



CITY OF SOMERVILLE

MASSACHUSETTS

ANNUAL REPORTS

1922



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1923.

REPORT OF THE CITY AUDITOR.

OFFICE OF THE CITY AUDITOR,

January 15, 1923.

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 1922, showing in detail the appropriation and expenditures, and the receipts from each source of income. Also a statement of the funded debt and temporary loans, table relative to maturities and interest, a balance sheet showing the assets and liabilities at the close of the fiscal year and a statement of the treasurer's cash.

Respectfully submitted,

HOWARD E. WEMYSS,

City Auditor.

BALANCE SHEET, DECEMBER 31, 1922.

ASSETS.		Revenue Account.	LIABILITIES.	
Cash:			Temporary Loans	\$500,000 00
In Banks and Offices	\$184,389 87		Unexpended balances:	
Advance to Poor Dept.	100 00		Income of Trust Funds	2,529 87
Advance, Soldiers' Benefits	100 00		Tailings	291 65
			Premiums on Loans	2,397 50
			Accrued Interest	111 11
Accounts Receivable:		\$184,589 87	Revenue from Taxes, Supple-	
Taxes 1922	\$411,970 19		mentary Warrants	528 66
Taxes 1921	4,832 56		Revenue Reserved when Collected:	
Taxes 1920	1,682 22		Departmental Bills Receivable	18,369 27
Taxes 1919	100 79		Sale of Land and Buildings,	
Taxes 1918	120 32		Marshall Street	1,500 00
Taxes 1917	772 20		Overlay, Reserved for Abatements:	
Excise Tax, Ship Owners	20 65		Overlay, 1922	\$15,203 55
Special Assessments 1922	24,717 62		Levy of 1921	3,603 21
Special Assessments 1921	1,969 16		Levy of 1920	1,007 13
Departmental Bills Receivable	18,369 27		Levy of 1918	141 52
Comm. of Mass. Soldiers'			Levy of 1917	766 20
Benefits 1922	10,519 67			
Water Dept. Accounts 1922	33,666 39			
		\$508,741 04	Reserve Fund, Surplus from	\$20,721 61
Commonwealth of Massachusetts:			Overlays	3,356 43
Account Abated Polls	2,704 00		Excess and Deficiency	150,005 89
Tax Titles	3,164 08			
Real Estate Liens	74 43			
Grade Crossings	427 30			
Overlay 1919	111 29			
		\$699,812 01		\$699,812 01

BALANCE SHEET.—Continued.

Non-Revenue Accounts.	
Cash in Banks and Offices	
Loans Authorized	
Unexpended balances:	
Appropriations	\$626,367 28
	<u>\$626,367 28</u>

Municipal Indebtedness	
Net Bonded Debt	1,459,000 00
Loans within statutory debt limit:	
City Bonds	\$197,000 00
Municipal Bonds	7,000 00
Sewer Bonds	179,000 00
Highway Bonds	247,000 00
School House Bonds	575,000 00
Bridge Bonds	27,000 00
Public Buildings Bonds	211,000 00
	<u>\$1,443,000 00</u>

Loans outside statutory debt limit:	
Sewer Bonds	\$9,000 00
Met. Park Assessment Bonds	7,000 00
	<u>\$16,000 00</u>
	<u>\$1,459,000 00</u>

Trust Funds	
Investments:	
Cash and Securities	\$27,396 24
	<u>\$27,396 24</u>
Trust Funds	
Trust Funds:	
School Funds	\$5,300 00
Library Funds	20,414 58
Poor Funds	1,681 66
	<u>\$27,396 24</u>

CASH STATEMENT, DECEMBER 31, 1922.

REVENUE.

Receipts.

General:—

Taxes	\$2,847,915 18
Corporation, Bank and Income Taxes	249,450 44
Licenses and Permits	12,943 59
Fines and Forfeits	5,772 23
State, Vocational Schools	8,273 44
State, Americanization	4,011 34
State, Commission on Blind	600 00
State, Continuation Schools	3,581 50
State, Smith-Hughes Fund	2,459 34
State, Account Boston Elevated Rail- way	21,712 43
County of Middlesex, Dog Licenses	2,053 71
Sale of Fire House	1,500 00
Miscellaneous	132 07

\$3,160,405 27

Special Assessments 61,090 17

Departmental:—

General Government	9,109 40
Protection of Persons and Property	2,812 15
Health and Sanitation	14,454 97
Highways	9,992 98
Charities	48,184 37
Soldiers' Benefits	11,915 50
Schools	19,990 20
Libraries	2,348 57
Baths	1,155 20
Miscellaneous	655 00

\$120,618 34

Water Department Accounts	\$276,826 12
Interest on deposits, taxes, etc.	28,147 24
Temporary Loans	1,758,000 00
Premium on Loans	2,397 50
Refunds	21,796 60

Total Receipts \$5,429,281 24

Balance at beginning of period 139,245 05

\$5,568,526 29

CASH STATEMENT, DECEMBER 31, 1922.—Continued.

Payments.	
Appropriations	\$2,843,743 14
Trust Funds Income	4,231 04
Temporary Loans	1,843,000 00
Comm. of Massachusetts:—	
Taxes and Assessments	462,303 00
Fees	5 25
County of Middlesex, Tax	123,565 67
Tax Titles	762 84
Real Estate Liens	15 55
Tellers Overs and Shorts	179 99
Refunds	878 93
Total Payments	\$5,278,685 41
Transfer to Non-Revenue	105,451 01
Balance on hand	184,389 87
	\$5,568,526 29

NON-REVENUE.

Receipts.	
Funded Debt Loans	\$625,000 00
Construction Bills Receivable	5,095 00
Redemption of Tax Titles	2,875 79
Liquor License Fees for State	3 75
Refunds	10,079 00
Total Receipts	\$643,053 54
Transfer from Revenue	105,451 01
Balance at beginning of period	21,989 15
	\$770,493 70

Payments.	
Appropriations	\$441,246 88
Redemption of Tax Titles	2,875 79
Commonwealth of Massachusetts, Fees	3 75
Total Payments	\$444,126 42
Balance on hand	326,367 28
	\$770,493 70

Summary.	
Total Revenue Receipts	\$5,429,281 24
Total Non-Revenue Receipts	643,053 54
	\$6,072,334 78
Total bal. at beginning of period	161,234 20
	\$6,233,568 98
Total Revenue Payments	\$5,278,685 41
Total Non-Revenue Payments	444,126 42
	\$5,722,811 83
Total balance on hand	510,757 15
	\$6,233,568 98

TAXES.—SPECIAL ASSESSMENTS

	Excise Tax	1917	1918	1919	1920	1921	1922	Totals
Uncollected January 1, 1922	\$21 66	\$772 20	\$143 52	\$572 17	\$2,917 34	\$449,077 38		\$453,504 27
Commitments	33 31						\$2,847,111 86	2,847,145 17
Total to Collect	\$54 97	\$772 20	\$143 52	\$572 17	\$2,917 34	\$449,077 38	\$2,847,111 86	\$3,300,649 44
Collections (Less Refunds)	34 32		21 20	31 80	234 09	438,342 98	2,408,631 57	2,847,295 96
Abatements		*6 00	2 00	439 58	1,001 03	5,901 84	26,510 10	33,860 55
Total Collections and abatements	\$34 32	\$6 00	\$23 20	\$471 38	\$1,235 12	\$444,244 82	\$2,435,141 67	2,881,156 51
Uncollected December 31, 1922	20 65	772 20	120 32	100 79	1,682 22	4,832 56	411,970 19	419,498 93
*Refunds								
Assessments levied 1920, Balance January 1, 1922						\$1,143 67	\$219 22	\$1,362 89
Assessments levied 1921, Balance January 1, 1922			7,986 55	1,581 07	6,069 39	6,412 45	4,419 30	20,056 31
Assessments levied 1922			45,199 56	7,559 74	6,412 45		7,361 02	66,532 77
Total to Collect			\$53,186 11	\$9,140 81	\$13,625 51	\$11,999 54	\$3,774 15	\$87,951 97
Collections (Less Refunds)			45,433 41	2,578 96	9,272 39			61,058 91
Abatements			206 28					206 28
Collections and Abatements			\$45,639 69	\$2,578 96	\$9,272 39	\$3,774 15	\$8,225 39	\$61,265 19
Uncollected			7,546 42	6,561 85	4,353 12			26,686 78
Uncollected 1921 Assessments								1,969 16
Uncollected 1922 Assessments								24,717 62
Total Uncollected Assessments								\$26,686 78

