennett, Catalogue Department.

Attendants on Part Time.

Arthur Hayes
Ruth Hayes
Dorothy A. Jones

Wilmot W. Jones
Myrtle I. Minziea Edith Taylor

## WEST SOMERVILLE BRANCH.

Established 1909. 40 College Avenue.

GRADED SERVICE.
Esther M. Mayhew, Branch Librarian. Mabel E. Bunker, 1st Assistant.

Senior Assistants.
Ruth L. Swett, Children's Librarian.
$\qquad$

Junior Assistants.
Edna L. Hartwell, Circulation Department.

## UNGRADED SERVICE. Attendants on Part Time.

$\qquad$

Natalie C. Hailwood
Marion F. Macdonald
Marston C. Sargent

Irma P. Traphagen
Richard J. Walsh

EAST SOMERVILLE BRANCH.
Established 1912.
Broadway and Illinois Avenue.

GRADED SERVICE.
Branch Librarian

## Senior Assistants.

H. Luthera Fisher, 1st Assistant.

- Children's Librarian

Junior Assistant.
Ouive W. Gleason, Circulation Department.

UNGRADED SERVICE.
Attendants on Part Time.

Annie Gilman
Isabelle H. Hughes

Elsie L. Knox
Gertrude L. McGlinchy

## UNION SQUARE BRANCH.

Established 1912.
Washington Street and Bonner Avenue.

GRADED SERVICE.
Alice G. Worthen, Branch Librarian.
Senior Assistants.
Marguerite C. Kelly, 1st Assistant.
—— Children's Librarian
Junior Assistant.
Circulation Department.

UNGRADED SERVICE.
Mary Stack, Page.
Attendants on Part Time
Gaspero Albano
Leola Strout
Alice Russell

## MEMBERS OF THE TRAINING CLASS.

Mildred A. Fuller
Lucy W. Harris
Mildred J. Hess
Orpha B. Matheson

Marion J. Meserve Eleanor A. Randall Florence Sewall

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

## Report of the Trustees.

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

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

Very respectfully,
The Board of Trustees, by Thomas M. Durell, President.

## REPORT OF THE LIBRARIAN.

## Gentlemen of the Board of Trustees:

The forty-eighth annual report of the Somerville Public Library, for the year 1920, is herewith submitted.

As the year has drawn toward its close signs of a re-action from the abnormal conditions of employment that have worked havoc with library service far and wide have begun to be manifest. The war has left a mark that will not soon nor easily be erased, but there is a dawning hope that we are already entering a period of re-building that will in due time restore the standards of service to which our people have previously been accustomed. That we were able in October to register a promising training class of seven, as against none last year, points unmistakably to such a conclusion.

The total recorded home circulation for 1920 is 476,035 . A moderate decline appears in the reports of all our circulating agencies, except the Central Library, which shows a slight increase. In no case, however, has the change either way been of significant proportions.

There are two disturbing features in our present con? tion. The general movement of upward salary adjustment of the last two years leaves us at a relatively lower level than formerly as compared with other libraries in or near our class. We must expect to see the inevitable operation of economic law that brings to the better paying institutions the more e"ficient personnel and to the poorer paying institutions the less efficient. Equally serious in another direction is the decline in our book purchasing power, shown in sharp relief by the net reduction of our book collection this year by 3,619 volumes. This means that the funds a a ailable for book purchase are not sulficient to replace the wear and tear of use. In 1917 our total appropriation for book purchase was $\$ 8,313$. It was thereafter radically reducer, and in succeeding years was as follows: $1918, \$ 5,335 ; 1919, \$ 5,902 ; 1920, \$ 6,126$. In the meantime the cost of books has nearly doubled. As a result of a decreased appropriation during a period of sharply increasing costs our purchasing power has declined approximately one half in the last three years. We are not now able to maintain the collection with the present appropriation, but are in the position of a merchant who takes out of his business the money received from sales without replenishing his stock of merchandise. It is unnecessary to point out to any intelligent observer to what
end this process leads. Your librarian would be derelict in his: duty if he failed to direct attention to these features of our present condition.

During 1920 the following changes have occurred in the staff. Mildred R. Holt, Branch Librarian at Union Square Branch, and Beatrice E. Kelliher, Branch Librarian at East Somerville Branch, resigned to accept better paid positions. Miss Holt was succeeded by Alice G. Worthen who came to us from the Melrose Public Library where she was Acting Librarian. The position at East Somerville has not yet been filled. Abbie G. Glover, Librarian in charge of school deposits, resigned to accept the position of Librarian of the Women's Educational and Industrial Union of Boston. She was succeeded by Nina L. Winn, promoted from Senior Assistant by examination. In addition the resignations of the following Senior and Junior Assistants have been received: Dorothy Kinney, Ruth S. Fales, Helen P. Smith, Ruth G. Markle, Ruth Burckes, Harriet C. Fenwick, and Jessie B. Alcock. Resignations from the ungraded service were those of Lillian McGowan, Marion Fall, and Gladys Preble.

Appointments during the year have been as follows: to the First Grade, Alice G. Worthen ; to the Second Grade, Dorothy B. Spear, H. Luthera Fisher, and Ruth A. McDuffee; to the Third Grade, Edna L. Hartwell and Olive W. Gleason; to the Ungraded Service, Bernice L. Watt, Jessie E. Bennett, and Mary Stack. Ruth L. Swett has been promoted to the position of Children's Librarian at West Somerville Branch, and Marguerite C. Kelly to the position of First Assistant at Union Square Branch, both for meritorious work. The library serrice was greatly reinforced at a critical time by the temporary summer appointment of Edith K. Coulman, Helen G. Gilman, and Elsie K. Wells, all of whom were experienced in library work.

Seven candidates for the Library Training Class successfully qualified for admission, either by passing the required examination, or by presenting a college diploma. The class began its six months' course on the first Monday of October with the following members enrolled: Mildred A. Fuller, Lucy W. Harris, Mildred J. Hess, Orpha B. Matheson, Marion J. Meserve, Eleanor A. Randall, Florence Sewall.

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

Respectfully submitted,
George H. Evans,
Librarian.

| Total |
| :---: |
| 298,941 |
| 177,094 |
| 476,035 |
| Total |
| $118,96!$ |

5
0
0
0
$=1$


51,107

(

| $\begin{aligned} & \circ \\ & \stackrel{\rightharpoonup}{2} \\ & \text { A } \\ & \hline 6 \end{aligned}$ |  | 10 0 0 |
| :---: | :---: | :---: |

The Public Library of the City of Somerville.



10
$m$
0
9
0
$\approx$
book lent

## APPENDIX B

## American Library Association Form For Uniform Statistics.

The Public Library of the City of Scmerville, Mass. Population served ..... 93,091Total number of agencies20\%.Consisting of Central Library3 BranchesHigh School Department190 School Rooms
4 Institutions
8 Playgrounds
Number of days open during year for lending and for reading ..... 304
Hours open each week for lending (Central Library) ..... 72
Hours open each week for reading (Central Library) ..... 72
Number on staff: regular full time positions . 34
part time positions in whole units 6 ..... 40.
Number of volumes at beginning of year ..... 118,969
Number of volumes added during the year by purchase ..... 6,090
Number of volumes added by gift or exchange ..... 416
Number of volumes added by binding material not otherwise counted ..... 410 .
Number of volumes withdrawn during the year ..... 10,535
Total number at end of year . ..... 115,35() ..... Total
Number of volumes of fiction lent for home use ..... 226,132
94,468 ..... 320,600
Total number of volumes lent for home use 298,941 177,094 ..... 476,035
Number of borrowers registered during year ..... 6,968
Number of valid borrower's cards, December 31 ..... 17,046
Number of newspapers and periodicals currently received Titles ..... $24{ }^{\prime \prime}$
Copies ..... 499
Receipts from:
Local taxation
Library Department . ..... \$40,313 54
Public Buildings Department ..... 12,763 00
Endowment Funds:
Total credit ..... 1,599 94
Fines ..... 2,343 61
Other sources, Dog licenses ..... 2,180: 85

| Payments for: <br> Library Department: |  |
| :---: | :---: |
|  |  |
| Books | 9,491 78 |
| Pictures | 4313 |
| Periodicals | 1,410 67 |
| Music | 3738 |
| Binding | 2,969 51 |
| Salaries, library service | 28,724 88 |
| Other maintenance . . | 3,207 13 |
| Balance from Appropriation | 1386 |
| Balance from Endowment |  |
| Public Buildings Department: ${ }^{\text {- }}$ |  |
| Janitor service, heat, light, etc. | 12,248 58 |
| Balance . . . | 51442 |

## BOARD OF HEALTH

ORGANIZATION - 1920.
Robert M. Lavender, Chairman Warren C. Blair John E. Gillis, M. D.

Clerk and Agent to Issue Burial Permits. Laurence S. Howard.

Assistant Clerk.
Olive M. Stanley.
Agent.
George I. Canfield.
Medical Inspector and Bacteriologist.
Frank L. Morse. M. D.

Inspector of Animals and Provisions.
Charles M. Berry

Inspector of Milk and Vinegar.
Herbert E. Bowman.

Milk Collector.
William H. Wallis.

Plumbing Inspector.
Duncan C. Greene.

## School Nurse.

Ella B. Hornbrooke, R. N. Resigned Nov. 1, 1920.
Grace M. Andrews, R. N. From Nov. 1, 1920.

## Assistant School Nurse.

Grace M. Andrews, R. N. to Nov. 1st.

Health Nurses.
Helen B. Berry, R. N. Mary L. Scott, R. N.

Matron at Contagious Hospital.
Lillian E. Gould, R. N.

Assistant Matron at Contagious Hospital.
Gladys Horne, R. N.
Resigned June 26, 1920.

Office of the Board of Health, City Hall Annex, January 1, 1921.
To His Honor, the Mayor, and the Board of Aldermen :-
Gentlemen:-We respectfully submit the following as the forty-third 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, 1920 :

## Nuisances.

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

| Complaints referred from 1919 |  |  | 27 |
| :---: | :---: | :---: | :---: |
| Complaints received during 1920 |  |  | 480 |
|  |  |  | 507 |
| Complaints referred to 1921 | - |  | 26 |
| Nuisances abated in 1920 |  |  | 481 |
| Second and third notices sent |  |  | 64 |
| Received during 1920 |  |  | 480 |
| Total notices sent |  |  | 544 |

In addition to the above, 373 dead animals have been removed from the public streets. Many nuisances have been abated on verbal notice from the agent, without action by the board, of which no record has been made. Each spring the whole city is examined, and cellars, yards and alleyways where rubbish and filth have collected are required to be cleaned.

Glanders. Not a single case of glanders has been reported in the city during the past year.

## Record of Licenses and Permits Issued.

Cous. - Six applications were received for permits to keep seven cows, all of which were granted.

Goats. - Five applications were received for permits to keep nine goats, all of which were granted. The fee is one dollar for each goat.

Hens. - One hundred and eight-five applications for permits to keep 2957 hens were received. One hundred and fiftynine permits to keep 2559 hens were granted, and twente-six permits were refused.

Grease. - Fifteen applications were received for permits for seventeen teams to collect grease, which were granted. The fee is two dollars for each team.

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

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

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

Under the provisions of this act eighteen licenses have been issued. The fee is one dollar for each license.

## Stables.

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


## Board of Infants.

Thirteen applications having been made to the State Department of Public Welfare for licenses to care for children in this city, were referred to this Board under Provisions of Chapter 83 of the Revised Laws of 1902. Twelve of these ap-
plications were approved for the care of twenty-four children and one was returned without the approval of this board. Deaths.
There were 1137 deaths and sixty-four stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of sixtythree.
Deaths at Somerville hospital ..... 105
Deaths at hospital for contagious diseases and tuberculosis . . . . . . . ..... 34
Deaths at home for aged poor (Highland Avenue) ..... 45
Deaths at city home
Deaths at other institutions ..... 56

Mortality in Somerville in 1920.


Mortality in Somerville in 1920. - Concluded.


Mortality in Somerville in 1920．－Concluded．

|  |  |  |  | 荷 | 芸 | 邑 | 高 |  | ¢ 0 0 $\#$ 0 0 0 0 | － | 递 | 边 | ङ゙ 0 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| XI．Olid Agri． |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arterio sclerosis Senile dementia | 19 | 20 | 11 1 | 3 | 17 1 | 5 | 4 | 4 | 11 1 | 9 | 9 1 | 13 2 | 125 9 |
| XII．Violmace． |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Accidental burns from fire ．．．．．． |  |  | 2 |  |  | 1 |  |  |  | 1 | 1 | 1 | 6 |
| Accidental burns from hot water Accidental fall |  |  | 1 |  |  |  | 1 | 2 |  | 1 |  |  | 2 |
| Accidental gas poisining ．．．．．．．．．．．． | 2 |  |  |  | 1 |  |  | I |  |  |  |  | ＋ |
| Acc．carbonmonoxide poi．．．．．．．．． |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| Drowning ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| Heat Prostration． |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 2 |
| Homicide． |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |
| Railroad ．．．．．．．．． | 1 | 1 |  |  |  |  |  |  |  |  | 1 | 1 | 1 |
| Struck by automobile． |  |  |  |  | 1 |  |  |  |  |  | 1 | 1 | 3 |
| Suicide ．．．．．．．．．．．． | 2 |  | 1 | 1 |  | 1 |  |  |  | 1 |  |  | 6 |
| Surgical shock |  | 1 |  |  |  | 2 |  |  |  |  | 1 |  | 4 |
| Total | 121 | 198 | 103 | 81 | 89 | 62 | 78 | 64 | 71 | 80 | 95 | 95 | 1137 |

[^7]DEATHS BY AGES．


Table of Deaths During the Last Ten Years．


Table Showing the Five Principal Causes of Death in Somerville in 1920.

| Pneuy | via． | Arterio <br> Sclerosts |  | Apoplexy． |  | Heart Disease． |  | （＇ANCPR <br> Aif Forms． |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | $\begin{aligned} & \dot{0} \dot{\circ} \\ & 0 . \\ & 000 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |
| 161 | 17.30 | 125 | 13.42 | 101 | 10.87 | 88 | 9.46 | 87 | 9.35 |

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

Table Showing Comparison Between 1919 and 1920 in Prevalence, Deaths Reported and Percentage of Deaths of Scar-

| Months. | Scarlet Fever. |  |  |  |  |  | Diphtheria. |  |  |  |  |  | Typhoid Fever. |  |  |  |  |  | Tuberculosis all Forms. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 | 1919 | 1920 |
| January.. | 15 | 39 |  |  |  |  | 30 |  |  | 5 |  | 22.7 | 3 | 1 |  |  |  |  | 2 | 12 | 12 |  | 160.9 |  |
| March | 26 28 | 21 |  | 1 |  |  | 35 | 9 | 3 | 2 | 8.5 | 22.2 |  |  |  |  |  |  | 12 | 7 | 7 | 7 | 58.3 | 100 |
| April | 24 | 34 |  | 1 |  | .9 | 17 |  | 1 | 1 | 3.1 |  | 1 |  |  |  |  |  | 14 | 15 | 7 | 4 | 50.0 | 26.6 |
| May | 27 | 18 |  |  |  |  | 18 | 8 | 1 | 1 | 7.7 | 12.5 | 3 | 1 |  |  |  |  | 17 | 10 | 6 | 6 | 35.3 | 60. |
| June.. | 7 | 16 |  |  |  |  | 12 | 16 | 1 |  | 7.7 |  | 1 |  |  |  |  | . | 26 | 17 | 10 | 12 | 34.6 | 70.5 |
| July | 9 | 2 |  |  |  |  | 12 | 16 | . | 1 |  | 125 | 2 | ...... | 1 |  | . 50 |  | 23 | 17 | 11 | 4 | 47.8 | 23.5 |
| August | 5 | 3 |  |  |  |  | 9 |  |  | 1 |  |  | 2 | 1 |  | 1 |  | . 25 | 14 | 26 | 7 | 9 | 50.00 | 26.9 |
| September. | 10 | 5 |  |  |  |  | 8 |  |  |  |  |  | 2 | 1 |  |  |  |  | 10 | 16 | 10 6 |  | 100.00 40.00 | 25.0 3.33 |
| October..... | 20 |  |  |  |  |  | 15 | 3 |  | 2 |  | 66.6 | 1 | 6 |  | 1 |  | . 16 | 12 | 21 | 6 2 | 5 | ${ }^{40.00}$ | 3.33 23.8 |
| November. | 17 | 11 | 1 |  | 5.8 |  | 20 | 17 | 2 | 2 | 10. | 11.7 | 2 |  |  |  |  |  | 12 | 11 | 10 | 4 | 83.33 | 23.8 36.3 |
| December | 16 | 16 |  | 2 |  | 125 | 7 | 23 | 2 | 4 | 2.9 | 17.3 | 1 |  |  |  |  |  | 12 | 17 | 2 | 8 | 16.66 | 36.3 47.0 |
| Total.. | 204 | 207 |  |  |  | 1.45 | 205 | 125 | 9 | 19 | 4.4 | 15.2 | 17 | 16 | 1 | 3 | 5.9 | 18.7 | 169 | 184 | 90 | 69 | 53.2 | 37.5 |

## Diseases Dangerous to the Public Health.

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

## Specimens and Supplies.

Outfits for specimens to be examined for tuberculosis, diphtheria, and typhoid fever, and diphtheria anti-toxin, vaccine lymph and nitrate of silver solution may be obtained at the laboratory and at the following places:-
R. A. Peckham, 154 Perkins street.

Edward Edwards, 25 Union square.
Willis S. Furbush \& Co., 1153 Broadway.
Hall Drug Co., Hobbs building, Davis square.
Ernest B. McClure, 529 Medford street.
John Morrison, 288 Highland avenue.
Richardson Pharmacy, 310 Broadway.
George E. Wardrobe, 693 Broadway.
Hereafter the Agent of this Board will collect, daily, at five o'clock, p. m., all specimens left at culture stations for examination, prior to that hour.

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

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

## Medical Inspection of Schools.

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

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

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

The districts and inspectors are as follows:-
District No. 1 - Eastern Junior High, Prescott, Hanscom, Edgerly and Boys' Vocational schools. Inspector, Dr. Francis Shaw, 57 Cross street.

District No. 2. - Baxter, Knapp, Perry and Southern Junior High schools. Inspector, Dr. Edward J. Dailey, 46 Bow street.

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

Dr. Raymond resigned December 1, 1920, and Dr. Walter Jellis, 1028 Broadway, was appointed in his place to assume his duties January 1, 1921.

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

District No. 5. - Brown, Bingham, Forster and Northern Junior High schools. Inspector, Dr. H. M. Stoodley, 283 Highland avenue.

District No. 6. - Western Junior High, Lincoln, Highland, Cutler and Lowe schools. Inspector, Dr. H. Cholerton, 94 College avenue.

District No. \%. - Glines and High schools. Inspector, Dr. Edgar F. Sewall, 281 Broadway.

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

During the year, 17,337 children have been referred to the inspectors during their daily visits, and 672 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:-

Chicken pox . . . . . . 32
Infantile paralysis . . . . . 1
Influenza . . . . . . . 10
Measles . . . . . . . 38
Mumps . . . . . . . 72
Scarlet fever . . . . . . 17
Tuberculosis . . . . . . 28
Whooping cough . . . . . 11
Total
2. Diseases of the nose and throat:-

Enlarged tonsils and adenoids . . . 1014
Inflammatory diseases . . . . 190
Other abnormal conditions . . . . 19
Total . . . . . . . 1223
3. Diseases of the eyes:-

Inflammatory conditions . . . . 67
Foreign bodies . . . . . . 6
Other abnormal conditions . . . 22
Total . . . . . . . 95
4. Diseases of the ears:-

Inflammatory conditions . . . . 33
Other abnormal conditions . . . 12
Total . . . . . . . 45
5. Diseases of the skin:-

Eczema . . . . . . . 43
Herpes . . . . . . . 42
Impetigo . . . . . . . 133
Pediculosis . . . . . . 577
Scabies . . . . . . . 58
Tinea . . . . . . . 24
Miscellaneous conditions . . . . 157
6. Miscellaneous diseases:-
Diseases of the circulatory system . . 6
Diseases of the digestive system . . 55
Diseases of the lymphatic system . . 51
Diseases of the nervous system . . 17
Diseases of the respiratory system . . 199
Wounds and injuries . . . . . 57
Diseases of the teeth . . . . . 419
Other conditions . . . . . 37

Total . . . . . . . 841
Total number of diseases reported . 3447
Vaccinations performed . . . . 48
Examinations for vaccinations . . . 792
Certificate to work . . . . . 150

## Bacteriological Department.

The report of the work of this department is made by Frank L. Morse, M. D., on a subsequent page and becomes a part of this report.

## Undertakers.

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

## Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

## Health Nurses.

There are at present four nurses employed by this Board. Two of these are employed as school nurses and the work of the others, consists of follow-up work regarding tuberculosis cases and post-natal baby hygiene work.

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

> R. M. Lavender, Chairman, John E. Gillis, M. D. Warren C. Blatr, Board of Health.

Laurence S. Howard, Clerk.

## REPORT OF HEALTH NURSES.

Somerville, Mass.,<br>January 1, 1921.

## To the Board of Health, Somerville, Mass.

Gentlemen :-
We submit the following report of work performed by us in infant hygiene, post natal and tuberculosis cases for the year ending December 31, 1920.

## Infant Hygiene.

Infants reported as born in Somerville during 1920 . 1740
Infants born elsewhere resident in Somerville . . 263
Pairs of twins born in Somerville . . . . 21
Still-births in Somerville . . . . . . 64
Infants who moved away from Somerville . . . 102
Infants artificially fed before eight months old . 700
Infants artificially fed before six months old . . 500
Infants artificially fed before one month old . . 200
Infants afflicted with Ophthalmia Neonatorum . 17
Infants afficted with Conjunctivitis . . . 11
There were one hundred and fifty-two deaths of infants under one year of age in Somerville during the past year as shown in the following table:

| Causes of Death | Nationality of Parents |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\frac{\dot{x}}{\underline{E}}$ |  |  |  | 華 |  |
| Premature births.. | 18 | 15 | 6 | 2 | 2 |  | 43 |
| Contagious diseases | 18 | 20 | 3 |  |  | 5 | 46 |
| Congenital causes. | 16 | 17 | 4 | ... |  |  | 37 |
| Intestinal causes.. | 7 | 8 | 7 | ... |  | 4 | 26 |
| Totals.. | 59 | 60 | 20 | 2 | 2 | 9 | 152 |

Infants who died who were on breast feeding alone at time of death ..... 18
Infants who died who were artificially fed at time of death ..... 45
Infants who died who were both artificially and breast fed at death ..... 9
Boarding places for babies inspected ..... 12
Infants under medical supervision at the two Baby Welfare Clinics ..... 400
Total visits made to infants ..... 8709
Tuberculosis.
Pulmonary tuberculosis cases reported in 1920. ..... 164
Other forms of tuberculosis reported in 1920. ..... 20
Patients admitted to Sanatoria ..... 55
Patients previously reported in Sanatoria ..... 33
Deaths in Sanatoria ..... 52
Patients now in Sanatoria ..... 52
Patients who have moved away from the city ..... 25
Patients now living in Somerville ..... 288
Patients temporarily out of Somerville ..... 26
Deaths from tuberculosis ..... 69
In Sanatoria ..... 52
At Home ..... 17

Homes where there is or has been tuberculosis where there are school children
Previously reported ..... 199
Found this year ..... 54

Children in homes where there is or has been tuberculosis. Reported to School Department.
Previously reported360
Found this year ..... 95

Houses from which second and third reports of tuberculosis have come.
Previously reported ..... 22
This year ..... 23

TABLES SHOWING AGES AND SEX OF CASES IN THIS CITY. Pulmonary Tuberculosis.

| Ages | SEX |  | Total |
| :---: | :---: | :---: | :---: |
|  | Male | Female |  |
| Under fifteen years. | 11 | 8 | 19 |
| From fifteen to twenty years | 5 | 15 | 20 |
| From twenty to thirty years | 27 | 31 | 58 |
| From thirty to forty years... | 23 | 23 | 46 |
| Over forty years............ | 40 | 27 | 67 |
| Total | 106 | 104 | 210 |

Other Forms of Tuberculosis.

| Ages | Sex |  | Total |
| :---: | :---: | :---: | :---: |
|  | Male | Female |  |
| Under fifteen years | 5 | 7 | 12 |
| From fifteen to twenty | 5 | 6 | 11 |
| From twenty to thirty years | 5 | 10 | 15 |
| From thirty to forty years. | 4 | 4 | 8 |
| Over forty years.......... | $\because$ | 6 | 8 |
| Total | 21 | 33 | 54 |

Patients in Somerville Pulmonary 210 Other Forms 54 Suspects $31 \quad 295$
Total visits made to Tuberculosis patients
1012

## Miscellaneous.

Typhoid Fever cases reported (died 3) . . . 16
Total miscellaneous visits . . . . . 79
Recapitulation of Visits.
Baby Hygiene . . . . . . . . 8709
Tuberculosis . . . . . . . . 1012
Miscellaneous . . . . . . . . 79
Total visits . . . . . . . 9800
Respectfully submitted,
H. B. Berry,
M. L. Scott,

Health Nurses.

## REPORT OF DEPARTMENT OF MEDICAL INSPECTION.

Somerville, Mass., January 1, 1921.

## To the Board of Health, Somerville, Mass.

## Gentlemen :-

I herewith present the report of the Department of Medical Inspection for the year 1920 including statistics of the Contagious Disease Hospital.

## Visits.

Scarlet Fever - Each case must be inspected before release from quarantine to see that the condition of the patient is suitable for release.
Diphtheria - Before patients are released from quarantine two successive negative cultures must be obtained
Contagious Hospital
Total number of visits
Contagious Disease Hospital.

| Diseases | In Hospital Jan. 1, 1920 | $\begin{gathered} \mathrm{Ad}- \\ \text { mitted } \end{gathered}$ | Discharged Well or improved | Dead | $\begin{gathered} \text { In } \\ \text { Hospital } \\ \text { Jan. } \\ \text { 1, } 1921 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Diphtheria | 2 | 82 | 69 | 15 |  |
| Scarlet Fever | 4 | 58 | 59 | 1 | 2 |
| Tuberculosis | 15 | 30 | 22 | 14 | 9 |
| Miscellaneous | 0 | 15 | 10 | 4 | 1 |

The daily average of patients was 7.6 in the contagious department, 11.37 in the tuberculosis department, a total of 18.97.

## LABORATORY EXAMINATIONS.

Diphtheria.

| January |  |  | Diphther |  |  | Negativ | Positive | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | - | . | . | - | 94 | 31 | 125 |
| February | . | . | . | - |  | 72 | 3 | 75 |
| March | . |  |  | . |  | 79 | 6 | 85 |
| April | . | - | - | - | - | 79 | 22 | 101 |
| May | . | . | . | . | . | 43 | 15 | 58 |
| June | - | . | - | - | . | 39 | 12 | 51 |
| July | . | . | . | . | . | 55 | 4 | 59 |
| August | . | . | . | . | . | 28 | 2 | 30 |
| September | . | . | . | . | . | 25 |  | 25 |
| October | . | . | . | . | . | 30 | 0 | 30 |
| November | . | . | . | . |  | 70 | 4 | 74 |
| December |  | . |  |  |  | 107 | 12 | 119 |
| Totals | - | - | - | - |  | 721 | 111 | 832 |

Tuberculosis.
$\left.\begin{array}{lllllllll} & & & & & & \text { Negative } & \text { Positive } & \text { Total } \\ \text { January } & . & . & . & . & . & . & 18 & 13\end{array}\right) 31$

## Typhoid.



Examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhea and Pneumonia15

Total examinations
Respectfully submitted,
Frank L. Morse, Medical Inspector and Bacteriologist.

## REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass.,<br>January 1, 1921.

## To the Board of Health, Somerville, Mass.

## Gentlemen :-

I submit the following as my report for the year ending December 31, 1920.

## Inspections.

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

All the factories in the city have been inspected monthly.
The Barber Shops are under very careful inspection and must be kept in a sanitary condition and the barbers are required to keep themselves neat and clean and to properly sterilize their instruments.

## Number of Inspections.

| Bakeries | 284 | Premises where Cows are |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Barber Shops | 331 | kept |  | 10 |
| Billiard Halls and Bowling |  | Premises where Goa | ts are |  |
| Alleys | 157 | kept |  | 11 |
| Blacksmith's Shops | 17 | Public Halls |  | 31 |
| Candy and Ice Cream |  | Rendering Plants |  | 154 |
| Plants | 225 | Slaughter Houses |  | 421 |
| Factories | 242 | Stores and Markets |  | 5114 |
| Fish Markets | 586 | Stables |  | 272 |
| Hen Houses and Yards | 412 | Swine Pens |  | 26 |
| Lunch Rooms and Cars | 525 | Theatres |  | 142 |
| Milk and Cream Plants | 156 | Vacant Lots |  | 62 |
| Pedlers Wagons and Stock | 2449 | Yards and Cellars |  | 279 |

## Articles Condemned.

Owing to market conditions dealers have been obliged to purchase very conservatively and, therefore, no large surplus has been carried by any dealer.

The following is a list of the articles condemned.
Fish.
Clams
Finnan Haddie
Haddock
Halibut.
Lobsters
Mackerel
Salmon
Apples
Bananas
Blackberries
Blueberries
Canteloupes
Grape Fruit
Grapes
Lemons
Lemons
Oranges
Raspberries
Strawberries


Bush.
. . . . . 15 Doz
Blueberries . . . . . . 12 Qts.
Canteloupes . . . . . . 14 Crates
. . . . . $161 / 2$ Boxes
Lemons . . . . . . . 2 Boxes
Rang. . . . 16 Cups

Strawberries . . . . . 92 Qts.

## Meats.



## Vegetables.



## Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments and these plants were never in a more sanitary condition than at present.

The number of animals slaughtered during 1920 in this city was somewhat less than during previous years.


## Examination of Animals for Contagious Diseases.

 Glanders.There has been a steady decrease of glanders in this city for several years which I believe is largely due to a thorough inspection and disinfection of stables and blacksmith shops, and to the discontinuance of public drinking fountains for horses. Every stable and blacksmith shop in the city is in first class condition.

In 1913 there were 55 horses killed for glanders; in 1914 thirty ; in 1915 ten; in 1916 thirteen ; but eight of these were in one stable; in 1917 nine; in 1918 seven; in 1919 only three were killed and in 1920 not a case of glanders was reported, thus showing a very marked decrease in the disease.

Animals Examined.


Respectfully submitted,
Charles M. Berry, Inspector of Animals and Provisions.

## REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

Chemical and Bacteriological Laboratory, City Hall Annex

Somerville, Mass., January 1, 1921.
To the Board of Health,
Somerville, Mass.

## Gentlemen:-

I herewith present my annual report for the year ending December 31, 1920.

On the above date there were in this city licensed to sell milk, 490 stores and 50 dealers, and 145 stores to sell oleomargarine.

Of the 50 dealers 22 are located in this city and 28 in the neighboring cities and towns, and 3 dealers have discontinued business.

There are approximately 28,000 quarts of milk and 2100 quarts of cream distributed in Somerville daily, and 16 dealers are pasteurizing their milk according to Revised Laws Chapter 259 , Acts 1917.

Three dealers discontinued business, 3 new dealers (distributors) applied for a license and there are 6 dealers who handle cream exclusively.

Table 1.

| Months. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 19 | 9.50 |  | 9.50 | 12.00 | 21.50 |
| February | 9 | 4.50 |  | $4.50{ }^{\circ}$ | 2.00 | 6.50 |
| March | 13 | 6.50 | 3.00 | 9.50 | 18.50 | 28.00 |
| April. | 12 | 6.00 | 1.50 | 7.50 | 53.50 | 61.00 |
| May | 394 | 197.00 | 2.00 | 199.00 | 40.50 | 239.50 |
| June | 125 | 62.50 | 9.00 | 71.50 |  | 71.50 |
| July | 19 | 9.50 | 1.50 | 11.00 | 17.50 | 28.50 |
| August | 12 | 6.00 | 11.00 | 17.00 | 27.50 | 44.50 |
| September | 12 | 6.00 | 13.50 | 19.50 | 23.00 | 42.50 |
| October. | 29 | 14.50 | 1.50 | 16.00 | 22.00 | 38.00 |
| November | 28 | 14.00 |  | 14.00 | 6.00 | 20.00 |
| December | 13 | 6.50 |  | 6.50 | 22.50 | 29.00 |
| Total. | 685 | 342.50 | 43.00 | 385.50 | 245.00 | 630.50 |

Income from license fees, analytical work, etc.
Witness fees returned to City Treasurer
Fines in Somerville Court
Cotal income for department

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

| Months. |  |  | $\begin{aligned} & \text { تै } \\ & 0.0 \\ & 0_{0}^{*} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 100 | 80 | 16 | 196 | 22 | 218 |
| February | 155 | 43 | 71 | 269 | 4 | 273 |
| March | 212 | 33 | 35 | 280 | 36 | 316 |
| April. | 224 | 180 | 38 | 442 | 107 | 549 |
| May | 210 | 46 | 64 | 320 | 75 | 395 |
| June | 271 | 37 | 51 | 359 | 18 | 377 |
| July.... | 200 | 42 | 48 | 290 | 34 | 324 |
| August | 134 | 36 | 36 | 206 | 72 | 278 |
| September | 262 | 135 | 37 | 434 | 70 | 504 |
| October | $\because 17$ | 35 | 40 | 292 | 37 | 329 |
| November | $\because 44$ | 40 | 44 | 328 | 12 | 340 |
| December | 230 | 58 | 38 | 326 | 40 | 366 |
| Total. | 2459 | 765 | 518 | 3742 | 527 | $4269{ }^{\text { }}$ |

Table 3.

| Months. |  |  |  |  | $\begin{aligned} & \overline{9} \\ & =0 \\ & 0 \\ & =0 \\ & 0 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | $\stackrel{2}{2}$ |  | 17 |  | 19 | 21 |
| February | 8 | 4 | 3 |  | 15 | 19 |
| March | 6 | 2 | 3 |  | 11 | 8 |
| April. | 11 | 7 | 1 | 4 | 19 | 11 |
| May | 19 | 12 | 9 | 22 | 44 | 23 |
| June | 23 | 5 | 4 | 6 | 54 | 16 |
| July | 12 | 7 | 11 | 8 | 36 | 40 |
| August | 26 | 12 | 8 |  | 54 | 28 |
| September | 12 | 12 | 7 |  | 31 | 16 |
| October | 7 | 8 | 2 |  | 17 | 25 |
| November | 2 | 3 | 6 |  | 11 | 10 |
| December | 7 | 23 | 4 |  | 34 | 30 |
| Total... | 135 | 95 | 75 | 40 | 345 | 247 |

The above is a summary of the Laboratory Work during 1920.

Each month during the year pint samples have been taken from every milk dealer and analyzed for food value (fats and solids) and cleanliness (bacterial count and sediment) and the yearly average is shown in the alphabetical list of dealers which follows:


The higher the fat and solids the greater the food value. The lower the bacterial count, the greater care in production, better handling or more efficient pasteurization is shown. The analysis of special grades of milk supplied on request.

## Court.

In addition to the distributors fined, Carl H. Morgan, $2-4$, College Avenue, West Somerville, Manuel C. Rogers, 7 Union Square, Somerville, Herbert C. Woodward, 1297 Broadway, Somerville, conducting lunch rooms, were also found guilty.

## Summary of Court Cases.

| Watered milk | . |  | 4 |  |
| :--- | :--- | :--- | :--- | :--- |
| Not of good standard quality | . | . | . | . |
| Foreign substance . | . | 18 |  |  |
| $\quad$ Total | . | . | . | 4 |

## In General.

By comparing the average standing of the various dealers with last year's list, it will be seen that there has been considerable improvement in both average food value and bacteriological content.

Constant supervision, sampling and notifying, more efficient pasteurization and refrigeration with an energetic prosecution of all cases of violation, whether intentional or acciden tal, I believe is responsible for this improvement.

During 1920 it became necessary to inspect creameries in Maine, New Hampshire and Vermont as the nearby supply of milk failed and distributors were forced to purchase from creameries at a distance.

Creameries are run on a co-operative plan. The farmers in a district forming a creamery association, sending their milk to the plant where it is mixed with the milk produced at otherfarms in that district and shipped as whole milk to various points in New England. The surplus is utilized for butter and cheese and some skimmed milk is sold back to the farmers for stock feeding. This method has proven very satisfactory in some places.

Where the milk can be delivered promptly at the creamery it usually receives better care than it would at the individual farms, but constant supervision is necessary as routine work becomes irksome and carelessness often results, which can be promptly corrected if an inspector appears at unexected intervals.