Street Sprinkling Sewer Sidewalks Highway Betterments Total

DEPARTMENTAL BILLS

Departmental Accounts, Pledged to Revenue	Balance Jan. 1, 1922	Committed 1922	Total to Collect	Abated	Collected	Uncollected
Police Department	—	\$490 62	\$490 62	.....	\$490 62	.....
Maintenance Police Buildings . . . . .	.....	1,175 00	1,175 00	.....	1,175 00	.....
Commissioner of Buildings . . . . .	.....	1,122 25	1,122 25	.....	1,100 00	22 25
Fire Department . . . . .	.....	100 00	100 00	.....	100 00	.....
Electrical Department . . . . .	.....	50 00	50 00	.....	50 00	.....
Health Department	367 14	1,149 84	1,516 98	71	386 93	1,129 34
Contagious Hospital	2,857 34	6,896 64	9,753 98	178 71	6,759 27	2,816 00
Inspection of Milk	31 00	600 50	631 50	.....	628 50	3 00
Sanitary Department	21 00	4,089 04	4,110 04	.....	4,089 04	21 00
Maintenance Sanitary Buildings . . . . .	.....	272 81	272 81	.....	272 81	.....
Highway Maintenance	118 34	9,417 30	9,535 64	8 69	9,432 46	94 49
Sidewalks Maintenance . . . . .	.....	85 15	85 15	.....	62 28	22 87
New Sidewalks . . . . .	.....	246 24	246 24	.....	246 24	.....
Street Sprinkling . . . . .	.....	12 00	12 00	.....	12 00	.....
Maintenance Highway Buildings	10 00	230 00	240 00	.....	240 00	.....
Poor Department, Miscellaneous	14,106 63	40,706 77	54,813 40	1,112 48	41,640 66	12,060 26
Poor Department, City Home	998 04	4,141 83	5,139 87	1,091 60	3,692 55	355 72
School Contingent	2,178 95	17,714 94	19,893 89	146 93	18,004 62	1,742 34
Maintenance School Buildings	144 00	1,890 25	2,034 25	23 00	1,909 25	102 00
Maintenance Park Buildings . . . . .	.....	20 00	20 00	.....	20 00	.....
Bathhouse . . . . .	.....	40 00	40 00	20 00	20 00	.....
	\$20,832 44	\$90,451 18	\$111,283 62	\$2,582 12	\$90,332 23	\$18,369 27

Construction Bills, Pledged to Appropriations:
Northern-Eastern Junior High School 5,110 00 5,110 00 15 00 5,095 00

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Taxes from State:				
Street Railway	\$13,000 00	\$24,477 35	\$11,477 35	
Licenses and Permits:				
Milk	400 00	422 50	22 50	
Health	120 00	213 00	93 00	
City Clerk	3,200 00	3,752 50	552 50	
Executive	1,000 00	1,107 00	107 00	
Pedlers' License Commission	900 00	959 00	59 00	
Buildings	1,800 00	2,641 50	841 50	
Electrical	2,200 00	2,804 00	604 00	
Board of License Commissioners	1,000 00	1,024 25	24 25	
Miscellaneous		19 84	19 84	
Fines and Forfeits:				
Court	4,500 00	5,520 96	1,020 96	
Departmental Penalties	150 00	174 00	24 00	
Grants and Gifts:				
County, Dog Licenses	2,050 00	2,053 71	3 71	
State, Industrial School	8,200 00	8,273 44	73 44	
Continuation School	4,000 00	4,011 34	11 34	
Americanization	3,000 00	3,581 50	581 50	
Commission for Blind		600 00	600 00	
Special Excise Tax		33 31	33 31	
Special Assessments:				
Street Sprinkling	44,900 00	45,008 10	108 10	
Sewers	3,700 00	7,659 74	3,859 74	
Street Betterments	9,000 00	7,361 02		1,638 98
Sidewalks	5,000 00	6,412 45	1,412 45	

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
General Government:				
Treasury Department	5,800 00	6,350 76	550 76	.....
City Clerk's Department	1,750 00	1,636 80	.....	113 20
Commissioner of Buildings	1,100 00	1,100 00	.....	.....
Protection of Persons and Property:				
Police Department	400 00	671 26	271 26	.....
Rent of Court Room	1,000 00	1,175 00	175 00	.....
Fire Department	200 00	216 00	16 00	.....
Sealer of Weights and Measurers	550 00	649 89	99 89	.....
Health and Sanitation:				
Health Department	700 00	386 93	.....	313 07
Contagious Hospital	8,000 00	6,759 27	.....	1,240 73
Inspection of Milk and Vinegar	850 00	655 10	.....	194 90
Sanitary Department	5,000 00	6,343 24	1,343 24	.....
Sanitary Buildings . . . . .	.....	272 81	272 81	.....
Sewer Buildings . . . . .	.....	37 62	37 62	.....
Highways:				
Highway Maintenance	4,500 00	9,432 46	4,932 46	.....
Street Sprinkling . . . . .	.....	12 00	12 00	.....
Sidewalks Maintenance . . . . .	.....	62 28	62 28	.....
New Sidewalks . . . . .	.....	246 24	246 24	.....
Highway Buildings	240 00	240 00	.....	.....
Charities:				
Poor Department, City Home	7,000 00	6,477 71	.....	522 29
Poor Department, Miscellaneous	34,500 00	41,706 66	7,206 66	.....

STATEMENT OF ESTIMATED REVENUE.

	Estimate	Receipts	Excess	Deficit
Soldiers' Benefits:				
State Aid	9,300 00	8,262 00	.....	1,038 00
Military Aid	1,500 00	2,206 00	706 00	.....
Soldiers' Benefits	400 00	51 67	.....	3 48 33
Education:				
School Contingent	16,100 00	18,056 64	1,956 64	.....
School Buildings	1,300 00	1,933 56	633 56	.....
Libraries:				
Library Department	2,100 00	2,348 57	248 57	.....
Recreation and Unclassified:				
Electrolysis	500 00	500 00	.....	.....
Bathhouse	600 00	698 60	98 60	.....
Shower Baths	450 000	456 60	6 60	.....
Miscellaneous	100 00	274 89	174 89	.....
Public Service Enterprises:				
Water Department	262,000 00	284,126 62	22,126 62	.....
Interest:				
Bank Deposits	9,500 00	11,885 23	2,385 23	.....
Deferred Taxes	14,700 00	14,873 39	173 39	.....
Deferred Assessments	200 00	193 46	.....	6 54
	<u>\$498,460 00</u>	<u>\$558,309 77</u>	<u>\$65,265 81</u>	<u>\$5,416 04</u>
Estimate				\$498,460 00
Actual				<u>\$558,309 77</u>
Excess				<u>\$ 59,849 77</u>