During September it was found that farmers were sending milk to Somerville dealers that was below the legal standard for fat and solids (food value) so the collector was sent into the country to take samples from the individual dairymen. Samples were taken from over 150 farms and over 50 percent of the samples were found to be below the Massachusetts standard. The fact that a special law provides that, "Producers may not be prosecuted for low standard milk until two low samples have been found and that twenty days must elapse before the second sample can be taken," prevented prosecutions in these cases, but the fact that only two producers were found with low standard milk on a second visit speaks for itself. On the first visit two farmers were found to be watering milk. These cases were prosecuted, one in Concord, Mass., and one in Lowell, Mass., and in each case they were found guilty and paid a fifty dollar fine. On the second visit to these farms no adulterated milk was found.

## Infant Mortality.

For the past ten years a table has appeared in this report showing the steady decrease in infant mortality, i.e., deaths of babies under one year of age from enteric diseases. In the future this subject will be treated in the section deroted to the Public Health Nurses' report.

Respectfully submitted,
Herbert E. Bowman, Inspector of Milk and Vinegar.

## SUPPORT OF POOR DEPARTMENT.

```
Board of Overseers of the Poor.
    Fred E. Durgin, President.
Michael Coll, Vice-President.
    Henry F. Curtis, M. D.
                    Committees.
    On Finance, Investigation and Relief, and City Home
            Mr. Durgin, Mr. Coll and Dr. Curtis.
                                    Clerks.
.Josephine M. SANDER
                                Cora F. Lewis
General Agent.
William E. Copithorne.
City Physician.
C. Clarke Towle, M. D.
Warden and Matron, City Home.
Mr. and Mrs. J. Foster Colquhoun.
Office.
City Hall Annex, Highland Avenue.
```

To His Honor, the Mayor, and the Board of Aldermen of the ${ }^{*}$ City of Somerville :-

Gentlemen:-The Overseers of the Poor submit herewith. reports of the General Agent, the Warden of the City Homeand the City Physician, with tables showing the work.

Respectfully submitted,
Fred E. Durgin, Michael Coll,

Henry F. Curtis,
Overseers:
of the
Poor..

## REPORT OF GENERAL AGENT.

City Hall Annex, January 1, 1921.
To the Overseers of the Poor, Somerville, Mass. :-
Gentlemen:-The following as the report of the general agent for the year ending December 31, 1920, is herewith submitted:

## Table No. 1.

FULL SUPPORT (During the year).
In City Home (men 32, women 42) ..... 74
In City Home, December 31, 1920 ..... 40
In private families ..... 17
In hospitals for the sick in other towns, cities and state ..... 48
In care of state division minor wards (children) ..... 16
Table No. 2.
PARTIAL SUPPORT (Outside Rellef).
Families ..... 244
Persons aided (including hospital cases) ..... 1023
Burials ..... 10
Permits to State Infirmary ..... 7
Average expenses to the city for each (carriage for three) ..... $\$ 3.54$
Table No. 3.
AID UNDER 1913 LAW (Mothers' Aid).
Number of applications from widows or deserted women ..... 92
Number of families aided at close of year ..... 6.5
Number of children ..... 335
Amount allowed each family, from $\$ 4.00$ to $\$ 16.00$ per week
Number of out-of-town families ..... 19
Number having no settlement ..... 23
COST TO CITY.
Somerville settlement ..... \$15,941.17
Settled in other cities and towns (reside here) ..... 6,858.31
State ..... 4,159.06

Table No. 4.
REIMBURSEMENTS.


## Table No. 5. <br> SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS)

Patients having settlement in Somerville . . . 70
Patients having settlement in other cities and towns 27
Patients having no settlement (chargeable to State). 53
Total number of patients sent to hospital . . . 150
Amount paid to hospital .
\$7,779.29
Table No. 6.
POPULATION AND GROSS EXPENDITURES, 1900 TO 1920.

| YearPopulation <br> (Estimated) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1900 -*61,643 | (Misc. | \$23,697.62 | Home, | \$5,528.83) | Total | \$29,226.45 |
| 1901 - 62,500 |  | 29,171.15 |  | 6,622.43 |  | 35,793.58 |
| $1902-63,500$ | " | 28,667.04 | " | 7,396.64 | ، | 36,063.68 |
| $1903-65,500$ | " | 30,470.20 | " | 7,548.39 | " | 38,018.59 |
| $1904-69,500$ | " | 20,476.54 | " | 6,563.11 | " | 27,039.65 |
| 1905 -*69,272 | " | 17,527.88 | " | 7,474.36 | " | 25,002.24 |
| $1906-72,000$ | " | 18,237.53 | " | 6,806.79 | " | 25,044.32 |
| 1907 - 74,000 | " | 17,852.20 | " | 7,001.23 | " | 24,853.43 |
| 1908 - 75,500 | " | 17,955.34 | " | 6,875.56 | " | 24,830.90 |
| 1909 - 75,500 | " | 16,843.17 | " | 7,562.83 | " | 24,406.00 |
| 1910 -*77,236 | " | 16,110.42 | " | 7,695.89 | " | 23,806.31 |
| 1911 - 78,000 | " | 16,327.56 | " | 7,842.03 |  | 24,16. |
| $1912-81,000$ | " | 19,201.33 | " | 8,998.97 | " | 28,200.30 |
| $1913-82,000$ | " | 21,827.73 | " | 10,945.95 | " | 32,773.68 |
| $1914-85,000$ | " | 35,619.68 | " | 11,200.25 | " | 46,819.93 |
| 1915 -*86,854 | " | 45,490.98 | " | 11,218.65 | " | 56,709.63 |
| 1916 - 90,000 | " | 51,759.62 | " | 11,593.41 | " | 63.353 .03 |
| 1917 - 90,000 | " | 53,653.33 | " | 13,417.77 | " | 67,071.10 |
| 1918 - 90,500 | " | 63,420.48 | " | 15,411.20 | " | 78,831.68 |
| $1919-91,000$ | " | 67,682.53 | " | 15,789.34 | " | 83,471.87 |
| 1920 -*93,033 | " | 77,456.57 | " | 17,308.29 | " | 94,764.86 |

Table No. 7.
Expenditures in Detail for the Year 1920.

| 1920 | Cash <br> Allowance | Med. Att. and Medicine | Board. | Groceries. | Somerville Poor in other Cities and Towns. | Dry Goods <br> and <br> Shoes. | Burials. | Salaries. | Fuel. | Sundries. | Cash Paid Out | Telephone. | $\begin{aligned} & \text { Stationery } \\ & \text { and } \\ & \text { Printing. } \end{aligned}$ | Somerville Hospital. | State Institu tions. | Other Institutions. | Nursing. | Somerville <br> Poor in <br> other Cities <br> and Towns <br> 1913 Law. | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | \$177.78 | \$21.80 | \$187.86 | \$374.50 | \$529.95 |  |  | \$457.01 | \$478.13 |  | \$4,218.10 | \$7.64 | \$10.25 | \$292.86 | \$33.00 | \$48.25 | \$9.00 |  | \$6,846.13 |
| February ..... | 167.92 | 10.92 | 115.44 | 198.00 | 652.41 |  | \$72.00 | 424.72 |  | \$ 1.00 | 3,350.46 | 7.28 | 3.00 | 855.43 |  | 312.54 | 6.50 | \$152.00 | 6, ${ }^{\text {c29.62 }}$ |
| March. | 173.78 | 25.87 | 563.29 | 233.75 | 159.30 |  |  | 496.06 | 630.28 | 30.00 | 3,391.40 | 8.34 | 4.75 | 2,208.20 |  | 292.01 | 4.00 |  | 8,221.03 |
| April.. | 170.29 | 19.07 | 246.42 | 144.00 | 29.34 |  |  | 447.68 | 44.45 | 8.33 | 3,483.40 | 7.84 | 4.00 | 545.80 | 44.14 |  | 10.00 |  | 5,204.76 |
| May | 127.22 | 18.62 | 95.29 | 265.00 | 83.00 |  | 25.00 | 522.10 | ......... | 8.33 | 4,293.60 | 7.70 | 25.39 | 475.80 |  |  | 7.50 | 266.82 | 6,221.37 |
| June | 119.58 | 20.65 | 556.27 | 207.50 | 167.86 | \$5.50 |  | 447.68 |  | 8.33 | 3,438.90 | 7.94 | 31.46 | 663.40 |  | 311.99 | 2.00 | 169.73 | 6,158.79 |
| July. | 99.36 | 9.07 | 231.36 | 125.00 | 289.58 | 8.00 |  | 597.43 |  | 19.00 | 4,285.60 | 17.86 | 4.50 | 477.40 | 96.72 |  | 2.50 | 1,337.10 | 7,600.48 |
| August.. | 99.36 | 25.62 | 100.36 | 162.00 |  |  |  | 439.01 |  | 12.50 | 3,382.70 | 21.85 | 4.00 | 521.80 |  | 37.53 | 4.50 |  | 4,811.23 |
| September. | 97.58 | 30.04 | 604.27 | 292.00 | 288.48 | $\ldots$ | 105.00 | 481.01 |  | 16.50 | 3,530. 20 |  | 19.99 | 454.60 |  | 233.14 |  | 1,257.54 | 7,410.31 |
| October.... | 92.36 | 17.16 | 223.07 | 160.50 | 222.36 |  | 106.00 | 555.43 |  | 17.50 | 4,493.70 | 10.54 |  | 593.20 | 90.49 | 12.2 .85 | 12.00 |  | 6,717.16 |
| November | 90.58 | 11.35 | 103.57 | 178.00 |  |  | 62.00 | 481.01 | 307.15 | 17.50 | 3,591.30 | 20.96 | 3.00 | 438.40 |  | .......... | 6.00 | 743.87 | 6,054.69 |
| December. | 82.36 |  | 692.21 | 67.00 | 16.00 |  |  | 545.12 | 250.71 | 17.51 | 3,539.40 | 2.00 |  | 252.40 |  | ......... |  | 232.00 | 5,696.71 |
| Totals.. | \$1,498.17 | \$210.13 | \$3,719.41 | \$2,407.25 | \$2,438.28 | \$13.50 | \$370.00 | \$5,894.26 | \$1,710.72 | \$156.50 | \$44,998.76 | \$119.95 | \$110.34 | \$7,779.29 | \$264.35 | \$1,358.31 | \$64.00 | \$4,159.06 | \$77,272.28 |

## OVERSEERS OF THE POOR OF SOMERVILLE

Since the reorganization in 1885.

| †Hon. Mark F. Burns, chairman, ex-officio | 1885 | 1888 | lus |
| :---: | :---: | :---: | :---: |
| $\dagger$ Col. Herbert E. Hill | 1885 | 1889 |  |
| $\dagger$ Charles S. Lincoln, Esq., chairman | 1885 | 1887 |  |
| $\dagger$ Hon. Edward Glines | 1885 | 1887 | " |
| $\dagger$ Charles G. Brett (president 1888-1892) | 1885 | Apr. 1893 | " |
| Edward B. West (president May, 1894February, 1912) | 1888 | to 1912 | " |
| $\dagger$ Daniel C. Stillson | 1888 | Apr. 1892 |  |
| $\dagger$ Hon. Charles G. Pope, chairman ex-officio | 1889 | 1891 |  |
| $\dagger$ Nathan H. Reed (president 1893 to April, 1894. | 1890 | Apr. 1894 | " |
| $\dagger$ Hon. William H. Hodgkins, chairman exofficio |  | 1895 |  |
| $\dagger$ James G. Hinckley . . . . May, | 1892 | 1894 |  |
| $\dagger$ Albert W. Edmands . . . . May, | 1893 | Oct. 1918 | (Died) |
| $\dagger$ Herbert E. Merrill . . . . May, | 1894 | 1909 | inclusive |
| $\dagger$ 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* | nclusive |
| Philip Koen |  | Nov. 9, 1916 |  |
| Michael Coll . . . . November, | 1916 | to date* | " |
| Fred E. Durgin . . . . October, | 1918 | to date* | " |

Table No. 8. RECAPITULATION (Miscellaneous).
Expenditures and transfers . . . . $\quad \$ 77,167$
Reimbursements
07
28,947
71

Net cost to city
$\$ 48,21936$

[^8]Respectfully submitted, Wm. E. Copithorne, General Agent.

## REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1921.
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, 1920 :-
Table No. 1.
Number of weeks' board of inmates ..... 2,273-5
Number of males admitted during 1920 ..... 11
Number of females admitted during 1920 ..... 15
Number of males discharged during 1920 ..... 8
Number of females discharged during 1920 ..... 10
Number of males supported during 1920 ..... 32
Number of females supported during 1920 ..... 42
Number of males died during 1920 ..... 5
Number of females died during 1920 ..... 11
Number of inmates in home, December 31, 1920 ..... 40
City Home Hospital.
Number of weeks' board ..... 599-3
Number of patients admitted ..... 30
Number of patients in hospital, December 31, 1920 ..... 11
Table No. 2.
Reimbursements ..... \$9,916 33
Net expenditures .. . . . . . 7,391 96 ..... $\$ 17,30829$
Appropriation ..... \$17,318 00
Balance ..... 971
Respectfully submitted,
J. Foster Colquhoun, Warden.

## REPORT OF THE CITY PHYSICIAN.

> Office of the City Physician, Somerville, January 1, 1921.

To His Honor, the Mayor, and the Board of Aldermen :-
Gentlemen:-The work of your City Physician during the year 1920 is presented in the following abstract:-
Office consultations and treatments ..... 322
Total outside visits ..... $1138^{\circ}$
Confinements ..... 6
Vaccinations ..... 87
Visits at City Home ..... 120
Attended at police station ..... 22
Examinations:-
For legal department ..... 16
For highway department ..... 19
For police department ..... 31
For fire department ..... 18
For water department ..... 2
For pension ..... 10

Respectfully submitted,
C. Clarke Towle, City Physician.

## REPORT OF RECREATION AND PLAYGROUND COMMISSION.

January 1, 1921.
To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville, Massachusetts:

The Playground and Recreation Commission submits the following report for the municipal year just closed.

The Commission expended $\$ 5000$ during the last year, an increase of $\$ 1322.57$ over the expenditure of 1919 . It has conducted the work along the lines already laid down but has not started any new lines. Detailed information about the social center movement, the summer playgrounds, and the school gardens will be found in the statements prepared by the leaders of those enterprises, which are filed herewith. The careful reading of these reports will show that the work of the year has been conducted even more successfully than last year.

- The civic social worker has developed in the Clark Bennett School and in the Bingham School a social center movement of good promise. At both of these places, classes have been carried on in response to the needs of the community and entertainments of an interesting and instructive nature have been given at frequent intervals. These two schoolhouses have, through the agency of the social center work, given a larger measure of service to the community than ever before. Notwithstanding the fact that neither building has provisions designed for adult use, they have afforded a meeting place where the adults of the neighborhood have conducted these community undertakings with interest and benefit. While it cannot be said that the social center work was started during this last year, it is nevertheless true that its present development is due to the energetic work of the civic social worker, Miss Minnette Zuver, who was engaged by the Commission last March. She has been assisted by volunteers from the several women's clubs and by a number of paid workers. Prominent citizens have made addresses at the evening meetings and musicians have given their services as entertainers.

The summer playground work was conducted in as successful a manner as could be expected when it is considered that the amount of money spent for this purpose was but little in excess of the amount needed for the salaries of the instruc-
tors. The supervised summer playgrounds afford a safe place for young children during the vacation weeks. Mothers can trust their children to the care of the supervisors of the summer playgrounds with the assurance that the children will be safe and happy and in the way of learning useful rather than harmful things. In a city so crowded as Somerville with only the public parks as play spaces, it is most desirable that there should be these play centers for children on all of our public parks. The director of playgrounds asks for the provision of two additional instructors in order that two more supervi playgrounds may be opened this summer. The Commission hopes that this request can be met in order that a slight extension of the work may be made this year.

Despite very unfavorable spring weather which interfered greatly with spring planting and caused many farmers to abandon undertakings in large part, the school gardens were a decided success. The report of the supervisor shows that the value of the crops far exceeded the total cost of production. In addition to their economic value, the gardens have been a valuable means for teaching children to work. Inasmuch as the success of a garden is directly dependent upon the intelligent care which is given to its cultivation, the young gardener is compelled to know what he ought to do and how to do it if he wants to secure a good return. The relation between cause and effect is so obvious that even a child can see it. Consequently the child who works in a garden is forming a habit of doing well today's task in order to obtain a future benefit.

While this is a brief recital of the activities which have been conducted under the direction of the Recreation and Playground Commission, it does not embrace all of the agencies which have worked for the recreational welfare of the city, nor all of the recreational facilities which the city affords to its citizens. Among the former should be numbered the women's clubs of the city, which have supported social welfare work by generous contributions of money and personal service. These clubs have organized a ways and means committee under which each club is represented whose business it is to encourage and develop the civic social welfare work. This committee has kept open the Neighborhood House and has furnished money and workers for the social centers at the Clark Bennett and Bingham Schools. In connection with this report, there is filed a statement of the money which has been contributed by this organization. Another organization which has been of great assistance to the work is the Somerville Playgrounds Association. This association for many years has supported summer playground work and during the last year has contributed to
its support a generous sum of money. Churches of the city also have contributed both money and supplies to help summer playgrounds.

Without the help of these organizations, the Commission could not have given so large a service to the community. Had it been necessary to pay for the services rendered by the volunteers of these organizations, the total amount involved would have been beyond the resources of the Commission. It is the belief of the Commission that for the present, at least, the support of organized public recreation must come largely from private sources. It is the hope of the Commission, however, that as private interest increases and as the gifts from private funds grow, there may be a corresponding eulargement of the amounts which the city can allot for public recreation. One of the serious problems of urban life is a provision for the proper use of the leisure of adults as well as that of children. Any money which the community devotes to providing wholesome outdoor recreational opportunity for citizens is a sum well invested whose whole benefits accrue to the persons from whom the money is drawn and whose return is rich in happiness and contentment.

Other recreational opportunities which the city provides for its citizens are the public parks, playground areas, and the :Somerville Bathing Beach. While these undertakings are not directly under the control of the Commission, they are nevertheless allied interests which should be taken into account in any statement of the total of the city's recreational enterprises.

> Respectfully submitted,

> Charles S. Clark
> Supt. of Schools, Chairman

Mrs. A. H. Weeks<br>Mrs. Charles E. Mongan<br>Ernest W. Bailey, City Engineer<br>J. Foster Colquhoun, City Warden<br>George L. Dudley,<br>Commissioner of Pub-<br>lic Buildings, Secretary.

## REPORT OF THE CIVIC SOCIAL WORKER.

To the Members of the Recreation and Playground Commis-sion:-
When I started my work last March in Somerville about: 35 small boys, 15 girls and 3 young men were attending the Bennett Social Center. There were no boys above the age of: 16. At the Bingham Center there were 30 girls and no boys. The attendance has grown steadily. At the Bennett School Center there is now an attendance of 70 boys and young men between the ages of 16 and 24 , and an equal number of girls. There is an average of 60 boys and 60 girls in attendance at the Bingham School Center. In addition twenty or more non-Eng-lish-speaking adults have patronized these social centers. Thus. an average of 250 persons is reached and influenced each week, and occasional mass meetings make the number much higher.

The number of leaders and classes have also grown. There are now eight regular paid leaders, and at some times during the year twelve have been employed. An orchestra composed of three young men from the Bingham School Center is paid upon occasion for services at either center. Three volunteer workers: have at different times given their help by teaching sewing, dramatics and music.

Classes are now being conducted at the Bennett Social Center as follows:
For girls: in sewing, dramatics, aesthetic dancing, and physical culture;
For boys: in wrestling, modern dancing, basket ball, rope quoit, boxing and physical culture.

The following classes are being held at the Bingham Social Center:
For girls: modern dancing, millinery, dressmaking and nursing;
For boys: dancing and basket ball, including games with matched teams.

During the year three dramatic entertainments have been given by the young people themselves, and two bazaars for the sale of fancy work made by the girls have been held.

At the Bingham School Miss O'Neil held a millinery exhibition and sale. A course in citizenship lectures has been given at both centers and nineteen prominent citizens have volunteered for this work. At these meetings twenty musicians, eight vocal soloists, five readers, and ten representatives of ${ }^{-}$ women's club, have given their services.

These centers have been open an average of three nights each week and some times five nights a week, and large numbers of Greek, Italian and English-speaking residents have been reached. At the Bingham School rehearsals are being carried on for the presentation of the operetta"The Disagreeable Princess." Plans are being made for an Italian mass meeting to be conducted at the Bennett School. At a mass meeting held last Spring, seventy-five attended and of that number twenty later joined classes for the study of English. At a recent mass meeting for Greeks, of the fifty who attended, twenty-two joined such classes.

The Neighborhood House, which is run in connection with the social center work, has been open five days a week from March to July. It was opened again in November and since that time has been thoroughly renovated. During the year two matrons have been employed, at different times, and eight other persons have been engaged to teach cooking and sewing. The clubs of the neighborhood use this house for a meeting place.

The civic social center work is advancing steadily but we need more equipment and money to carry the work further. Added interest and co-operation on the part of the citizens of Somerville would be of valuable assistance.

> Respectfully submitted,
> Minnettre. Zuver,
> Civic Social Worker.

## REPORT OF THE DIRECTOR OF SUMMER PLAYGROUNDS.

To the Members of the Recreation and Playgrountl Commission of Somerville : -

In presenting my annual report of the activities of the summer playgrounds to your body, I desire to summarize the accomplishments of the past season, and to point out suggestions for the work in the future.

Grounds. Grounds were conducted on seven plots of the city during the summer of 1920 , the number and location being the same as at the close of the season of 1919. Because of existing conditions in the matter of equipment, it seemed advisable that the same grounds be operated as heretofore. In the opinion of the director this lay-out does not adequately meet the needs of the city, especially in the proportionate allotment of playgrounds to the density of population. In this regard I repeat again the recommendation made a year ago for the fitting out of the Athletic Field on Alewife Brook as a playground by the erection of swings, slides, and other apparatus. As an alternative for this recommendation I submit the plan of the early grading of the land behind the Western Junior High School and its adoption as a playground. Either of the above locations would be more suitable for play on a larger scale than the present Hodgkins School ground, which is the only playground in populous Ward 7. The Kent Street and Bennett Playgrounds are other locations in the city where more ample space is desirable. I am also of the opinion that the grounds on Central Hill Park should be opened as a quiet pla ground during the summer under supervision. The large number of children who frequent this spot in the warm weather, many of them accompanied by elders, would thus be provided with an opportunity for play and handwork, and at the same time it would help to accommodate the small children who live in the vicinity of the playground formerly located at the Bell School which had to be abandoned because of the erection of the Junior High School on that site.

The large number of girls at Richard Trum Park last summer would seem to warrant the employment of a lady supervisor for girls at that place hereafter.

Attendance. The season of 1920 was remarkable for the attendance on all of the playgrounds. From the best possible method of counting, the total attendance of the grounds for the
summer represented an increase over the year before of more than 10,000 individual visits to the grounds by children.

The good weather which prevailed throughout the seven weeks of the playground season undoubtedly is responsible for some of this increase. On the other hand the work of the playgrounds during the season seemed, in the opinion of the director, to run more successfully than ever before.

As noted in the report of 1919, larger children (i.e. those over sixteen years of age) seemed to have been entirely eliminated from the playgrounds. This has been true to such an extent that it has necessitated the re-arrangement of ages in the class for competition, such as baseball and track sports. I find that the same condition prevails in other communities which conduct playgrounds, and the indication is that boys and girls of this older group are, for the most part, finding summer em-ployment.

The figures for the season by grounds are as follows:


Finances. The budget allowed by your commission for summer playground work in 1920 was $\$ 1,722.50$. This was augmented by approximately $\$ 400$ from the Treasury of the Somerville Playgrounds Association, making a total expenditure for the season of a little more than $\$ 2,100$. Of this amount approximately $\$ 1,400$ was spent for salaries of supervisors, leaving a balance of $\$ 700$ for teaming, supplies, maintenance, extra labor, and the like. This latter amount while it has been sufficient for keeping the playgrounds active, does not allow any provision for more permanent equipment, or even the repair or replacement of what permanent equipment we now have. I suggest that it would be well for your Commission in making up its future budgets, to make provision for permanent equipment, for it must be horne in mind that the most of the frame work now on our public playgrounds has been in use for ${ }^{2}$
: a dozen years, and during that time has been exposed to the elements, and before long will have to be replaced.

It seems desirable also in alloting finances hereafter, to provide for a final demonstration such as was conducted this year on Lincoln Park. Had it not been for the money contributed by the Somerville Playgrounds Association, this feature could not have been carried out during the past season.

Another desirable provision for the future would be the addition of shelters on some of the grounds particularly at such open areas as the Richard Trum Playground. A start was made in this direction during the season of 1920 by the erection of a shelter at the Bennett School Ground from funds contributed by the Somerville Playgrounds Association.

To summarize the financial situation as based on the figures for the past year, I would recommend that in order to carry out the above recommendations even on a small scale, the allotment for summer playgrounds for another season should be at the minimum $\$ 3000$.

Supervision. The slight increase in remuneration advocated in my last report and granted by your commission showed its effect during the past summer. The extra inducement enabled the director to secure the services of more proficient supervisors, three of whom had previously been in service in Somerville, with the result that the success of the season can be attributed in some degree to this more efficient supervision. A comparison of the salaries paid in Somerville with those offered in other communities of greater Boston will show, however, that in proportion to the amount spent for supervisors the results obtained in our city will compare favorably with those of other places.

The one desirable object to be obtained from the standpoint of supervision is, as far as possible and within reason, to retain the services of desirable supervisors in order that the playgrounds shall continue in efficiency.

Meetings. Following the plan of previous seasons, meetings of the entire staff of supervisors were held at the High School at regular intervals during the season for the purpose of concerted action throughout the city and for exchanging plans which would prove beneficial for the different grounds. Such meetings are of valuable assistance in the conduction of the work, especially for such purposes as arranging the program for the final exhibition.

Equipment. I have already alluded to the future need of permanent equipment on the grounds. Almost every ground in the city could use additional swings. The swings on Broadway Park are in need of repair before the opening of the next
playground season. I suggest that the framework of the old: gymnasium on Lincoln Park might be utilized to furnish additional swing accommodations at that ground and perhaps. others in the city. The iron swing frame in the yard of the Bingham School which has not been used for some seasons may be in condition to be used if it can be transferred to the Richard Trum Playground. Slides would add much to the equipment of the Broadway Playgrounds and also Richard Trum Park. An unused slide in storage in the basement of the Union Square Branch Library could possibly be put into condition for use if sufficient funds are available. I have also referred to the desirability of adding shelters to some of the grounds. There should be drinking facilities on every playground and the wading pool at Trum Park should be placed in condition for use. With assistance from the City Engineer's Department some seats were placed at the Kent, Bennett, and Perry grounds during the past summer.

Handwork. For the first time in the history of Somerville Playgrounds the handwork was supervised by a person employed solely for the purpose. This was made possible by the co-operation of the supervisor of school gardens, an arrange ment being made whereby the same person was employed three days per week as handwork supervisor for the playgrounds and the remainder of the week as a canning instructor for the school garden organization. Heretofore it has been necessary to use one of the regular supervisors on part time for this purpose. The new plan proved a success over the former one, because it provided more frequent visits to the individual grounds by the person in charge and thus brought about more interest on the part of the children and a better finished product. It is hoped that such a plan of supervision can be adhered to in future seasons.

The original cost of operation for the handwork, exclusive of the salaries of the supervisors was borne by the Somerville Playgrounds Association, and whatever new material was provided during the season was furnished from the money obtained by the sale of the finished articles to the children on the grounds. In the opinion of the director this is also a desirable method of handling this portion of the playgrounds movement because it eliminates the undesirable feature of free distribution to the children at public expense.

Dancing. Folk-dancing, which has always been one of the principal activities on the girls' playgrounds was likewise conducted in a new and improved manner this past season. A special supervisor was employed to visit each ground and take charge of the dancing, whereas in previous seasons the super-
visor of the ground conducted this activity. Accordingly uniform instruction was provided with the result that at the close of the season the children were well prepared to present the dances for the demonstration. As noted before, however, the dancing in our city is greatly handicapped by the lack of musical accompaniment which is so essential to this particular feature of the playground program. The acquisition of a few used phonographs would greatly assist in this connection another season.

Games. At the outset of the 1920 season an effort was made to provide a series of playground games which would combine physical activity with enthusiasm on the part of the participants. It is believed that this objective was obtained in the games used on the grounds last summer. This is particularly true of the boys' grounds, and the best testimony of the above statement was given in the popular approval of the games and races displayed at the final demonstration of the season. As usual baseball received its share of attention, three mornings each week being devoted to the playing of inter-playground league games. These leagues were conducted in three classes as follows: Class A, boys under sixteen years; Class B, boys under thirteen; Class C, boys under eleven years of age.

Co-operation of the Public Library. One of the features of the past season which has proved both popular and educational was the use of each playground as a place of deposit for books from the Somerville Public Library. At the outset of the season the director arranged with the library management to secure a deposit of more than five hundred books suitable for both boys and girls of the playground ages. These books were divided into lots and placed on each ground and interchanged during the season so that the children had access throughout the seven weeks to the whole deposit. The best testimony of the popularity of this feature was evidenced in the interest displayed by the children in reading and their request for more books in succeeding seasons.

Co-operation from the Community. The custom of conducting outings during the summer for the children who visit the playgrounds was followed in the past season. This feature is very popular with the children and no season would be considered a success unless the children from each ground had at least one day's outing at some favorite picnic ground. The picnics conducted this season proved more popular than ever, probably due to the fact that in every case transportation to and from the grounds was furnished by several business men of the city who gave the use of their automobile trucks for the purpose. In the mind of the director nothing gave more satis-
faction to those who conductel the playground work than the ready response of these merchants to the request for the service of their machines. During the last three weeks of the playground season everyone of the seven grounds enjoyed its own picnic, and when one considers that the number of children who attended each ranged from one hundred to five hundred, it can readily be seen how many automobile trucks were furnished to accommodate the entire group.

A second evidence of how the playground links itself up with the community interests, is the fact that the prizes for all of the events conducted at the aforesaid picnics were given by the merchants who have places of business in the vicinity of the respective playgrounds.

In addition to the above, one hundred and fifty children from the Richard Trum and Hodgkins Grounds were the guests one afternoon of the management of Keith's Boston Theatre.

As has been remarked before, interest of the above sort is the best proof that playgrounds are well received by the people of the community. At the same time the thanks of the playground management is tendered to those who have helped to make a public undertaking sucressful.

Annual Demonstration. The annual demonstration of the playgrounds was conducted at Lincoln Park on Wednesday, August 18th. Taking advantage of the Daylight Saving which gave the opportunity for more adults to witness the events. the exhibition this year was held at twilight beginning at 6 p . $\mathrm{m}_{\text {. }}$, and finishing before $8 \mathrm{p} . \mathrm{m}$.

Approximately two thousand children from all parts of the city took part, each playground being well represented. It is estimated that about three thousand people witnessed the demonstration which consisted of folk-dancing, competitive games, races, drills, and exhibition games. An exhibit of handwork made by the children during the summer was also placed in a prominent position at the grounds. The competitions were all closely contested and the whole affair was conducted with such precision that it showed the training and efficiency of the playgrounds upon the children.

Recommendations. From close contact with the situation, I respectfully submit the following recommendations as means of improving our playgrounds system :

1. Early fitting out of High School Athletic Field or land in rear of Western Junior High School as a large playground for West Somerville.
2. Enlargement of Kent and Bennett Grounds.
3. Opening Central Hill Park as a playground for small children.
4. Employment of a supervisor for girls at Richard Trum Park.
5. Setting aside funds each year for permanent equipment.
6. Erection of shelters on grounds where needed.
7. Additional swings on all playgrounds. Repairing swings at Broadway Park. Using the frame of gymnasium at Lincoln Park for additional swings. Transferring swing frame at Bingham School to Trum Park.
8. Repairing broken slide for use at Broadway Park.
9. Use of wading pool at Trum Park.
10. Providing musical accompaniment for dancing.
11. Drinking facilities at every playground.
12. Extension of supervised play to the period after school hours.

Conclusion. In closing my report, allow me to frankly state that from the standpoint of co-operation the season of 1920 has been the most satisfactory of any I have experienced in my twelve years' connection with the Somerville Playgrounds. Cordial assistance has been rendered by the Chairman and other members of your Commission, by other departments of the city, and by the Somerville Playgrounds Association. The staff of supervisors and assistants worked constantly for the betterment of the playgrounds and the welfare of the children. The children themselves have co-operated to the best of their ability and have undoubtedly acquired considerable experience in the fundamentals of citizenship involved in organized play, i. e., submission to authority, team-work, loyalty, and regard for the rights of others.

Respectfully submitted,
Stephen H. Mahoney,
Director of Playgrounds.

## REPORT OF THE SUPERVISOR OF SCHOOL GARDENS.

To the Members of the Recreation and Playground Commission :
It is with pleasure that I submit to you my third annual report as your Garden Supervisor.

The year 1920 proved to be one of exceptional weather conditions which greatly affected work and the results obtained in gardening. Early in the spring we had continued rain which made some of the areas of ground used for School Garden purposes unfit for use until very late in the season. The piece of ground used by the Bingham School children at Lowell Street, we were forced to abandon after their garden had been completely submerged.

But to me the pleasant part of work with boys and girls is the fact that they often surprise the general public and older people, in particular, by showing ability to persevere and win out in spite of great difficulties. This was the case with the Somerville gardens the past season. In every instance but the one mentioned the gardens were brought through difficult and trying times on account of weather conditions, and made a fine showing both from the standpoint of general appearance and production.

Sixteen different schools participated in school garden work this season. There were a total of 365 children who cultivated public areas, given for their use by the City and private citizens, which covered a total acreage of nearly ten acres.

Your Garden Supervisor was employed by the School Committee during the winter months in giving instruction to boys and girls who were interested in gardening. Those who had a garden at home or else expressed a desire to have a school garden during the summer were organized into classes and were given practical lessons one periol each week in the classroom. In this way the children were better prepared than ever to start actual work when the planting season arrived. With the aid of one high school boy, supervision and help was given to the 365 children having school gardens; aid and assistance was also given to several hundred who carried on successful back-yard gardens at home.

The same general plan used in the past two years for the planting and care of all school gardens was continue 1 during the season of 1920. Children paid for the seeds and plants actually used in their individual plots. Everything raised was the property of the children and could be taken home and used
or sold. One half day was devoted by the supervisor to each garden area, and the children showed their interest and enthusiasm in this work by their prompt and consistent attendance during the entire garden season. Less than one half dozen gardens suffered from neglect out of the total of 365 .

In connection with this garden work arithmetic and spelling were linked through the use of a garden record book. The keeping of this record book by the children was made one of the garden requirements, and has proved to be a valuable means of stimulating an interest in the value and ways of marketing garden products. A careful analysis of these books by your garden supervisor after the close of the garden season has resulted in the gathering of some rather valuable and interesting information. The total value of all garden crops on school garden areas was $\$ 8,214.45$. Some of the books showed total receipts from their gardens, which in all instances were 300 square feet, of more than $\$ 20$. A schedule showing the amount and value of all the different kinds of vegetables raised in the school gardens is appended to this report. On every garden area wherever there was sufficient land a community plot was planted where sweet corn and winter squash were raised. Every boy and girl having a garden on this area did his part towards taking care of these two crops which were harvested by the supervisor and equally distributed among the children.

During the summer we received aid and encouragement from the Middlesex County Farm Bureau and State Department of Agriculture whose agents visited our city several times. The school children made exhibits again this year at the New England State Fair held at Worcester where they carried away the first prize, won in competition with 26 other cities and towns representing all parts of New England.

For the first time a County Fair was held in Middlesex County this year at Waltham. The Somerville School Gardeners again won first prize for their exhibit of garden products in competition with many other cities and towns in this county.

The raising and care of flowers is also included in garden work. On all school garden areas where there was sufficient suitable land flower seeds were planted and plants set out this year, and the children instructed in their proper care. They were also encouraged to plant flowers at home wherever a suitable place could be found and through this means I believe the general appearance of a great'many of the homes of this city were improved.

Early last spring the garden supervisor purchased a good
supply of vegetable and flower seeds and the same were disposed of to boys and girls through the public schools at cost, thereby placing in their hands only the varieties adapted to soil and climatic conditions in this vicinity.

This fall our garden areas were properly cleaned up by the children and the garden refuse disposed of. Most of these areas have since been plowed and dressing placed on them ready for use another year.

This year 56 children carried on canning operations at two canning centers. Through the courtesy and co-operation of the School Committee the basement of the High School and the cooking room at the Western Junior High School were utilized. One teacher was employed for the whole season of ten weeks and one other for a part of that time.

These children canned an average of 32 jars apiece with an average value of 40 c each, their products totaling in value $\$ 716.80$. Most of the materials canned were vegetables taken directly from their school gardens. which insured a good canned product because of the fact that they were freshly gathered and properly picked.