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE)

	Appropriations	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
General Government:—							
Board of Aldermen	\$1,300 00	.....	.....	.....	1,300 00	1,270 15	29 85
Clerk of Committees	3,000 00	.....	.....	.....	3,000 00	2,950 84	49 16
Executive Department	7,650 00	.....	.....	.....	7,650 00	7,457 77	192 23
Auditing Department	5,980 00	31 00	.....	.....	5,949 00	5,915 52	33 48
Treasury Department	20,750 00	.....	300 00	.....	21,050 00	21,047 35	2 65
Assessors' Department	21,780 00	485 00	.....	138 83	21,433 83	21,194 93	238 90
Pedlers' License Commission	25 00	.....	.....	.....	25 00	20 93	4 07
Board of License Commissioners	500 00	.....	.....	.....	500 00	471 85	28 15
Certification of Notes and Bonds	550 00	.....	630 00	.....	1,180 00	1,180 00	.....
City Clerk's Department	9,255 00	.....	.....	2,412 30	11,667 30	11,666 48	82
Registration City Laborers	435 00	.....	.....	.....	435 00	425 45	9 55
Law Department	3,075 00	.....	55 00	.....	3,130 00	3,127 80	2 20
City Messenger's Department	2,850 00	.....	31 00	.....	2,881 00	2,880 37	63
Engineering Department	12,945 00	.....	700 00	.....	13,645 00	13,602 06	42 94
Commissioner of Public Buildings	8,420 00	.....	.....	5 00	8,425 00	8,425 00	.....
Maintenance Municipal Bldgs	12,265 00	30 00	.....	.....	12,235 00	11,582 10	652 90
City Planning Board	50 00	.....	.....	.....	50 00	10 00	40 00
Election Expenses, City Clerk	1,350 00	.....	260 00	.....	1,610 00	1,606 25	3 75
Election Expenses, Registrars of Voters	4,920 00	.....	.....	.....	4,920 00	4,856 41	63 59
Pay of Election Officers	3,120 00	260 00	.....	.....	2,860 00	2,684 00	176 00
Maintenance Polling Places	680 00	.....	30 00	.....	710 00	709 08	92

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE)

	Appropriations	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Protection of Persons and Property:—							
Police Department	193,125 00	65 00	65 00	.....	193,190 00	193,185 57	4 43
Maintenance Police Buildings	6,195 00	165 00	165 00	.....	6,360 00	6,358 05	1 95
Fire Department	227,950 00	1,920 00	1,920 00	886 58	230,756 58	230,751 63	4 95
Maintenance Fire Buildings	16,185 00	220 00	.....	.....	15,965 00	15,696 54	268 46
Weights and Measures	2,595 00	.....	.....	.....	2,595 00	2,590 89	4 11
Electrical Department	19,495 00	535 00	.....	539 39	19,499 39	19,454 91	44 48
Maintenance Electrical Dept. Buildings	1,335 00	.....	55 00	.....	1,390 00	1,387 66	2 34
Suppression of Moths	4,400 00	200 00	.....	.....	4,200 00	4,188 54	11 46
Care of Trees	7,000 00	1,500 00	.....	.....	5,500 00	5,312 01	187 99
Health and Sanitation:—							
Health Department	18,940 00	.....	5,545 00	64 85	24,549 85	24,545 51	4 34
Vital Statistics	1,100 00	35 00	.....	.....	1,065 00	930 90	134 10
Contagious Hospital	19,245 00	3,000 00	.....	90 00	16,335 00	16,294 00	41 00
Maintenance Contagious Hospital	3,820 00	.....	250 00	.....	4,070 00	3,447 86	622 14
Inspection Animals and Provisions	2,230 00	.....	5 00	.....	2,235 00	2,233 05	1 95
Inspection Milk and Vinegar	5,255 00	50 00	.....	6 00	5,211 00	5,188 91	22 09
Inspection of School Children	1,705 00	.....	35 00	.....	1,740 00	1,738 30	1 70
School Nurses' Salaries	2,100 00	.....	.....	.....	2,100 00	2,100 00	.....
Sewers Maintenance	24,500 00	400 00	.....	542 58	24,642 58	24,296 77	345 81
Maintenance Sewer Buildings	240 00	.....	345 00	.....	585 00	582 31	2 69
Sanitary Department	192,485 00	21,125 00	.....	263 88	171,623 88	170,174 23	1,449 65

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE)

	Appropriations	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Maintenance Sanitary Buildings	955 00	150 00	.....	.....	805 00	646 46	158 54
Street Cleaning	27,580 00	2,000 00	.....	.....	25,580 00	25,479 35	100 65
Highways:—							
Highway Maintenance	59,520 00	.....	8,700 00	26,041 73	94,261 73	94,071 13	190 60
Sidewalks Maintenance	8,750 00	.....	.....	.....	8,750 00	8,704 23	45 77
Street Sprinkling	44,525 00	7,000 00	.....	.....	37,525 00	34,620 85	2,904 15
Street Lighting	79,000 00	1,000 00	.....	300 00	78,300 00	76,666 55	1,633 45
Maintenance Highway Buildings	1,755 00	.....	70 00	.....	1,825 00	1,824 05	95
Charities and Soldiers' Benefits:—							
Poor Department, Miscellaneous	89,465 00	.....	7,000 00	378 12	96,843 12	95,510 92	1,332 20
Poor Department, City Home Maintenance City Home Buildings	14,560 00	.....	.....	5 00	14,565 00	13,577 07	987 93
.....	4,255 00	.....	60 00	.....	4,315 00	4,314 50	50
Soldiers' Benefits, General administration	1,350 00	.....	.....	.....	1,350 00	1,332 63	17 37
Military Aid	3,000 00	.....	1,600 00	250 00	4,850 00	4,662 00	188 00
State Aid	9,300 00	.....	.....	6 00	9,306 00	8,268 00	1,038 00
Soldiers' Relief	33,075 00	.....	.....	1,196 00	34,271 00	33,008 29	1,262 71
Soldiers' Burials	400 00	.....	.....	.....	400 00	51 67	348 33
Education and Libraries:—							
School Contingent	56,550 00	.....	.....	2 75	56,552 75	56,528 04	24 71
School Teachers' Salaries	742,575 00	.....	.....	.....	742,575 00	735,019 56	7,555 44
Janitors' Services	60,000 00	.....	.....	85 00	60,085 00	58,228 59	1,856 41

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE)

	Appropriations	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Fuel and Light	55,200 00	.....	.....	.....	55,200 00	49,954 92	5,245 08
Buildings and Grounds	62,000 00	2,000 00	.....	418 28	60,418 28	59,905 29	512 99
Central Library	30,725 00	.....	15 00	183 76	30,923 76	30,921 67	2 09
Maintenance Central Library	6,025 00	.....	.....	.....	6,025 00	5,952 04	72 96
West Somerville Branch Li- brary	7,955 00	.....	.....	80 95	8,035 95	8,035 84	11
Maintenance West Somerville Branch Library	2,640 00	.....	.....	.....	2,640 00	2,468 09	171 91
East Somerville Branch Li- brary	5,335 00	.....	.....	16 11	5,351 11	5,351 01	10
Maintenance East Somerville Branch Library	1,975 00	.....	.....	.....	1,975 00	1,514 60	460 40
Union Square Branch Library	6,100 00	.....	.....	10 84	6,110 84	6,110 75	09
Maintenance Union Square Branch Library	2,210 00	.....	.....	.....	2,210 00	2,122 48	87 52
						