This useful form of summer work for boys and girls has gained in popularity very rapidly the last three or four years. Many other cities and towns now carry on canning operations on a very much larger scale than we have been able to do here in Somerville, and I would recommend that more equipment and better facilities be provided another year and two teachers hired to devote all of their time to this work.

Besides the actual work of canning the vegetables and fruits the children are taught to demonstrate and explain the work in its different stages. Two demonstration canning teams from Somerville participated in a competitive demonstration held at the Middlesex County Fair at Waltham, and at Jordan Marsh's Department Store in Boston, and a very favorable showing was made in both instances. A public exhibition of canned products was held in one of the school halls at which the general public were present, and a competent judge sent from the State Department of Agriculture to score and mark the work and results obtained by the children.

Concluding my report for the season of 1920, I desire to express appreciation of the service and valuable assistance rendered by heads of departments and city officials, with whom I have come in contact. Whatever success was accomplished in garden work was due to a large extent to the interest and enthusiasm and the actual work of the boys and girls themselves.

Respectfully submitted,
William B. Moore, Supervisor of School Gardens.

SCHOOL GARDEN DATA, SEASON 1920.


Season 1920.

## ESTIMATE OF AMOUNT OF CIROPS GATHERED AND THEIR VALUE.

Individual Plots.



## Cost of Canning Operations.

2 Teachers @ \$3.00 each per day . . \$9360
Total Cost to City
$\$ 3,01880$
Actual money profit from undertaking
$\$ 5,91245$

## REPORTS OF THE WORK OF ORGANIZATIONS ASSOCIATED WITH THE RECREATION AND PLAYGROUND COMMISSION IN THE PROMOTION OF THE RECREATIONAL ACTIVITIES IN SOMERVILLE

## Somerville Playgrounds Association.

The secretary of this association, Mrs. Mary F. Lincoln, furnishes the following report of the work of this organization for 1920 .

The Somerville Playgroumels Association, organized in 1909 to provide summer playgrounds, has since that time, in cooperation with the city, conducted supervised playgrounds during the summer vacation.

The Association feels that Somerville has now a well-established playground system, and that its methods compare favorably with those of other cities of its size and that it is only prevented by limited funds, from extending its work.

The Playgrounds Association has acted as a stimmlating force to assist and encourage all recreational activities in the city. It has for some time desired to broaden its work and to establish a year rom system. To carry out this idea, it has lent its aid towards the establishment of evening centers in school buildings, believing this to be the best kind o" Ameri canization work that could be done.

The Association is supported by donations from organizations and individuals and by annual membership fees. Among other amnual donations, eighteen women's church societies contributed this year toward the purchase of materials for sewing for the summer playgrounds.

The Association has this year been obliged to accept the resignation of the treasurer, Frank W. Kaan, who has hekd the position at our urgent desire since its formation, nleven! vears ago. His advice and help have also been of great value in many legal and legislative matters which have come before the orgnization.

We are still fortunate in being able to secure as treasurer, another valuable man, well known in Somerville, Frank M. Hawes, who is giving us much assistance.

Meetings of the Directors Board have been held at City Hall Annex on a Tuesday of each month from October to May, with good average attendance. The annual public meeting was held December 2, 1920, at the Y. M. C. A. rooms.

Field Day.- The one special event conducted under the auspices of the Playgrounds Association was a Field Day, or school athletic day, held on June 9, 1920. A vacation was granted by the School Committee and hundreds of children and their parents spent the entire day at Somerville Field.

Respectfully submitted,
Mary F. Lincoln,
Secretary.

SOMERVILLE PLAYGROUNDS ASSOCIATION INCORPORATED
Officers:
President: Hon. Albion A. Perry
Vice-President: Charles S. Clark
Secretary, Mrs. Charles P. Lincoln
Treasurer: Frank M. Hawes

## Directors:

Hon. Charles W. Eldridge
Mrs. A. H. Weeks
Mrs. George Whiting
Rev. James J. O'Brien
Mrs. Frank E. Bateman
Mrs. Charles E. Mongan
William P. Jones
Mrs. Gilbert Hood
Rev. Geo. E. Soper, D. D.
Mrs. F. E. Dickerman

Mrs. Geo. G. Brayley
Hon. Charles L. Underhill
Mrs. Walter A. Ladd
Mrs. Warren Dalton
Mrs. Henry C. Fish
Clarence R. Skinner
Mrs. James T. Mulroy
Frederick J. White
Mrs. Charles A. Landers

## Ways and Means Committee.

The Ways and Means Committee consists of twenty-seven women, representatives of the several women's clubs of Somerville and the Somerville Playgrounds Association and Associated Charities. Regular meetings are held on the second Thursday of each month at the home of Mrs. F. E. Bateman, 16:3 Highland Avenue. At each meeting, the civic social worker gives a detailed report of the work being carried on at the social centers and recommends certain things necessary for the improvement of her work. Members of the committee question, criticise, advise and plan ways and means to strengthen the work.

The chairman of the Ways and Means Committee, Mrs. S. C. Bateman, furnishes the following report of the work for 1920 :

The Ways and Means Committee introduced a new feature at the Neighborhood House this year in the person of a matron who kept the house open from 3 to $9: 30 \mathrm{p}$. m. each week day. Her duty was to keep order among the children who came in large numbers after school, to direct their games and to help them with sewing. With the help of Miss Belmont, a volunteer, she
aided the children in making small articles for a sale which was held in June. Four classes in cooking, three afternoon classes and one evening class, were conducted and instruction in sewing and dramatics was given. One cooking class entertained the mothers an afternoon with refreshments of their own cooking.

Last Fall the opening of the house was delayed by illness in the family of the house chairman. After the matron was employed, the children used the house as formerly, but of course classes were late in starting. At present there are several cooking and sewing classes being held and two dancing classes have just been started. In January a new matron is to begin work and we are expecting this undertaking to advance rapidly. Our new house chairman, Mrs. Perry, is a fine worker and deeply interested. The Neighborhood House we consider now as an auxiliary to the school center, gathering in the younger children in the afternoons and the older girls in the evening. These older girls are very anxious to use the building for social purposes in the evening, and with the proper supervision, they will be allowed to do so.

Lack of money is our chief hinderance, but the women have raised a considerable amount of money for the work during the past year. We are doing the best we can with what we have, and although figures cannot be used to show what is being accomplished, the influence of the work is certainly being felt in the neighborhood.

S. C. Bateman,<br>Chairman Ways and Means Committee.

## STATEMENT SHOWING THE AMOUNT EXPENDED FOR RECREATION DURING 1920.

## By City Government and Various Other Private Organizations.

Recreation and Playground Commission
$\$ 5,00000$
Engineering Dept., Maintenance of Parks 11,299 89
Engineering Dept., Maintenance of Playgrounds
Public Bldgs. Dept., Maintenance of Park Bldgs., . . . . . . .
Public Bldgs. Dept., Maintenance of Bathhouse . . . . . . Public Bldgs. Dept., Maintenance of Bandstand
Public
Public Bldgs. Dept., Bingham Social Center . 1,634 98
Celebrations

| Total expended by City Government | . | . | 930 | 04 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Somerville Playgrounds Association | . | . | 680 | 13 |

Ways and Means Committee . . . 68013
Total expended by outside organizations
Total amount expended for recreation
$\$ 29,66125$

## REPORT OF THE PLANNING BOARD.

## December 31, 1920.

## To His Honor the Mayor and Board of Aldermen.

 Gentlemen:In accordance with the provisions of the Acts of 1913, and as required by Section 2 of Chapter 494 of said Acts, the Planning Board herewith respectfully submits its annual report, and recommendations for the year 1920.

The Board organized for the year by re-electing William F. Riley, Chairman, and David J. Kelley, Secretary, the other members of the board being George J. Rauh and Paul R. Valentine At the time of meeting for organization there was a vacancy existing, caused by the resignation of Harrison L. Evans.

During the year the Board held several meetings and discussed various matters of interest to the citizens, and after consideration thereof it was voted to make the following recommendations;

## Housing Conditions.

During the past year the problem most in the minds of the: majority of our citizens has been the serious shortage of houses. This situation has been state wide, and has received the attention of the Legislature, resulting in the passage of laws tending to help relieve the existing conditions, but a serious shortage of houses still continues.

Although the Plamning Board has no jurisdiction affecting this economic condition it respectfully calls attention to the authority given it by the Act of the Legislature creating it, which defines its duties to be chiefly "to make careful studies of the resources and needs of the city, particularly with respect to conditions injurious to public health - in and about rented dwellings."

The Planning Board is ready at any time to investigate any complaints made to it tending to prove that conditions exist which may be detrimental to the public health due to the present housing shortage, and recommends that all complaints from citizens alleging that such conditions exist, be referred to it for investigation and report.

## Bridge Street Widening

The urgent and increasing necessity of some action with reference to the widening of Bridge Street becomes more ap-
parent each succeeding year. The Plaming Board believes that some solution for the dangerous condition due to the narrowness of this public highway should be determined upon by a joint conference of a committee from the Board of Aldermen of our city and the City Council of our neighboring city of Cambridge.

The worst part of Bridge Street, that is, the part which needs widening, is practically all located within the boundaries of the City of Cambridge. At the last conference held by the Planning Board with the Cambridge Planning Board about two years ago, the opinion of the Cambridge City government was that it should not be called upon to spend money for an undertaking which would chiefly benefit Somervillé.

As recommended in the reports of 1916, 1917, 1918 and 1919 the Planning Board again strongly urges that some definite action be taken to remedy this condition before the property now abutting on that part of Bridge Street is increased in value. At present the old houses now standing are nearly all unoccupied, and if the widening could be undertaken during the coming year it would result in a large saving for damages due to the taking based on the present assessed raluation of this property.

## Street Car Service.

It seems that the street car service still needs a great deal of improvement. The so-called one man cars now in operation are unsuitable, and their operation during rush hous should be prohibited by the Public Service Commission. The Planning Board is mindful of the fact that the Mayor and Board of Aldermen have continually and consistently tried to improve the street car situation, and recommends that these efforts be continued until better results are apparent. Somerville has no socalled jitneys and their exclusion entitles this city at least to additional accommodations, especially when our citizens are being taxed to secure better street car service and more cars.

## Public Parks and Buildings.

The development of social centers in the various schoolhouse districts should be encouraged, and our citizens urged to make use of the school buildings for social entertainments, thereby fostering an interest in civic affairs and helping to make better citizens.

The school buildings are public buildings, an as such the Planning Board recommends that they be freely used by all our citizens for neighborhood gatherings and public meetings or entertainments.

The Planning Board again suggests that the land owned by the city known as the City Ledge be graded and laid out as a playground for the benefit of the Clarendon Hill section oí our city.

## Fire Protection.

As recommended in our report for 1919 the Planning Board again respectfully calls your attention to the necessity of establishing Fire Districts in our city. The conditions existing last year still continue and the Planning Board is of the opinion that something should be done while new building is at a standstill to establish fire districts. Somerville is practically the only city in the Metropolitan District without an ordinance establishing fire districts. Somerville should not delay longer in passing an ordinance of some kind to establish fire districts. Therefore the Planning Board recommends that a committee be appointed to draw up a plan, dividing the city into fire districts, and that an ordinance be drafted by the City Solicitor for the purpose of establishing the fire districts so decided upon.

## Appropriation.

The Planning Board did not use the whole of the appropriation allotted to it because it did not wish to attempt to carry out plans which it would be unable to pay for out of the limited sum given. It hopes to add to its equipment from time to time, so that eventually it will be able to render valuable service to the citizens of the city and the city govermment.

During the past year it has corresponded with many cities in several states, and has information in its files with re"erence to industrial facts which may be of value to our citizens. It has also furnished information concerning Somerville to other cities of the country and recommends that inquiries concerning Somerville industrial sites be referred to it for attention.

The Planning Board respectfully requests that it be given an appropriation of at least $\$ 200$ this year, so that it may be able to make further progress in its effort to be of service to the citizens of Somerville.

## Respectfully sulomitted,

William F. Riley, Chairman
George J. Rath
Paul. R. Valentine
Dayid .J. Kelley, Secretary

## REPORT OF THE CITY ENGINEER.

Office of the City Engineer, City Hall, Somerville, January 17, 1921.

To His Honor, the Mayor, and the Board of Aldermen : -
Gentlemen, - In accordance with the city ordinances, the following report of the work done and expense incurred for the year ending December 31, 1920, by the Engineering Department and appropriations under my charge and supervision, including the accounts of city engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented:-my twentyfifth annual report as city engineer.

## ENGINEERING DEPARTMENT.

In previous reports the general work, charter requirements and city ordinances relating to the duties of the city engineer have been fully described.

On account of the excessive cost very little new construction work has been attempted, the greater part of the work done, being for repairs and maintenance in the various divisions.

| Divisions | Appropriations | and Credits | Expenditures | Balances |
| :---: | :---: | :---: | :---: | :---: |
| City Engineer | \$15,835 00 | 90400 | \$16,785 36 | \$3 14 |
| Parks Maintenance | 10,500 00 | 80000 | 11,299 89 | 11 |
| Playgrounds Maint. | 5,160 00 | 15013 | 5,309 82 | 31 |
| Sewers Maintenance | 23,435 00 | 7979 | 23,514 26 | 53 |
| Sewers Construction | 4,784 75 | 5047 | 4,834 60 | 62 |

(Expenditures are shown in detail in the City Auditor's amnual report).

CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENSES, 1920.
Sewers, - comprising surveys, estimates, profiles, lines,
grades, titles, plans, assessments and all engin,eering
work relating to sewers and supervision
Highways, - comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department .

2,947 78
Sidewalks, - comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments 96378
Water Works, - comprising lines, grades, locations of mains, gates, hydrants and services and other matters relating to the department .
Parks and Public Grounds, - comprising surveys, plans, estimates, profiles and grades, including laying out of parks, playgrounds, boulevard and supervision ..... $1,060 \quad 49$
Public Buildings, - comprising surveys, estimates, lines and grades, and other work relating to construction and laying out of grounds ..... 24168
Street Numbering, - comprising locations of buildings, plans, assigning street numbers ..... 66278
Street Lines and Grades, - comprising establishing of lines, grades, and miscellaneous data given parties for building and grading ..... 25574
Bridges and Grade Crossings, - comprising surveys, plans, profiles, estimates, lines and grades, etc. ..... 25634
City Survey, - comprising establishing of street lines, ac- ceptance plans, and miscellaneous survey work for city map, etc. ..... 1,38780
Middlesex Registry, - comprising copying of plans, and ab- stracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and sewer taking plans filed for record ..... 23020
Private Corporations, Railway, Telephone; Electric Light and Gas Light Companies, - comprising grades, plans, profiles and office notes, locations of poles and con- duits ..... 36592
Setting Stone Bounds and Brass Rods, - defining street lines ..... 51596
Office work, - comprising record of all locations, index- ing, typewriting, bookkeeping, calculations, reports, and general draughting ..... 3,50206
Miscellaneous Work, - comprising preliminary surveys, designs, sketches, etc., relating to various schemes for different committees ..... 61754
Holidays, Vacations and Sickness ..... 1,039 65
Guard duty ..... 2234
Total$\$ 16,73586$

Value of field instruments, tools and office instruments, $\$ 2,000.00$.

The total cost of maintaining the Engineer's Division since it was established, 1872-1920, both years inclusive, has amounted to $\$ 410,090.00$.

Seven assistants have been employed during part of the year and six assistants the entire year, on engineering work.

A number of plans were made during the year for street acceptance and four streets have been accepted as public highways, under the betterment act.

There are plans for acceptance of fourteen private streets on file in this office, that for various reasons have not been made public ways.

Many streets and avenues in the city are of the same, orvery similar, name and could be changed at the present time
(renamed in memory of deceased veterans of World War) eliminating the confusion now existing.

Some of the old main thoroughfares should be re-numbered their entire length, so as to eliminate half numbers and letters now being used; and certain streets where traffic is congested should be made "one way" streets.
STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1920, UNDER THE BETTERMENT ACT.

| Date of |
| :--- |
| Acceptance |
| May $\quad 28$, |
| November 17, |
| November 1920 |
| Nove |
| June |
| June |


| Length |
| :---: |
| in ft. |
| 293 |
| 387 |
| 271 |
| 673 |
| 1624 |

Width
in ft.
22
$21-32$
40
20
3

芫
From
Linden Avenue
End of Accepted
Broadway Avenue
Highland
芫 0 H-
Spring Hill Terrace
Total
Name of Street
Name of Stree
Cedar Avenue
Crescent Street
Cedar Avenue
Crescen't Street
Dickson Street

Supplement to the Table of Streets in the 1919 report of City Engineer.

New streets or courts added during 1929.


Four private streets changed to public ways during 1920 (foregoing table) 1,624
(Summary) Total 446,707 85,5:90.
Public, 84.603 miles (includes 1.40 g miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard' (Metropolitan Park Commission), and 1.596 miles State Highway) ; private 16,210 miles.

Total length of streets in the city 100.813 miles.
In the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city. (Name of Oak Square changed to Wilson Square).

## Length of Public Streets In Each Ward.



Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench: Marks" throughout the city for giving grades.

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and in the reports of $1908,1910,1911,1913$, 1919, and with the following table will show location of all bounds set to 1921 .
BETTERMENT ACT.
Date of
Acceptance
May 28,1920
November17, 1920
November 12, 1920
June $\quad 28,1920$

| Length |
| :---: |
| in ft. |
| 293 |
| 387 |
| 271 |
| 673 |
| 1624 |



-
part
From
Linden Avenue
End of Accepted
Broadway
Highland Avenue
?
Name of Street
Cedar Avenue
Crescent Street
Dickson Street
Spring Hill Terrace
Total
STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1920, UNDER TH

Supplement to the Table of Streets in the 1919 report of City Engineer.

New streets or courts alded during 1929.

| Street | From | To | Public or Private | Width in Feet | Length <br> lic Private |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Court | Washington ave | Franklin are. | Private | 6 | 95 |

Four private streets changed to public ways during 1920
(foregoing table) 1,624
(Summary) Total 446,707 85,590.
Public, 84.603 miles (includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway) ; private 16,210 miles.

Total length of streets in the city 100.813 miles.
In the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city. (Name of Oak Square changed to Wilson Square).

## Length of Public Streets In Each Ward.



Stone bounds have been reset in Portland cement concrete at a number of street intersections and angles, to define and preserve the true lines of public streets, and this work should be continued as much as possible each year. These bounds are also of great convenience in establishing permanent "Bench: Marks" throughout the city for giving grades.

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds ; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and in the reports of $1908,1910,1911,1913$, 1919, and with the following table will show location of all bounds set to 1921.

## STREET BOUNDS SET IN 1920. (Brass rods set in cement).

Belknap Street, - East side at Broadway X 2 foot offset lines.
Clarendon Avenue, - Elast side at Broadway X 2 foot offset lines.
Clarendon Avenue, - East side at Cambridge City line X 2 foot offset line of Clarendon Ave. and True City line.
Conwell Avenue, - South side at Curtis St. X 2 foot offset lines.
Conwell Avenue, - South side at North St. X 2 foot offset lines.
Cooney Street, - East side at Line St. X 2 foot offset lines.
Dane Avenue, - South side at Leland St. X 2 foot offset lines.
Dane Avenue, - South side at Dane St. X 2 foot offset lines.
Derby Street, - North side at Grant St. East side X 2 foot offset lines.
Derby Street, - North side at Wheatland St. X 2 foot offset lines.
Foskett Street, - North side at Liberty Ave. X 2 foot offset lines.
Glendale Avenue, - North side at Cameron Ave. X 2 foot offset lines.
Josephine Avenue, - West side at Morrison Ave. X 2 foot offset lines.
Josephine Avenue, - West side at North side of Kidder Ave. X 2 foot offset lines.
Josephine Avenue, - West side at Broadway X 2 foot offset lines.
Linden Avenue, - East side at North side of Summer St. X 2 foot offset lines.
Malvern Avenue, - North side at Cameron Ave. X 2 foot offset lines.
Malvern Avenue, - North side at Yorktown St. X 2 foot offset lines.
Meacham Street, - North side at West side Fremont St. X 2 foot offset lines.
Ossipee Road, - North side at Curtis St. X 2 foot offset lines.
Ossipee Road, - North side at West side Packard Ave. X 2 foot offset lines.
Ossipee Road, - North side at East side Packard Ave. X 2 foot offset lines.
Raymond Avenue, - South side at Curtis St. X 2 foot offset lines.
Raymond Avenue, - South side at North St. X 2 foot offset lines.
Seven Pines Avenue, - North side at Cameron Ave. X 2 foot offset lines.
Taylor Street, - East side at Sydney St. X 2 foot offset lines.
Victoria Street, - West side at South side of Woodstock St. Stone Bound drilled.
Wigglesworth Street, - East side at South side of Otis St. Stone Bound set at X 2 foot offset lines.

There are at the present time a total of 657 bounds or brass rods set for defining street lines.

Three new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestones, a total of $1,5: 21$ feet (. $\because 9$ mile) ; the work being done by contract.

The average cost of this type of construction complete, for a forty-foot width street, was $\$ 9.35$ per linear foot, a high rate, on account of the unusual cost of materials and labor.

Assessments have been levied on abutting property owners for approximately one-half of the cost of constructing these streets.

New granite block pavement has been laid on a concrete base with a cement grout in sections of Linwood Street and Beacon Street - also Windsor Street and Hunting Street
have been constructed with this type of pavement. 8,100 square yards ( 2,304 feet in length) were constructed by contract at $\$ 7.10$ per yard complete; including Fitchburg Street (a private way) where the property owners paid the entire expense of paving.

In constructing the granite pavement, new streets and sidewalks 4,300 feet ( 0.81 mile) of new edgestone were set.

The total length of permanent paved streets in the city amounts to 17.64 miles.

Permanent street pavement should be extended as rapidly as possible, using old granite block, re-cut and laid on a concrete base, the best and most economical pavement for this city.

Grades were given and measurements taken for the re-construction of twenty-four streets with a bituminous wearing surface, a length of 16,906 feet ( 3.2 miles).

## TABLE OF STREET CONSTRUCTION.



* Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.
** Includes 0.42 mile state highway.
$\dagger$ Includes 1.16 miles of state highway.
$\ddagger$ Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

There are a number of very dangerous crossings in this city at intersecting public thoroughfares, where the corners should be cut back and the roadway widened for the safety of traffic and improvement in appearance.

Lines and grades were given for constructing ten new granolithic and brick silewalks, 3,737 square yards ( 0.8 mile). and assessments computed, the abutting property owners paying one-half the cost.

In laying out new work, under orders passed for construction of sidewalks, etc., occasionally portions of buildings and fences are found to be encroaching on the sidewalk and on some of the old rangeways these encroachments have existed :or many years; as improvements are made, the full width of sidewalk should be maintained.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in place of brick.

Miles of Edgestone, Granolithic, Gravel and Brick Sidewalks In Each Ward.
\(\left.$$
\begin{array}{lcccc} & & \text { Eravel } \\
\text { Edgestone }\end{array}
$$ $$
\begin{array}{c}\text { Brick } \\
\text { Sidewalk }\end{array}
$$ \begin{array}{c}Granolithic <br>

Sidewalk\end{array}\right]\)| Sidewalk |
| :---: |

(Details, etc., streets and sidewalks in report of Street Commissioner).

The Boston Elevated Railway Company have petitioned for a relocation of tracks in certain streets and has made extensive repairs in its roadbed in this city during the past year, replacing long sections of old tracks with new an lhearier rails. There are, however, a number of miles of trackage, orders having been granted for widening in the city's main thorongh"ares. where the old granite block pavement, within the railroad ?ocation, should be relaid and gronted with cement and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heary storms. There are 32 miles of electric railroad (single track langth) at the present time in the city's streets. A considerable length of high power cables have been placed in undergroun I conduits.

Plans have been made by the rarious companies and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city, which have been granterl 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.

A special ordinance should be enacted concerning city inspection on all underground work done by private companies or corporations and regulation as to method of street openings.

At the present time there are underground in the city's streets 17.64 miles of telephone conduits, 12.42 miles of electric light conduits, 1.65 miles of electric railway conduits; and about 9.7 miles of underground conduits used for the city's. wires.

The Cambridge and Charlestown gas companies have respectively 63.42 and 28.1 miles of gas mains in the city's streets.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc., have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled. (Length of water mains, details, etc., in report of Water Commissioner).

Lines and grades have been given for the erection of city buildings and plans and sketches made for the laying out of surrounding grounds.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute and special plans and data prepared for the city solicitor's use in court cases and Federal, State and Municipal hearings attended where information was required.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, havebeen copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and schedules of assessments made out showing the property owners.

Total number of plans on file in the office approximately eight thousand two hundred.

A skeleton map of the city has been made for the Somerville Board of Trade showing steam and electric car lines. principal streets, public buildings and locations of principal industries: - also a street map for the American Automobile Association showing the various routes for auto traffic through the city, details of pavement, land marks, etc.

A plan and data has been compiled showing a proposed widening of Bridge Street (East Cambridge) being the exten-
sion of Somerville Avenue: - a much needed public immorement for relieving the present congested traffic and business.

Lines and grades were given and a concrete foundation constructed for the monument erected in Union Square in memory of the (ward two) World War veterans.

Considerable information and data has been prepared for the Somerville Civic Survey report.

Perambulation of the Somerville-Cambridge city boundary line: - In December, a committee appointed from each city, city engineers and street commissioners) examined the monuments and reference points defining the division line between these two cities and reported their findings in due form to the board of aldermen. The granite bound No. 10 is to be cut off to the Beacon Street sidewalk grade and bound No. 19 is to be raised to the surface of lawn at estate Russell Street.

These boundary lines are perambulated every five years as prescribed by the statutes.

Several conferences were held by representatives of the city governments (including city engineers) of Somerville and Medford relative to the changing of the boundary line between the two cities, but no definite action was taken by either municipality. From the various studies presented, an exchange of territory can be made that would be equally advantageous.

For the immediate improvement of conditions in this city the highway bridges and approaches over the steam railroads should be re-built the full width of the street at Broadway, (North Somerville) Prospect Street and Washington Street, near Union Square; and the steam railroad bridge over Washington Street (East Somerville) re-constructed with increased head-room for street traffic. - the dangerous grade crossing at Park Street should be abolished, as decreed by the courts a number of years ago, and a foot-bridge should be constructed over the railroad tracks making a connection between Wilson Square-Craigie Street and Stanford Terrace-Beacon Street.

I respectfully refer to some of the more important recommendations and suggestions made in reports of the city engineer for a number of years past which are for the improvement of conditions in this city.

## SEWER DIVISION.

The high cost of materials and labor has prevented the extension of the "separate system" sewers and likewise storm drain construction work, except that absolutely necessary.

No sewers have been petitioned for during the year and only a small amount of new construction work has been done.


The Elmwood Street and Conwell Avenue storm drains commenced in 1919 have been completed and future extensions will provide for the disposal of storm water from two large areas in the westerly part of the city.

This work has been done by the city employing day labor; 520 feet of $12^{\prime \prime}$ pipe laid during the year.

One sewer was constructed during the year, a length of 206 feet of $10^{\prime \prime}$ and $8^{\prime \prime}$ pipe, being the extension of a private sewer in Windsor Street southerly to near the Cambridge line; this work was done by the contractor, who was paving the street.

The total length of the city's drainage system is 113.247 miles, and the entire cost of construction has amounted to about $\$ 1,356,538.00$, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

The city's assessment for the Metropolitan sewerage system for the past year was $\$ 53,381.08$ on construction account and $\$ 36,558.18$ for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been $\$ 1,501,206.05$ (1892 - 1920, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

There are within the city's limits thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912 report, and details of construction in previous reports.
STATEMENT OF SEWERS AND STORM DRAINS CONSTRUCTED TO 1921.


* (32.344 miles separate system sewers).

The 1918 report contains a compiled table of Storm Drains constructed to 1919 showing length, cost, date of construction, district benefited, etc.

Sixteen catch basins have been constructed in the highways during the year, making a total of 1,980 basins in the city for drainage purposes, constructed and maintained as follows : -

> Total catch basins in the city for storm drainage purposes

The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow, and storm drains completed in certain localities as previously recommended: - especially in the North Somerville district, - and at the East Cambridge line extending from the Somerville Avenue sewer and discharging into Miller's River.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work com pleted.

MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1920.

Maintenance of sewers, including cleaning and flushing ( 113.25 miles)
$\$ 4,63340$
Maintenance of catch basins, cleaning and flushing 1,880 )

14,756 56
Maintenance of storm water pump, Medford Street

9677
Changing line and grade and repairing catch basins . . . . . 60800
Changing line and grade and repairing manholes . . . . . . 41467
Repairing old sewers . . . . 63883
Inspection and location of house drains . 1,048 35
New tools and supplies . . . . 30814
Repairs of tools and property . . . 6955
Maintenance of sewer division yards . 83875
Telephone

| Labor, teaming and materials for oth departments |  |  |
| :---: | :---: | :---: |
| Total expenditures |  | \$23,514 26 |
| Transferred to Parks division (\$800) |  |  |
| City Engineer Account (\$590) |  | 1,390 00 |
| Total |  | \$24,904 26 |
| Credit. |  |  |
| Appropriation (\$23325) (\$1500) | \$24,825 00 |  |
| Received from other departments | 7979 |  |
| Total credit |  | \$24,904 79 |
| Balance unexpended |  | \$ 53 |

Value of tools and property on hand in maintenance of sewers, $\$ 2,500.00$.

A permanent force of men, varying in number from twelve to seventeen, and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins. etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumps. These dumping places are fast diminishing and in a very few years' time some other means of disposal will have to be provided.

Approximately 5,600 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of about $\$ 2.64$ per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about $\$ 171.21$. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning per basin has been $\$ 7.85$ the past year.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and manholes have been repaired and grade or line changed.

One hundred and five permits have been issued to licensed drain layers for connecting buildings with main sewers and storm drains, seventy-two being for repairs or alterations: all of the work being done under the supervision of the city's inspector.

Certain persons are licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 16,556 private house drain connections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies furnishing materials and labor, and being partially reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

## PARKS AND PLAYGROUNDS DIVISION.

Under this division about seventy-five acres are maintained as parks and playgrounds, and approximately a mile of city boulevard; 65.5 acres are owned by the city and certain areas owned by private parties are turned over to the city for recreation purposes, also satisfactory arrangements have been made for a number of years whereby the city has the use of Tufts College playfield during the summer vacation months, ant skating areas in the winter. Over 2,000 trees of various varieties are located on these grounds. These areas when completely developed will compare favorably with other cities in the vicinity.

Athletics in general have revived since the war and the baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have been in constant use. The money generally spent for flower beds, shrubs, etc., for ornamentation of the rarious city grounds has been used in cultivating areas of park and playground land, and many school children have devoted their time and energies to the raising of vegetables.

The past year, this division of the engineering department has had the supervision and work of plowing and harrowing the various parcels of land used, an expenditure of approximately $\$ 250.00$.

MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1920.


The number of men employed has varied from seven to sixteen.

The city's assessment for Metropolitan parks and boulevards for the year 1920 amounted to $\$ 18,601.69$ on construction account, and $\$ 38,907.90$ 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 $\$ 9,593.89$; for the improvement of Alewife brook and maintenance of same $\$ 1,140.65$ and for the maintenance of Wellington bridge across Mystic River, $\$ 3,520.70$. The total of these assessments amounts to $\$ 71,764.83$, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1920 .

The total assessment paid to the State for parks and boulevards amounts to $\$ 837,735.62$, January 1, 1921, and the length of State boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, locater in the easterly part of the city and extending between Broadway and Mystic River, and one and two-tenths miles borderingr Mystic River and Alewife brook located in the westerly part of the city.

Extensive repairs have been made on the Park roads and boulevarrl.

Back-stops on the ball fields have been re-constructed and fences repaired.

New shower baths were installed in the highway stable building at the Trum Playground, and the baths located at Lincoln Park have been kept open certain evenings during each week.

A hockey rink was constructed on Tufts College land and maintained during the winter.

All flag poles on the parks were repaired and painted; flags are displayed on all parks every day throughout the year.

An unusual vegetable growth covering the entire water surface of the pond at Broadway Park with a thick green scum was removed at an expense of over Five Hundred Dollars.

A number of large Poplar trees on the Powder House Boulevard was uprooted and blown down during terrific wind and rain storms causing considerable damage to abutting property, houses, etc., and costing over $\$ 400.00$ for removal - new hardy growth trees should replace these trees the entire length of the boulevard.

Tennis courts have been in use at Mason Street playground, Somerville Field, Broadway, Central Hill and Lincoln parks.

The Metropolitan District Commission have furnished band concerts, certain evenings during summer months, at Broadway park.

At the 4th of July fireworks display on Lincoln park a number of serious accidents to the spectators occurred.

All tar walks on Central Hill Park should be reconstructed and the wooden seats in the grand-stand at Somerville Field rebuilt immediately.

A permanent concrete field house should be constructed at the Somerville athletic field with all modern equipment and the rmaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed complete laying out).

The city has become so densely populated that some of the larger park areas should be more extensively utilized for public recreation and physical training purposes; on several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained, for the young men and women working in the factories daily.

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.

In connection with the departmental work the Recreation and Playgrounds Commission, the Playgrounds Association and Women's Clubs have been of great assistance in advising, directing and promoting the city's welfare. (Details, etc., in Commission and Association reports).

The total yearly expenditure by the city departments and other Associations for recreation and play is over $\$ 15,000.00$.

Respectfully submitted,
Ernest W. Balley,

## REPORT OF THE STREET COMMISSIONER.

Office of the Street Commissioner, City Hall, Somerville, January 1, 1921.

To His Honor, the Mayor, and the Board of Aldermen :-
Gentlemen:-I most respectfully submit the forty-fifth annual report, containing a brief summary of the principal work performed by the Highway Department, by day labor and contract, during the year 1920, with recommendations for necessary additions 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 oiling and watering of streets.

## Highway Department Appropriations.



This city is fortunate in being located so that most of the supplies for this department are shipped to us by auto trucks.

The question of how to make, and how to maintain good streets, is one that is steadily pressing to the front as one of the most important concerns of this department.

In my opinon, granite paving blocks grouted on a concrete base, is the only kind of paving for any street where
there is to be heavy travel, and especially on a narrow street where there are double car tracks.

The Great Atlantic and Pacific Tea Company erected a fine fireproof store house on Fitchburg street and Linwood street. In order to have a good entrance to this store house they paved Fitchburg street, which is a private way, with granite paving blocks grouted on a concrete base, at their expense. This end of Linwood street should be paved by the city the coming year. Permission was given this company to lay a spur track under the Somerville avenue bridge connecting their store house with the Boston and Maine Railroad, Fitchburg Division. They, the Great Atlantic and Pacific Tea Company to repare the street on a concerete base and to assume all liabilities.

## Highway Maintenance.

The maintenance of all the equipment is charged to this appropriation. Such work as repairs of all streets, care of snow and ice, subways, street and traffic signs, bridges and approaches where grade crossings have been eliminated, is charged to this account. If any equipment is used for other accounts in this department or for other city departments, Highway Maintenance receives credit for same. Any work done for corporations, the revenue received is cre lited to general city revenue account.

## Highway Maintenance.'




Underground Wires.
No underground conduits were constructed this year.

## Snow and Ice.

As no special appropriation is made for the care of ice and snow, what money is expended is taken from Highway Maintenance, thus cutting the appropriation where it is needed for work of a more permanent nature.

As many automobilists and truck owners desire to, and some must, use their machines the year round, they are demand ing that the roads be cleared of snow, it means a large expenditure of money if any amount of snow should fall. The winter of 1920 will long be remembered by road men. The employees and horses of this department worked day and night trying to keep the streets and sidewalks opened for travel. All requests such ạs teaming away snow for funerals, weddings and emer-
gency calls were attended to. The coming year this department will have ploughs equipped on auto trucks and new horse drawn ploughs to keep the streets opened for travel.

569 requests and reports were attended to.
$\$ 13,196.60$ was expended for the care of snow and ice. 5358 cubic yards of snow and ice were removed. 4 cubic yards of sand and 327 cubic yards of ashes were used in caring for icy sidewalks, streets and crossings.

## Bridges.

Most of the bridges are in good condition, except the Lowell street bridges where extensive repair's must be made the coming year at the expense of the city.

## Crushed Stone.

The William J. McCarthy Co. furnished 15 tons of local crushed rock at $\$ 2.00$ per ton at their crusher and 5,031 tons at $\$ 2.40$ per ton on the line of work. Coleman Brothers 2,341 tons of trap rock at $\$ 2.70$ per ton on line of work.

## Steam Rollers.

No. 1 roller worked $1281 / 4$ days.
No. 2 roller worked 1 day.
No. 4 roller worked $1121 / 2$ days.
The old No. 2 roller should be exchanged for a new fifteen ton maintenance roller.

## Sidewalks Maintenance.

The old brick sidewalks on the north side of Somerville avenue from Union square to Drouett's block and in Davis square in front of the Merlina and Lewis Blocks were removed and 1135 square yards of granolithic were laid. A good sum was saved on this work, under the estimate, because after removing the brick I found a good sand and gravel base and did not have to do any excavation. This work was done by city labor for $\$ 2.36$ per square yard. I hope this work in all the squares will be continued.

The resetting of edgestones, repairs of all kinds of sidewalks and Police reports pertaining to sidewalks are taken from this account.

5,478 linear feet of edgestones were reset. 1,815 square yards of brick sidewalks were relaid. 764 square yards of paved gutters were repaved and 141 square yards of granolithic were relaid.
$\$ 8,484.91$ was expended for Sidewalks Maintenance.

## Street Sprinkling.

Nearly all of our main streets and squares where there are car tracks are sprinkled and flushed by the American Car Sprinkler of Worcester. This car is in operation seven days a week and eight hours a day for $\$ 1019.28$ a month and has given good satisfaction.

About all the macadan streets were covered with Tarvia "B."

A new auto oiling truck was purchased this year an 1 was used on tar work.

Calcium Chloride was used in the winter on the squares to keep down the dust to the satisfaction of the store-keepers.

Dust layers used during the year:-

```
142,728 gallons of Tarvia "B" (Barrett's).
    8,077 gallons of Lemery oil.
    1,200 gallons of Gas House Tar.
```

I most respectfully recommend the purchase of a small auto truck with sprinkler attachment to care for the paved streets in different parts of the city where it is impossible for the car sprinkler to operate, for example, the slaughter house district where there are many paved streets and paved streets leading from the several squares with no car tracks on the same.

This year the assessment was increased one cent per foot making an assessment of six cents per linear foot for each abutter on any width of street.

This division of the department is self supporting.
$\$ 43,328.52$ was expended for Street Sprinkling.

## Street Cleaning.

This year, following the annual Clean-Up-Week, Mayor Eldridge, by suggestion from delegates of the several Women's Clubs, had circulars printed and distributed to every tenant, calling their attention to a city ordinance in regard to throwing or dropping all kinds of rubbish in the street, and asking
their earnest co-operation in carrying out the meaning of the ordinance. From my observation I think the people did comply with the Mayor's request.

I have received many suggestions from residents stating where they thought a waste barrel would help keep the streets clean. Their requests have been gladly complied with. There is a day cleaning patrol in all the squares, and the night cleaning crew patrols the same and attends to all police reports and emergency calls during the night.

5,899 cubic yards of street sweepings were removed.
$\$ 28,597.14$ was expended for Street Cleaning.

## Suppression of Moths.

This year the city did not make any assessment to the abutters for the care of moths on private property. This expense was taken from the appropriation. Public and private trees are cared for in regard to the removal of moth nests in the winter, thus giving work for the employees who otherwise would be unemployed at this time of the year. Street trees are sprayed in the spring and summer.

The city is nearly rid of the brown-tail moth. I am finding the gypsy moths on the increase, but by continuous fighting every year I hope to keep them from spreading.

A new moth has appeared in this country called the Satin moth, it is found on the poplar trees. An inspector from the forester's office at the State House has inspected our city and found some of these egg clusters on our poplar trees and I surely will have these eggs destroyed.

Our spraying machine was thoroughly overhauled and placed in first class condition for next year.

6,856 street trees were inspected and cared for.
15,493 private trees were inspected and cared for.
5,436 bushes were found moth infested.
15 vines were moth infested.
2,242 fences and buildings on which moths nested.
47,876 gypsy-moth nests were painted with creosote.
12 brown-tail moth nests were gathered and destroyed.
7,363 trees were sprayed by the gasoline spraying machine to exterminate the different kinds of caterpillars and beetles.
$\$ 4,90242$ was expended for the Suppression of Moths.

## Shade Trees.

Street shade trees, in any city, unless they are set back of the sidewalk line, or in the grass plot back of the edgestone, stand a poor show to develop to any size. The conditions with which the shade trees have to contend in the city are a serious
drawback to their growth, namely :-electric wires, gas leaks, permanent paving and insects.

80 trees w.ere set out.
135 trees were removed.
350 trees were trimmed.
130 tree guards and supports installed.
$\$ 3,372.34$ was expended for the Care of Trees.

Highways Construction - New Streets.
Five new streets were constructed during the year under the Betterment Act, by contract with William J. Sullivan, viz: Setting edgestones 65 c per linear foot. Gutter construction $\$ 3.45$ per square yard. Construction of Macadam roadway $\$ 1.15$ per square yard.
The city furnished the edgestone and tarvia binder. Straight edgestone $\$ 1.36$ per linear foot. Circles $\$ 1.90$ per linear foot from S. \& R. J. Lombard, delivered on line of work.

Tarvia binder 13c per gallon from the Barrett Co. delivered on line of work.

Four new streets were accepted this year. $\$ 29,609.00$ was expended for New Streets.

| Length |  |  |
| :---: | :---: | :---: |
| 644 | $\$ 4,343$ | 04 |
| 245 | 2,166 | 84 |
| 632 | 6,116 | 08 |
|  |  |  |
| 117 | 2,486 | 49 |
|  |  |  |
| 530 | 14,418 | 25 |

Estates.
NEW STREET CONSTRUCTED IN 1920.

| Street | From | To | Material |
| :---: | :---: | :---: | :---: |
| Allen street | Somerville Ave. ............ | Charlestown St. | Bituminous Macadam |
| Cooney street | Beacon St. .................. | Line St. ................................ |  |
| Hillsdale road | Conwell Ave. ............... | Sunset Rd. \& Medford line.... | " |
| Hunting street | South St. ...................... | Cambridge line ...................... | Granite paving blocks on concrete base. |
| Windsor street | Cambridge line .... | F. R. R. Boynton yard ........... | Granite paving blocks on concrete base. |

Assessed

## ing

Location
In front Est. No. 20 and Lots No. 3 and No. 4 and part No. 1
Easterly side - Linden Ave. to Porter St. .
Broadway to No. 42 Inc.
Westerly side - Woods Ave. to Medford line
Trull lane to School St.
Kidder Ave. northwesterly to already laid.
K.
S. E'ly side of Lot No. 1 Morrison Ave. and at B. \& M. R. R.
N. E'ly side, Medford St. to Vernon St. Grass plot filled in
with brick 216 sq. yds. .
with brick 216 sq. yds.

$\stackrel{0}{\circ}$ む
$\leftrightarrow$

$\square$
Upon the Abutting

## Sidewalks Construction.

The contracts for granolithic sidewalks were let to Denis I. Crimmings and Peter Salvi, of Somerville, who furnished all material and did the excavation at $\$ 3.50$ per square yard.

The city employees constructed a granolithic sidewalk with edgestones on North street at Medford line.

Cost of edgestones, excavating and setting, $\$ 2.22$ per linear foot.

Cost of granolithic including excavation, $\$ 3.00$ per square yard.

Miles of edgestones, granolithic, brick and gravel sidewalks in the city :-

Length of edgestones . . . . 146.564 miles.
Granolithic sidewalks . . . 57.627 miles.
Brick sidewalks . . . . . 71.416 miles.
Gravel sidewalks . . . . . 23.958 miles.
$\$ 9,962.20$ was expended for Sidewalks Construction.

## Highways Construction - Permanent Pavement.

A contract was let to William J. Sullivan at $\$ 7.10$ a square yard, for the paring with granite paring blocks grouted on a concrete base. He furnished all materials and did the excavating.
$\$: 36,109.64$ was expended for Permanent Pavement.

| shington street | Medford St. to Tufts St. southerly side | \$213 |
| :---: | :---: | :---: |
| *Tufts street | Portion from Washington St. north- easterly | 16552 |
| *Webster avenue | Cambridge line to north of Columbia St. | 8167 |
| *Beacon street | Dickinson St. to Buckingham St. | 2,149 95 |
| Beacon street | Park St. to Sacramento St. | 18,872 15 |
| North street | Repair gutters | 41010 |
| Linwood street | Congress place, northerly | \$14,216 68 |
| Final Payments | work of 1920. |  |

## Reconstruction and Resurfacing.

Twenty-four streets were reconstructed or resurfaced under this appropriation at an average cost of $\$ 2.34$ per linear foot, by city employees.

The Public Works Committee, with the Mayor's approval, selected streets in each ward to be resurfaced or reconstructed from this appropriation. I hope they will continue the work the coming year.
$\$ 39,899.74$ was expended for Reconstruction and Resur. facing.


 $\infty$


To
Washington street
Lincoln Park
Summer street
Bartlett street
Pearl street
Grant street
Medford street
Highland avenue
Jasper street
Benton Road
Mystic avenue

Clifton street

Street
Ames street Arthur street .. Bartlett street Benedict street Calvin street Camplral street Charnwood Road Kingston street

Lexington avenue
Meacham Road ..
Mt. Vernon street
Perry street
Quincy street
Robinson street
Rush street
Sewall street .....
Tower street
Virginia street
Westwood road.
Windsor Road
Winslow avenue

## Miscellaneous.

66 Granolithic driveways constructed.
42 Brick driveways constructed.
17 Edgestones dropped.
4 Driveways extended.
4 Driveways discontinued.
3 Carriage walks constructed.
Driveways are constructed, discontinued, relocated or extended at the expense of the petitioners.

Length of public streets 84.603 miles.
Two horses were killed on account of disability and five horses were purchased during the year.

The department maintains its own municipal repair shop for the different lines of work.

I have attended meetings of the Public Works and of the different committees of the Board of Aldermen for consultation regarding work and petitions.

## Labor.

The regular employees were given two weeks vacation and all employees, twelve months Saturday half holiday without loss of pay. Mayor Eldridge increased the pay of all employees May 2,1920 , to a minimum daily wage of $\$ 4.00$, drivers and chauffeurs $\$ 4.10$, mechanics $\$ 4.50$ and engineers $\$ 4.75$.

Eight hours constitute a day.
The city does its own insuring for injured laborers. There are fifteen former employees receiving pensions under the act providing for the pensioning of laborers.

There were during 1920 :-

```
113 permits were issued to the Cambridge and Charlestown Gas
                Companies.
226 permits issued to occupy streets and sidewalks.
    71 permits issued to cross sidewalks.
    27 permits issued to feed horses.
    35 street sprinkling complaints and requests.
    237 notifications to other departments and corporations.
    24 accident reports.
    8 7 3 \text { police reports.}
    507 brick and granolithic sidewalks repaired.
    85 miscellaneous reports and requests.
    38 drain layers permits.
    581 water department openings.
    92 permits to open streets and sidewalks.
    15 danger signs erected.
    4 1 \text { new signs erected.}
101 signs repainted.
    78 streets cleaned by request.
    4025 cubic yards of sand and gravel used.
    2666 cubic yards of dirt removed.
    1785 cubic yards old macadam used.
    979 cubic yards of ashes used.
    1790 bags of Portland cement used.
```


## Recommendations.

I most respectfully recommend that Somerville avenue from Beacon street to Porter Station, Cambridge, be paved with granite paving blocks grouted on a concrete base; that the granite paving started on Linwood street, Tufts street and Beacon street be completed. I should like to see some of the good work, started a few years ago, such as re-cutting the paveing blocks and relaying them on a concrete base on such main thoroughfares as Somerville avenue and Washington street, continued the coming year.

I recommend the purchase of a small auto-truck sprinkler, also a garage to be erected at the city stable yard to care for automobiles and trucks used in the department.

I wish to express to His Honor, Charles W. Eldridge, my appreciation of the interest and valuable assistance rendered me and the department.

My acknowledgments are due to the Board of Aldermen and heads of departments for their courtesy and consileration in matters pertaining to the business of the city, also for the co-operation of all employees of the department and citizens of our city.

Respectfully submitted,
Asa B. Prichard,
Street Commissioner.

## TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

| Street | From tare | To | Public or Private. | Width in Feet. P | Public |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Abdell | Somerville ave | Southwesterly | Private. | 25 |  | 203 |
| Aberdeen road | Cedar st. | Highland ave. | Public. | 40 | 449 |  |
| Aberdeen rd. ex. | Angle | Westerly | Private. | 30 |  | 67 |
| Acadia pk. | Somerville ave | Northeasterly | Public. | 40 | 256 |  |
| Adams | Broadway | Medford st. | Public. | 40 | 907 |  |
| Adelaide rd | Somerville ave | Northeasterly | Private. | 20 |  | 138 |
| Adrian | Marion st. | Joseph st. | Public. | 40 | 579 |  |
| Albion pl. | Albion st. | Northeasterly | Private. | 10 |  | 6 |
| Albion ct. | Albion st. | Southeasterly | Private. | 16 |  | 116 |
| Albion | Central st. | Cedar st. | Public. | 40 | 2,742 |  |
| Albion | Broadway | Medford line | Private. | 50 |  | 100 |
| Albion ter. | Albion st. | Southwesterly | Public. | 25 | 100 |  |
| Aldersey | Walnut st. | Vinal ave. | Public. | 40 | 508 |  |
| Aldrich | Pearl st. | B. \& L. R. R. | Public. | 40 | 611 |  |
| \#\#Alewife Brkpky | Mystic Val. pky | Cambridge line | Public. |  | 4,775 |  |
| Alfred | Broadway | Medford line | Private. | 50 |  | 50 |
| Allen | Somerville ave | Charlestown st. | Public. | 25 | 644 |  |
| Allen ct | Parkst. | Northwesterly | Private. | 20 |  | 150 |
| Alpine | Cedar st. | Southeasterly | Public. | 30 | 667 |  |
| Alpine | Alpine st. | Low'll st. | Public. | 40 | 688 |  |
| Alston | Cross st. | Shawmut st. | Public. | 40-30 | 757 |  |
| Ames | Bartlett st. | Robinson st. | Public. | 40 | 580 |  |
| Appleton | Willow ave. | Clifton st. | Public. | 40 | 548 |  |
| Appleton | Clifton st. | Liberty ave. | Public. | 40 | 120 |  |
| Arlington | Franklin st. | Lincoln st. | Public. | 40 | 452 |  |
| Arnold ave | Porter st. | Southeasterly | Private. | 15 |  | $2 \%$ |
| 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 |  |
| A therton | Central st. | Spring st. | Public. | 40 | 741 |  |
| Auburn ave. | Cross st. | B. \& L. R. R. | Public. | 30 | 606 |  |
| Austin | Rroadway | Mystic ave. | Public. | 40 | 716 |  |
| Autumn | Broadway | Bontir st. | Public. | 20 | 408 |  |
| Avon | Schorl st. | Central st. | Fublic. | 40 | 1,360 |  |
| Avon pl. | Cross st. | B. \& L. R. R. | Private. | 25 |  | 150 |
| Bailey | North st. | West Adams st | Private | 40 |  | 420 |
| Banks | Elm st. | Summer st. | Public. | 40 | 639 |  |
| Bartlett | Vernon st. | Broadway | Public. | 40 | 1,550 |  |
| Barton | Broadway | Hamilton road | Public. | 40 | 382 |  |
| Bay State ave. | Broadway | Foskett st. | Public. | 40 | 1,237 |  |
| Beach ave. | Webster ave. | Columbia st. | Private. | about 20 | 20 ...... | 200 |
| Beacon pl. | Beacon st. | irtheasterly | 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 |
| Feckwith circle | Beacon st. | Southwesterly | Private | 28.5 |  | 112 |
| Bedford | South st. | Cambridge line | Public. | 30 | 165 |  |
| Beech | Somerville ave. | Atherton st. | Public. | 40 | 323 |  |
| Relknap | 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. | Relmont st. | Southeasterly | Public. | 25 | 177 |  |
| Belmont sq. | Belmont st. | Southeasterly | Prolic. | 30 | 75 |  |
| Belmont sq. | Belmont ter | N. E. \& S. W. | Public. | 20 | 145 |  |
| Belmont ter. | Belmont st. | Easterly | Private. | 15 |  | 137 |
| Benedict ave. | Broadway | Benedict st. | Private. | 20 |  | 200 |
| Benedict | İnion st. | Austin st. | Public. | 40 | 585 |  |
| Bennett ct. | Bennett st. | Prospect st. | Private. | 10 |  | 100 |
| Rennett | Prospect st. | Rennett ct. | Private. | 40 to 25 | 25 | 400 |
| Renton road | Summer st. | Hudson st. | Puhlic. | 40 | 1,208 |  |
| Rerkeley | School st. | Central st. | Public. | 40 | 1,360 |  |
| Rerwick | Hinckley st. | Northwesterly | Private. | 20 |  | 170 |
| Rigelow | Roston st. | Munroe st. | nיhlic. | 50 | 208 |  |
| Rillingham | Rroadway | William st. | Public. | 40 | 563 |  |

Table Showing the Location, Length and Width of Public and Private Streets.-Continued.

| Street | From | 'Гo | Public or Private | $\begin{aligned} & \text { Width } \\ & \text { in } \\ & \text { Feet } \end{aligned}$ |  | vate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bishop's pl. | Glen st | Easterly | Private. | $10$ |  | 75 |
| Blakeley ave. | Fellsway east | Cross st. | Private. | $40$ |  | 630 |
| Bleachery ct. | Somerville ave. | Fitchburg R.R. | Private. | 30 |  | 450 |
| Bolton | Oak st. | Houghton st. | Public. | 40 | 476 |  |
| Bonair | Cross st. | Walnut st. | Public. | 40 | 1,535 |  |
| Bond | Broadway | Jaques st. | Public. | 40 | 655 |  |
| Bonner ave. | Washington st. | Columbus ave. | Public. | 40 | 376 |  |
| Boston ave. | Medford line | Mystic river | Public. | 60 | 915 |  |
| Boston ave. | Broadway | Medford line | Public. | 50 | 80 |  |
| Boston ave. | Broadway | Highland road | Public. | 65 | 287 |  |
| Boston ave. | Highland road | Prichard ave. | Public. | 50 | 509 |  |
| Boston ave. | Prichard ave. | East to angle in street | Private. | 50 |  | 146 |
| Boston ave. | Angle in st. s'ly | Kidder ave. | Private. | 40 |  | 376 |
| Boston ave. | Kidder ave. | Morrison ave. | Public. | 40 | 649 |  |
| Boston | Washington st. | Prosp't Hill av. | Public. | 45 | 640 |  |
| Boston | Prosp't Hill av. | Walnut st. | Public. | 40 | 1,242 |  |
| Bow | Union sq. | Wesley sq. | Public. | 60 | 658 |  |
| Bow | Wesley sq. | Somerville ave. | Public. | 50 | 570 |  |
| Bowdoin | Washington st. | Lincoln park | Public. | 40 | 1 |  |
| Bowers ave. | Cottage ave. | Elm st. | Private. | 44 |  |  |
| Bow St. pl. | Bow st. | Northwesterly | Private. | 40 |  | 150 |
| Bradford ave. | School st. | Southeasterly | Private. | 40 | 762 | 150 |
| Bradley Braemore road | Pearl st. | Walter st. | Public. | 40 | 762 |  |
| Braemore road Brastow ave. | Broadway | Medford line | Private. | 40 | 686 |  |
| Brastow ave. | Lowell st. | Porter ${ }^{\text {Medford }}$ i | Public. | 40 | 146 |  |
| Broadway | Charlest'n line | Cross st. | Public. | 100 | 2,590 |  |
| Broadway | Cross st. | Marshall st. | Pub. 100 | to 200 | 2,060 |  |
| Broadway | Marshall st. | Main st. | Public. | 100 | 1,570 |  |
| Broadway | Main st. | Top of hill | Public. | 100 to 90 | 1,030 |  |
| Broadway | Top of hill | Albion st. | Public. | 90 | 2,540 |  |
| Broadway | Albion st. | Willow ave. | Public. | 70 |  |  |
| Broadway Broadway | Willow ave. | Paulina st. | Public. | 65-60-65 | 3,220 |  |
| Broadway | Paulina st. | Arlington line | Public. | 65-60-65 | 3,220 | 5 |
| Broadway pl. | Broadway | Southwesterly | Private. | 22 40 | 1,262 | 5 |
| Bromfield Brook | Warner st. Glen st. | Dearborn road | Public. | 40 | 1,504 |  |
| Browning road | Sycamore st. | Central st. | Public. | 40 | 679 |  |
| Buckingham | Beacon st. | Dimick st. | Public. | 40 | 292 |  |
| Buena Vista rd. | Holland st. | Southwesterly | Private. | 35 |  | 276 |
| Burnham | Broadway | Pow. House Bl. | Public. | 40 | 543 |  |
| Burnside ave. | Elm st. | Summer st. | Public. | 40 | 720 |  |
| Cady ave. | Simpson | Northwesterly | Private. | 40 |  | 203 |
| Caldwell ave. | Washington st. | Southerly | Private. | 20 |  | 10 |
| Calvin | Beacon st. | Dimick st. | Public. | 40 | 263 |  |
| Calvin | Dimick st. | Washington st. | Public. | 30 | 392 |  |
| Cambria | Central st. | Benton road | Public. | 40 | 488 |  |
| Cameron ave. | Holland st. | Cambridge line | Public. | 60 | 1,065 |  |
| Campbell pk. | Meacham rd. | Kingston st. | Public. | 40 | 399 |  |
| Campbell Pk. pl. | Kingston st. | Arl'ton Br. R.R. | Private. | 20 |  | 84 |
| Carlton | Somerville ave. | Lake st. | Public. | 40 | 300 |  |
| Carter terrace | Summer st. | Southwesterly | Public. | 40 | 171 |  |
| Carter terrace | Accepted part | Southwesterly | Private. |  |  |  |
| Carver | Porter st. | Northwesterly | Private. | 40 |  | 56 |
| Cedar ave. | Cedar st. | Linden ave. | Public. <br> Private | ${ }_{15}^{22}+$ | 290 |  |
| Cedar ct. | Cedar st. | Southeasterly | Private. <br> Private. | $15+$ |  | $70+$ |
| Cedar St. pl. | Murdock st. | Southwesterly | Private. Private. | ${ }_{12}^{20}+$ |  | 378 $80+$ |
| Cedar St. pl. Cedar | Cedar n . Elm st. | Southeasterly | Private. Public. | 12 40 | 4,137 | $80+$ |
| Central road | Central st. | E'ly and N'ly | Public. | 4.0 | 377 |  |
| Central road | Central road | Sycamore st. | Public. | 30 to 15 | 221 |  |
| Central | Somerville ave. | Summer st. | Public. | 33 | 1,043 |  |
| Central | Summer st. | Medford st. | Public. | 40 | 2,539 |  |
| Central | Medford st. | Broadway | Public. | 45 | 1,079 |  |
| Centre | Albion st. | B. \& L. R. R. | Private. | 35 |  | 200 |
| Chandler | Park ave. | Broadway | Public. | 40 | 1,232 |  |
| Chapel | College ave. | Chandler st. | Public. | 40 | 273 |  |
| Chapel ct. | Sycamore st. | Northwesterly | Private. | 12 |  | 30 |
| Charles | Washington st. | Southerly | Public. | 30 | 166 |  |
| Charlestown | Allen st. | Easterly | Private. | 15 |  | 400 |
| Charnwood rd, | Willow ave. | Hancock st. | Public. | 40 | 589 |  |

Table Showing the Location, Length and Width of Public and
Private Streets.-Continued.

| Street | From | To | Public or Private | $\begin{aligned} & \text { Width } \\ & \text { in } \\ & \text { Feet } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * Chelsea | Mystic ave. | Melrose st. | Private. | 50 |  | 1,390 |
| Cherry | Elm st. | Highland ave. | Public. | 45 | 1,450 |  |
| Cherry | Highland ave. | Northeasterly | Private. | 45 |  | 10 |
| 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 | 537 | 200 |
| Chestnut | Poplar st. | West Adams st. | Private. | 40 | 537 | 892 |
| Church | Summer st. | Lake st. | Public. | 40 | 964 |  |
| City road | Broadway | Cedar st. | Private. | 45 |  | 80 |
| Claremon | Holland st. | Mead st. | Public. | 40 | 560 |  |
| Clarendon ave. | Broadway | Cambridge line | Public. | 40 | 1,217 |  |
| Clark | Newton st. | Lincoln pky. | Public. | 35 | 552 |  |
| Cleveland | Central st. | Harvard st. | Public. | 40 | 459 |  |
| Clifton | Appleton st. | Morrison ave. | Public. | 40 | 200 |  |
| Clifton | Morrison ave. | Arlngtn Br. RR | Private. | 40 |  | 220 |
| Clyde | Cedar st. | Murdock st. | Public. | 30 | 664 |  |
| College ave. | Davis sq. | Medford line | Public. | 60 | 4,080 |  |
| College Cir. | College av. arou | and to College av | Private. | 10 and |  | 4 |
| College Hill rd. | Conwell ave. | North st. | Private. | 40 |  | 449 |
| Columbia | Webster ave. | Cambridge line | Public. | 40 | 816 |  |
| Columbia ct. | Columbia st. | Webster ave. | Private. | 40 |  | 150 |
| Columbus ave. | Washington st. | Walnut st. | Public. | 40 | 1,425 |  |
| Concord ave. | Prospect st. | Wyatt st. | Public. | 40 | 1,483 |  |
| Concord ave. | Wyatt st. | Beacon st. | Public. | 30 | 472 |  |
| Congress pl. | Linwood st. | Somerville ave. | Public. | 50 | 202 |  |
| Conlon ct. | Columbia st. | Easterly | Private. | 20 |  | 200 |
| Connecticut av. | Mystic ave. | Penn. ave. | Public. | 40 | 487 |  |
| Conwell ave. | Curtis st. | North st. | Public. | 40 | 1,346 |  |
| Conwell | Highland ave. | Southwesterly | Public. | 35 | 363 |  |
| Cooney | Beacon st. | Line st. | Public. | 30 | 245 |  |
| Corinthian road | Broadway | Cady ave. | Private. | 40 |  | 560 |
| Cottage ave. | Russell st. | Chester st. | Public. | 40 | 550 |  |
| Cottage circle | Cottage ave. | Southwesterly | Private. | 25 |  | 87 |
| Cottage pl. | Washington st. | Northwesterly | Private. | about 11 |  | 50 |
| Craigie | Somerville ave. | Summer st. | Public. | 50 | 1,280 |  |
| Craigie ter. | 16 Craigie st. | Westerly | Private. | 25 |  | 126 |
| Crescent | Washington st. | Hadley st. | Public | 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 | M'ddlesex 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. | Public | 40 | 271 |  |
| Dimick | Concord ave. | Calvin st. | Public. | 40 | 957 |  |
| Dix pl. | Linwood st. | Southwesterly | Private. | 10 |  | 100 |
| Douglas ave. | Edgar ave. | Southeasterly | Private. | 30 |  | 162 |
| Dover | Elm st. | Cambridge line | Public. | 40 | 975 |  |

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. - Continued.

| Street | From | To | $\begin{aligned} & \text { Public } \\ & \text { or } \end{aligned}$ | Width in |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Private | Feet Public Private |  |  |
| Dow | Powder House | Ware st. | Private. | 40 |  | $25 \%$ |
| Downer pl. | Downer st. | B. \& L. R. R. | Private. | 20 |  | 125 |
| Downer | Nashua st. | Southeasterly | Private. | 20 |  | 120 |
| Dresden circle | Cutter ave. | Westerly | Private. | 30 |  | 133 |
| Durant | Washington st. | Southerly | Private. | 20 |  | 200 |
| Durham | Beacon st. | Hanson st. | Public. | 40 | 423 |  |
| Dynamo | Willow ave. | Whipple st. | Private. | 30 |  | 255 |
| Earle | South st. | Northerly | Private. | 30 |  | 322 |
| Earle | End of above | Fitchburg R. R. | Private. | 15 |  | 115 |
| East Albion | Mt. Vernon ave. | E. of Moreland | dPrivate. | 25 |  | 188 |
| East Albion | E. of Moreland | Medford line | Private. | 40 |  | 490 |
| Eastman road | Highland ave. | Southwesterly | Public. | 40 | 296 |  |
| Edgar ave. | Main st. | Meacham st. | Private. | 50 |  | 800 |
| *Edgeworth | Mystic ave. | Melrose st. | Private. | 50 |  | 1,380 |
| Edmands | Broadway | near Bonair st. | Public. | 40 | 376 |  |
| Edmonton ave. | Cross st. | Fellsway east | Private. | 40 |  | 630 |
| Electric ave. | Mason st. | Curtis st. | Public. | 40 | 1,374 |  |
| Eliot | Vine st. | Park st. | Public. | 40 | 291 |  |
| Ellington road | Highland ave. | Northeasterly | Private. | 35 |  | 120 |
| Ellington road | West st. | Northwesterly | Private. | 30 |  | 405 |
| Ellsworth | Cross st. | Rush st. | Public. | 40 | 230 |  |
| Elm ct. | Villa ave. | Northwesterly | Private. | 18 |  | 70 |
| Elm pl. | Harvard st. | Westerly | Private. | 30 |  | 190 |
| Elm road | Elm st. | Northeasterly | Private. | 25. |  | 183 |
| Elm | Somerville ave. | Cherry st. | Public. | 63 | 1,672 |  |
| Elm | Cherry st. | White st. | Public. | 63 to 60 | 0330 |  |
| Elm | White st. | Banks st. | Public. | 60 | 660 |  |
| Elm | Banks st. | Beech st. | Public. | 60 to 77. | . 290 |  |
| Elm | Beech st. | Tenney st. | Public. | 77.5 to 60 | 0570 |  |
| 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. | 3.0 |  | 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 | Southerly | Private. | 4.5 |  | 70 |
| *Fairfax | 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 |  |
| $\ddagger \ddagger$ Fellsway | Mystic ave. | Mystic river | Public. | 70 to 130 | 2,500 |  |
| $\ddagger \ddagger$ Fellsway east <br> (Winthrop ave.) | Broadway | Mystic ave. | Public. | 50 | 1,222 |  |
| $\ddagger \ddagger$ Fellsway West (Chauncey) ave.) | Broadway | Mystic ave. | Public. | 50 | 1,324 |  |
| Fennell | Hinckley st. | Northwesterly | Private. | 20 |  | 175 |
| Fenwick | Broadway | Jaques st. | Public. | 40 | 601 |  |
| Fisk ave. | H:nckley st. | Lowell st. | Public. | 20 | 484 |  |
| Fitchburg ct. | Fitchburg st. | Southeasterly | Private. | 10 |  | 225 |
| Fitchburg | Linwood st. | B. \& L. R. R. | Private. | 40 |  | 400 |
| Flint ave. | Flint st. | Northerly | Public. | 40 | 202 |  |
| Flint | Franklin st. | Aldrich st. | Public. | 40 | 1,790 |  |
| Florence | Washington st. | Perkins st. | Public. | 40 | 1,304 |  |
| Florence ter. | Jaques st. | Southwesterly | Private. | 20 |  | 90 |
| Forest | Beacon st. | Cambridge line | Public. | 40 | 117 |  |
| Forster | Sycamore st. | Central st. | Private. | 30 |  | 430 |

*Proposed.
$\ddagger \ddagger$ Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.-Continued.

| Street | From | To | Public or' Private | Width <br> Feet P | Len <br> Public | rivate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Foskett | Willow ave. | L:berty ave. | Public. | 40 | 668 |  |
| Fountain ave. | Cross st. | Glen st. | Public. | 30 | 578 |  |
| Francesca ave. | College ave. | Liberty ave. | Public. | 40 | 762 |  |
| Francis | Porter st. | Conwell st. | Public. | 30 | 180 |  |
| Franklin ave. | Washington st. | Franklin st. | Public. | 20 | 575 |  |
| Franklin pl. | Franklin st. | Southeasterly | Private. | 15 |  | 100 |
| Franklin | Broadway | Washington st. | Public. | $40+$ | 2,316 |  |
| Fremont ave. | Bowdoin s | L.ncoln pk. | Public. | 30 | 232 |  |
| Fremont | Main st. | Nr E. Albion st | t Public. | 40 | 1,112 |  |
| Fremont | Nr E. Albion | Mystic ave. | Private. | 40 |  | 335 |
| Garden ct. | Somerville ave. | Fitchburg R. R. | Private. | 25 |  | 770 |
| Garfield ave. | Broadway | Blakeley ave. | Public. | 40 | 447 |  |
| Garfield ave. | Blakeley ave. | Middlesex ave. | Private. | 40 |  | 83 |
| 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. | ic. | 30 | 275 |  |
| Gibbens | Central st. | Benton rd, w'ly | Public. | 40 | 665 |  |
| Giles pk. | Walnut st. | Northwesterly | Public. | 32.71 | 167 |  |
| Gill's ct. | Franklin st. | Westerly | Private. | 10 |  | 100 |
| Gilman | Cross st. | Walnut st. | Public. | 40 | 1,430 |  |
| Gilman ter. | Pearl st. | Northeasterly | Public. | 40 | 360 |  |
| Gilson ter. | Linden ave. | Northwesterly | Private. | 20 |  | 124 |
| Glen | Broadway | Tufts st. | Public. | 40 | 2,373 |  |
| Glendale ave. | Cameron ave. | Yorktown st. | Public. | 40 | 410 |  |
| Glenwood road | Vernon st. | Broadway | Public. | 40 | 1,524 |  |
| Glover circle | Meacham road | Southeasterly | Private. | 20 |  | 110 |
| Gordon | North st. | Pow. House Bd | Private. | 40 |  | 1,245 |
| Gorham | Holland st. | Howard st. | Public. | 40 | 763 |  |
| Gould ave | Porter st. | Southeasterly | Private. | 16 |  | 6 |
| Gove ct. | Cedar st. | Southeasterly | Private. | 18 |  | 44 |
| Grand View av. | Walnut st. | Vinal ave. | Public. | 40 | 542 |  |
| Granite | Somerville ave. | Osgood st. | Public. | 40 | 411 |  |
| Grant | Broadway | Mystic ave. | Public. | 40 | 1.405 |  |
| Greene | Summer st. | Laurel st. | Public. | 40 | 555 |  |
| Greenville | Medford st. | Munroe st. | Public. | 40 | 660 |  |
| Greenville ter. | Greenville st. | Northerly | Private. | 20 |  | 250 |
| Greenwood ter. | Beacon st. | Northeasterly | Private.' | 25 |  | 165 |
| Gritter way | College ave. | Bromfield rd. | Private. | 4 |  | 160 |
| Grove | Elm st. | Morrison ave. | Public. | 40 | 996 |  |
| Hadley ct. | Franklin st. | Westerly | Private. | 16 |  | 95 |
| Hall ave. | College ave. | Liberty ave. | Public. | 40 | 926 |  |
| Hall | Cedar st. | Cherry st. | Public. | 30 | 456 |  |
| Hamlet | Highland ave. | Boston st. | Public. | 30 | 616 |  |
| Hamilton road | Russell road | North st. | Public. | 40 | 560 |  |
| Hammond | Dickinson st. | Concord ave. | Public. | 40 | 267 |  |
| Hancock | Elm st. | Highland ave. | Public. | 40 | 1,349 |  |
| Hancock | Highland ave. | Lexington ave. | Public. | 50 | 376 |  |
| Hanson ave. | Hanson st. | Easterly | Private. | 30 |  | 252 |
| Hanson | Washington st. | Skehan st. | Public. | 30 | 469 |  |
| Hanson | Skehan st. Vir | Vine st. | Public. | 35 | 347 |  |
| Hardan road | Pow. House Bd. | Ware st. | Private. 20 | 20 and 40 |  | 283 |
| Harding | No. of Ward st. | Cambridge line | Public. | 30 | 465 |  |
| Harold | Dimick st. | Marion st. | Public. | 40 | 316 |  |
| Harold | Gordon st. | Medford line | Private. | 40 |  | 48 |
| Harrison | Ivaloo st. | Kent st. | Public. | 40 | 644 |  |
| Harrison | Elmwood st. | Southeasterly | Public. | 40 |  | 210 |
| Harvard pl. | Harvard st. | Westerly | Private. | 35 |  | 200 |
| Harvard | Summer st. | Beech st. | Public. | 40 | 717 |  |
| Hathorn | Broadway | Arlington st. | Public. | 40 | 339 |  |
| Hawkins | Somerville ave. | Washington st. | Public. | 40 | 330 |  |
| Hawthorne | Willow ave. | Cutter ave. | Public. | 30 | 807 |  |
| Hayden ter. | Linden ave. | Easterly | Private. | 20 |  | 120 |
| Heath | Temple st. | Bond st. | Public. | 45 | 1,043 |  |
| Heath | Bond st. | Moreland st | Public. | 40 | 754 |  |
| Henderson | Richardson st. B | B. \& L. R. R. | Public. | 20 | 569 |  |
| Hennessy ct. | Medford st. F | Fisk ave. | Private. | 20 |  | 250 |
| Henrietta ct. | Somerville ave. | Northerly | Private. | 8 and 20 |  | 161 |
| Henry ave. | Highland ave. I | Lexington ave. | Public. | 40 | 290 |  |