Recreation and Unclassified:—							
Park Maintenance	11,450 00	.....	.....	.....	11,450 00	11,383 15	66 85
Maintenance Park Buildings	1,690 00	.....	.....	9 00	1,699 00	1,519 56	179 44
Playgrounds Maintenance	6,510 00	300 00	.....	339 75	6,549 75	6,495 47	54 28
Public Welfare and Recrea- tion Commission	6,000 00	1,335 00	.....	.....	4,665 00	4,662 08	2 92
Maintenance Bathhouse	2,595 00	.....	.....	.....	2,595 00	2,531 49	63 51
Celebrations	6,500 00	.....	3,000 00	.....	9,500 00	9,463 30	36 70
Memorial Day	500 00	.....	350 00	.....	850 00	744 29	105 71
Municipal Documents	1,900 00	.....	185 00	473 84	2,558 84	2,557 53	1 31
Maintenance Bandstand	350 00	.....	150 00	.....	500 00	412 87	87 13
Rifle Practice Cos. A & B	400 00	.....	115 00	.....	515 00	514 20	80
Quarters for American Legion	600 00	.....	.....	.....	600 00	572 00	28 00
Contingent Fund	10,000 00	.....	.....	.....	10 000 00	.....	10,000 00

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE)

	Appropriations	Appropriation Trans. from	Appropriation Trans. to	Receipts and Service Trans.	Total Credit	Expenditures	Balance to Excess and Deficiency
Workmen's Compensation	5,000 00	350 00	.....	24 00	74 00	4,236 63	437 37
Pensions	40,000 00	230 00	.....	19 05	789 05	38,886 61	902 44
Damage to Persons and Property	12,000 00	.....	2,300 00	.....	14,300 00	14,278 59	21 41
Municipal Indebtedness:—							
Interest	*91,911 25	3,000 00	.....	2,291 67	91,202 92	88,608 31	2,594 61
Reduction of Funded Debt	169,500 00	.....	.....	.....	169,500 00	169,500 00	.....
Water Works:—							
Water Maintenance	65,725 00	.....	11,000 00	22,021 78	98,746 78	96,029 46	2,717 32
Water Works Extension	35,500 00	.....	.....	.....	35,500 00	32,539 92	2,960 08
Maintenance Water Buildings	1,375 00	.....	.....	.....	1,375 00	1,324 84	50 16
Metropolitan Water Assessment	132,300 00	4,000 00	.....	.....	138,300 00	128,207 84	92 16
Total Appropriations	\$2,889,386 25	\$49,236 00	\$44,936 00	\$59,103 04	\$2,944,189 29	\$2,892,860 70	\$51,328 59

* Including balance of \$5,181.25 from 1921.

STATEMENT OF APPROPRIATIONS, 1922 (REVENUE).

Other Accounts	Balance from 1921	Receipts	Total Credit	Expenditures	Balance to 1922
Income of Trust Funds:—					
School:—					
S. Newton Cutler	\$644 73	\$214 50	\$859 23	\$405 98	\$453 25
Caroline G. Baker	3 38	13 50	16 88	10 13	6 75
Smith Hughes	1,685 74	2,459 34	4,145 08	2,678 18	1,466 90
Library:—					
S. Newton Cutler	27 43	42 88	70 31	69 83	48
Martha R. Hunt, Art	89 24	100 00	189 24	157 23	32 01
Martha R. Hunt, Book	79.64	295 29	574 93	574 17	76
Hunt Fund for Expenses	202 77	.....	202 77	.....	202 77
Isaac Pitman, Art	63 30	171 32	234 62	234 10	52
Isaac Pitman, Poetry	51 88	42 82	94 70	89 73	4 97
Francis A. Wilder	11 48	4 50	15 98	11 69	4 29
Poor:—					
Olive C. Cummings	282 12	75 05	357 17	.....	357 17
Temporary Loans . . . . .	.....	.....	1,843,000 00	1,843,000 00	.....
State Taxes and Assessments . . . . .	.....	.....	462,303 00	462,303 00	.....
County Tax . . . . .	.....	.....	123,565 67	123,565 67	.....
Commonwealth of Massachusetts, Fees . . . . .	.....	.....	5 25	5 25	.....
Tax Titles . . . . .	.....	.....	762 84	762 84	.....
Real Estate Liens . . . . .	.....	.....	15 55	15 55	.....
Tellers Overs and Shorts . . . . .	.....	.....	179 99	179 99	.....
Refunds,—Taxes	.....	.....	659 54	659 54	.....
Water . . . . .	.....	.....	96 89	96 89	.....
Miscellaneous . . . . .	.....	.....	122 50	122 50	.....
Total Other Accounts	\$3,141 71	\$3,419 20	\$2,437,472 14	\$2,434,942 27	\$2,529 87
Revenue Totals			5,381,661 43	5,327,802 97	53,858 46

STATEMENT OF APPROPRIATIONS, 1922 (NON-REVENUE).

	Balance from 1921	Appropriation from 1921	Appropriation from transfers	Appropriation from Service Trans.	Total Credits	Expenditures	Balance to 1922
Protection of Persons and Property							
Electrical Department, Underground Wires	\$3,263 93	.....	.....	.....	\$3,263 93	\$457 98	\$2,805 95
Extreme Emergency Health and Safety	921 36	.....	.....	.....	921 36	.....	921 36
Fire Department, Additional Apparatus . . . . .	.....	\$8,500 00	.....	.....	11,500 00	.....	11,500 00
Health and Sanitation							
Sewers Construction	42 47	17,000 00	.....	\$246 36	17,288 83	14,532 45	2,756 38
Highways							
New Streets	60	20,000 00	.....	.....	20,000 60	15,726 51	4,274 09
Permanent Pavement	2,025 41	50,000 00	.....	10,079 00	71,104 41	69,100 60	2,003 81
Sidewalks Construction	15 72	12,000 00	.....	.....	16,015 72	15,379 35	636 37
Reconstruction and Resurfacing	26 50	30,000 00	.....	.....	30,176 50	30,156 12	20 38
Education							
Addition, Western Junior High School . . . . .	.....	140,000 00	.....	.....	152,000 00	106,713 90	45,286 10

STATEMENT OF APPROPRIATIONS, 1922 (NON-REVENUE).

	Balance from 1921	Appropriation from 1921	Appropriation from transfers to Service Trans.	Appropriation Receipts and Credits	Total Expenditures	Balance to 1922
Addition, Southern Junior High School	90,000 00	16,000 00	2,487 00	108,487 00	69,509 96	38,977 04
Northern - Eastern Junior High School	645,000 00	\$26,000 00	5,095 00	624,095 00	127,900 30	496,194 70
Bennett School Addition	166 71	.....	.....	166 71	.....	166 71
New School Building, East Somerville	1,046 70	.....	.....	1,046 70	.....	1,046 70
Schoolhouse Sprinkler Systems	3,539 88	.....	.....	3,539 88	.....	3,539 88
Boys' Industrial School Addition No. 2	353 35	353 35	.....	.....	.....	.....
Additional Land, Durrell School	.....	1,000 00	.....	1,000 00	.....	1,000 00
Recreation						
Field House, Richard Trum Playground	.....	2,201 46	.....	5,201 46	1 43	5,200 03
Field House, Dilboy Field	10,038 41	.....	.....	10,038 41	63	10,037 78

COMMONWEALTH OF MASSACHUSETTS.

Payments.