Table Showing the Location, Length and Width of Public and Private Streets.-Continued.

| Street | From | To | Public or Private | Width in Feet P |  | th <br> ivate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Herbert | Chester st. | Day st. | Public. | 40 | 337 |  |
| Hersey | Berkeley st. | Oxford st. | Private. | 40 |  | 230 |
| Higgins ct. | Mt. Vernon st. | Westerly | Private. | 16 |  | 149 |
| High. | North st. | Pow. House Bd | Private. | 40 |  | 678 |
| H:ghland ave. | Medford st. | Davis sq. | Public. | 60 | 9,135 |  |
| Highland path, east | Morrison ave. | Arlington Br . R. R. | Private. | 10 |  | 107 |
| Highland path, west | Morrison ave. | Arlington Br . R. R. | Private. | 10 |  | 108 |
| $\dagger$ Highland rd. | Morrison ave. | Boston ave. | Pub. 30 | wide) | 1,499 |  |
| Hill | Broadway | Fairmount ave. | Public. | 40 | 284 |  |
| Hillsdale rd. | Conwell ave. | Sunset rd. | Public. | 40 | 632 |  |
| Hillside ave. | Pearl st. | Southwesterly | Private. | 30 |  | 150 |
| Hillside cir. | Craigie st. | Westerly | Private. | 16 |  | 151 |
| Hillside pk. | Walnut st. | Noithwesterly | Public. | 40 | 196 |  |
| Hinckley | Broadway | B. \& L. R. R. | Public. | and 35 | 1,081 |  |
| Hodgdon pl. | Dane ave. | Northeasterly | Private. | about 20 |  | 150 |
| Holland | Davis sq. | Broadway | Public. | 60 | 2,696 |  |
| Holt's ave. | Oak st. | Southeasterly | Private. | 10 |  | 100 |
| Holyoke road | Elm st. around | to Elm st. | Public. | 40 | 637 |  |
| Homer sq. | Bonner ave. | Northwesterly | Public. | $30+$ | 200 |  |
| Horace | South st. | Fitchburg R. R. | Public. | 30 | 517 |  |
| Houghton | Springfield st. | Cambridge line | Public. | 40 | 653 |  |
| Howard | Thorndike st. | Gorham street | Public. | 40 | 431 |  |
| Howe | Marshall st. | School st. | Public. | 40 | 445 |  |
| Hudson | Central st. | Cedar st. | Public. | 40 | 2,760 |  |
| Hunting | South st. | Cambridge line | Public. | 30 | 117 |  |
| Ibbetson | Somerville ave. | Lowell st. | Public. | 40 | 802 |  |
| Illinois ave. | Broadway | Penn. ave. | Public. | 40 | 427 |  |
| Indiana ave. | Broadway | Penn. ave. | Public. | 40 | 384 |  |
| Irving | Holland st. | Broadway | Public. | 40 | 1,180 |  |
| Ivaloo | Beacon st. | Park st. | Public. | 40 | 685 |  |
| James | Pearl st. | Radcliffe road | Public. | 40 | 320 |  |
| Jaques | Fellsway west | Temple st. | Public. | 40 | 1,182 |  |
| Jaques | Temple st. | Bond st. | Public. | 45 | 1,005 |  |
| Jaques | Bond st. | Edgar ave. | Public. | 40 | 395 |  |
| Jasper pl. | Walnut st. | Easterly | Private. | 20 |  | 80 |
| Jasper | Pearl st. | Gilman st. | Public. | 40 | 283 |  |
| Jay | Holland st. | Howard st. | Public. | 40 | 534 |  |
| Jerome ct. | Sycamore st. | Jerome st. | Private. | 10 |  | 150 |
| Jerome | Montrose st. | Jerome ct. | Private. | 20 |  | 125. |
| Jerome | Lawrence rd. | Myst:c Val. py | Private. | 40 |  | 495 |
| Joseph | Newton st. | Lincoln pky | Public. | 40 | 458 |  |
| Josephine ave. | Morrison ave. | Broadway | Public. | 45 | 1,718 |  |
| Joy | Washington st. | Poplar st. | Public. | 30 | 1,121 |  |
| Joy St. pl. | Joy st. | Southwesterly | Private. | 16 |  | 168 |
| Kenneson road | Broadway | Walnut road | Private. | 30 |  | 338 |
| Kensington av. | Broadway | Blakeley ave. | Public. | 40 | 455 |  |
| *Kensington av | Blakeley ave. | Middlesex ave. | Private. | 40 |  | 1,150 |
| Kent ct. | Kent st. | Northerly | Private. | about 25 |  | 420 |
| Kent | Somerville ave. | Fitchburg R. R. | Public. | 40 | 292 |  |
| Kent | Fitchburg R. R. | Beacon st. | Public. | 25 | 386 |  |
| Kenwood | College ave. | Billingham st. | Public. | 40 | 322 |  |
| Kidder ave. | College ave. | Boston ave. | Public. | 40 | 2,554 |  |
| Kilby | Somerville ave. | Southwesterly | Private. | 20 |  | 180 |
| Kilsyth road | Broadway | Medford line | Private. | 40 |  | 5 |
| Kimball | Lowell st. | Craigie st. | Private. | 40 |  | 303 |
| Kingman road | Washington st. | Fitchburg R. R. | Private. | 25 |  | 400 |
| Kingston | Meacham road | Cambridge line | Public. | 40 | 647 |  |
| Knapp | School st. | Granite st. | Public. | 40 | 379 |  |
| Knowlton | Tufts st. | N'E' line Est. 37 | Public. | 40 | 461 |  |
| Knowlton | End of above | Oliver st. | Private. | 40 |  | 464 |
| Lake | Hawkins st. | Church st. | Public. | 40 | 840 |  |
| Lamson ct. | Linwood st. | Poplar st. | Private. | 20 |  | 370 |
| Landers | School st. | Westerly | Public. | 40 | 228 |  |
| Langmaid ave. | Broadway | Heath st. | Public. | 30 | 353 |  |
| Latin way | Talbot ave. | Professors row | Private. | 60 |  | 25 |

[^9]Table Showing the Location, Length and Width of Public and Private Streets.-Continued.

## Street <br> To <br> Public Width Length <br> in

Laurel ave.
L
S
M
P
M
W
C
C
J
B
H
H
M

Lewis Lexington ave. Willow ave.
Lexington ave. Hancock st.

## Lexington ave.

Liberty ave.
Liberty rd.
Lincoln ave.
Lincoln ave.
Lincoln pl.
Lincoln
Angle
Laurel
Lawrence road
Lawson ter.

Linden ave.
Linden circle
Linden pl.
Linden ave.
Morrison ave.
Lincoln st.
westerly
Private
Private Feet Public Private

Lawson ter.
Medford line
Northwester
Public.

Leland
Leonard pl.
Leonard
Lesley ave.
Leslie pl.
Lester ter.

Linden
Line
Linehan ct.
Linwood pl.
Linwood
London
Loring
Louisburg pl.
Lovell
Washington
Lincoln ave.
Broadway
Elm st. Perkins st.
Mystic Val. py Private.

| 18 | $\because \ddot{8} \dot{3}$ | 125 |
| :--- | :--- | :--- |
| 40 | $\boxed{5} 8 \dot{5}$ |  |
| 40 | $\cdots$ |  |

Somerville ave.
Washington st.
$\begin{array}{ll}\text { R'chdale ave. Public. } \\ \text { Dane ave. } & \text { Public. }\end{array}$
Washington st. Dane ave.
Concord ave. Dublic.
Dickinson
st.
ambridge line Public.
Chestnut st. Private. about 15
Linwood st. Southwesterly Private. about 12 ....

| Somerville ave. Washington st. Public. | 50 | 2,114 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Linwood st. | B. \& L. R. R. Private. | 40 |  | 30 |

Somerville ave.

## Lowden ave.

Lowell
Autumn st.

Lowell
Lowell circle
Lowell ter.

## Broadway

Osgood st. R.
Easterly
Electric ave.
Private. 40

## Summer st.

Foskett st.
Private.
385
1,247

## Public.

 40$\qquad$ $\begin{array}{llll}\text { Medford st. Public. } \quad 40 & 3,472\end{array}$

## Madison Magnus ave.

Main
Lowell st. Northwesterly
Priv. 11 and 27.5
School st. Sycamore st.
Private. 20

Maine ave.
Washington st.

Maine ter.
*Malden
Mallet
Broadway
Mystic ave.
Southerly
Medford line
Public. 40891

Malloy ct.
Maine ave. $\quad$ Southeasterly
Private.
Public. 40

Malvern ave.
Mansfield
Wystic ave.
Melrose st.
Public. 40 $\qquad$
ave. Liberty ave. Public.

Maple ave.
Camerville ave. Merriam ave. Private.
Somerville ave. Washington st Public.
Maple pl.
Maple
School st. Southeasterly Private.
$\qquad$

Mardel circle
Marion
Marshall
Mason
May pl.
McCarroll Hawkins st.
McCulphe pl. Myde st.
McGregor ave. Wigglesworth


Poplar st.
Public.
699
Spring st.

Meacham road st.

Meacham
Mead
Medford
Medford
Melrose
Melvin
Merriam aye.
Merriam
Dover st.
Mt. Vernon av
Cameron ave.
Cambridge Jin
Central st.
Mystic ave.
Broadway
Merriam st.
Washington
-Proposed.

Dimick st. Public.
Pearl st. Public.
Pow. House Bd. Public.
Easterly Private.
$\begin{array}{ll}\text { Southwesterly } & \text { Private. } \\ \text { Easterly } & \text { Private. }\end{array}$ 140

## Walnut st. Private.

|  | $1 \ddot{0}$ |
| ---: | ---: |
| $1,14 i$ | $\ldots \ldots$ |
| 1,650 | $\ldots$ |
| 681 | 100 |
| $\ldots \ldots$ | 75 |
| $\ldots \ldots$ | 110 |
| $\ldots$ | 302 |

Cambridge line Public.

## 1,060

777
8,097
1,985
487


Table Showing the Location, Length and Width of Public and
Private Streets.-Continued.

| Street | From | To | $\begin{aligned} & \text { Public } \\ & \text { or } \end{aligned}$ |  | Length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | St | Private | Feet Public Private |  |  |
| Prospect pl. | Prospect st. |  |  | 4 |  | 30 |
| Putnam | Summer st. | Highland ave. | Public. | 50 | 1,962 |  |
| Quincy | Somerville ave. | Summer st. | Public. | 40 | 781 |  |
| Radcliffe road | Walnut | Bra | Public. | 35 | 392 |  |
| Radcliffe road | Bradley st. | Marshall st. | Public. | 40 |  |  |
| Randolph pl. | Cross st. | Westerly | Private. | 15 |  |  |
| Raymond a.ve. | Curtis st. | North st. | Public. | 40 | 1,345 |  |
| Record ct. | Broadway | Southwest | Private | 10 |  | 10 |
| Reed's ct. | Oliver st. | Southwesterly | Private. | 20 |  | 105 |
| Remick ct. | Cutter st. | Southeasterly | Private. | 10 |  | 100 |
| Rhode Is. ave. | Mystic ave. | Penn. ave. | Public. | 40 | 460 |  |
| Richardson | Lowell st. | Hinckley st. | Public. | 35 | 467 |  |
| Richardson | 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 |  | 00 |
| Rose | Washington st. | Lewis st. | Private. | 40 |  | 450 |
| Roseland | Beacon st. | Cambridge line | Public. | 40 | 121 |  |
| Rossmore | Somerville ave. | Washington st. | Public. | 40 | 534 |  |
| Royce pl. | Bonair st. | Northeasterl | Private | 15 |  | 175 |
| Rush | Broadway | Flint st. | Public. |  | 1,400 |  |
| Russell | Broadway | N. line Hamilton rd. | Public. | 40 | 559 |  |
| Russell rd | N. Line Hamilton rd. | North | Private |  |  | 5 |
| Russell | Elm st. | Cambridge line | Public. | 40 | 700 |  |
| Sacramento | Somerville ave. | Fitchburg R. R | Public. | 40 | 80 |  |
| Sacramento | Fitchburg R. R. | Beacon | Public. |  |  |  |
| Sacramento | Beacon st. | Cambridge line | Public. | 40 | 154 |  |
| Sanborn ave. | Warren ave. | Walnut st. | Public. | 40 | 280 |  |
| Sanborn ct. | Washington st. | Northwesterly | Private | 30 |  | 176 |
| Sargent ave. | Broadway | Walnut st. | Public. | 40 | 1,075 |  |
| Sartwell ave. | Cedar st. | Cherry st. | Public. | 35 | 427 |  |
| Sawyer ave. | Packard ave. | Curtis st. | Private. | 40 |  | 690 |
| School | Somerville ave. | Highland ave. | Public. | 40 | 1,901 |  |
| School | Highland ave. | Broadway | Public. | 50 | 2.500 |  |
| Sellon pl. | Marshall st. | Northwesterly | Private | 12 |  | 120 |
| Seven Pines av. | Cameron ave | Cambridge line | Public. | 40 | 2 |  |
| Sewall ct. | Sewall st. | Southwesterly | Private. | 25 |  | 190 |
| Sewall | Grant st. | Temple st. | Public. | 40 | 15 |  |
| Shawmut | Washington st. | Cross st. | Public. | 40 | 575 |  |
| Shedd | Somerville ave. | Merriam av | Private. | 40 |  | 10 |
| Sherman | Sargent ave. | Marshall st. | Private. | 10 |  |  |
| Sibley ct. | Cutter st. | Northwester | Private. | 10 |  | 00 |
| Sibley pl. | Cutter st. | Northwesterly | Private | 10 |  | 00 |
| Simpson ave. | Broadway | Holland st. | Public. | 40 | 1,018 |  |
| Skehan | Dane st. | Hanson st. | Public. | 30 | 306 |  |
| Skehan | Hanson | Durham | Private | 30 |  | 14 |
| Skilton ave. | Pearl st. around | to Pearl | Private. | 40 |  | 40 |
| Smith ave. | Beacon st. | Line st. | Private. | $25+$ |  | 200 |
| Snow ter. | Jaques st. | Southwesterly | Private. |  |  | 120 |
| Somerville ave. | E. Camb. line. | Union sq. | Public. |  | 4.325 |  |
| Somerville ave. | Union sq. | N. Camb. line | Public. | 70 | 6.793 |  |
| South | Medford st. | Water st. | Public. | 30 | 989 |  |
| Spencer ave. | Cedar | Hancock st. | Public. | 40 | 727 |  |
| Spring ct. | Somerville ave. | Westerly | Private | 20 |  | 00 |
| Spring | Somerville ave. | Summer | Public. | 40 | 1,220 |  |
| Springfield | Concord ave. | Cambridge line | Public. | 40 | 788 |  |
| Spring Hill ter. | Highland ave. | Belmont st. | Public | 20 | 670 |  |
| Stanford ter. | Beacon st. | Northeasterly | Private. | 20 |  | 00 |
| Steeves circle | Cherry st. | Easterly | Private. | 15 |  | 120 |
| *Sterling st. | North st. | Pow. House Bd | Private. | 40 |  | 800 |
| Stickney ave. | Marshall st. | School st. | Public. | 40 | 458 |  |
| St. James ave. | Elm st. |  | Public. | 40 | 488 |  |
| St. James ave. S | Summer st. | Northeasterly | Public. | 30 | 125 |  |

Table Showing the Location, Length and Width of Public and Private Streets.-Continued.

| Street | From | To | Public or Private | ${ }^{1}$ Feet Public Private |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stone ave. | Union sq. | Columbus ave. | Public. | 40 | 676 |  |
| Stone ave. | Columbus ave. | Prosp't Hill py. | Public. | 38 | 107 |  |
| Stone pl. | Stone ave. | Southeasterly | Public. | 30 | 142 |  |
| Strathmore rd. | Broadway | Medford line | Private. | 40 |  | 15 |
| Summer | Bow st. | Elm st. | Public. | 45 | 7,900 |  |
| Summit ave. | Walnut st. | Vinal ave. | Public. | 45 | 532 |  |
| Summit | College ave. | Billingham st. | Public. | 40 | 262 |  |
| Sunnyside ave. | Walnut st. | Wigglesworth st | Public. | 25 to 35 | 306 |  |
| Sunset rd. | Curtis st. | Hillsdale road | Private. | 40 |  | 58 |
| 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 a | Packard | College a | Private. | 50 |  | 1,409 |
| *Tannery Ex. | Cambridge line | Woodstock st. (Ext'n) | Private. | 40 |  | 160 |
| Taunton | Wyatt. st. | East'y to angle | Private. | 30 |  | 170 |
| Taunton | Angle | Marion st. | Private. | 20 |  | 95 |
| Taylor pl. | Somerville ave. | Southerly | Private. | 15 |  | 200 |
| Taylor | Mystic ave. | Sydney st. | Public. | 40 | 309 |  |
| Teele ave. | Packard ave. | Curtis st. | Public. | 40 | 685 |  |
| Temple | Broadway | Mystic ave. | Public. | 66 | 1,637 |  |
| Tenney ct. | Mystic ave. | Northeasterly | Private. | 30 |  | 400 |
| Tennyson | Forster st. | Pembroke st. | Public. | 40 | 922 |  |
| Thorndike | Holland st. | Arlington . Br. |  |  |  |  |
| Thorndike | Arlington Br . | R. R. Kingston | Public. | $\begin{aligned} & 40 \\ & 40 \end{aligned}$ | $\begin{aligned} & 465 \\ & 115 \end{aligned}$ |  |
| Thorpo | Highland ave. | Southwesterly | Public. | 30 | 468 |  |
| Thurston | Broadway | Richdale ave. | Public. | 40 | 1,660 |  |
| Timmins pl. | Dane st. | Westerly | Private. | 3.5 |  | 97 |
| Tower ct. | Tyler st. | Northeasterly | Private. | 25 |  | 150 |
| Tower | Crown st. | Highland ave. | Public. | 40 | 559 |  |
| Tremont pl. | Tremont st. | Southeasterly | Private. | about 10 |  | 75 |
| Tremont | Webster ave. | Cambridge line | Public. | 40 | 589 |  |
| Trull | Vernon st. | Medford st. | Public. | 40 | 1,050 |  |
| Trull lane | Highland ave. | Oxford st. | Private. | 15 |  | 200 |
| Tufts parkway | College ave. | College ave. | Public. | 22 | 900 |  |
| Tufts | Washington st. | Cross st. | Public. | 40 | 982 |  |
| Turner ct. | Franklin st. | Westerly | Private. | 20 |  | 150 |
| Tyler | Vine st. | Dane st. | Public. | 40 | 404 |  |
| Union | Broadway | Mystic ave. | Public. | 40 | 345 |  |
| Union pl. | Linwood st. | Southwesterly | Private. | 10 |  | 100 |
| Upland Park | Main st. | Southwesterly | Private. | 20 |  | 175 |
| Vermont ave. | Mystic ave. | Penn. ave. | Public. | 40 | 433 |  |
| Vernon | Central st. | Glenwood road | Public. | 40 | 764 |  |
| Vernon | Glenwood road. | Partridge ave. | Public. | 40 to 30 | 190 |  |
| Vernon | Partridge ave. | Lowell st. | Public. | 30 | 434 |  |
| Victoria | Broadway | Cambridge line | Public. | 40 | 1,036 |  |
| Villa ave. | Winslow ave. | Arlington Br . <br> R. R. | Pr:vate. | 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. Beacon st. | Private. | 30 | 662 | $222^{\prime}$ |
| Virginia | Aldrich st. | Jasper st. | Public. | 40 | 405 |  |
| Wade ct. | Cedar st. | Westerly | Private. | 20 |  | 180 |
| Waldo ave. | Beacon st. | Dimick st. | Public. | 40 | 277 |  |
| Waldo | Highland ave. | Hudson st. | Public. | 40 | 287 |  |
| Walker | Broadway | Leonard st. | Public. | 40 | 713 |  |
| Wallace | Holland st. | Broadway | Public. | 40 | 1.342 |  |
| Walnut | Bow st. | Broadway | Public. | 40 | 3,948 |  |
| Walnut road | Walnut st. | Kenneson road | Public. | 40 | 270 |  |
| Walter terrace | Walter st. | Southwesterly | Public. | 40 | 222 |  |

[^10]Table Showing the Location, Length and Width of Public and Private Streets. - Continued.

| Street | From | To | Public | Width in |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Private | Feet Public Private |  |  |
| Walter | Walnut st. | about 100 ft N . |  |  |  |  |
| Ward | Medford st. | of Bradley st. Harding st. | Public. Public. | 40 30 | 548 433 |  |
| Ware | Curtis st. | Russell rd . | Public. | 40 | 749 |  |
| Warner | Pow. House sq. | Medford line | Public. | 60 | 500 |  |
| Warren ave. | Union sq. | Columbus ave. | Puhlic. | 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. | Pumlic. | 40 | 665 |  |
| Washington av. | Washington st. | Northerly | Private. | 18 |  | 350 |
| Washington pl. | Washington st. | Southerly | Private. | about 7.5 |  | 114 |
| Washington | Charlest'n line | Franklin ave. | Public. | 75 | 1,060 |  |
| Washington | Franklin ave. | Fitchburg R. I. | Public. | 60 to 100 | 3,977 |  |
| Washington | Fitchburg R. R. | Cambridge line | Public. | 60 | 2,344 |  |
| Water | South st. | Northerly | Public. | 25 | 366 |  |
| Waterhouse | Broadway | Cambridge line | Public. | 40 | 987 |  |
| Watson | Broadway | Fairmount ave. | Private. | 40 |  | 236 |
| Waverly | Washington st. | Roland st. | Private. | 35 |  | 200 |
| Webster ave. | Union sq. | Cambridge line | Public. | 49.5 | 1,955 |  |
| Webster | Franklin st. | Cross st. | Public. | 40 | 1,034 |  |
| Wellington ave. | Walnut st. | Montgomery av | Public. | 40 | 215 |  |
| Wellington ave. | Montgomery av. | Easterly | Private. | 40 |  | 85 |
| Wesley pk. | Wesley sq. | Northeasterly | Public. | 40 | 405 |  |
| Wesley | Pearl st. | Otis st. | Public. | 40 | 515 |  |
| West | Hawthorne st. | Highland ave. | Public. | 30 | 192 |  |
| West | Highland ave. | $\begin{aligned} & \text { Arlington Br. } \\ & \text { R. R. } \end{aligned}$ | ,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 |  |
| Whippie | Highland ave. | $\begin{aligned} & \text { Arlington Br. } \\ & \text { R. R. } \end{aligned}$ | Private. | 30 |  | 318 |
| $\dagger$ White | Elm st. | Cambridge line | Public. |  | 307 |  |
| White St. pl. | White st. | Southeasterly | Private. | 20 |  | 200 |
| Whitfield road | Packard ave. | Curtis st. | Public. | 40 | 687 |  |
| Whitman | Mason st. | Packard ave. | Public | 40 | 632 |  |
| Wigglesworth | Bonair st. | Pearl st. | Public. | 40 | 744 |  |
| William | Chandler st. | College ave. | Public. | 40 | 381 |  |
| William | Broadway | Medford line | Private. | 50 |  | 50 |
| Williams ct. | Porter st. | Northwesterly | Private. | 30 |  | 454 |
| Willoughby | Central st. | Sycamore st. | Public. | 40 | 427 |  |
| Willow ave. | Elm st. | Broadway | Public. | 50 | 3,534 |  |
| Willow pl. | Cambridge line | South st. | Public. | 25 | 125 |  |
| Wilson ave. | Broadway | B. \& L. R. R. | Public. | 20 | 307 |  |
| Wilton | Lowell st. | Hinckley st. | Public. | 35 | 470 |  |
| Winchester | Broadway | Medford line | Private. | 40 |  | 65 |
| Windom | Elm st. | Summer st. | Public. | 40 | 300 |  |
| Windsor road | Willow ave. | Hancock st. | Public. | 40 | 575 |  |
| Windsor | Cambridge Line | Northerly | Public. | 40 | 40 |  |
| Windsor | End of above | Fitchburg R. R. | Public. | 27 | 490 |  |
| Winslow ave. | College ave. | Clifton st. | Public. | 40 | 1,123 |  |
| Winter | College ave. | Holland st. | Public. | 30 | 402 |  |
| Winter Hill cir. | Broadway | Northeasterly | Private. | 25 |  | 177 |
| Winthrop ave. | Mystic ave. | Middlesex ave. | Private. | 40 |  | 583 |
| Wisconsin ave. | Broadway | Penn. ave. | Public. | 50 | 499 |  |
| Woodbine | Centre st. | Westerly | Private. | 30 |  | 461 |
| Woodbine Ex. | End of above | Lowell st. | Private. | 35 |  | 212 |
| Woods ave. | North st. | Pow. House Bd. | Private. | 40 |  | 1,135 |
| Woodstock | Victoria st. | Alewife brook | Public. | 40 to 32 | 403 |  |
| *Woodstock (Extension) | Victoria st. | $\begin{gathered} \text { Tannery } \\ (\text { Ext'n. }) \end{gathered}$ | Private. | 40 |  | 920 |
| Wyatt circle | Wyatt st. around | d to Wyatt st. | Private. | 20 |  | 315 |
| Wyatt | Concord ave. I | Lincoln pkway | Public | 40 | 496 |  |
| Yorktown | Cambridge line | N. E. line |  |  |  |  |
|  | N. E. line | Malvern ave. | Public. | 40 | 294 |  |
| Yorktown | Malvern ave. | Northerly | Private. | 40 |  | 100 |

*Proposed.
$\dagger$ Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets.-Concluded.


Public, 84.60 miles [includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private 16.21 miles.

Total length of streets in the city, 100.8 miles.

## REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

City Hall, Somerville, January 1, 19ュ1.

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, 1920.

The total valuation of the public property which is in the custody of the public buildings department is approximately $\$ 3,550,000$.

The total expenditure for the year 1920 for the care and maintenance of this property was $\$ 209,961.25$.

This amount was expended as follows:

| School Buildings | Care and |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Janitors | Fuel | Light | Repairs | Totals |
|  | \$56,957 56 | \$39,485 17 | \$10,557 17 | \$47,227 70 | \$154,227 60 |
| Electrical Dept. | 75300 | 40012 | 10441 | 2303 | 1,280 56 |
| Fire Buildings |  | 4,545 45 | 3,00007 | 2,773 42 | 10,318 94 |
| City Home Buildings |  | 1,228 39 | ${ }^{5} 5313$ | 1,704 99 | 3,486 51 |
| Contagious Hospital | 54496 | 1,766 59 | 67776 | 1,214 74 | 4,204 05 |
| Highway Buildings |  | 41295 | 21346 | 36218 | 98859 |
| Central Library | 3,057 00 | 1,051 64 | 1,436 65 | 44394 | 5,989 23 |
| West Branch Li- brary | 1,355 88 | 40033 | 50490 | 18970 | 2,450 |
| East Branch Li- |  |  |  |  |  |
| Union Sq. Branch | 1,086 1,107 59 | 26368 32395 | 27101 291 | 1288 308 | 1,634 1,754 38 |
| Municipal Buildings | 5,776 60 | 2,027 59 | 1,550 73 | 2,460 82 | 11,815 74 |
| Park Buildings . | 41748 | 14141 | 46413 | 46722 | 1,490 24 |
| Police Buildings | 2,021 82 | 95609 | 59828 | 71293 | 4.28912 |
| Polling Places |  | 831 | 1842 | 1,098 23 | 1,124 96 |
| Sanitary Buildings |  | 11446 | 24031 | 39884 | 75361 |
| Sewer Buildings |  | 6997 | 2996 | 54285 | 64278 |
| Water Buildings |  | 61903 | 31387 | 5374 | 98664 |
| Bathhouse . | 92454 |  |  | 1,436 70 | 2,361 24 |
| Bandstand |  |  | 1625 | 14584 | 16209 |
| Totals | \$74,003 26 | \$53,\$15 13 | \$20,842 24 | \$61,300 62 | \$209,961 25 |

## 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 1160 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1920:-

WARDS.



WARDS.


The number of plumbing permits issued during 1920 was . . 171
Number of permits for plumbing in new buildings . . . 19
Number of permits for plumbing in old buildings . . . 152
Number of buildings in which soil pipes were tested . . 102
The total estimated cost of the new buildings and altera tions during the year 1920 was $\$ 1,384,456$, while the estimated cost in 1919 was $\$ 773,099$, showing an increase of $\$ 611,357$.

The total number of permits issued during the year 1920 , viz. 398, was 43 less than during the year 1919, when 441 permits for new buildings and alterations were issued.

There has been very little of speculative building of dwellings going on this year owing to the high cost of both labor and materials.

There has been, however, a considerable number of alterations of dwellings owing to the scarcity of rentals.

Single family houses have been altered into two family houses and some of the larger houses have been altered into small kitchenette suites. These types of alterations demand rery careful inspection and supervision by this department and entail considerable more time than new construction.

On September 1, 1918, the Board of Aldermen of the City of Somerville passed an ordinance requiring a fee to be collected for every building permit issued by this department. In accordance with this, fees collected for building permits during the year 1920 amounted to $\$ 1,051$.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all of the eightyfour public buildings of the city and the grounds in connection therewith, all janitors in the city's employ, a force of nine mechanics who perform most of the work of keeping the buildings in repair, the inspection of installation and care of all elevators, the supervision of construction of all new municipal buildings, the maintenance of the public bathing beach and public municipal baths in the Bennett and Bingham Schools and Lincoln Park.

The various activities in connection with the department work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

## Coal.

As in the past years an invitation for bids was advertised for supplying the necessary tonnage of both anthracite and bituminous coal for the city buildings for the winter of 1920 and spring of 1921.

Two bids were received, one being from a local concern. After taking same under consideration His Honor, the Mayor, decided to reject both, as they were extremely high, and have all coal purchased direct by this department. The wisdom of this has been amply justified as there has been a large saving in: money as a result of this decision..

## Elevators

According to an act of the Legislature the Building Commissioner is required to have every elevator in the city inspected yearly and a report of the conditions and necessary repairs made to the State District Police.

Plans and specifications of all new installations of elevators must be filed in this olfice and certificates of approval granted by the Commissioner.

During the year 1920, there were 135 elevators inspected and 38 orders for repairs to be made, sent to the owners.

Plans and specifications were filed and applications granted for the installation of 10 new elevators.

## School Buildings.

The maintenance and care of school buildings has, as formerly, demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Every year just before the summer vacation arrives this department sends out a blank to be filled in by both the principals and janitors of schools of all requisitions and repairs needed.

These repairs and requests are taken up with the Superintendent of Schools and taken care of in the order which he suggests so far as the appropriation will allow.

First are taken into consideration the requests and repairs absolutely needed for the opening of schools. Then the others are taken up in the order of their importance. This in itself is a huge task as the wants of every section must be taken into consideration.

Among the necessary repairs that were taken care of this year are the following:

Four boilers were retubed. A number of new grates were installed and repairs made on 24 other boilers.

Steam repairs were made in 20 buildings.
Plaster repairs were made in 11 buildings.
Plumbing repairs and new installations were made in 21 buildings. New water service with larger main installed in 3 buildings.

Mason repairs were made in 9 buildings beside repairs of fire boxes of boilers in nearly every building.

65 teachers' guest chairs were recaned.
3 teachers' couches were recovered.

Roof leaks and other roof repairs were taken care of on 14 buildings.

Carpenter repairs, such as:
Window cords.
Repairing and tightening furniture.
Fitting up one room in Morse, Southern Junior High, Lowe and Hodgkins Schools with larger size furniture.

A new hall has been fitted up in the Knapp School by the removal of a partition between two class rooms and the installation of a Wilson Rolling lift partition. These two rooms can with this arrangement be used as separate class rooms, or, with the partition rolled up, make a hall with a seating capacity of 300 .

## Painting:

Th, Hodgkins, Cummings, Prescott and Pope buildings were tholoughly painted and renovated throughout and a few of the rooms in the Boys' Vocational School were fitted up and painted.

At High School several rooms and office walls and ceilings tinted and woodwork varnished.

3,000 desk tons, 40 Teachers' desks and 30 tables in various schools refinished and varnished.

All toilet seats finished in white enamel and several school tollets painted out.

Students' chairs in several buildings refinished and varnished.
Toilets at the Cutler School were thoroughly renovated, walls and ceilings painted and woodwork varnished.

The lintels and sills of the Cutler School which are of artificial stone and had broken off in a very dangerous and unsightly manner have, during the year, been entirely replaced, adding a great deal to the looks and safety of this building which is located on Powder House Boulevard, a much travelled thoroughfare.

## Lighting:

[^11]
## Heating:

At the Glines School an additional direct heating system has been installed during the past year. This system has been recommended by this department for several yeans, and has proven satisfactory and will eventually show quite a saving of fuel.

At the Central Heating Plant and Glines School a Coppus Blower system has been installed to the boilers enabling us to use a cheaper grade of anthracite coal instead of Bituminous, formerly used, with as saving of money on fuel, and the removal of the smoke nuisance which is so objectionable.

## Fire Loss.

The city suffered a slight loss by fire at the Cummings School caused by spontaneous combustion. This loss was partially covered by insurance. The building was thoroughly renovated and repaired with very little loss of time to pupils, by fitting up two rooms at the Carr School during Christmas week, and using them for the scholars on half time.

The most pressing needs this year will be the following:
That the policy of yard resurfacing be continued so that the school yards may be kept sanitary and free from dust.

That the policy of painting as many school buildings as possible during the year be continued.

Additional windows in the Edgerly School.
Outside enclosed fire escapes on the Edgerly, Morse and Highland School buildings. These buildings are three stories high and the old style type of construction with very little distance between stairways.

New heating and ventilating plant in the Morse School, doing away with the present seven furnaces which are in bad condition.

New floors should be installed in both the Edgerly and Highland School buildings.

Installing direct steam coils thermostatically controlled in the new wing of the Brown School, also the Pope school and the High School Annex. This would mean a great saving of coal and would eventually pay for itself. A start must be made this year on at least one of the buildings.

Extending the heat control system in the High School to the remainder of the building.

The third story of the Pope School to be fitted up for a hall.
Installing motor and doing away with the present engine used to run the ventilating fan at the Bell School as this engine is in bad shape and would cost as much to be repaired as a new motor.

Removing the partitions between the fire rooms and coal bins in the Bingham, Durell, Morse and Highland Schools and replacing same with eight-inch brick walls.

Continuation of the policy of installing sprinkler systems, doing as many buildings as possible during the coming year.

## Fire Department Buildings.

There has been considerable work done and many improvements made in the several fire department buildings.

The front portion of the first fioor of Hose 7. was torn out.
because of decayed timbers and replaced with cinder fill and a concrete floor.

At the Union Square Fire Station extensive repairs had to be made on the tower and roof again this year as the building was struck by lightning during a severe thunder storm in August.

The great increase in the cost of fuel, light and labor curtailed a great number of the needed repairs during the past year but much necessary work was accomplished.

The most pressing needs for this year will be the following:

New heating plants in Engine 6 and Hose 8, thus doing away with old and wholly inadequate furnaces.

Repairs to Engine 6 house.
New floor in shop at Central Fire Station.
Interior and exterior painting of portions of Engine 1, Engine 2, Hose 3, Hose 5, Engine 6, Hose 7 and Hose 8 houses.

Several other minor repairs are being considered and will be carried out as far as necessary.

I urgently recommend something being done to Engine 4 house. This building is in such bad shape that it does not seem wise to spend any money on repairs and as it is a well located building on a good lot of land, I urgently recommend it being torn down and a modern building erected on this site. There is much material in the present building which could be used in the new.

## Municipal Buildings.

The municipal buildings consisting of City Hall and City Hall Annex, are in fair condition generally.

Considerable new fittings and furniture have been requested by various departments.

During the past year only such repairs as were absolutely necessary were attended to.

## Libraries.

Very few repairs were necessary at any of the libraries the past year as the buildings are in very fair condition.

The outside of the Central Library building was repainted 2 coats and much of the furniture refinished.

At the West Somerville Branch Library the roof needs
repairing and some of the interior finish needs attention.
There is also quite a little new furniture required this. year which must be furnished.

## Water, Highway, Sanitary, and Sewer Buildings.

Water Department buildings are in need of a new heating plant, as the old plant which was installed as a power plant for the high pressure pumps is not economical and wholly inadequate as a low pressure heating plant.

The Highway, Sanitary and Sewer buildings call for considerable repairs. Stall bottoms must be replaced, roof and other repairs made. One thing which calls for serious consideration is the replacement of glass of which there have been more than 200 lights replaced this year.

The Veteran Firemen's building which was Somerville's first Town Hall was repaired and refinished inside and out during December.

## Hospital Buildings.

General repairs were made this last year in these buildings, as follows:

New awnings were purchased and installed ; principally on the Tuberculosis Camp.