State Tax	\$194,520 00
State Highway Tax	396 46
Non-Resident Bank Tax	4,025 76
Metropolitan Sewer Assessment	95,065 14
Metropolitan Park Assessment	61,386 67
Wellington Bridge Assessment	1,910 65
Wellington Bridge Special Assessment	1,442 10
Grade Crossings Assessment	4,678 49
Charles River Basin Assessment	8,923 72
Alewife Brook Assessment	1,083 37
Abatement of Smoke Assessment	403 74
Fire Prevention Assessment	1,066 06
Soldiers' Exemption Assessment	286 84
Poll Taxes 1922	87,114 00
Liquor Licenses Fees 1921	5 25
Liquor License Fees 1922	3 75
Refund Account Foreign Corporation Tax 1921	30 92
Refund Account Domestic Corporation Tax 1921	33 70
Total	\$462,376 62

Receipts.

State Aid	9,152 00
Military Aid	2,703 50
Soldiers' Burials	60 00
Income Tax 1922	120,196 40
Income Tax 1921	18,406 50
Income Tax 1920	3,067 75
Income Tax 1919	438 25
Mothers' Aid	20,098 30
General Aid to Poor	10,557 08
Tuition State Wards	3,100 55
Smith-Hughes Fund	2,459 34
Vocational Schools	8,273 44
Continuation School	4,011 33
Americanization	3,581 50
Commission for Blind, Education	600 00
Account Deficit Boston Elevated Railway	21,712 43
Boxing Licenses	19 84
Corporation Taxes 1920	193 86
Corporation Taxes 1921	3,746 08
Corporation Taxes 1922	70,051 91
Refund Poll Taxes 1921	4,572 00
Refund Poll Taxes 1922	12,423 00
National Bank Tax 1921	24 45
National Bank Tax 1922	8,847 89
Street Railway Tax 1921	176 09
Street Railway Tax 1922	24,301 26
In Lieu of Taxes	92 75
Diseases Dangerous to Health	2,230 47
Total	\$355,097 97

COUNTY OF MIDDLESEX.

Payment.

County Tax	\$123,565 67
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Receipt.

Dog Licenses	\$ 2,053 71
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STATEMENT OF REVENUE AND EXPENSES.

Revenue.

Total amount as per assessors commitments		\$2,846,219 82
Less State Taxes	\$198,942 22	
County Tax	123,565 67	
Poll Taxes for State	86,733 00	
Overlay	28,067 65	
		<u>\$437,308 54</u>
Amount raised for municipal purposes		\$2,408,911 28
Other Revenue:		
Commonwealth of Massachusetts		
Income Tax 1919, Excess	\$438 25	
Income Tax 1920, Excess	3,067 75	
Income Tax 1921, Excess	9,244 12	
Income Tax 1922	120,196 40	
Corporation Taxes	73,927 23	
National Bank Taxes	8,872 34	
Account Boston Elevated Deficit	21,712 43	
Revenue from Taxes, Supplementary Warrants	771 81	
Estimated Revenue	\$498,460 00	
Excess	59,849 77	558,309 77
		<u>50,000 00</u>
Transfer from Excess and Deficiency		846,540 10
		<u>\$3,255,451 38</u>

Expenses.

General Appropriations	\$2,844,026 41	
Outlay Appropriations	95,500 00	
Metropolitan and Other Assessments	176,246 78	
Tellers Overs and Shorts	179 99	
		<u>\$3,115,953 18</u>
Excess of Revenue		\$ 139,498 20

TEMPORARY LOANS, 1922

Taken By	Nos.	Issued	Due	Rate	Amount	Paid
Sinking Fund Commissioners:						
City of Newton	991	Jan. 27, 1922	Mar. 31, 1922	4 00	\$18,000 00	Mar. 31, 1922
Somerville Trust Company	992 @ 994	Jan. 27, 1922	Nov. 3, 1922	4 00	25,000 00	Nov. 3, 1922
Old Colony Trust Company	995 @ 1002	Feb. 1, 1922	Nov. 3, 1922	4 10	75,000 00	Nov. 3, 1922
Somerville Y. M. C. A.	1003 @ 1004	Feb. 10, 1922	Dec. 15, 1922	4 10	40,000 00	Dec. 15, 1922
				4 20		
Old Colony Trust Company	1005 @ 1017	Feb. 17, 1922	Nov. 3, 1922	—1 75	200,000 00	Nov. 3, 1922
				4 05		
Old Colony Trust Company	1008 @ 1026	Mar. 22, 1922	Oct. 25, 1922	—5 00	100,000 00	Oct. 25, 1922
				4 05		
Blake Bros. & Co.	1027 @ 1032	Mar. 29, 1922	Nov. 3, 1922	+8 00	200,000 00	Nov. 3, 1922
				3 74		
Blake Bros. & Co.	1033 @ 1036	Apr. 25, 1922	Nov. 7, 1922	+6 00	200,000 00	Nov. 7, 1922
				3 45		
Old Colony Trust Company	1037 @ 1048	May 22, 1922	Nov. 17, 1922	+3 50	200,000 00	Nov. 17, 1922
First National Bank	1049 @ 1052	June 28, 1922	Dec. 12, 1922	3 39	200,000 00	Dec. 12, 1922
Grafton Company	1053 @ 1063	Aug. 17, 1922	Jan. 30, 1923	3.2 98	100,000 00	
				3 37		
First National Bank	1066 @ 1067	Sept. 7, 1922	Feb. 28, 1923	+2 75	100,000 00	
Old Colony Trust Company	1068 @ 1079	Sept. 27, 1922	Mar. 14, 1923	3 39	200,000 00	
Boston Safe Deposit & Trust Co.	1080 @ 1082	Dec. 4, 1922	June 12, 1923	4.125 +5 00	100,000 00	
Total amount of 1922 loans					\$1,758,000 00	
Outstanding January 1, 1922					585,000 00	
Payments 1922					\$2,343,000 00	
Outstanding December 31, 1922					1,843,000 00	
					\$ 500,000 00	

FUNDED DEBT.

The total funded debt of the city January 1, 1922 was \$1,003,500.00. New loans increased the debt during the year \$625,000.00. Maturities paid reduced the debt \$169,500.00. The net increase was \$455,000.00 making the total debt December 31, 1922 \$1,459,000.00. Of this total only \$16,000.00 is outside the debt limit.

Classified Debt January 1, 1922.

City Loan	\$249,500 00	
Municipal Loan	15,000 00	
Sewer Loan	199,000 00	
Public Building Loan	230,000 00	
Highway Loan	257,000 00	
Bridge Loan	28,000 00	
Emergency Loan	5,000 00	
	<hr/>	
Total within limit		\$983,500 00
Sewer Loan	12,000 00	
Metropolitan Park Loan	8,000 00	
	<hr/>	
Total outside limit		\$20,000 00
		<hr/>
Total Funded Debt		\$1,003,500 00

Loans Increasing the Debt.

Highway Loan	50,000 00	
Schoolhouse Loan	575,000 00	
	<hr/>	
		\$625,000 00

Maturities reducing the debt were as follows:—

City Loan	\$52,500 00	
Municipal Loan	8,000 00	
Sewer Loans	20,000 00	
Public Buildings Loan	19,000 00	
Highway Loan	60,000 00	
Bridge Loan	1,000 00	
Extreme Emergency Loan	5,000 00	
	<hr/>	
Total within limit		\$165,500 00
Sewer Loan	3,000 00	
Metropolitan Park Loan	1,000 00	
	<hr/>	
Total outside Limit		\$4,000 00
		<hr/>
Total Maturities		\$169,500 00

Classified Debt December 31, 1922.

City Bonds 3½%	16,000 00	
City Bonds 4%	171,000 00	
City Bonds 4¼%	10,000 00	
Municipal Bonds 4½%	7,000 00	
Sewer Bonds 3½%	50,000 00	
Sewer Bonds 4%	108,000 00	
Sewer Bonds 4¼%	21,000 00	
Public Buildings Bonds 4%	146,000 00	
Public Buildings Bonds 4½%	65,000 00	
Highway Bonds 4½%	28,000 00	
Highway Bonds 4%	104,000 00	
Highway Bonds 3½%	30,000 00	
Highway Bonds 5%	85,000 00	
Schoolhouse Bonds 4%	575,000 00	
Bridge Bonds 3½%	27,000 00	
Total within limit		\$1,443,000 00
Sewer Bonds 4%	\$9,000 00	
Metropolitan Park Bonds 3½%	7,000 00	
Total outside limit		\$16,000 00
Total Funded Debt		\$1,459,000 00

The total debt per capita December 31, 1922 is \$15.04.

The tax rate per \$1,000 valuation on account of Reduction of Funded Debt in 1922 was \$1.92.

TAXES.

The total amount of taxable property as of April 1, 1922, not including non-resident bank shares, was \$88,158,139.00. The tax rate was fixed at \$30.60 per \$1,000 valuation.

State Tax	194,520 00
State Highway Tax	396 46
Metropolitan Sewerage Assessment	95,065 14
Metropolitan Park Assessment	61,386 67
Wellington Bridge Assessment	3,352 75
Grade Crossings Assessment	4,678 49
Charles River Basin Assessment	8,923 72
Alewife Brook Assessment	1,083 37
Abatement of Smoke Assessment	403 74
Fire Prevention Assessment	1,066 06
County Tax	123,565 67
Non-Resident Bank Tax	4,025 76
City Budget	2,974,705 00
Overlay	28,067 65
Total amount raised	\$3,501,240 48

Less Estimated Revenue	\$498,460 00	
Appropriated from Excess and Deficiency	50,000 00	
State Income Tax, School Fund	81,292 40	
State Income Tax	39,001 26	
Corporation Taxes	64,000 00	
National Bank Tax	9,000 00	
Poll Taxes, Proportional part for City Use	57,822 00	
		<u>\$799,575 66</u>
Net Amount Assessed in Taxes		\$2,701,664 82

Special Assessments.

Street Sprinkling	45,199 56	
Amount committed		<u>\$2,746,864 38</u>

CITY AUDITOR.

FUNDED DEBT, DECEMBER 31, 1922.

Mature	City Loan	Municipal Loan	Sewer Loan	Public Building Loan	Highway Loan	Lowell Street Bridge Loan	Sewer Loan Chap. 357 1895	Metropolitan Park Assesment Loan Chap. 325, 1902	School-house Loan	Total
1923.....	\$41,500	\$7,000	\$18,000	\$18,000	\$46,000	\$1,000	\$3,000	\$1,000	\$30,000	\$165,500
1924.....	25,500	.....	17,000	18,000	46,000	1,000	3,000	1,000	30,000	141,500
1925.....	23,000	.....	17,000	18,000	35,000	1,000	3,000	1,000	30,000	128,000
1926.....	19,000	.....	15,000	18,000	30,000	1,000	.....	1,000	30,000	114,000
1927.....	19,000	.....	14,000	17,000	22,000	1,000	.....	1,000	30,000	104,000
1928.....	17,000	.....	12,000	16,000	19,000	1,000	.....	1,000	29,000	95,000
1929.....	16,000	.....	11,000	16,000	19,000	1,000	.....	1,000	29,000	93,000
1930.....	15,000	.....	10,000	16,000	15,000	1,000	.....	.....	29,000	86,000
1931.....	12,000	.....	10,000	15,000	10,000	1,000	.....	.....	29,000	77,000
1932.....	9,000	.....	8,000	15,000	5,000	1,000	.....	.....	29,000	67,000
1933.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	28,000	51,000
1934.....	.....	.....	8,000	14,000	.....	1,000	.....	.....	28,000	51,000
1935.....	.....	.....	7,000	8,000	.....	1,000	.....	.....	28,000	44,000
1936.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	28,000	39,000
1937.....	.....	.....	6,000	4,000	.....	1,000	.....	.....	28,000	39,000
1938.....	.....	.....	4,000	.....	.....	1,000	.....	.....	28,000	33,000
1939.....	.....	.....	3,000	.....	.....	1,000	.....	.....	28,000	32,000
1940.....	.....	.....	2,000	.....	.....	1,000	.....	.....	28,000	31,000
1941.....	.....	.....	1,000	.....	.....	1,000	.....	.....	28,000	30,000
1942.....	.....	.....	1,000	.....	.....	1,000	.....	.....	28,000	30,000
1943.....	.....	.....	1,000	.....	.....	1,000	.....	.....	.....	2,000
1944.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
1945.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
1946.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
1947.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
1948.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
1949.....	.....	.....	.....	.....	.....	1,000	.....	.....	.....	1,000
	\$197,000	\$7,000	\$179,000	\$211,000	\$247,000	\$27,000	\$9,000	\$7,000	\$575,000	\$1,459,000

INTEREST REQUIREMENTS ON PRESENT CITY DEBT.

	City	Municipal	Sewer	Public Buildings ³	Highway	Bridges	Metropolitan Park	Schoolhouse	Total
1923.....	\$7,302 50	\$315 00	\$7,091 25	\$8,565 00	\$9,800 00	\$927 50	\$245 00	\$22,660 00	\$56,906 25
1924.....	5,850 00	.....	6,278 75	7,820 00	7,880 00	892 50	210 00	21,460 00	50,391 25
1925.....	4,850 00	.....	5,506 25	7,075 00	6,180 00	857 50	175 00	20,260 00	44,903 75
1926.....	4,022 50	.....	4,768 75	6,330 00	4,795 00	822 50	140 00	19,060 00	39,938 75
1927.....	3,267 50	.....	4,186 25	5,585 00	3,610 00	787 50	105 00	17,860 00	35,401 25
1928.....	2,552 50	.....	3,663 75	4,880 00	2,670 00	752 50	70 00	16,680 00	31,268 75
1929.....	1,897 50	.....	3,196 25	4,220 00	1,790 00	717 50	35 00	15,520 00	27,376 25
1930.....	1,280 00	.....	2,768 75	3,560 00	1,000 00	682 50	.....	14,360 00	23,651 25
1931.....	740 00	.....	2,381 25	2,920 00	425 00	647 50	.....	13,200 00	20,313 75
1932.....	320 00	.....	2,013 75	2,300 00	100 00	612 50	.....	12,040 00	17,386 25
1933.....	.....	.....	1,701 25	1,700 00	.....	577 50	.....	10,880 00	14,858 75
1934.....	.....	.....	1,388 75	1,120 00	.....	542 50	.....	9,760 00	12,811 25
1935.....	.....	.....	1,096 25	620 00	.....	507 50	.....	8,640 00	10,863 75
1936.....	.....	.....	841 25	360 00	.....	472 50	.....	7,520 00	9,193 75
1937.....	.....	.....	603 75	180 00	.....	437 50	.....	6,400 00	7,621 25
1938.....	.....	.....	406 25	.....	.....	402 50	.....	5,280 00	6,088 75
1939.....	.....	.....	268 75	.....	.....	367 50	.....	4,160 00	4,796 25
1940.....	.....	.....	168 75	.....	.....	332 50	.....	3,040 00	3,541 25
1941.....	.....	.....	106 25	.....	.....	297 50	.....	1,920 00	2,323 75
1942.....	.....	.....	63 75	.....	.....	262 50	.....	800 00	1,126 25
1943.....	.....	.....	21 25	.....	.....	227 50	.....	.....	248 75
1944.....	.....	.....	.....	.....	.....	192 50	.....	.....	192 50
1945.....	.....	.....	.....	.....	.....	157 50	.....	.....	157 50
1946.....	.....	.....	.....	.....	.....	122 50	.....	.....	122 50
1947.....	.....	.....	.....	.....	.....	87 50	.....	.....	87 50
1948.....	.....	.....	.....	.....	.....	52 50	.....	.....	52 50
1949.....	.....	.....	.....	.....	.....	17 50	.....	.....	17 50
	\$32,082 50	\$315 00	\$48,521 25	\$57,235 00	\$38,250 00	\$12,757 50	\$980 00	\$231,500 00	\$421,641 25

MATURITIES ON FUNDED DEBT, 1923.