Quite extensive outside repairs were made to piazzas, steps, etc., and some painting was done on the interior.

There is still much to be done, however, in order to keep these buildings in proper sanitary condition.

## City Home Buildings.

Quite extensive repairs have been made to the buildings during the past year, some of which are the following:

A new sun room was added to the Hospital wing.
A cement platform was built at the piggery, and a cement rur: was made into the barn.

A new hot water boiler was installed in the wash room.
Besides these considerable new furniture had to be purchased.
Request has been made by the Overseers of the Poor for considerable work to be done this coming year.

## Police Buildings.

Very little was done during the past year to the Police Buildings outside of the necessary boiler repairs and the purchase of a few much-needed, metal lockers for the patrolmen.

I urgently recommend a new heating plant be installed in the stable and garage in the rear. This is needed to properly
heat these buildings as the heater in the stable is beyond repair and there is no heat in the garage.

## Bathhouse.

The public bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual last year with a very good attendance. No serious accidents were reported for the year.

We were able to secure 500 tons of sand for the resanding of the beach which was greatly appreciated by the patrons.

The theft of bathing suits by the patrons is causing a great deal of trouble and thought to the Building Commissioner and a very large unnecessary expenditure of money by the City. Changes are being planned to eliminate this trouble the coming year.

We hope with these changes to give better service and expect that the bathing beach will another year be taxed to its utmost.

## Park Buildings.

This coming year the building located in Broadway Park will need considerable attention in the way of repairs as the building leaks badly and new sills must be installed.

I heartily recommend the erection of a permanent bandstand in Broadway Park as it is fair to assume that we will continue to have more band concerts here in the future than in the past, and there is no permanent place to have such affairs in the city.

There is considerable agitation being made for a new recteation building to be located in Recreation Field, West Somerville; this building to have toilet facilities for the public and locker and shower-bath rooms for the various athletic teams.

Drawings have been made by the Building Commissioner for such a building and an appropriation of about $\$ 3500$ stands available to be used, but this amount is entirely inadequate and should be greatly increased.

## In General.

The Commissioner of Public Buildings has had the cooperation of all branches of the City Government, including ilis Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,
George L. Dediley, Commissioner of Public Buildings.

# REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS. 

Somerville, Mass., January 1, 1921.

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

Gentlemen :-
I most respectfully submit my twelfth annual report as Commissioner of Electric Lines and Lights for the year ending December 31, 1920.

## Inspection of Wiring in Buildings.

With conditions gradually approaching the normal and prices of materials being somewhat reduced, installations of electric lights and appliances have increased in number.

While few new buildings have been erected this past year a larger number of old houses have been wired for electric. lights, heating and cooking appliances.

Careful inspection has been made of all work done for which permits have been issued and other old work has been followed up as far as possible.

The practice of attaching unapproved wiring and appliances to existing installations by persons using electricity still continues but soon comes to the attention of the Inspector, who, if conditions are found to be dangerous, notifies the owner of the premises and if defects are not remedied the removal of the meter is liable to occur.

Very few refuse to rectify such conditions after being notified, as want of proper information is generally the cause of existing defects.

Occasionally work is done by unlicensed workmen causing considerable annoyance to the customer who should not employ such persons who have not a State License to do wiring. No work should be accepted until inspected and approved.

I again call your attention to the unwise practice of over fusing circuits for light or power. The approval of an installa-
tion provides that proper fuses are supplied and they should not be changed to larger sizes.

Changes in the construction of buildings that interfere with the existing wiring should be immediately reported to the inspection department.

The ordinance passed July 1, 1918, requiring permits to be obtained to do work in the City has been a great help in keeping the inspections down to a minimum.

Number of notifications of new work . . . . 1400
Number of inspections of new work . . . . 1897
Number of re-inspections of new work . .. . 57
Number of inspections of old work . . . . 98
Number of defective installations of old work . . 10
Number of defective installations remedied . . 8
Number of re-inspections of old work . . . 10
Total number of inspections . . . . . 2080
Number of permits issued to the Edison Electric Iiluminating Company for installing meters, lamps, etc.,

1909
Number of permits issued to the Malden Electric Company

3

## Fire Alarm System.

The Fire Alarm System is in first class condition and is giving excellent service, being rated as one of the best systems in the State.

240 bell alarms have been received and transmitted during the year.

- Over the central telephone desk with comnections to each Fire Station 448 calls for fire have been received and telephone alarms sent to the different stations.

2 A. D. T. alarms have been received at headquarters and transmitted over our own system to the fire stations.

One blow is struck on inside bells in all fire stations at 8 A. M. an 6 P. M. to amounce the change of day and night forces.

The central office equipment consists of the following:
$2-6$ circuit operating boards.
1 - 5 circuit tapper board. .
1 - 5 circuit gong board.
2 - 16 circuit storage battery charging boards.
1-32 circuit protector board.
1-12 circuit automatic repeater.
1-1 dial, 4 number manual transmitter.
2 - 5 circuit punching registers.
13 punching registers and take up reels.
2 automatic time and date stamps.
1 master clock.
940 cells storage battery.
$5-10$ foot, 4 shelf battery racks.
4 metropolitan tappers and 2 gongs.

The apparatus outside of the central office consists of the following:

131 signal boxes.
8 tower strikers.
45 gongs.
10 punching registers.
20 tappers.
1 automatic steam whistle.
9 private telephones.
About 60 miles of overhead wires.
About 78 miles of underground wires.
6200 feet of old overhead wire has been replaced by new.
No new undergrount wires were installed last year but provisions are made to continue the work during the present year.

## Police Signal System.

The police signal system is giving the same excellent service as in former years.

Boxes have been thoroughly tested and found to be in good working order. Some replacements have been made this past year and some others will have to be made this year on account of wear.

The system consists of the following:
1-4 circuit police desk.
59 street signal boxes.
4 special boxes.
About $191 / 2$ miles of overhead wire.
About 13 miles of underground wire.

## Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years. A number of defective poles have been replaced by companies owning the same. New poles have been placed in locations granted for the purpose of supplying lighting and telephone service and abandoned poles have been removed.

|  | New poles. | $\mathrm{Re}-$ | Removed. | Reset. |
| :---: | :---: | :---: | :---: | :---: |
| New England Telephone \& Telegraph Co. |  | 23 | 1 | 8 |
| Edison Electric Illuminating Co. | 21 | 182 |  | 4 |
| Boston Elevated Railway Co. | 2 | 2 |  | 4 |
| Postal Telegraph Co. |  | 2 |  |  |
| Permits given to the New England Tel. \& Tel. Co. for attachments to the Edison |  |  |  |  |
| Company's poles . . . | 195 |  |  |  |
| Permits given to the Edison Electric Ill. Co. for attachments to the New England Tel. \& Tel. Company's poles . | 91 |  |  |  |

## Street Lighting.

The matter of street lighting has had the same attention as in previous years and additional lights have been placed in various parts of the city.

More lights are required in the western part of the city as some new streets are inadequately lighted.

Our contract with the Edison Company for street lighting having expired, the cost of street lighting has been materially increased, necessitating economy in the placing of new lights.

Additional spot lights have been installed at places where traffic officers are postet and are of great assistance to them.

The number of street lights January 1, 1921, are as follows:
133 Magnetite lights.
376-600 C. P. lights.
108-125 C. P. lights.
940 - 60 C. P. lights.

## Recommendation.

I respectfully recommend that an assistant inspector be employed to enable the department to more thoroughly cover all old installations of electrical wiring in the City.

## Conclusion.

I wish to thank His Honor, the Mayor, the members of the Board of Aldermen and the several departments for the many courtesies received.

Respectfully yours,
Walter I. Fuller, Commissioner of Electric Lines and Lights.

## REPORT OF SANITARY DEPARTMENT.

City Hall, Somerville,<br>January 26, 1921.

To the Honorable, the Mayor, and the Board of Aldermen of the City of Somerville.
Gentlemen :
I have the honor to submit to you the report of the Sanitary Department for the year 1920 .

## Collection of Ashes and Paper. Ashes

 (Cubic Yards) 15,080 14,100 14,600| April. | . |  | 2,100 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| May | . | . | . | 11,110 | 2,080 |

June . . . . . . 9,138 1,840
July . . . . . . 7,555 1,880
August . . . . . . 8,255 2,190
September . . . . . 7,660 2,780
October . . . . . 7,580
November . . . . . 8,025 3,020

December
Totals

9,755
123,601

7202,740

Paper
(Cubic Yards) 300

720
,100
1,840
1,880
2,190

3,020
3,260
22,910

During the year the Sanitary Department paid to the Highway Department $\$ 6,810.39$ for the use of teams. Collections of garbage amounted to 2,275 cords, all of which was disposed of at the department yard.

## Departmental Revenue.

Sale of garbage . . . . . . . . \$16,083 20
The equipment and its valuation follows:

| Horses | . | . | . | . | . | . | . | . |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | $\$ 9,000$ |
| :--- |
| Vehicles |
| Harnesses, blankets, etc. |
| Stable equipment, etc. |
| Sittings in blacksmith shop |
| F |

There is no public dump within the city limits and the dumps now used by this department are located in the city of Medford and are subject to the rules and regulations of the Medford Board of Health.

Respectfully submitted,
Edgar T. Mayhew,
Supt. of Sanitary Department.

## REPORT OF THE LICENSE COMMISSION.

To His Honor the Mayor,

## Dear Sir:-

The License Commission respectfully begs leave to submit to you and the people of our city the following report of its engagements and activities since its creation early last year. Your commission entered upon its duties zealously and with a keen desire to respond fully to the obligations imposed upon it.

Applications for Common Victuallers, Lord's Day, Lodging House, Inn Holders and Second Hand Automobile Dealer's Licenses were received and acted upon by the Commission as herein set forth.

## Common Victuallers.

$$
\begin{aligned}
& 60 \text { Applications Received. } \\
& 44 \text { Applications Granted. } \\
& 8 \text { Applications Rejected. } \\
& 10 \text { Licenses Transferred. } \\
& 1 \text { License Revoked. } \\
& \\
& 130 \text { Applications Received. Day. } \\
& 114 \text { Applications Granted. } \\
& 4 \text { Applications Rejected. } \\
& 22 \text { Licenses Transferred. } \\
& 5 \text { Licenses Revoked. } \\
& \\
& 54 \text { Applications Received. } \\
& 50 \text { Applications Granted. } \\
& 4 \text { Applications Rejected. } \\
& 6 \text { Licenses Transferred. } \\
& 3 \text { Licenses Revoked. } \\
& \text {. } \\
& 2 \text { Applications Received. } \\
& 2 \text { Applications Granted. } \\
& \text { Applications Rejected. } \\
& \text { Licenses Transferred. } \\
& \text { Licenses Revoked. }
\end{aligned}
$$

## Second Hand Automobile Dealers.

57 Applications Received. 39 Applications Granted. Applications Rejected.
1 License Transferred.
2 Licenses Revoked.

During the year 298 applications for licenses were received and carefully investigated and your commission was at all times in close touch with conditions respecting licensed places and rules and regulations governing licensed places have been adopted by the commission looking to the proper administration of licensed places.

Lodging houses have been compelled to carry registers which have been and will continue to be of considerable service and assistance to the Assessors and the Police Depart. ment. Abuses existing in the past in some of the eating places of the city have been eradicated through the co-operation of the holders of the licenses.

During December of this year special meetings of the commission were held to enable holders of second hand automobile dealers licenses to renew their licenses and thus obtain their number plates in time to comply with the new regulations of the Highway Commission.

The commission wishes to acknowledge the splendid and valuable services rendered it by its Inspector Daniel G. Simonds in investigations and Miss Anne M. Gridley, who has served your commission in the capacity of secretary.

Very respectfully submitted,

Eugene M. Carman, Chairman, Wthliam H. Smith, William J. Shanahan.

## sOMERVILLE WATER WORKS.

## SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Settled, when part of Charlestown, 1630.
(Home of Colonial Governor John Winthrop).
Incorporated a town, 1842.
Established a city, 1872.

Location: Somerville City Hall (near centre of the city) is $23 / 4$ 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, 1920 census, 93,033 .
Present population, estimated, 94,000 .
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. Charles W. Eldridge,
Water Commissioner.
Frank E. Merrill.

## Office of the Water Department. <br> Room 10, City Hall.

## Department Buildings and Yard. <br> Cedar street, near Broadway.

## ADMINISTRATION OF WATER WORKS VESTED AS FOLLOWS:

$1868-1871$
:SOMERVILLE MYSTIC WATER COMMITTEE ( 5
Acts 1868; Chap. 202

1872-1890
:SOMERVILLE MYSTIC WATER BOARD (5)
Acts 1871; Chap. 182

1891-1897
SOMERVILLE MYSTIC WATER BOARD (3)
Acts 1890; Chap. 218

1898-1899
BOARD OF WATER COMMISSIONERS (3)
Acts 1898; Chap. 33

1900 -
WWATER COMMISSIONER (1)
Acts 1899; Chap. 240

REPORT OF THE WATER COMMISSIONER.

Office of the Water Commissioner, January, 192l.

To His Honor, the Mayor, and the Board of Aldermen:-
I present herewith my report for the year ending December 31,1920 , this being the forty-seventh annual report of the water department and my twenty-first as water commissioner:

## Revenue and Expenditures.

Water bīlls have been issued as follows:-
"Annual" water charges, amounting to . . . . , $\$ 40,22950$
"Additional" water charges, amounting to
1,230 63
"Metered" water charges, amounting to
216,246 33
$\$ 257,70646$


This amount was used as follows:-
For water works purposes:-

## Under Control of the Water Commissioner.



## Not Under Control of the Water Commissioner.

| Interest on water loan bonds | . | $\$ 80$ | 00 |
| :--- | :--- | ---: | :--- |
| Maturing water loan bonds | . | 2,000 | 00 |
| Metropolitan water works assessment | . | 127,505 | 74 |
| Maintenance water works buildings | . | 986 | 64 |

For other municipal purposes:-

> Not Under Control of the Water Commissioner.

Surplus
$\$ 60,29743$
$\$ 262,66634$

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 Recelpts and Disbursements. <br> WATER MAINTENANCE ACCOUNT.

| Appropriation made by Board of Aldermen |  | \$62,500 00 |
| :---: | :---: | :---: |
| Transferred from Water Works Extension account |  | 3,400 00 |
| Department accounts; receipts |  | 1,094 64 |
| Water works extension account; receipts |  | 4,500 15 |
| Amount expended for labor and materials for operation, maintenance, and renewal of |  |  |
| the water works . . . | \$61,306 77 |  |
| Amount expended for materials used in extension of the water works | 4,50015 |  |
| Miscellaneous accounts . | 4,438 36 |  |
| Labor and materials furnished municipal de partments | 1,094 64 |  |
| Balance: |  |  |
| Unexpended | 15487 |  |
|  | \$71,494 79 | \$71,494 79 |

## WATER WORKS EXTENSION ACCOUNT.

Appropriation made by Board of Aldermen
$\$ 12,00000$
Amount expended for labor and materials used in extension of the water works $\$ 6,05140$
Transferred by Board of Aldermen:
to Water Maintenance Account . . 3,400 00
to Interest account . . . . . 2,400 00
Balance: unexpended

14860

## Cost of Water Works.

The total cost of water works on December 31, 1919, as represented by the expenditures from appropriations for water works extension was
\$1,073,196 79
Expended during the year 1920, on extension account

6,051 40
Total expenditures, December 31, 1920
$\$ 1,079,24819$

## Water Debt.

Water loan bonds have been issued on funded debt account to the amount of $\$ 1,017,000$; the last of these bonds was paid in October, 1920, and there is now no water-works debt.

Water Works Income from 1898 and its Distribution.
The water income and its distribution from 1898 to 1920 , inclusive, is shown in the following table:-
'Total water income, years 1898 to 1920 , inclusive
$\$ 5,400,19918$
Distribution:-

## Water Works Account.

Water Works Construction, Renewal, Maintenance, Operation and Misc. Accounts

$$
\$ 1,351,05417
$$

Water bonds . . . . . . 274,00000
Interest . . . . . 86,575 00
Metropolitan Water Assessments . . 2,143,799 90
Maintenance Water Works buildings . 5,849 33
\$3,861,278 40

## Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account
\$1,538,920 78
$\$ 5,400,19918$

## Water Distribution System - Construction

STREET MAINS.
Approximate number of feet of street mains in the city, January 1, 1920, (including hydrant branches and blow-offs)
Feet of-street mains laid in 1920 1,095
Feet of hydrant branches laid in $1920 . \quad . \quad . \quad 114$
Feet of blow-off branches laid in 1920
Total feet of pipe laid

Freet of pipe removed or replaced . . . 974
Net increase in feet of pipe
Total approximate feet of pipe in the city
541,893
Total pipe mileage, approximately

The sizes and lengths of pipe laid and discontinued are as follows :-

|  | Feet | Feet |  | Feet | Feet |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Size | Laid | Discontinued | Size | Laid | Discontinued |
| $1^{\prime \prime}$ | $\cdot$ | 179 | $4^{\prime \prime}$ | 21 | 72 |
| . | $\cdot$ | $\cdot$ | $6^{\prime \prime}$ | 391 | 655 |
| . | $\cdot$ | $\cdot$ | $8^{\prime \prime}$ | $6 \dot{2}$ | 50 |
| $2^{\prime \prime}$ | 139 | 18 | $10^{\prime \prime}$ | 62 | $\cdot$ |
|  |  |  | $182^{\prime \prime}$ | 609 | . |

The pipes constructed and replaced luring the year are as follows:-

Total number of private fire hỳdrantsreceiving their supply from the citymains64
Number of gates in city, January 1, 19201,856
Number set during the year for streets ..... 6
Number of section gates set ..... 0
Number set on hydrant branches ..... 24
Number set on blow-off branches ..... 2
Number set on car-sprinkler connections ..... 0
Number of street gates removed ..... 632
Number of waterpost gates removed ..... 2
Net increase in number of gates ..... 24

## 24

Total number of gates in city .Number of check-valves in cityNumber of blow-offs in city January 1, 1920Number added during the year ..... 2
Total number of blow-offs ..... 185
Number of waterposts in city January 1, 1920 ..... 74 ..... 2
Total number of waterposts72
Number of drinking fountains in city ..... 8
Number of car-sprinkler, connections in city ..... 17

## Water Services.

Number of services in city January 1, 1920 (approximately)
Number laid during the year
18
Number permanently discontinued
Net increase in servicesTotal number of water services in city
Amount received for services laid in 1920Number feet service pipe in city January 1,1920 (city and private) approximately467,177
Number feet laid during the year ..... 1,214
Number feet discontinued ..... 845
Increase in feet of service pipe ..... 369

Total feet service pipe (city and private) (approximately)
Total service mileage (approximately)183

## -

## 8

Size, number and length of services installed in 1920:


## Water Meters.

| Number of water meters in city, January 1, 1920 |  |
| :---: | :---: |
| Number installed during the year, new | 160 |
| Number reset | 123 |
|  | 283 |

Number removed on account of permanent or tem- porary discontinuance of water and for sub- stitution of other meters ..... 133
Net increase in number of operating meters ..... 150
Number of motor registers in service ..... 3
Total number of meters and registers ..... 10,472
Per cent. of all services metered ..... 77.26

Operating Meters December 31, 1920.

| Size | $5 / 8^{\prime \prime}$ | $3 / 4^{\prime \prime}$ | $1^{\prime \prime}$ | $112^{\prime \prime}$ | $2^{\prime \prime}$ | $3^{\prime \prime}$ | $4^{\prime \prime}$ | $6^{\prime \prime}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. 10052 | 273 | 87 | 15 | 26 | 8 | 6 | 2 | 10469 |

Motor and elevator registers

The meters installed in 1920 were classed as follows:-
Applications of property owners ..... 32
New services ..... 45
General installation ..... 83
Reset ..... 123
Total ..... 283
Meters were removed for the following causes :-
Vacancies and temporary non-use of water ..... 60
Services permanently discontinued ..... 13
Replaced by other meters ..... 60
Total ..... 133

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928 :-

| Year | Average installation required on old services ol | Meters set on services | Set in excess of requirements | Total excess | Meters set on new services. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1908 | 411 | 755 | 344 | 344 | 147 |
| 1909 | ......... 411 | 637 | 226 | 570 | 201 |
| 1910 | ........ 411 | 501 | 90 | 660 | 169 |
| 1911 | ... 411 | 528 | 117 | 777 | 200 |
| 1912 | .... 411 | 423 | 12 | 789 | 236 |
| 1913 | ......... 411 | 432 | 21 | 810 | 255 |
| 1914 | .... 411 | 422 | 11 | 821 | 231 |
| 1915 | ... 411 | 439 | 28 | 849 | 217 |
| 1916 | ... 411 | 434 | 23 | 872 | 203 |
| 1917 | .... 411 | 163 | 248 (less)* | * 624 | 154 |
| 1918 | ...... 411 | 82 | 329 (less)* | * 295 | 39 |
| 1919 | ...... 411 | 166 | 245 (less)* | * 50 | 23 |
| 1920 | ..... 411 | 115 | 296 (less)* | $246 \dagger$ | 45 |

* On account of war-time conditions of labor and material.
$\dagger$ Deficiency.

The tollowing table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption :


Summary of Pipes and Fixtures of the Water System
December 31, 1920.


## 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 | 44546 | 109,232 14 |
| 1913........ | 24,930 94 | 20,691 19 | 70,206 83 | 49192 | 116,320 88 |
| 1914. | 14,190 98 | 22,488 71 | 73,138 81 | 18063 | 109,999 13 |
| 1915. | 14,164 65 | 21,376 07 | 74,111 12 | 1,129 50 | 110,781 34 |
| 1916. | 13,249 71 | 21,643 98 | 74,058 98 | 1,515 62 | 110,468 29 |
| 1917. | 13,364 71 | 28,110 19 | 75,117 17 | 1,833 60 | 118,425 67 |
| 1918... | 14,193 89 | 29,185 04 | 79,975 44 | 2,004 18 | 125,358 55 |
| 1919........ | 13,765 81 | 33,723 64 | 78,335 58 | 2,257 87 | 128,082 90 |
| 1920........ | 12,559 45 | 37,814 68 | 74,903 80 | 2,227 81 | 127,505 74 |

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 1920 :-

|  | Gallons <br> per day | Gallons <br> per capita | Month | Gallons | Gallons |
| :--- | :---: | :---: | :--- | :---: | :---: |
| Month |  | day | per capita |  |  |

The consumption for the year was:-

| Low-service system | 2,058,666,000 gallons: |
| :---: | :---: |
| High-service system | 568,240,000 gallons |
| Total consumption | 2,626,906,000 gallons |
| Average daily consumption | 7,177,300 gallons |
| Average daily consumption, per capita, for Somerville $\qquad$ | 77 gallons |
| Average daily consumption, per capita, for Metropolitan district | 105 gallons |

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan Water District for the year 1920, as registered by the Metropolitan meters.

| City or Tow | Jan | Fe |  | Ap |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Arlington | 57 | 59 | 54 | 50 | 55 | 54 | 66 | 77 | 57 | 53 | 49 | 48 | 56 |
| Belmont | 54 | 55 | 57 | 60 | 51 | 52 | 57 | 70 | 54 | 50 | 47 | 46 | 54 |
| Boston | 148 | 147 | 134 | 119 | 114 | 122 | 122 | 122 | 120 | 121 | 117 | 116 | 125 |
| Chelsea | 94 | 90 | 85 | 77 | 74 | 72 | 75 | 74 | 75 | 69 | 65 | 66 | 76 |
| Everett | 96 | 92 | 89 | 81 | 80 | 80 | 82 | 85 | 84 | 85 | 87 | 86 | 86 |
| Lexington | 63 | 62 | 70 | 62 | 64 | 67 | 74 | 84 | 68 | 66 | 61 | 57 | 66 |
| Malden | 58 | 59 | 57 | 55 | 55 | 56 | 58 | 64. | 60 | 55 | 53 | 40 | 57 |
| Medford | 49 | 48 | 46 | 42 | 45 | 46 | 48 | 44 | 42 | 42 | 40 | 40 | 44 |
| Melrose | 64 | 64 | 67 | 59 | 57 | 58 | 63 | 67 | 61 | 59 | 55 | 54 | 61 |
| Milton | 44 | 46 | 48 | 44 | 45 | 49 | 47 | 43 | 45 | 49 | 48 | 43 | 46 |
| Nahant | 123 | 119 | 95 | 74 | 122 | 169 | 281 | 272 | 205 | 127 | 78 | 66 | 145 |
| Quincy | 105 | 103 | 93 | 89 | 88 | 92 | 95 | 98 | 94 | 90 | 86 | 85 | 93 |
| Revere | 73 | . 72 | 66 | 60 | 63 | 69 | 80 | 78 | 68 | 63 | 62 | 59 | 68 |
| Somerville | 92 | 89 | 85 | 74 | 73 | 73 | 75 | 75 | 72 | 72 | 71 | 70 | 77 |
| Stoneham | 129 | 131 | 127 | 99 | 91 | 92 | 98 | 102 | 84 | 85 | 80 | 83 | 100 |
| Swampscott | 63 | 65 | 67 | 66 | 73 | 89 | 112 | 113 | 96 | 80 | 72 | 70 | 81 |
| Watertown | 97 | 105 | 98 | 95 | 94 | 96 | 99 | 101 | 88 | 71 | 65 | 65 | 89 |
| Winthrop | 56 | 156 | 56 | 50 | 52 | 54 | 70 | 71 | $59^{\circ}$ | 52 | 49 | 48 | 56 |
| Met. Dist. | 123. | 121 | 112 | 100 | 96 | 102 | 104 | 105 | 101 | 101 | 97 | 96 | 105 |

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1920 :-


## Construction - Maintenance - Operation.

Substantially the same conditions in building costs prevailed as during the previous year and but little call has arisen for extension of the water distribution system.

The only construction work of importance was the installation of a $6^{\prime \prime}$ main in the unpiped portion of Windsor street, in anticipation of the laying of permanent paving.

The right to lay a water pipe in Linden Place having been granted to the city by the abutting owners a $2^{\prime \prime}$ pipe was installed in place of the existing service pipe which was badly corroded and unserviceable.

In anticipation of the permanent paving of a portion of Linwood street the old $6^{\prime \prime}$ main was replaced with a $12^{\prime \prime}$ pipe between Congress place and Dix place, and side street branches, hydrant branches and service pipes in that section of the street were renewed.

A blow-off was constructed in Linwood street at the crossing of Poplar street; also one in Union square westerly from Stone avenue.

By order of the Board of Aldermen the large fire hydrant which has stood in the middle of Union square for many years was removed to make way for a monument to the veterans of the World War; a smaller hydrant has been substituted for the
one removed and has been installed in the sidewalk westerly from Stone avenue.

Several fire hydrants have been broken by motor cars and trucks and bills for replacement have been rendered and collected.

Service installation has reached a very low point, only twenty-eight having been laid during the year; ten old ones were discontinued leaving a net increase of but ten services. Installation was in the following class of premises:

| Church | 1. | Office building | . |
| :---: | :---: | :---: | :---: |
| Factories | 2 | Residences | . |
| Factory fire pipes | 2 | Stores |  |
| Garages | 5 | Warehouse; service | and fire |
| Gasoline filling station | 1 | pipes combined |  |
| Laundry | 1 | Yards and shops . |  |

The service maintenance account is yearly growing as the older pipes become filled up with sediment and rust and during the summer season it requires two gangs to keep up with the demands for attention.

During the year we attended to and improved 1,185 cases of deficient service.

On account of inability to obtain the proper quality of labor we were obliged to slow down on water meter installation and at the end of the year we faced a deficiency of 246 in the number required for the city's installation under the State Meterage Act. Steps have been taken, however, to remedy this situation and before the end of another year we shall have caught up with our quota.

Water income for the year has shown a substantial increase, amounting to $\$ 262,666.34$ as compared with $\$ 248,544.27$ the previous year.

Department accounts show all bills contracted for payment during the year as settled and substantial unexpended balances at the closing of the books.

## Labor

The only change in the wage rate was that of May 2 when wages were advanced by the mayor 25 cents a day, making the rate for common labor $\$ 4.00$ a day and for skilled labor $\$ 4.10$ a day; the same advance was granted to the foremen and meter readers.

## Pensions

Two names have been added to the pension list during the year, viz: Patrick J. Bergin to date from May 20th at rate of $\$ 12.30$ a week and John Brady to date from November 17 at
rate of $\$ 12.00$ a week. There are now six pensioners on the water department list.

## Water Debt

A noteworthy event of the year was the extinguishment of the water debt, the last of the water loan bonds having been paid in October.

Bonds were issued at intervals from 1869 to 1896, the total amounting to $\$ 1,017,000$; since the latter date the entire cost of maintenance and extension of the water-works system has been paid from the water income, together with the maturing bonds, interest charges, Metropolitan water assessments and other accounts.

## Shop Improvements

I sincerely hope that some action may be taken during the coming year toward improving the working conditions at our shop. None of the changes that I recommended last year have been carried out and we are still handicapped by lack of proper facilities to carry on our necessary and ever-increasing repair work; this can and should be remedied at an early date.

> Respectfully submitted, $$
\text { Frank E. Merrill, }
$$ Water Commissioner.

Street Mains, Gates, Hydrants, Etc., Laid, Set, and Removed in 1920.






## SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1920.

In form recommended by the New England Water Works Association.

## SOMERVILLE WATER WORKS

SOMERVILLE, MIDDLESEX COUNTY, MASS.

## General Statistics.

Population, census $1920 ; 93,033$; present, estimated 94,000 .
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 pressure, by the Metropolitan Water Works.

## Statistics of Consumption of Water.

Census population, $1920,93,033$.
Population on lines of pipe, Dec. 31, 1920, 94,000 .
Population suppli,ed, Dec. 31, 1920, 94,000.
Total consumption for the year, $2,626,906,000$ gallons.
Average daily consumption, 7,177,300 gallons.
Gallons per day to each inhabitant, 77.
Statistics Relating to Distribution System, 1920.
MAINS.
Kind of pipe, cast iron.
Sizes, from 4 -inch and under to 20 -inch.
Laid 1,222 feet; discontinued 974 feet; net extension, 248 feet.
Total now in use, 102.63 miles.
Number of hydrants added during year (public, 2; private, 0 ), 2.
Number of hydrants (public and private) now in use, 1,243.
Number of stop gates added during year, 24.
Number of stop gates now in use, 1,880 .
Number of blow-offs, 185.
Range of pressure on mains, 35 pounds to 100 pounds.

## SERVICES.

Kind of pipe: Lead; wrought iron - lead-lined; wrought iron -cement-lined; cast iron.

Sizes, one-half to eight inches.
Extended 1,214 feet; discontinued 845 feet.
Total now in use, 88.55 miles.
Number of service taps added, 28; discontinued, 18; net increase,
10.

Number now in use, 13,554 .
Number of meters added, 283; meters and motor registers discontinued, 133; net increase, 150.

Number now in use, 10.472.
Percentage of services metered, 76.26.
Percentage of water receipts from metered services, 84.
Number of motors and elevator registers added, 0 ; removed, 0.
Number now in use, 3 (included in number of meters).

|  |
| :---: |
|  |  |

$\$ 6,05140$
127,50574

[^12]

1\& 999' $997 \$$


## REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

Office of Sealer of Weights and Measures, City Hall Annex, Somerville, January 1, 1920.

To His Honor, the Mayor, and the Board of Aldermen :-
The following report of the sealer of weights and measures for the year 1920 is respectfully submitted:-

During the past year, a great many inquiries have been received from the citizens of our city, indicating their interest relative to matters of weights and measures, and numerous compleints have been investigated and adjusted satisfactorily between the parties concerned. Two cases have been prospcuted and convictions obtained.

The total tests as shown in the following table are less numerous than last year owing in a great extent to the fact that many of the old measures and even balances and weights are being discarded for the modern computing scale.

Particular attention has been paid to gasoline and oil pumps as these need more attention than any other measuring device.

## ANNUAL REPORT.

Work of Weights and Measures Department for 1919.

| Number of scales sealed | 1,665 |  |
| :---: | :---: | :---: |
| Number of weights sealed | 3,781 |  |
| Number of dry measures sealed | 64 |  |
| Number of liquid measures sealed | 4,948 |  |
| Number of oil and gas pumps sealed | 176 |  |
| Number of yard sticks sealed | 141 |  |
| Number of miscellaneous sealed wood baskets | 34 |  |
| Total |  | 10,809 |
| Number of scales adjusted | 37 |  |
| Number of weights adjusted | 55 |  |
| Total |  | 92 |

Number of scales condemned ..... 5
Number of weights condemned ..... 23
Number of dry measures condemned ..... 3
Number of liquid measures condemned ..... 45
Number of yard sticks condemned ..... 0
Number of Gas pumps condemned ..... 0
Total ..... 76
Number of scales and weights out of use non- sealed ..... 14
Number of inspections in stores and street. ..... 343

Benjamin S. Abbott, Sealer of Weights and Measures.

## REPORT OF THE LAW DEPARTMENT.

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

The annual report of the law department for the year ending December 31, 1920, is as follows :

A petition and bill were presented to the legislature for changing the boundary line between Somerville and Medford. The city governments of the two cities were unable to agree upon the changes to be made and no act was passed by the legislature.

Hearings were held before a committee of the legislature and before the Middlesex county commissioners in regard to the proposd widening of Bridge street in Cambridge. The cost was estimated at several hundred thousand dollars and no decision could be reached as to where the cost should fall and no definite action was taken. It seems to me unfair that any special burden should be placed on the city of Somerville for this improvement.

An act was secured making more clear the law relative to the protection of persons furnishing materials or labor for public works. Chapter 210 of the Acts of 1920.

I acted for the prosecution in a number of cases in behalf of the board of health and the inspector of milk.

A claim before the industrial accident board was tried and a decision was given in favor of the city, but the contractor who employed the claimant paid him a substantial sum of money at my suggestion. A hearing which lasted five days was held in the Somerville police court on an appeal by a fireman who had been discharged by the city government. His discharge was sustained by the court. Claims for injuries received by reason of defects in public ways were settled for an amount considerably less than the average in former years.

Very respectfully, Frank W. Kaan,

## REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

Somerville, Mass., January 31, 19:1.To His Honor, the Mayor, and the Board of Altermen,Gentlemen, - Herewith I have the honor of submitting,for your information, the annual report of the fire departmentfor the year ending December 31, 1920 :-
Alarms of Fire.
Number of bell alarms ..... 240
Number of still alarms ..... 448
Total alarms ..... 688
Number in excess of 1919 ..... 26
Value of buildings at risk ..... \$653,945 00
Insurance on buildings ..... 411,650 00
Damage to buildings ..... 74,396 00
Value of contents ..... 303,825 00
Insurance on contents ..... 229,975 00
Damage to contents ..... 61,832 95
Total value at risk ..... 957,770 00
Total insurance ..... 641,625 00
Total damage ..... 136,228 95
List of Probable Causes.
Accidental ..... 5
Automobiles ..... 13
Bonfires ..... 15
Candle dropped in bale of oakum ..... 1
Carelessness with matches ..... 5
Careless meter man ..... 3
Children playing with matches ..... 18
Cigar or cigarette thrown on awning ..... 4
Cigars, cigarettes and pipes ..... 15
Closet fires ..... 5
Clothing hanging too near stove ..... 3
Decorations on Christmas tree ..... 2
Defective chimneys ..... 9
Defective stovepipe ..... 5
Dump fires ..... 4
Electric car ..... 3
Electric wires ..... 3
False alarms ..... 46
Filling gas tanks on automobiles ..... 5
Firecrackers ..... 2
Fire in Boston ..... 3
Fire in Cambridge ..... 2
Fire in Medford ..... 2
Grass fires ..... 14
Hot ashes in wooden receptacles ..... 6
Incendiary ..... 6
Smoke from Chimney ..... 4
Smoking in bed ..... 4
Spark from forge ..... 3
Spark from furnace ..... 5
Spark from Locomotive ..... 4
Spark on roof ..... 5
Spontaneous Combustion ..... 5
Thawing water pipes ..... 3
Unknown ..... 4
Wood near stove ..... 2
Wires on trees and poles ..... 2










-I əu!sury on on Ho

Bell alarms responded to
Still alarms responded to
Miles traveled
Feet of $21 / 2$ in. hose used
Feet of chemical hose used
Feet of ladders used
Chemical extinguish-
ers used
Gallons of chemical used.
Times on duty at other
stations
Times responded out of
town
Rubber covers used

On February 2nd. the two-platoon system was inaugurated in compliance with the Act of the Legislature, Chapter 132 Acts of 1919 , by the voters at the election November 2nd., this necessitatel the addition of thirty men to the permanent force that the minimum efficiency may be maintained. During the year one (1) permanent man resigned, one was discharged, one (1) callman was adranced to the permanent force, one (1) resigned and two (2) placed on the pension roll. The membership of the department now consists of one-hundred and ten permanent men and five (5) callmen classified as follows,-

## Manual Force.

1 Chief Engineer,
1 Deputy Chief,
1 District Chief,
7 Captains,
1 Master Mechanic,
11 Lieutenants,
3 Enginemen,
85 Permanent men,
5 Callmen.

## Apparatus.

1 Second size, horse drawn steam fire engine,
1 Third size, horse drawn steam fire engine,
2 Horse drawn combination chemicai and hose wagon,
1 Horse drawn hose wagon,
1 Horse drawn combination chemical and ladder truck,
1 Horse drawn ladder truck,
1 Motor driven ladder truck,
4 Motor driven combination chemical and hose wagons,
1 Second size tractor drawn steam fire engine,
1 Motor driven 900 gallon pumping engine and hose wagon,
1 Motor driven 750 gallon pumping engine and chemical,
1 Motor driven supply and wrecking wagon,
1 Automobile, chief's car,
1 Automobile, deputy chief's car,
1 Automobile, 'district chief's car,
1 Automobile, Master Mechanic's car,
1 Horse drawn chief's buggy,
1 Horse drawn relief ladder truck,
3 Horse drawn exercising wagons,
1 Supply wagon.

## Horses.

There are nineteen (19) horses in the department, two (2) have died and two ( 2 ) have been purchased during the year. Six of the horses located at Engine No. 6 Station will be im-
mediately disposed of inasmuch as this station has been fully motorized. No more horses will be purchased unless some unforeseen accident arises.

## Hose.

The amount of serviceable hose is 8,850 feet of two and one half inch double jacket, rubber lined, cotton hose and 1,750 feet of three quarter inch chemical hose. There has been purchased 500 feet of two and one half inch hose, and 1,150 feet condemned. As stated in my previous reports, there should be at least 12,000 feet of two and one half inch hose in the department, at least 2,000 feet should be purchased this year.

## Brief Resume.

The average loss has been $\$ 11,350$. a month, being $\$ 5,000$ a month more than the previous year. The months of January and February totalled one half of the entire year's loss.

The following table gives the losses by months, -


There have been twenty fires with an insurance loss in excess of $\$ 1,000$. as follows, -

January 5, 7:35 A. M. Box 225, 37 Union Square, the Bacon Hall building owned by Herbert Jay; occupants involved, H. G. Applin and W. N. Casey ; damage to building $\$ 950$. to contents $\$ 76$. the probable cause, steam pipe and rubbish.

January 5, 8:17 P. M. Box 443, a second alarm was sounded for this fire, 2 College Circle, commercial building owned by E. S. Sparrow, the occupants, Baker School Supply Co. and others, damage to building $\$ 4,250$. to contents $\$ 5,835$. Cause, spontaneous combustion.

January 7, 8:40 A. M. Box 337, Incinerator owned by the City of Somerville, occupied by D. DeStefano Co. damage to building $\$ 2,500$. to contents $\$ 3,400$. Cause, spark in waste paper.

January 15, $10: 53$ P. M. Box 225, 285 Washington Street, wood working mill owned and occupied by Davenport-Brown Company, damage to building $\$ 200$. to contents $\$ 4,115.79$ due to water damage from sprinkler system. Cause, spark falling into sawdust.
.January 19, 11 :38 A. M. Box 28, 33 Laurel Street, dwelling owned and occupied by Andrew McLaughlin, damage to building, $\$ 3,800$. to contents $\$ 850$. Cause, overheated heater.

January 22, $4: 35$ P. M. Box 15, a second alarm was sounded for this fire, 48 Washington Street, New England Vinegar Works owned and occupied by Arthur E. Rowse, damage to buildings $\$ 2,281$. to contents $\$ 8,980.15$. Cause, careless smoker.

February 1, 12:22 A. M. Apartments and store at 245-247 Highland Avenue owned by Thomas .J. Conroy, occupants, L. M. Copeland et al. damage to building $\$ 452.63$; to contents, $\$ 5,607$. Cause, defective heater.

February 17, 10 :55 P. M. Box 24, Columbia Street, Storage warehouse and stable owned by J. P. O'Neil, occupied by Consolidated Paper Bag Co., damage to building $\$ 800$. to contents \$5,000. Cause, careless smoker.

February $20,8: 12$ P. M. Box $42: 3,2: 33 b$ Highland Arenue, stores and apartments owned by Mrs. Mary Reid, occupied by owner et. al. damage to building $\$ \geq, 300$. to contents $\$ 40$. Cause, lamp igniting draperies.

February $27.7: 36$ A. M. Box 116 , a second alarm was sombled for this fire, 106-118 Broadway, block of dwellings owned by .Joseph Cohen and others; occupants Emanuel Horne et. al. damage to buildings $\$ 7,927.70$. to contents $\$ 1,780$. Cause, overheated stove.

April 1, 2: : 1 P. M. Box 225, a second alarm was sounded for this fire, 37 Union Square, Bacon Hall Building owned by Herbert Jay, occupied by Garhart Dental Specialties Co. and others; damage to building $\$ 18,774$. to contents $\$ 6,418$. Cause, defective chimney connection.

April 6, $8: 09$ P. M. Box 25-225, 6 Union Square, Storehouse and offices owned by Charles H. Brigham; occupied by Brydle Building Material Co. damage to building $\$ 1,500$. to contents $\$ 2,800$. Cause, careless smoker.

April 23, $8: 50$ P. M. Box $448-452$, Elevated Railroad car park at Clarendon Hill, owned by B. E. Ry. Co. damage to cars and snow plow $\$ 1,800$. Cause, electric wires.

May 1, $3: 32$ P. M. Box 42, 29 Kent Street, Chemical \&

Coloring Works owned and occupied by W. F. Beattie, damage to building $\$ 2,000$. to contents $\$ 10,000$. Cause, defective motor in boiler room.

August 10, $1: 55$ A. M. Box 42, 1 Beckwith Circle, Apartment house owned by Jacob Leventhal, occupants Daniel O'Keefe et. al. damage to building $\$ 1,300$. to contents no claim. Cause, overheated gas stove.

October 17, $10: 13$ P. M. Box 217, Cummings School building on School Street owned by the City of Somerville, damage to building and contents $\$ 3,285$. Cause, spontaneous combustion.

October 20, 7:09 A. M. Box 431, 44 Lexington Avenue, dwelling owned by E. O. Russell and occupied by owner and another, damage to building $\$ 1,134$. to contents $\$ 251.40$. Cause, hot ashes in wooden receptacle.

November 7, 8:00 A. M. Box 336, 140 Central Street, dwelling owned by Charles F. Maguire M. D. occupants George Simpson et. al. damage to building $\$ 5,800$. to contents $\$ 1,600$. Cause, cloths in hot water boiler closet.

December 19, $9: 54$ A. M. Box 431, 50 Lexington Avenue, dwelling owned by Charles E. Byrnes, occupied by owner and another, damage to building $\$ 1,198$. to contents $\$ 276$. Cause defective stove pipe.

December 29, 5:30 P. M. Box 446, 141 Orchard Street, dwelling owned by Henry S. Wilkins, occupants Carl C. Rideout et. al. damage to building $\$ 1,435$. to contents $\$ 141$. Probable cause, careless smoker.

F'alse Alarms lead the list of all causes for calling out the apparatus, each year this class of alarms increases in number, some immediate steps should be taken to apprehend and prosecute this class of criminal offenders; the detailing of a man to follow up each case, as it occurs, would be profitable inasmuch as more than $75 \%$ of the damage to apparatus occurs when answering false alarms and this is not inconsiderable. Every self respecting citizen, having his community's interest at heart, should lend assistance in every possible way to gain and give information leading to the capture of the false alarm ringers, one never knows, when the department is responding to a useless alarm, how soon his own home and property needs that very apparatus to save his possessions from destruction.

Defective Chimneys and Connections, This class of fires can be eliminated entirely by the employment of a little time or money in having the chimneys cleaned each year. This character of fire is one of the hardest that the department has to cope with inasmuch as chimneys are invariably constructed
in or near the center of the building, inclosed in lath and plaster and timbers, thereby causing considerable damage to the interior walls and ceilings in their extinguishment.

Hot Ashes In Wooden Receptucles, Again hot ashes, in improper receptacles, come to the forefront as one of the useless causes of fire alarms, the small expense needed to procure proper metal barrels is insignificant when compared with the usual loss incident to fires caused by the use of wooden boxes or barrels; as I have urged in many previous reports, I again ask that an ordinance be passed prohibiting the use of anything other than metal receptacles.

Children Playing With Matches, Again fatalities have attended this class of fires; on March 20th. three small children, left alone in their home, got possession of matches left in a most favorable place for such purposes and set fire to their bedding and clothing resulting in most painful burns from which two of them died and the third maimed for life. Everything possible has been said by department chiefs, newspaperarticles and fire prevention papers and notices to warn careless and negligent parents of this ever present danger, yet in our commadity alone we have been called, not counting the many times it has occurred without our knowledge or notice being given, twenty-eight times this past year. Daily we are being solicited to save the lives of imocent children the world over, here is the opportunity to also do some home missionary work.

## Recommendations.

During the year contract have been made to purchase motor apparatus to complete the motorization of six of the eight stations; on December 13th. an Auburn Roadster was put into service for the use of the district chief and on December 31st. a triple combination Seagraves pumper was assigued to Engine No. 6 Station ; on or about February 1, 1921, a Seagraves city service truck will replace Ladder No. 3 at Engine ${ }^{2}$ Station. There are but two stations wherein the equipment is not motorized and it is my recommendation that these two stations be given consideration the coming year; four more pieces will fully equip the department with motor apparatus.

Engine No. 4 Station, located at the corner of Highland Avenue and Grove Street, has been built forty-eight years, and is in such a condition and of such a type as to be totally unsuit ed for continued use as a fire station, more especially when
motor apparatus is installed. This is a most ideal location and the lot most suitable for the erection of an up-to-date station, I urge this matter be given serious consideration at the very earlest favorable moment.

In Conclusion.
I wish to express my thanks to His Honor the Mayor and to the Board of Aldermen for their confidence and attitude i matters pertaining to the discipline and efficiency of the department.

I commend those officers and members whose lovalty and interest has made it possible for the department to maintain its usual standing and efficiency.
r
Respectfully submitterl,
Sewall M. Rich, Chief Engineer.

## REPORT OF THE CHIEF OF POLICE.

$$
\text { January } 31,1921 .
$$

To the Honorable, the Mayor, and Board of Aldermen of the City of Somerville:-
Gentlemen; - I respectfully submit the annual report of the Somerville police department for the year ending December 31, 1920.

## Arrests



## 1. - Crimes and Offenses Against the Person.



## 2. - Crimes and Offenses Against Property.

Breaking and entering ..... 42
Breaking and entering, attempt ..... 1
Breaking and entering railroad car ..... 1
Breaking and entering railroad cars, attempt ..... 2
Breaking glass ..... 26
Concealment of leased property ..... 1
Destroying electric lamps ..... 19
Destroying electric lamps, attempt ..... 9
Injury to personal property ..... 3
Injury to railroad signal ..... 1
Larceny ..... 122
Larceny, attempt ..... 7
Larceny in building ..... 1
Larceny from person ..... 4
Receiving stolen goods ..... 17
Trespass ..... 101
Trespass, wilful ..... 11
Unlawfully riding freight car ..... 2
Unlawfully taking horse ..... 3
Unlawfully using registered bottles ..... 15
3. - Crimes and Offenses Against Public Order, Etc.
Absent without leave from United States Army ..... 2
Adultery ..... 4
Bastardy ..... 15
Capias ..... 5
Carrying firearms without licence ..... 4
Contempt of court ..... 5
Cruelty to animals ..... 5
Default ..... 18
Deserters from United States Army ..... 2
Deserters from United States Navy ..... 2
Desertion of wife ..... 1
Disturbing public assembly ..... 1
Disorderly house, keeping ..... 2
Disturbing the peace ..... 4
Dog keeping, unlicensed ..... 1
Drunkenness ..... 270
Drunkenness, common ..... 2
Fornication ..... 3
Fugitives from justice ..... 3
Giving false alarms of fire ..... 3
Idle and disorderly ..... 8
Indecent exposure of person ..... 2
Lewdness ..... 9
Lewd cohabitation ..... 8
Lewd and lascivious ..... 2
Lottery, promoting ..... 4
Neglected children ..... 9
Neglect to support ..... 56
Peddling, unlicensed ..... 1
Polygamy ..... 1
Safe keeping, contempt of court ..... 1
Safe keeping, demented ..... 15
Safe keeping, escape from Industrial School ..... 1
Safe keeping, escaped insane inmates ..... 2
Safe keeping, escaped from Lyman School ..... 1
Safe keeping, escaped from Middlesex County training School ..... 1
Safe keeping, infirm ..... 2
Safe keeping, insane ..... 5
Safe keeping, feeble minded ..... 3
Safe keeping, prisoners for out of town officers ..... 2
Safe keeping, runaway children ..... 19
Safe keeping, State ward ..... 1
Stubbornness ..... 10
Suspicious person ..... 1
Straggler from United States Navy ..... 1
Unlawfully having shot gun ..... 1
Vagrants ..... 3
Violation of city ordinances ..... 74
Violation of health regulations ..... 5
Violation of labor laws ..... 20
Violation of liquor laws ..... 17
Violation of Lord's Day ..... 64
Violation of milk laws ..... 21
Violation of motor vehicle laws ..... 349
Violation of parole ..... 2
Violation of pool room laws ..... 2
Violation of terms of probation ..... 20
Violation of school laws ..... 25
Violation of weights and measure laws ..... 11

## Recapitulation.

(1) Crimes and Offenses Against the Person ..... 118
(2) Crimes and Offenses Against Property ..... 388
(3) Crimes and Offenses Against Public Or der, etc. ..... 1,131
Total number of arrests made ..... 1,637
Bailed to appear at other courts ..... 14
Cases in which nolle prosequi was entered ..... 43.
Contempt of court ..... 5
Defaulted ..... 15
Delivered to Jail, Superior Court, bail surrender capias, etc. ..... 6
Delivered to police court, violation of proba- tion, etc. ..... 23
Released by probation officer, drunkenness, etc. ..... 15
Surrendered to other officers, institutions, etc. ..... 96
Dismissed by court ..... 1
Pending cases ..... 2
Number of cases held for trial ..... 1,417
NOTE, - Three hundred and seventy-eight of the above number of cases were juveniles and delinquents.

## Miscellaneous Reports.

Abandoned automobiles ..... 38
Abandoned motorcycle ..... 1
Accidents reported ..... 554
Accidental shooting ..... 1
Amount of property stolen ..... $\$ 35,17210$
Amount of stolen property recovered ..... 24,494 17
Amount of property damaged ..... 17670
Amount of property lost ..... 1,674 10
Amount of property found ..... 27768
Assaults ..... 11
Assault and battery ..... 7
Attempts to break and enter ..... 67
Attempts to commit larceny ..... 13
Attempts to commit suicide ..... 6
Attempts to rob ..... 3
Breaking and entering, false alarms of ..... 2
Broken rail, Boston Elevated Railway ..... 1
Buildings broken and entered, nothing stolen ..... 53
Building collapsed ..... 1
Buildings dangerous from snow and ice ..... 3
Buildings found open ..... 363
Burglary, false alarms of ..... 5
Cats killed ..... 2
Cellar flooded ..... 1
Cruelty to animals ..... 3
Dead animals found ..... 13
Defective bridges ..... 12
building ..... 1
catch basins ..... 54
chimney ..... 1
coal hole ..... 1
curb stone ..... 1
drinking fountains ..... 4
electric lamps ..... 4
electric light switch ..... 1
fences ..... s
fences, lighted ..... 2
gas gate boxes ..... 2
hydrants ..... 12
man holes and covers ..... 5
poles ..... 4
police signal service ..... 15
sewers ..... 4
sidewalks ..... 384
sidewalk, lighted ..... 1
signs and sign posts ..... 90
stand pipe ..... 1
streets ..... 116
street, lighted ..... 1
tree guards ..... 3
voting list board ..... 1
" water gate boxes ..... 21
" wires ..... 60
Demented person ..... 1
Disturbances ..... 28
Disturbances suppressed ..... 3

## CHIEF OF POLICE.

36.9
Dogs killed ..... 26
Dogs reported mad ..... 2
Dogs vicious ..... 5
Electric lamps broken ..... 12
Feeble minded boy cared for ..... 1
Fire, alarms given for ..... 4
Fire, danger of ..... 1
Fires extinguished without alarm ..... 3
Fire, false alarms of ..... 35
Fire, needless alarm for ..... 1
Fires reported ..... 170
Gaming ..... 1
Gas leaks ..... 7
Gas poisoning ..... 1
Houses unoccupied ..... 44
Indecent exposure of person ..... 8
Larcenies, no value given ..... 132
Larcenies ..... 423
Lost children ..... 310
Lost children, found ..... 310
Malicious mischief ..... 26
Missing persons ..... 74
Missing persons, found ..... 28
Murder ..... 1
Neglected children ..... 1
Obstructions on railway ..... 2
Obstructions on sidewalk ..... 7
Obstructions on sidewalks, lighted ..... 2
in streets ..... 31
in streets, lighted ..... 4
Panes of glass broken ..... 127
Permits to labor on the Lord's Day ..... 83
Persons bitten by dogs ..... 9
Person helped home ..... 1
Person shot ..... 1
Pole dangerous ..... 1
Property damaged and destroyed ..... 76
Property lost, no value given ..... 69
Property found, no value given ..... 86
Rescued persons from fire ..... 3
Robberies ..... 8
Robbery, attempt ..... 1
Runaway children ..... 29
Runaway children, found ..... 29
Runaway horses
Runaway horses, stopped ..... 4
Runaway team ..... 1
Runaway team stopped ..... 1
Sidewalks dangerous from snow and ice ..... 204
Steps dangerous ..... 2
Steps dangerous from snow and ice ..... 2
Stray bullets fired ..... 2
Stray cats ..... ' 2
Stray cows found
Stray cows found
104
104
Stray dogs
Stray dogs ..... 46
Stray dogs found
8
Stray horses
Stray horses ..... 9
Stray teams ..... 6
Stray teams found ..... 10
Streets dangerous from snow and ice ..... 34
Street lights reported ..... 4,1ヶ9
Streets and sidewalks flooded ..... 27
Strike ..... 1
Subways, flooded ..... ?
Sudden deaths ..... 10
Suicides ..... 5
Summonses served for witnesses and defendants to appear in court at other places ..... 623
Suspicious persons ..... 107
Threats ..... 3
Trees, dangerous ..... 36
Trespass ..... 29
Trespass, wilful ..... 26
Unlawful appropriation of horses ..... 2
Unlocked United States mail box ..... 1
Violation of Board of Health regulations ..... 11
Violation of city ordinances ..... 156
Violation of Lord's Day ..... 1
Violation of motor vehicle laws ..... 17
Walking on railroad track ..... 1
Water pipes, leaking ..... 115
Windows broken ..... 42

## Motor Vehicle Report.

An officer was detailed to investigate, card index and file all transfers of motor vehicles and stolen ones reported.
Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.
First class . . . . . . . . . . 6
Second class42
Third class ..... 9
Total ..... 57
Two licenses were revoked during the year by the Commis- sion.
Number of sales and transfers made by the fifty-seven deal- ers ..... 3,175
Number of individual sales ..... 1,114
Number of stolen motor vehicles reported, by the several Police Departments, Insurance Agencies and Detective Bureaus in the United States and Canada ..... 5,947
Number of motor vehicles reported recovered by same ..... 1.410
Number of index cards printed and filed ..... 19,410

## OFFICIAL ROSTER OF DEPARTMENT.

Chief of Police.
Charles A. Kendall.
Captain.
Eugene A. Carter.
Lieutenants.
Charles E. Woodman

Thomas Damery

William G. Kenney Frank H. Graves
James M. Lynch

John A. Ray.
Inspectors.
James M. Harmon

Michael T. Kennedy

## Sergeants.

Ernest Howard Robert T. Blair Thomas P. Walsh

Patrolmen.
39 - Walter C. Oesting
40 - John L. Cameron
41 - Francis P. Higgins
42 - John J. McCahey
43 - Alexander Morrison
44 - Daniel J. Powers
45 - Jeremiah O'Connor
46 - Charles E. Wilson
47 - William J. Warner
48 - Timothy Buckley
49 - John J. Killourhy
50 - Charles J. Sharry
51 - Thomas M. Sharry
52 - Michael J. O'Loughlin
53 - Charles W. Shepherd
54 - John F. Cruise
55 - John J. Shay
56 - Edward G. Butman
57 - John P. L. O'Keefe
58 - Alfred E. Robitaille
59 - Allan S. Burns
60 - William H. Donovan
61 - George R. Allan
62 - Jeremiah Keniry
63 - James Murray
64 - Charles J. Fulton
65 - Edward F. Culliton
66 - Alfred J. McFadden
67 - James A. Fitzpatrick
68 - Elmer E. G. Raymond
69 - Frank J. Roche
70 - Augustine F. Sharry
71 - Daniel M. O'Connell
72 - Chester C. F. Warner
73 - George D. MacDonald
74 - Charles F. Lacey
75 - William E. Dwyer
76 - Charles H. McAvoy

## Reservemen.

77 - James F. Holmes
78 - Earle W. Elliott
79 - Michael J. Dowd, Jr.

80 - Patrick J. Lyons
81 - Alfred S. Macomber-

Chauffeurs and Patrol Drivers.
James W. Lundergan James H. White
John H. McKenzie.

## Matron.

Mrs. Mina T. Weeks.

## Assistant Matron.

Mrs. Katherine Woods.

## Pensioners, Retired On Half Pay.

John E. Fuller, Mar. 23, 1906 FrederickH. Googins, Mar. 12, 1915
Ira S. Carleton, May 9, 1907 Robert R. Perry, Apr. 14, 1916
James J. Pollard Feb. 27, 1903 Jacob W. Skinner, Dec. 31, 1917
Melville C. Parkhurst, Oct. 31, 1909 Elmer E. Drew, July 25, 1919.
Herbert Hilton, Dec. 21, 1911, Ernest S. Goff, July 11, 1919
Ezra A. Dodge, Mar. 14, 1914 Charles W. Allen, Mar. 26, 1929
George H. Carleton, Mar. 27, 1914 Jotham Chisholm, Apr. 23, 1920

## CHANGES IN FORCE.

Appointments.
James F. Holmes, appointed, reserveman, Apr. 22, 1920. Earle W. Elliott, appointed, reserveman, Apr. 12, 1920. Michael J. Dowd, Jr., appointed, reserveman, Apr. 10, 1920.
Patrick J. Lyons, appointed, reserveman, Apr. 10, 1920.
Alfred S. Macomber, appointed, reserveman, Apr. 10, 1920.

## Promotions.

Reserveman, Daniel M. O'Connell, promoted to patrolman, Jan. 10, 1920. Reserveman, Chester C. F. Warner, promoted to patrolman, Jan. 10, 1920. Reserveman, George D. MacDonald, promoted to patrolman, Jan. 10, 1920. Reserveman, Charles F. Lacey, promoted to patrolman, Apr. 10, 1920. Reserveman, William E. Dwyer, promoted to patrolman, Apr. 10, 1920. Reserveman, Charles H. McAvoy, promoted to patrolman, Apr. 10, 1920.

## Retirements.

Patrolman, Charles W. Allen, placed on pension roll, Mar. 26, 1920. Patrolman, Charles W. Stevens, placed on pension roll, Mar. 29, 1920. Patrolman, Jotham Chisholm, placed on pension roll, Apr. 23, 1920.

## Deaths.

'Retired patrolman, Charles W. Stevens, died May 31, 1920. Patrolman, George L. Smith, died Sept. 27, 1920.
CHIEF OF IOLICE.(3):
Police Signal Service.
Number of on duty calls made by the patrolmen ..... 263,467
Telephone calls made by the officers and patrolmen44,151
"White" Combination Automobile Service.
Number of runs made in conveying prisoners to station ..... 15.
Number of prisoners conveyed ..... 17
Number of sick and injured conveyed ..... 15
Number of miles run in conveying prisoners to station ..... 40.1
Number of miles run in conveying sick and in- jured ..... 40.4
Number of miles run in conveying prisoners to and from jail ..... 11.6
Number of miles run elsewhere ..... 282.9Total number of miles run during the year375.0
"Reo" Combination Automobile Service.
Number of runs made in conveying prisoners to station ..... 378
Number of prisoners conveyed ..... 465
Number of sick and injured conveyed ..... 363
Number of miles run in conveying prisoners to station ..... 769.8
Number of miles run in conveying sick and in- jured ..... 1,200.7
Number of miles run in conveying prisoners to and from jail ..... 305.7
Number of miles run elsewhere ..... 708.9
Total number of miles run during the year ..... 2,985.1
Touring Car Reports.
Number of prisoners conveyed to station ..... 7
Number of sick and injured conveyed ..... 6
Number of prisoners conveyed to and from jail ..... 4Horse Drawn Patrol Wagon, Ambulance and Pung Reports.
Number of runs made in conveying prisoners to station ..... 13
Number of prisoners conveyed ..... 21
Number of miles run in conveying prisoners to station ..... 25
Number of sick and injured conveyed ..... 285
Number of miscellaneous runs ..... 7

## REPORT OF POLICE MATRON.

January 31, 1921.
To Charles A. Kendall, Chief of Police.
Dear Sir:-
I herewith submit my report as matron for the year ending December 31, 1920. The following females and minors were committed to my care, charged with the following offenses, etc.
Accessory before the fact, rape . . . . . 1
Adultery . . . . . . . . . 3
Assault and battery . . . . . . . 7
Breaking glass . . . . . . . . 3
Demented . . . . . . . . 6
Default warrants . . . . . . . 7
Disturbing the peace . . . . . . 2
Drunkenness . . . . . . . . 12
Failure to grant right of way . . . . . 1
Failing to stop automobile after causing injury . 1
Fornication . . . . . . . . 1
Idle and disorderly . . . . . . . 6
Injury to personal property . . . . . 1
Insane . . . . . . . . . , 1
Keeping disorderly house . . . . . . 1
Keeping intoxicating liquors . . . . . 1
Larceny . . . . . . . . . 7
Lewd and lascivious cohabitation . . . . 5
Lewdness . . . . . . . . 3
Lost children . . . . . . . . 53
Neglected children . . . . . . 5
Not stopping automobile on signal . . . . 1
Received stolen property . . . . . . 3
Runaways . . . . . . . . 3
Safe keeping . . . . . . . . 3
Stubbornness . . . . . . . . 2
Threats . . . . . . . . . 2
Trespass . . . . . . . . . 9
Vagrancy . . . . . . . . 1
Violation of board of health rules . . . . 1
Violation, city ordinance . . . . . . 1
Violation of parole . . . . . . . 1
Violation of probation . . . . . . 1
Violation of school laws . . . . . . 3
Total . . . . . . . . 158
I have reported at police station each morning and attended sessions of the juvenile court looking after minors who have been in court.

> Respectfully submitted,
> Mrs. Mina T. Weeks,

Matron.

## Conclusion.

To His Honor the Mayor, Charles W. Eldridge for his continued fairness and sound judgment on all matters concerning this department, members of the board of aldermen, court officials, heads of other city departments for their co-operation, press representatives, and to members of this department for their fidelity to duty, my most sincere thanks are due,

Respectfully submitted,
Charles A. Kendall,
Chief of Police.

## REPORT OF THE CITY CLERK.

> Office of the City Clerk, January $1,1921$.
'To the Honorable, the Mayor and the Board of Aldermen :-
Gentlemen: - The following is respectfully submitted as the forty-ninth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1920.

The receipts and payments were as follows :-

## Receipts.

Balance from year 1919, being for dog li-
censes issued in December, 1919:-


Less city clerk's fees paid to the city
treasurer, 7 at $\$ .20$
$\$ 1560$
For dog licenses issued in 1920:-


For hunting and fishing licenses issued in 1920:-
396 resident hunters at $\$ 1.00$. $\$ 39600$
3 alien hunters at $\$ 15.00$. . 4500
251 resident fishermen at \$ .50. . 12550
3 alien fishermen at $\$ 1.00$. . 300
2 non-resident fishermen at $\$ 1.00$. 200

Recording mortgages, assignments, etc., 941 papers
$\$ 91460$
Certificates of marriage intentions, 1292 licenses and 2 duplicates at $\$ 1.00$. 1,29400
Furnishing copies of records . . . 27355

Licenses: -
Auctioneers, 27 licenses at $\$ 2.00$.
Billiard and pool tables and bowling alleys: -
28 licenses for 95 tables and 70 alleys, including 2 tables granted in 1919, at $\$ 2.00$. . . $\$ 33000$
1 license for 2 tables granted in 1920 and paid in 1919 at $\$ 2.00$

400

- Drain layers, 3 licenses at $\$ 1.00$ 32600

Engines and motors, -
35 licenses for 62 mo tors, 4 boilers and 1 portable gas engine at $\$ 1.00$. . $\$ 3500$
2 licenses for 3 mo tors, paid in 1919 . 200

3300
Garages,

| 249 | licenses, including 6 |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| granted in | 1919, at |  |  |  |
| $\$ 2.00$ | . | . | $\$ 498$ | 00 |
| 6 licenses | paid in |  |  |  |
| 1919 | . | . | 12 | 00 |

Gasoline tanks, - 29 licenses at $\$ 1.00$.
Hackney carriages, - 11 licenses at $\$ 1.00$

1100
Innholders and common victuallers, -
3 victuallers' licenses, including 1 granted in 1919 at $\$ 2.00$

Intelligence offices, - 2 licenses at $\$ 2.00$

400
Junk and second hand licenses, -
22 licenses, including 2 granted in 1919, at $\$ 25.00$
$\$ 55000$
43 licenses, including 2 granted in 1919, at 10.00 . . . 43000

$$
\begin{aligned}
& \text { Lord's day, sale of ice cream, confec- } \\
& \text { tionery, soda water and fruit, on, - } \\
& 96 \text { licenses, including } 1 \text { granted in } \\
& 1919 \text {, at } \$ 5.00
\end{aligned}
$$

Second hand motor vehicles, - 26 licences, including 8 granted in 1919, at $\$ 10.00$

26000
Slaughtering, -7 licenses at $\$ 1.00$. 700
Street Musicians, - 5 licenses for 5 persons at \$ . 50

250
Wagons, - 80 licenses for 107 wagons,
including 1 granted in 1919, at $\$ 1.00$ 10700
Wagon stands, -6 licenses at $\$ 1.00$. 600
Permits for projections over sidewalks, -
28 permits, for 4 awnings, 18 signs, 2
Swing arms, 1 post and sign, 1 post
and clock and 2 barber poles, includ-
ing 4 permits granted in 1919, at $\$ 1$
Filing certificates, under Acts of 1908,
Chap. $502,-2$ at $\$ .50$.
Interest on deposits . . . . 745
Notices of hearings (public service cor-
porations) $\stackrel{.}{1291}$
Repairing and sale of junk badges . . 750
Sale of old ballots . . . . . 4260
Sale of stationery and postage . . . 546
Witness fees . . . . . . 60
Optometrists' registration, 6 at $\$ .50$. 300
Physicians' registration, 5 at \$ . 25 . . 125

Total receipts
5,392 42
$\$ 8,268 \quad 52$

## Payments.

To Joseph O. Hayden, county treasurer,
June 1 and December 1, recepits for dog
licenses from December 1, 1919 to
November 30, 1920, both inclusive:-
626 males at $\$ 2.00$
\$1,252 00

157 females at $\$ 5.00$. . . 78500
85 spayed at $\$ 2.00$. . . 17000
3 kennel at $\$ 25.00$. . . 7500

Less city clerk's fees, 871 at $\$ 20$ \$2,282 00
17420


The decrease from previous years in amounts received as fees for licenses as innholders and common victuallers, to keep open places of business on the Lord's Day for sale of ice cream, confectionery, soda water and fruit, and as dealers in secondhand motor vehicles, is due to the change in June of the municipal board having control of such licenses.

At the city election in 1919 it was voted to authorize the granting of licenses for the sale of intoxicating liquor. Because of such vote and in accordance with the provisions of law, a licensing board was appointed. This board has the power of granting the various classes of licenses above referred to and collects the fees therefor.

## 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 :-

Children under fifteen to take part in entertainments 8
Newsboys
To give band concerts (one permit for three con-
certs)
To hold political meetings in streets and squares .
To hold religious services in streets and squares. 1
To install branch single track railway across street . 1
To locate World War memorial tablet in square . 1
To move buildings through streets . . . . 3
To parade in streets, with music, etc. . . . 2
To suspend wire across street . . . . . 1

## Births. <br> 1920.

Number of births reported by physicians and midwives for 1920.
$\begin{array}{lllll}\text { Males } . & . & . & . & 1152 \\ \text { Females } & . & . & . & .\end{array}$
A canvass of the city is at present being made under the direction of the city clerk as required by section 5 , chapter 29 , of the Revised Laws, to ascertain the facts required for record relative to children born during the year.

As the information derived from such canvass will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1919 will be given in the city clerk's report for the year 1921.
1919.