Class of Loan	Jan. 1, 1923	April 1, 1923	July 1, 1923	Oct. 1, 1923	Total
City	\$ 2,000 00	\$24,000 00	\$13,500 00	\$ 2,000 00	\$ 41,500 00
Municipal	.....	.....	7,000 00	.....	7,000 00
Sewer	3,000 00	9,000 00	9,000 00	.....	21,000 00
Public Buildings	5,000 00	5,000 00	8,000 00	.....	18,000 00
Highway	8,000 00	36,000 00	2,000 00	.....	46,000 00
Bridge	.....	1,000 00	.....	.....	1,000 00
Metropolitan Park	.....	.....	1,000 00	.....	1,000 00
Schoolhouse	.....	17,000 00	.....	13,000 00	30,000 00
Total	\$18,000 00	\$92,000 00	\$40,500 00	\$15,000 00	\$165,500 00

INTEREST REQUIREMENTS ON FUNDED DEBT 1923.

Class of Loan	Jan. 1, 1923	April 1, 1923	July 1, 1923	Oct. 1, 1923	Total
City	\$1,980 00	\$ 1,932 50	\$1,940 00	\$ 1,450 00	\$ 7,302 50
Municipal	157 50	.....	157 50	.....	315 00
Sewer	990 00	2,671 25	935 00	2,495 00	7,091 25
Public Buildings	3,222 50	1,160 00	3,122 50	1,060 00	8,565 00
Highway	685 00	4,675 00	545 00	3,895 00	9,800 00
Bridge	.....	472 50	.....	455 00	927 50
Metropolitan Park	122 50	.....	122 50	.....	245 00
Schoolhouse	.....	11,500 00	.....	11,160 00	22,660 00
Total	\$7,157 50	\$22,411 25	\$6,822 50	\$20,515 00	\$56,906 25

MATURITIES ON FUNDED DEBT (SIX YEARS.)

Class of Loan	1918	1919	1920	1921	1922	1923	Total
City	\$105,500 00	\$92,500 00	\$79,500 00	\$68,500 00	\$52,500 00	\$41,500 00	\$440,000 00
Municipal	8,000 00	8,000 00	8,000 00	8,000 00	8,000 00	7,000 00	47,000 00
Sewer	23,000 00	23,000 00	23,000 00	23,000 00	23,000 00	21,000 00	136,000 00
Public Buildings	24,000 00	24,000 00	24,000 00	24,000 00	19,000 00	18,000 00	133,000 00
Highway	79,000 00	78,000 00	68,000 00	64,000 00	60,000 00	46,000 00	395,000 00
Bridges	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Metropolitan Park	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	6,000 00
Water	5,000 00	4,000 00	2,000 00	.....	.....	.....	11,000 00
Extreme Emergency	5,000 00	5,000 00	5,000 00	5,000 00	5,000 00	.....	25,000 00
Schoolhouse . . . . .	.....	.....	.....	.....	.....	30,000 00	30,000 00
Total	\$251,500 00	\$236,500 00	\$211,500 00	\$194,500 00	\$169,500 00	\$165,500 00	\$1,229,000 00

INTEREST REQUIREMENTS ON FUNDED DEBT (SIX YEARS.)

Class of Loan	1918	1919	1920	1921	1922	1923	Total
City	\$22,143 75	\$18,162 50	\$14,757 50	\$11,767 50	\$9,257 50	\$7,302 50	\$83,391 25
Municipal	2,115 00	1,755 00	1,395 00	1,035 00	675 00	315 00	7,290 00
Sewer	11,533 75	10,641 25	9,748 75	8,856 25	7,963 75	7,091 25	55,835 00
Public Buildings	13,270 00	12,285 00	11,300 00	10,315 00	9,330 00	8,565 00	65,065 00
Highway	14,325 00	12,162 50	11,457 50	11,345 00	11,050 00	9,800 00	70,140 00
Bridges	1,102 50	1,067 50	1,032 50	997 50	962 50	927 50	6,090 00
Metropolitan Park	420 00	385 00	350 00	315 00	280 00	245 00	1,995 00
Water	440 00	240 00	80 00	.....	.....	.....	760 00
Extreme Emergency	1,062 50	850 00	637 50	425 00	212 50	.....	3,187 50
Schoolhouse . . . . .	.....	.....	.....	.....	6,500 00	.....	.....
Total	\$66,412 50	\$57,548 75	\$50,758 75	\$45,056 25	\$46,231 25	\$56,906 25	\$322,913 75

BORROWING CAPACITY DECEMBER 31, 1922.

Valuation 1920	\$83,910,855 60	
Supplementary	17,700 00	
	<hr/>	\$83,928,555 60
Valuation 1921	86,718,289 60	
Supplementary	75,258 00	
	<hr/>	\$86,793,547 60
Valuation 1922	88,158,139 27	
Supplementary	8,400 00	
	<hr/>	\$88,166,539 27
 Total		<hr/>
		\$258,888,642 47
Abatements 1920	493,150 00	
Abatements 1921	626,258 00	
Abatements 1922	358,500 00	
	<hr/>	1,477,908 00
		<hr/>
		\$257,410,734 47
Average valuation for three years		\$85,803,578 16
Two and one-half per cent		2,145,089 45
Present debt within limit		1,443,000 00
		<hr/>
Borrowing capacity December 31, 1922		\$702,089 45
Less Schoolhouse Loan Authorized		300,000 00
		<hr/>
		\$402,089 45
 Maturities:—		
January 1, 1923	\$18,000 00	
April 1, 1923	92,000 00	
July 1, 1923	\$40,500 00	
Less Outside Limit	4,000 00	
October 1, 1923	<hr/>	15,000 00
		<hr/>
		\$161,500 00
		<hr/>
		\$563,589 45

ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEAR.

Charges:	
Street Sprinkling 1921	\$14 82
Credit:	
Excess and Deficiency	14 82

WATER CHARGES 1921, REFUNDED OR ABATED.

Charges:	
Metered 1921	\$11 45
Annual 1921	3 54
	<hr/>
	\$14 99
Credit:	
Excess and Deficiency	14 99

TELLERS OVERS AND SHORTS

Charges:	
Shortages	\$179 99
Credit:	
Excess and Deficiency	179 99

STATE INCOME TAX 1919

Credit:	
Cash from Commonwealth	\$438 25
Charges:	
To Revenue 1922	438 25

STATE INCOME TAX 1920

Credit:	
Cash from Commonwealth	\$3,067 75
Charges:	
To Revenue 1922	\$3,067 75

STATE INCOME TAX 1921

Credit:	
Cash from Commonwealth	\$18,406 50
Charges:	
Balance from 1921 account	\$9,162 38
To Revenue 1922	9,244 12
	<hr/>
	\$18,406 50

STATE INCOME TAX 1922

Charges:	
Estimate Account General School Fund	81,292 40
Estimate Account General Purposes	39,001 26
	<hr/>
	\$120,293 66
Credits:	
Cash from Commonwealth	\$120,196 40
Revenue 1922	97 26
	<hr/>
	\$120,293 66

CORPORATION TAXES.