The following is a statement in full of the births for 1919.
Born of American parents ..... 745
Born of foreign parents ..... 741
Born of American father and foreign mother ..... 185
Born of foreign father and American mother ..... 209
Born of American mother and father of unknown nationality ..... 8
Born of foreign mother and father of unknown nationality ..... 11889
Number of still-births in Somerville in 1919 as registered ..... 53
Number of births in other places in 1919 registered ..... 531
2473
Number of cases of twins ..... 31
Marriages.
Number of intention certificates issued in 1920 ..... 1292
More than previous year ..... 66
Marriages registered ..... 1352
More than previous year ..... 125
Both parties American ..... 847
Both parties foreign ..... 215
American groom and foreign bride ..... 131
Foreign groom and American bride ..... 159
First marriage of ..... 23571352 couples
Second marriage of
Third marriage of ..... 15
Fourth marriage of ..... 2
Deaths.
(Exclusive of still-births.)
Number of deaths in Somerville in 1920 ..... 1137
Less than previous year ..... 63
Males ..... 526
Females ..... 611
Under ten years of age ..... 238113710 and under 20 years of age
29
20 and under 30 years of 20 and under 30 years of age ..... 53
30 and under 40 years of age ..... 60
40 and under 50 years of age ..... 82
50 and under 60 years of age ..... 161
60 and under 70 years of age ..... 163
70 and under 80 years of age ..... 215
80 and under 90 years of age ..... 118
90 years of age and over ..... 18
Age of oldest person deceased 95 years
Born in Somerville ..... 237
Born in other places in the. United States ..... 490
Of foreign birth ..... 408
Birthplace unknown ..... 21137
Number of deaths in January ..... 121
Number of deaths in February ..... 198
Number of deaths in March ..... 104
Number of deaths in April. ..... 80
Number of deaths in May ..... 90
Number of deaths in June ..... 61
Number of deaths in July ..... 78
Number of deaths in August ..... 64
Number of deaths in September ..... 70
Number of deaths in October ..... 81
Number of deaths in November ..... 95
Number of deaths in December ..... 95

The number of still-births during the year was sixty-fice. In addition to the above 260 deaths which occurred elsewhere were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

ASSESSED POLLS AND REGISTERED VOTERS.

| Walil | P't. |  | $\begin{gathered} \text { As- } \\ \text { sessed } \\ \text { Polls, } \\ \text { Spril } \\ 1, \\ 1920 \end{gathered}$ | Registeren Voters. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{gathered} \text { Dec. } \\ 3, \\ 1919 \\ \text { Men } \end{gathered}$ |  | Re- <br> vised <br> Lists <br> of <br> July <br> 24, <br> 1920 <br> Men |  | $\begin{aligned} & \text { Add } \\ & \text { ed in } \\ & \text { Aug. } \\ & \text { sept. } \\ & \text { d } \\ & \text { Oct } \\ & \text { ren } \end{aligned}$ | $\begin{gathered} \text { Adrd- } \\ \text { edin } \\ \text { Aug. } \\ \text { Sept. } \\ \text { Oct. } \\ \text { O920 } \\ \text { Women } \end{gathered}$ | $\begin{gathered} \text { Oct. } \\ 13, \\ 1920 \\ \text { Men } \end{gathered}$ |  | $\begin{aligned} & \text { Yoted } \\ & \text { Nos. } \\ & 2 . \\ & 1920 \end{aligned}$ |
| Ward | Prt. |  |  | 1,580 | 750 | 53 | 682 | 47 | 114 | 391 | 796 | 438 | 1,072 |
|  |  |  | 1,103 | 552 | 35 | 501 | 30 | 99 | 294 | 600 | 324 | 795 |
|  |  |  | 563 | 279 | 31 | 265 | 29 | 24 | 132 | 289 | 161 | 372 |
|  |  |  | 603 | 224 | 46 | 200 | 43 | 10 | 61 | 210 | 104 | 260 |
|  |  |  | 3,849 | 1,805 | 165 | 1.648 | 149 | 247 | 878 | 1,895 | 1,027 | 2,499 |
| Ward | Pet. | 23 | 961 | 384 | 5 | 346 | 4 | 3:3 | 150 | 379 | 154 | 454 |
|  |  |  | 1,762 | 806 | 11 | 738 | 10 | 126 | 455 | 864 | 465 | 1,121 |
|  |  |  | 742 | 377 | 5 | 340 | 4 | 36 | 186 | 376 | 190 | 459 |
|  |  |  | 3,465 | 1,567 | 21 | 1,424 | 18 | 195 | 791 | 1,619 | 809 | 2,034 |
| Ward | Pct. | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | 1,398 1,289 | $907$ | $119$ | 842 722 | 106 | $\begin{array}{r}94 \\ 89 \\ \hline\end{array}$ | 617 522 | 936 811 | 723 | 1,471 |
|  |  |  | 2,687 | 1,656 | 230 | 1,564 | 207 | 483 | 1,140 | 1.747 | 1,347 | 2,746 |
| Ward ${ }_{4}^{4}$ | Pet. | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | 1,433 | 778 | 53 | 708 | 48 | 135 | 5:39 | 843 | 587 | 1,263 |
|  |  |  | 1,375 | 712 | 88 | 671 | 87 | 122 | $48^{\prime}$ | 793 | 569 | 1,212 |
|  |  |  | 2,808 | 1,490 | 141 | 1,379 | 135 | 257 | 1,021 | 1.636 | 1,156 | 2,475 |
| Ward 5 <br>  5 <br> $\cdots$ 5 | Pct. | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 3 \end{aligned}$ | 1,521 | 818 | 181 | 777 | 163 | 169 | 6677 | 946 | 830 | 1,636 |
|  |  |  | 1,164 | 688 | 123 | 65.2 | 104 | 109 | 146 | 761 | 550 | 1,180 |
|  |  |  | 997 | 600 | 160 | 566 | 137 | *2 | 312 | 648 | 449 | 953 |
|  |  |  | 3,682 | 2,106 | 464 | 1,995 | 404 | 360 | 1,425 | 2,355 | 1,829 | 3,769 |
| Ward <br> . <br> . | Pct. | $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \end{aligned}$ | 1,144 | 1,005 | 223 | 588 | 166 | 85 | 356 | 673 | 522 | 1,040 |
|  |  |  | 1,336 | 820 | 63 | 614 | 75 | 120 | 361 | 734 | 436 | 1,001 |
|  |  |  | 987 | 805 | 65 | 496 | 37 | 115 | 44:3 | 611 | 480 | 1,006 |
|  |  |  | 1,298 |  | ...... | 762 | 62 | 14. | 542 | 910 | 604 | 1,38:3 |
|  |  |  | 4,765 | 2,630 | 351 | 2,460 | 340 | 468 | 1,702 | 2,928 | 2,0+2 | 4,430 |
| $\begin{array}{cc} \text { Ward } & 7 \\ \because . & 7 \\ \because . & 7 \\ \because & 7 \end{array}$ | Pet. | 1 | 1,131 | 773 | 49 | 727 | 43 | 114 | 543 | 841 | 586 | 1,339 |
|  |  | 2 | 1,375 | 742 | 70 | 715 | 64 | 152 | 601 | 867 | 665 | 1,435 |
|  |  | 3 | 1,561 | 892 | 62 | 816 | 53 | 160 | 629 | 976 | 682 | 1,510 |
|  |  | 4 | 1,116 | 680 | 43 | 628 | 32 | 127 | 530 | 755 | 562 | 1,227 |
|  |  | 5 | 830 | 469 | 30 | 424 | 27 | 164 | 368 | 588 | 395 | 915 |
|  |  |  | 6,013 | 3,556 | 254 | 3,310 | 219 | 717 | 2,671 | 4,027 | 2,890 | 6,426 |
| City |  |  | 27,269 | 14,810 | 1,626 | 13,780 | 1,472 | 2,427 | 9,628 | 16,207 | 11,100 | 24.379 |

## 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 2,1920 .

| Candidate. Party. | Waris. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Total. |
| PRESIDENTIAL ELECTORS. |  |  |  |  |  |  |  |  |
| Marcus A. Coolidge, et als. Democratic | 731 | 1147 | 800 | 436 | 868 | 1000 | 1137 | 6113 |
| Peter O'Rourke, et als. Socialist Labor | 8 | 8 | 8 | 6 | 12 | 11 | 15 | 68 |
| John J. McEttrick, et als. Socialist | 53 | 69 | 41 | 5:3 | 75 | 96 | 116) | 497 |
| Charles Sumner Bird et als. |  |  |  |  |  |  |  |  |
| Blank Republican | 1638 | 730 | 1861 | 1946 | 2754 | 3221 | 5096 | 17246 |
| Blank | 69 | 80 | 36 | 34 | 66 | 102 | (i) | 455 |
| GOVERNOR. |  |  |  |  |  |  |  |  |
| Channing H. Cox Republican | 1515 | 553 | 1815 | 1899 | 2688 | 3228 | 5280 | 16980 |
| Walter S. Hutchins Socialist | 24 | 25 | 25 | 27 | 47 | 39 | 6 | 269 |
| Patrick Mulligan Socialist Labor | 12 | 21 | 40 | 6 | 18 | 19 | 21 | 137 |
| John J. Walsh . Democratic | 82.2 | 1248 | 757 | 45.2 | 906 | 98.2 | 870 | 6037 |
| Blank | 126 | 185 | 109 | 91 | 110 | 142 | 193 | 956 |
| LIEUTENANT GOVERNOR. |  |  |  |  |  |  |  |  |
| Marcus A. Coolidge Democratic | 627 | 941 | 610 | 362 | 660 | 762 | 717 | 4679 |
| David Craig Socialist Labor | 11 | 11 | $\stackrel{8}{1}$ | 8 | 17 | . 14 | 48 | 117 |
| Alvin T. Fuller Republican | 1459 | 737 | 1594 | 1654 | 23222 | 2850 | 4368 | 14984 |
| Thomas Nicholson Socialist | 15 |  | 17 | 26 |  |  | 5:3 | ${ }^{224}$ |
| Robert M. Washburn Independent | 221 | 85 | 367 | 300 | 55.2 | 564 1 | 982 | 3071 1 |
| Blank | 166 | 241 | 150 | 125 | 173 | 190 | 258 | 1303 |
| SECRETARY. |  |  |  |  |  |  |  |  |
| Frederic W. Cook Republican | 1722 | 848 | 2055 | 1985 | 2959 | 3451 | 5542 | 18562 |
| Edward E. Ginsburg Democratic | 531 | 8:33 | 496 | $31: 3$ | 563 | 654 | 531 | 3911 |
| Anthony HoutenbrinkSocialist Labor | 19 | 10 | 8 | 7 | 12 | 14 | 21 | 91 |
| Edith M. Williams Socialist | 30 | 30 | 30 | 26 | +68 | 75 | 77 | ${ }^{314}$ |
| Blank ${ }^{\text {a }}$ | 197 | 313 | 157 | 154 | 189 | 236 | 255 | 1501 |
| TREASURER. |  |  |  |  |  |  |  |  |
| George H. Jackson Citizen | 48 | 52 | 63 | 44 | 55 | 90 | 119 | 471 |
| James Jackson Republican | 1448 | 457 | 1752 | 1818 | 2560 | 3121 | 5162 | 16318 |
| Louis Marcus Socialist | 42 | 28 | 23 | 26 | 53 | 56 | 56 | 284 |
| Patrick O'Hearn Democratic | 763 | 1204 | 759 | 44 | 918 | 939 | 808 | 5835 |
| Albert L. Waterman Socialist Labor | 12 | 12 | 20 | 8 | 12 | 20 | 27 | 111 |
| Blank | 186 | 281 | 129 | 135 | 171 | 204 | 254 | 1360 |
| AUDITOR. |  |  |  |  |  |  |  |  |
| Alonzo B. Cook Republican | 1498 | 551 | 1757 | 1837 | 2648 | 3159 | 5174 | 16624 |
| Alice E. Cram Democratic | 722 | 1093 | 748 | 448 | 842 | 934 | 854 | 5641 |
| Stephen J. Surridge Socialist Labor | 19 | 9 | 16 | 9 | 12 | 14 | 25 | 104 |
| Herbert H. ThompsonSocialist | 28 | 35 | 18 | 29 | 41 | 70 | 57 | 278 |
| Blank | 232 | 346 | 207 | 152 | 226 | 253 | 316 | 1732 |

## CITY CLERK.

385



## 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. | Yra. | No. | Blask. | Refisterein Yoteris. | Entimated Population. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1881 | 979 | 1,2ツ2 |  | 3,678 | 26,000 |
| 1882 | 627 | 1,159 |  | 3,778 | 26,500 |
| 1883 | 767 | 1,343 |  | +,407 | 27,000 |
| 1884 | 806 | 1,709 |  | +,470 | 28,000 |
| 188.5 | 428 | 1,604 |  | 3,969 | *29,992 |
| 1886 | 214 | 1,3:1 |  | +,089 | 32,000 |
| 1887 | 3.5 | 2,427 |  | 4,574 | 34,000 |
| 1888 | 744 | 2,456 |  | - , 3999 | 36,000 |
| 1889 | 63.5 | 1,706 | 33.5 | 5,286 | 39,000 |
| 1890 | 999 | 2,290 | 409 | 5,556 | * 40,117 |
| 1891 | 1,0.54 | 2, 2,98 | 279 | - 9 , 938 | 43,000 |
| 1892 | 1,427 | 3,288 | 347 | 7,587 | 46,000 |
| 1893 | 1,547 | 2,6.54 | 218 | 7,943 | 48,000 |
| 1894 | 1,098 | $\stackrel{-269}{ }$ | 246 | 8,007 | 50,000 |
| 1895 | 1,854 | +,708 | 459 | 8,410 | *.22,200 |
| 1896 | 1,466 | 3,680 | 332 | 9,379 | 54,000 |
| 1897 | 1,626 | 3,815 | 486 | 8,925 | 5,6,000 |
| 1898 | 1,595 | 3,501 | 486 | 8,657 | 57,500 |
| 1899 | 1,89) | 3,340 | 374 | 8,838 | (60, 000 |
| 1900 | 1,660 | 3,427 | 321 | 9,620 | *61,643 |
| 1901 | 1,579 | 3,29.5 | 374 | 9, 499 | 63,500 |
| 1902 | 1,64.5 | 3,242 | 360 | 10,100 | (i5, 000 |
| 1903 | 2,248 | +,410 | 550 | 11,3+6 | 67,000 |
| 1904 | 2,022 | 4,3:38 | 447 | 11,68:2 | 69,500 |
| 1905 | 2,483 | +,660 | 531 | 11,340 | *69,272 |
| 1906 | 2,193 | ., 204 | 582 | 11,571 | 70,000 |
| 1907 | 1,735 | +,591 | 459 | 11,558 | $7 \pm, 000$ |
| 1908 | 1,780 | +,760 | $\underline{+91}$ | 12,777 | 75,500 |
| 1909 | 1,830 | +,601 | 530 | 12,479 | 75,500 |
| 1910 | 1,544 | 3,968 | 365 | 12,522 | *77,236 |
| 1911 | $\because 2193$ | +,8+1 | +9\% | 13,226 | 80,000 |
| 1912 | $\therefore 2+1$ | 6,18: | 546 | 13,854 | 81,000 |
| 1913 | $\bullet, 348$ | 6,431 | 550 | 13,417 | 82,000 |
| 1914 | 2,178 | -, 535 | 488 | 13,404 | 85,000 |
| 1915 | 1,705 | 5,262 | 379 | 13,805 | *86,854 |
| 1916 | 1,100 | +,158 | 271 | 14,500 | 85,000 |
| 1917 | 1,291 | 3,457 | 232 | 13,826 | 90,000 |
| 1918 | 690 | 1,935 | 161 | 13,474 | 90,500 |
| 1919 | 2,777 | 2,297 | 261 | 14,810 | 91,000 |
| 1920 |  |  |  | 27,307 | *93,033 |

[^13]
## ORDINANCES.

Somerville, January $1,1921$.
The following ordinances have been adopted since the printing of the annual reports for the year 1919:-

Ordinance No. 91.
An Ordinance Relative to the Fire Department.
Be it ordained by the Board of Aldermen of the City of somerville, as follows:-
Section 1. Section 1 of Chapter XVIII of the Revised Ordinances of 1911 is hereby repealed and the following substituted in place thereof:

Section 1. The fire department shall consist of a chief engineer, a deputy chief, two district chiefs, a master mechanic, and as many other officers and members as the board of aldermen shall from time to time determine. The two district chiefs shall each perform the duties of a captain.

Each engine company shall consist of not more than fourteen men and shall be organized as follows: Captain, lieutenant, hosemen, and, if the engine is operated with steam, an engineman and an assistant engineman or if motor driven, drivers or operators.

Each hose company shall consist of not more than ten men and shall be organized as follows: captain, lieutenant, drivers or operators, and hosemen.

Each ladder company shall consist of not more than sixteen men and shall be organized as follows: captain, lieutenant, drivers or operators, and laddermen.

When two or more companies are housed in the same station, one only of such companies shall have a captain, and he shall have the authority and responsibility and perform the duties of that office with reference to all of such companies, except that, when in attendance at alarms or fires and in going to and returning from the same, such authority, responsibility and duties shall devolve, with reference to all such companies other than his own, upon their respective lieutenants.

Sect. 2. Section 3 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 3. Th.e chief engineer and deputy chief shall also be fire wards of the city.

Sect. 3. Section 4 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 4. The chief engineer shall have the sole and absolute control and command over all members of the department and all other persons present at fires, and shall take prompt measures to arrange the engines and other apparatus in the most advantageous manner, and issue such orders as he may deem necessary. In case of the absence of the chief engineer at a fire, the deputy chief, and if he is not present the district chief or in his absence the officer designated to act in that capacity, shall during such absence, have and exercise all the power and authority of the chief engineer, and shall perform the duties of his office; and if the
engineer or no chief be present, the captain who first arrives with his apparatus at a fire shall exercise such authority until the arrival of a superior officer, and until the arrival of one of said officers such authority is to be exercised by the lieutenant who first arrives with his apparatus.

Sect. 4. Section 5 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 5. Whenever it shall be determined at any fire, by the officer in command, to be necessary to pull down or demolish any building in order to prevent the spreading of fire, the same may be done by his order, in accordance with the statute in such case made and provided.

Section 5. Section 7 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 7. The members of the uniformed fire-fighting force shall be divided into two bodies or platoons, which shall be designated as a day force and a night force; and the day force and the night force shall alternate on tours of duty every third day. The hours of duty of the day force shall be from eight o'clock ante meridian to six o'clock post meridian, and the hours of duty of the night force shall be from six o'clock post meridian to eight o'clock ante meridian'; provided, that on every third day for the purpose of alternating the day force with the night force and vice versa, the number of hours of duty herein stated may be exceeded, but one force shall be at liberty at all times except in case of a conflagration, the officer having charge of the fire-fighting force shall have full authority to summon and keep on duty any or all of the members of the fire-fighting force while the conflagration continues. The members of the fire department shall be entitled to fourteen days' vacation each year, without loss of pay. 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 substitute in the fire department incapacitated on account of injury caused while in the performance of duty in said department, and such injury being certified to by the city physician, shall receive pay equal to that paid to a member of the department during his first year, for a perior 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. Members of the 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 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 funral in his immediate family.

Section 6. Ordinance No: 63 is hereby repealed.
Sect. 7. This ordinance. shall take effect upon its passage.
Approved August 2, 1020

## Ordinance No. 92.

An Ordinance Relative to Street Railways.
Be it ordained by the Board of Aldermen of the City of Somerville, ns follows:-
Chapter XXV of the Revised Ordinances of 1911 entitled "Street Railways" is hereby amended by adding the following thereto.

Section 1. No person shall use or cause or allow to be used any portion of a public street as the terminal of a route for a street railway car unless permission therefor has been granted by the board of aldermen to the street railway corporation operating said car.

Sect. 2. No person shall cause or allow a street railway car to remain standing in any public street for the purpose of using said street as the terminal of a route for such car unless permission therefor has been granted by the board of aldermen to the street railway corporation operating said car.

Sect. 3. Whoever violates any provision of this ordinance shall be subject to a penalty not exceeding twenty dollars for each offense.

Sect. 4. This ordinance shall take effect fifteen days after its passage.

Approved Janualy 4, 1920

In submitting this, my final report, I wish to express to his honor, the mayor, the board of aldermen and all departmental officials and employees of the city my appreciation of the uniform kindness and courtesy that has been extended by them throughout the whole of my official service. It is my opinion, if I may be permitted to record it herein, that Somerville has been unusually fortunate in the character and ability of its mayors and aldermen throughout its existence as a city and that its government always has been and I sincerely trust always may be carried on with the purpose expressed in the preamble of the constitution of our Commonwealth, - "to furnish the individuals who compose it with the power of enjoying in safety and tranquility their natural rights and the blessings of life."

Frederic M. Cook:
City Clerl:

# CITY GOVERNMENT AND OFFICERS FOR 1920. 

Mayor.<br>Charles W. Eldridge, 47 Highland Road.

Board of Aldermen.
President, Richard L. Rice
Vicc-President, Hiram N. Dearborn

WARD ONE.

James J. Shay, Alderman-at-large
William F. Burns
Lyman A. Hodgdon

## WARD TWO.

Robert C. Harris, Alderman-at-large Peter F. Donnelly
Joseph A. Haley

## ward three.

George A. Berry, Alderman-at-large $\quad . \quad . \quad 60$ Prescott Street
William C. Abbott.$\quad$.
Charles E. Nichols, Jr.

## WARD FOUR.

Richard L. Rice, Alderman-at-large Waldo D. Phelps
John S. Smith, Jr.

68 Mt. Pleasant Court 21 Illinois Avenue 8 Indiana Avenue

12 Dimick Street
11 Allen Street
7 Linden Street

# George A. Berry, Alderman-at-large <br> Charles E. Nichols, Jr. 

19 Greenville Street

WARD FIVE.
William J. Bell, Alderman-at-large
Fred Allen
Francis W. K. Smith
380 M.edford Street
133 Central Street

WARD SIX.
Enoch B. Robertson, Alderman-at-large
39 Highland Road
Almon F. Heald
83 Belmont Street
John E. Locatelli
78 Belmont Street

WARD SEVEN.

[^14]86 Electric Avenue
27 Hall Avenue
18 Hall Avenue

## Standing Committees of the Board of Aldermen.

Electric Lines and Lights - Aldermen Robertson, Shay, Berry, Haley and Phelps.

Finance - The President, Aldermen Allen, Berry, Donnelly, Heald, Hodgdon and Mason.

Legislative Matters - Aldermen Harris, Dearborn, Smith of Ward 4, Smith, of Ward 5 and Burns.

Licenses and Permits - Aldermen Dearborn, Heald, Abbott, Donnelly, Smith of Ward 5, Burns and Smith, of Ward 4.

Public Property - Aldermen Berry, Bell, Locatelli, Coldwell and Hodgdon.

Public Safety - Aldermen Bell, Abbott, Dearborn, Robertson and Smith of Ward 4.

Public Service - Aldermen Shay, Robertson, Bell, Mason, Haley, Nichols and Phelps.

Public Works - Aldermen Locatelli, Allen, Shay, Harris, Phelps, Coldwell and Nichols.

## School Committee.

Chuirman, Herbert Cholerton.
Jiec-Chairmun, Willlam M. Morrison.

## Members.

Charles W. Eldridge, Mayor (ex-officio)
Richard L. Rice, Pres. Board of Aldermen, (ex-officio)
Ward one.
2961/2 Broadway
WARD Two.
Daniel H. Bradley . . . . .
Christopher J Muldoon $\quad . \quad . \quad . \quad 88$ Concord avenue

Ward three.

| Charles W. Boyer Oscar W. Codding |  | 104 Summer street 59 Vinal avenue |
| :---: | :---: | :---: |
|  | Ward four. |  |
| Frank M Hawes | . . | 257 School street |
| Edward I. Tripp | . . | 21 Wigglesworth street |
|  | Ward five. |  |
| Harry M. Stoodley |  | 283 Highland avenue |
| Miss Minnie S. Turner | . ${ }^{\text {c }}$ | 64 Hudson street |
|  | ward six. | , |
| Walter I. Chapman | - | 18-A Central street |
| William M. Morrison |  | 97 Rogers avenue |

## WARD SEVEN.

Herbert Cholerton . . . . . 94 College avenue
Paul O. Curtis . . . . 41 Mason street

## Assessors.

Fred E. Warren, Chairman (term expires 1923.) Winsor L. Snow (term expires 1921).
Harry Van Iderstine (term expires 1923).
J. Robert Fenelon (term expires 1922).

David 'B. Armstrong (term expires 1921).

Assistant Assessors.

> Fred B. Clapp. JoHn S. McGowan. Lawrence J. Ward.

Johin M. Nangle. Leonard C. Spinney. Samuel C. Wiswall.

## Board of Health.

Robert M. Latender, Chairman (term expires 1922).
Warren C. Blatr (term expires 1922).
John E. Gillis, M. D., (term expires 1921). Clerk-Laurence S. Howard. Agent-George I. Canfield.
Medical Inspector - Frank L. Morse, M. D.
Inspector of Animals and Provisions-Charles M. Berry. Inspector of Milk. and Vinegar-Herbert E. Bowman.

## Licensing Board.

Eugene M. Carman, Chairman (term expires 1926).
William H. Smith (term expires 1924).
William J. Shanahan (term expires 1922).

## Overseers of the Poor.

Fred E. Durgin, Chairman (term expires 1923).
Michafe Coll, Vice-Chairman (term expires 1921).
Henry F. Curtis (term expires 1922).
Agent - William E. Copithorne.
Warden City Home-J. Foster Colquioun.
Matron Cith Home - Catherine Colquhoun.

## Planning Board.

William F. Riley, Chairman (term expires 1921).
David J. Kelley, Secretary (term expires 1924).
Harrison L. Evans, (term expires 1920).
Paul R. Valentine, ( term expires 1922).
George.J. Rauh, (term expires 1923).

## Registrars of Voters.

Edwin D. Sibley, Chairman (term expires 1921).
Douglass B. Foster (term expires 1923).
Charles Leo Shea (term expires 1922).
IFrederic W. Cook, City Clerk.

## Public Library Trustees.

Thomas M. Durell, Chairman (term expires 1922)
J. Frank Wellington (term expires 1923).

Frederick W. Parker (term expires 1921).
William L. Barber (term expires 1922).
Charles L. Noyes (term expires 1923).
Herbert E. Buffum (term expires 1923).
Giles W. Bryant (term expires 1921).
David H. Fulton (term expires 1921).
Frank M. Barnard (term expires 1922).
Librarian and Secretary-George H. Evans.
Recreation and Playground Commission.
Charles S. Clark, Chairman (term expires 1921)
George L. Dudley, Secretary (term expires 1922).
Ernest W. Bailey (term expires 1922).
John F. Colquhoun (term expires 1922).
Frances M. Weeks (term expires 1921).
Elizabeth Mongan (term expires 1921).
Vacancy
City Clerk.
Frederic W. Cook.
Assistant City Clerli-Jason M. Carson.
City Treasurer and Collector of Taxes.
Joseph S. Pike.

City Messenger.
Fred E. Hanley.
Mayor's Secretary.
Leon M. Conwell.
City Solicitor.
Frank W. Kaan.
City Auditor.
Howard E. Wemyss.
City Engineer.
Ernest W. Batley.

## Commissioner of Streets.

Asa B. Pritchard.
Commissioner of Public Buildings and Inspector of Buildings.
George L. Dudley.

```
Commissioner of Electric Lines and Lights.
Walter I. Fuller.
```

```
        CITY GOVERNMENT ANI OFFICERS FOR 1920
Water Commissioner.
Frank E. Merrill.
Superintendent of Sanitary Department.
Edgar T. Mayhew.
Clerk of Commitiees
Ricilari A. Keyes.
Chief of Police.
Charles A. Kendall.
Chief Engineer of the Fire Department. Sewall M. Rich.
City Physician.
C. Clarke Towle, M. D.
Inspector of Plumbing.
Duncan C. Greene.
Inspector of Milk and Vinegar.
Herbert E. Bowman.
Inspector of Animals and Provisions.
Charles M. Berry.
Inspector of Petroleum.
Sewall M. Rich.
Sealer of Weights and Measures.
Bendamin S. Abbott.
Fence Viewers.
Charles M. Berry, Howard Lowell,
```

Agent of Military and State Aid and Soldiers' Relief and Burial Agent
Benjamin S. Abbott.
Constables.

| Maurice F. Ahearn. Charles M. Austin. |  | Fred E. Hanley. James M. Harmon. |
| :---: | :---: | :---: |
| Charles W. F. Bennett. |  | Fred W. Jackson. |
| George .H. Carleton. | 1 | Harry E. Jackson. |
| Eugene A. Carter. |  | Charles A. Kendall. |
| Winslow W. Coffin. |  | Michael T. Kennedy. |
| William E. Copithorne. |  | Elbridge G. Lavender. |
| Albion B. Crocker. |  | Edward E. Marsh. |
| Warren C. Daggett. |  | Louis A. Morris. |
| Thomas Damery. |  | John A. Ray. |
| Charles L. Ellis. |  | John F. Scannell. |
| Arthur L. Gilman. |  | Charles E. Woodman. |

## INDEX.

City Auditor. Report of ..... 3
Balance Sheet ..... 4
Cash Statement ..... 6
Taxes - Special Assessments ..... 8
Departmental Bills ..... y
Water Department Accounts ..... 10
Statement of Estimated Revenue ..... 11
Appropriations ..... 14
Commonwealth of Massachusetts ..... 22
County of Middlesex ..... 23
Revenue and Expenses ..... 23
Temporary Loans ..... 24
Funded Debt ..... 26
Maturities on Funded Debt ..... 29-30
Interest Requirements on Funded Debt ..... 29-30
Borrowing Capacity ..... 31
Abatements, Refunds, State Income Tax, Etc. ..... 32
Overlay Accounts ..... 34
Excess and Deficiency Account ..... 35
Receipts and Expenditures, Classification of ..... 35
Schedule of Public Property ..... 65
'City Clerk, Report of ..... 376
Receipts ..... 376
Payments ..... 378
Licenses and Permits ..... 380
Births ..... 380
Marriages ..... 381
Ueaths ..... 381
Assessed Polls and Registered Voters ..... $38:$
Elections ..... 384
Liquor License Question ..... 387
Ordinances ..... 38.
City Engineer, Report of ..... 27!
Engineering Department ..... 273
City Engineer Division, Classification of Expenses ..... 27.3
Streets Accepted as Public Ways in 1920 ..... 276
Street Bounds Set In 1920! ..... 278
Table of Street Construction ..... 279
Sewer Division ..... 282
Sewers and iStorm Drains Constructed ..... 284
Maintenance Account ..... 285
Parks and Playgrounds Division ..... 287
Maintenance Account ..... 288
'City Government and Officers for 1920 ..... 391
'City Solicitor, Report of ..... 325
City Treasurer and Collector of Taxes, Report of ..... 68
Condensed Cash Statement ..... 69
Taxes ..... 75
Street Sprinkling and Moth Assessments ..... 76
Overlay and Abatement ..... 77
Reserve Supplementary Assessments ..... 77
Betterment Assessments ..... 78
Departmental Accounts ..... $78-79$
Temporary Loans ..... 80
Bonds ..... 81-82
Borrowing Capacity ..... 84
Memorandum of Payments on account of Debt ..... 85
Grade Crossing Debt ..... $80^{\circ}$
Treasury Department ..... 86
Commissioner of Public Buildings (see Public Buildings Commissioner) ..... 316
Commissioner of Streets (see Street Commissioner) ..... 292
Commissioner of Water (see Water Commissioner) ..... 333
Commissioner of Electric Lines and Lights, Report of ..... 325
Inspection of Wiring in Buildings ..... 325
Fire Alarm System ..... 326
Police Signal System ..... 327
Supervision of Poles and Wires on the Streets ..... 327
Street Lighting ..... 328
Recommendations ..... 328
Conclusion ..... 328
Fire Department, Chief of, Report of ..... 356
Alarms of Fire ..... 356
List of Probable Causes ..... 356
Manual Force ..... 359
Apparatus ..... 359
Horses ..... 359
Hose ..... 360
Resume ..... 360
Recommendations ..... 363
Conclusion ..... 364
Health, Board of, Repont of ..... 214
Organization, Officers, etc. ..... 214
Nuisances ..... 215
Permits and Licenses ..... 215
Stables ..... 216
Board of Infants ..... 216
Deaths ..... 217-221
Mortality Statistics ..... 218
Diseases Dangerous to Public Health ..... 224
Specimens and Supplies ..... 224
Medical Inspection of Schools ..... 225
Bacteriological Department ..... 227
Undertakers, ..... $2: 3$
Examination of Plumbers ..... 227
Health Nurses, Report of ..... 227-228
Medical Inspection, Report of ..... 231
Inspector of Animals and Provisions ..... 233
Inspector of Milk and Vinegar ..... 236
Inspector of Animals and Provisions, Report of ..... 233
Inspector of Buildings (see Public Buildings Commissioner) ..... 316
Inspector of Milk and Vinegar, Report of the ..... 236
Examinations, table of ..... 2.37
Court Cases ..... 239
Infantile Mortality ..... 240
City Physician, Report of ..... 247
Law Department, Report of ..... 355
License Commission, Report of ..... 331
Medical Inspection, Report of ..... 231
Visits ..... 231
Contagious Disease Hospital ..... 231
Leboratory Examinations ..... 231
Tuberculosis ..... 232
Typhoid ..... 232
Ordinances ..... 388
Overseers of the Poor, Report of ..... 241
Members of the Board, Committees, Officers, etc. ..... 241
Report of General Agent ..... 24.3
Full Suppont ..... 243
Partial Support ..... 243
Aid Under 1913 Law (Mothers' Aid) ..... 24.5
Cost to City ..... 243
Reimbursements ..... 244
Somerville Hospital ..... 244
Population and Gross Expenditures ..... 244
Overseers of the Poor Since 1885 ..... 245
Recapitulation ..... 245
City Home, Report of Warden ..... 246
City Physician, Report of ..... 247
Planning Board, Report of ..... 270
Housing Conditions ..... 270
Bridge Street Widening ..... 270
Street Car Service ..... 271
Public Parks and Buildings ..... 271
Fire Protection ..... 272
Appropriation ..... 272
Police, Chief of, Report of ..... 365
Arrests ..... 365
Crimes and Offenses Against the Person ..... 365
Crimes and Offenses Against Property ..... 366
Crimes and Offenses Against Public Order ..... 36
Recapitulation ..... 367
Roster of Department ..... 371
Changes in the Force ..... 372
Police Matron, Report of ..... 374
Conclusion ..... 375
Poor Department (see Overseers of the Poor). ..... 241
Population ..... 244-387
Public Buildings Commissioner, Report of ..... 316
Inspection of Buildings ..... 316
Coal ..... 318
Elevators ..... 319
School Buildings ..... 319
Fire Department Buildings ..... 321
Municipal Buildings ..... 322
Libraries ..... 322
Water, Highway, Sanitary and Sewer Buildings ..... 323
Hospital Buildings ..... 323
City Home Buildings ..... 323
Police Buildings ..... 323
Bath House ..... 324
Park Buildings ..... 324
In General ..... 324
Public Grounds (City Engineer) ..... 263
Public Library ..... 204
Board of Trustees and officers - Committees ..... 204
Organization of Library and Staff Personnel ..... 205
Report of Trustees ..... 203
Report of Librarian ..... 203
Statistics ..... 211
Recreation and Playground Commission, Report of ..... 248
Civic Social Worker, Report of ..... 251
Director of Summer Playgrounds, Report of ..... 25.3
Supervisor of School Gardens, Report of ..... 260
School Garden Data ..... 263
Estimate of Crops gathéred and value ..... 263
Garden and Canning values ..... 264
Associated Organizations, Report of ..... 265
Somerville Playgrounds Association Incorporated ..... 267
Statement Expenditures ..... 269
Sanitary Department, Report of ..... 329
Collection of Ashes and Paper ..... 329
Departmental Revenue ..... 329
School Department ..... 90
Accommodations ..... 103
Americanization ..... 97
Appendix, Contents of ..... 126
Atypical classes ..... 103
Continuation School ..... 96
Cost of Schools ..... 128
Course of Study, Grades 7 to 12 inclusive ..... 196
Dental Dispensary ..... 125
Elementary schools ..... 91
Expenditures for fiscal year ..... 45
Garden work ..... 101
Graduates - High school ..... 155
Junior High schools ..... 158
Vocational schools ..... 165
High School Athletic Association ..... 123-124
Independent Household Arts Department ..... 95
Junior High Schools ..... 93
Kindergartens ..... 95
Membership ..... 90
Music credits, etc. ..... 98-108-195
Report of Superintendent of Schools ..... 90
" Head Master, High School ..... 106
" Principal, Vocational school for Boys ..... 113
" Garden Supervisor ..... 115
"Special Committee" on Junior High Schools ..... 180
School Committee, 1920 ..... 88
School Committee, 1921 ..... 166
School Nurses ..... 41
Secondary Schools ..... 91-94
Somerville Teachers' Association ..... 121
Somerville Teachers' Club ..... 122
Teachers in Service ..... 90
Thrift ..... 102
Vocational School for Boys ..... 94
Sealer of Weights and Measures, Report of ..... 35.
Sewers (see City Engineer) ..... 282
Street Commissioner, Report of ..... 291
Appropriations ..... 291
Highway Maintenance ..... 292
Underground Wires ..... 293
Snow and Ice ..... 293
Bridges ..... 294
Crushed Stone ..... 291
Steam Rollers ..... 294
Sidewalks Maintenance ..... 294
Street Sprinkling ..... 29.5
Street Cleaning ..... 295
Suppression of Moths ..... 296
Shade Trees ..... 296
Highways Construction, New Streets ..... 297
Streets Constructed in 1920 ..... 298
Sidewalks Construction ..... 299
Highways Construction, Permanent Pavement ..... 2.99
Reconstruction and Resurfacing ..... 299
Miscellaneous ..... 301
Labor ..... 301.
Recommendations ..... 302
Public and Private Streets ..... 303
Support of Poor Department (see Overseers of the Poor) ..... 241
Water Commissioner, Report of ..... 333
Revenue and Expenditures ..... 333
Cost of Water Works ..... 337
Water Debt ..... 337-34f
Water Works Income and Distribution ..... 337
Water Distribution System, Construction ..... 337
Hydrants, Gates, etc., ..... 338
Water Services ..... 333
Water Meters ..... 340
Summary of Pipes and Fixtures ..... 342
Water Assessments and Consumption ..... 342
Construction, Maintenance, Operation ..... 344
Labor ..... 345
Pensions ..... 345
Shop Improvements ..... 345
Street Mains, Gates, Hydrants, etc., ..... 347
Summary of Statistics ..... 351
Financial Statistics ..... 352


[^0]:    6 | ¢ |
    | :--- |
    | + |
    |  |

[^1]:    Recreation.
    Field House,
    Somerville
    Unclassified.
    Building Public
    Buildings
    Total Appropri-
    ation Accounts

[^2]:    * Expenditures as shown in all accounts are net.

[^3]:    *Land included in Central Hill Park.
    $\dagger$ Building and fixtures. Land owned by State.
    $\ddagger$ Land included in Holland Street Ledge.

[^4]:    *School year.

[^5]:    *School year.

[^6]:    *Buildings are located on Central Hill Park, which contains 13 1-10 acres.
    $\dagger$ Includes home rooms, laboratories, shops, assembly rooms, dental dispensary, etc.

[^7]:    Population（census）
    Death rate per thousand．

[^8]:    * Present Member
    $\dagger$ Deceased

[^9]:    *Proposed.
    $\dagger$ Roadway (only) accepted 30 feet wide, full width of street 70 feet.

[^10]:    *Proposed.

[^11]:    Proper lighting of school rooms is a problem to which the head of this department has given considerable time and study. We have made a good start during the past two years and established a system, from experience gained by studying the methods used by other cities, which we intend to follow up until every school has the proper lighting required.

    In the following buildings we have installed electric lighting systems with service lines, mains and cut-out boxes on each floor, of sufficient size to take care of the entire building at present and at any future time:

    Northern Junior High, Bingham, Proctor, Lowe, Prescott, Glines and Knapp Schools.

[^12]:    60,297 43
    $\infty$
    0
    0
    0
    0
    0
    0

[^13]:    *Census.

[^14]:    Hiram N. Dearborn, Alderman-at-large Emerson J. Coldwell
    Arthur F. Mason