Credits:			
Cash, Commonwealth, Account 1920		\$193 86	
Commonwealth, Account 1921		3,746 08	
Commonwealth, Account 1922		70,051 91	
		<hr/>	\$73,991 85
Charges:			
Estimate for 1922		64,000 00	
Refund to Commonwealth		64 62	
To Revenue 1922		9,927 23	
		<hr/>	\$73,991 85

NATIONAL BANK TAXES.

Charges:			
Estimate 1922			\$9,000 00
Credits:			
Cash, Commonwealth, Account 1921		24 45	
Commonwealth Account, 1922		8,847 89	
Revenue 1922		127 66	
		<hr/>	\$9,000 00

TAX TITLES.

Charges:			
Balance from 1921 account		2,478 51	
Taxes for 1921, titles owned by city		750 84	
Title purchased		12 00	
		<hr/>	\$3,241 35
Credit:			
Cash			77 27
			<hr/>
Balance to 1923 account			\$3,164 08

REAL ESTATE LIENS.

Charges:			
Balance from 1921 account		\$193 88	
Taxes 1921		15 55	
		<hr/>	\$209 43
Credit:			
Cash			135 00
			<hr/>
Balance to 1923 account			\$74 43

GRADE CROSSING ADVANCES.

Charges:		
Balance from 1921 account		\$427 30

SALE OF LAND AND BUILDINGS, MARSHALL STREET.

Credit:		
Cash Deposit		\$1,500 00

TAILINGS.

Credit:		
Balance from 1921 account		\$291 65

PREMIUMS ON BONDS.

Credits:			
Cash, Loan of April 1, 1922		\$975 00	
" Loan of October 2, 1922		1,422 50	
		<hr/>	\$2,397 50

ACCRUED INTEREST ON BONDS.

Credits:		
Cash, Loan of April 1, 1922	2,291 67	
" Loan of October 2, 1922	111 11	
		<u>\$2,402 78</u>
Charges:		
General Appropriations		2,291 67
		<u>2,291 67</u>
Balance to 1923 account		\$111 11

REVENUE FROM TAXES, SUPPLEMENTARY WARRANTS.

Credits:		
Balance from 1921 account	\$823 65	
Supplementary Warrant, No. 1	635 00	
Supplementary Warrant, No. 2	257 04	
Charged to Commonwealth, on account of Abated Polls of 1921	136 00	
Account Abated Polls of 1922	63 00	
		<u>\$1,914 69</u>
Charges:		
Abatements	\$233 22	
Credit to Commonwealth, — account Polls 1922	381 00	
To Revenue 1922	771 81	
		<u>\$1,386 03</u>
Balance to 1923 account		\$528 66

REDEMPTION OF TAX TITLES.

Credit:		
Cash received		\$2,875 79
Charges:		
Cash paid, titles redeemed		2,875 79

OVERLAY ACCOUNTS.

Overlay 1917.

Credit:		
Balance from 1921 account		\$772 20
Charges:		
Abatements		6 00
		<u>6 00</u>
Balance to 1923 account		\$766 20

Overlay 1918.

Credit:		
Balance from 1921 account		\$143 52
Charges:		
Abatement		2 00
		<u>2 00</u>
Balance to 1923 account		\$141 52

Overlay 1919.

Credit:		
Balance from 1921 account		\$326 29
Charges:		
Abatements		437 58
		<u>437 58</u>
Debit Balance to 1923 account		\$111 29

Overlay 1920.

Credit:		
Balance from 1921 account		\$1,988 16
Charges:		
Abatements		981 03
		<hr/>
Balance to 1923 account		\$1,007 63

Overlay 1921.

Credit:		
Balance from 1921 account	\$6,310 83	
Charges to Commonwealth account		
Polls Abated	3,070 00	
	<hr/>	\$9,380 83
Charges:		
Abatements		5,777 62
		<hr/>
Balance to 1923 account		\$3,603 21

Overlay 1922.

Credit:		
Taxes 1922	\$28,067 65	
Charges to Commonwealth account		
Polls Abated	13,559 00	
	<hr/>	\$41,626 65
Charges:		
Abatements		26,423 10
		<hr/>
Balance to 1923 account		\$15,203 55

RESERVE FUND, SURPLUS FROM OVERLAY.

Credit:		
Balance from 1921 account		\$3,356 45

EXCESS AND DEFICIENCY

Credits:		
Balance from 1921 account	\$60,273 37	
Refund account Soldiers' Relief 1921 .	204 00	
Adjustment of charges to Common-		
wealth on Soldiers' Benefits 1921 .	92 00	
Revenue Excess 1921	139,498 20	
	<hr/>	\$200,067 57
Charges:		
Transfer to reduce tax levy	\$50,000 00	
Abatements Special Assessments Prior		
years	14 82	
Water Charges 1921 abated	14 99	
Interest on Tax Sale	26 62	
Liquor Licenses Fees 1921	5 25	
	<hr/>	\$50,061 68
		<hr/>
Balance to 1923 account		\$150,005 89

CLASSIFICATION OF RECEIPTS AND EXPENDITURES.

Receipts.

General Revenue:

Taxes:—

Taxes 1922	\$2,409,023 15
Taxes 1921	438,447 62
Taxes 1920	387 41
Taxes 1919	33 80
Taxes 1918	23 20

From State:—

Corporations 1920	193 86
Corporations 1921	3,746 08
Corporations 1922	70,051 91
National Bank 1921	24 45
National Bank 1922	8,847 89
Street Railway 1921	176 09
Street Railway 1922	24,301 26
Income 1919	438 25
Income 1920	3,067 75
Income 1921	18,406 50
Income 1922	120,196 40
Excise Tax, Ship Owners	39 32

Licenses and Permits

Licenses:—

Amusements	1,107 00
Dealers in Motor Vehicles	375 00
Junk	775 00
Milk	422 50
Pool billiards and bowling	336 00
Sunday	655 00
Innholders and Victuallers	152 00
Pedlers	959 00
All other	451 75

Permits:—

Marriage	1,131 00
Buildings	2,641 50
Electrical	2,804 00
All other	1,114 00

Fines and Forfeits

Court Fines	5,520 96
Departmental Penalties	174 00
Tax Titles Sold to Individuals	77 27

Grants and Gifts

From State:—

Vocational Schools	8,273 44
Continuation School	4,011 34
Americanization.	3,581 50
Blind	600 00

Carried forward	<u>16,466 28</u>
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Brought forward	16,466 28	
Smith-Hughes Fund	2,459 34	
Deficit Boston Elevated Ry.	21,712 43	
Boxing Licenses	19 84	
From County:—		
Dog Licenses	2,053 71	
All Other General Revenue		
Deposit, Sale of Land and Buildings	1,500 00	
State, in Lieu of Taxes	92 75	
		<hr/>
Total General Revenue		\$3,160,405 27

Commercial Revenue—Special Assessments

For Expenses:—

Street Sprinkling 1922	\$37,492 94
Street Sprinkling 1921	7,971 73

For Outlays:—

Sewers 1922	1,090 61
Sewers 1921	1,488 35
Sidewalks 1922	3,071 40
Sidewalks 1921	5,057 32
Sidewalks 1920	1,143 67
Street Betterments 1921	3,554 93
Street Betterments 1920	219 22

Total Commercial Revenue—Special Assessments

\$61,090 17

Commercial Revenue—Departmental.**General Government**

Treasurer and Collector	\$6,350 76
Assessors	2 25
City Clerk	1,636 80
Engineering	19 59
Commissioner of Buildings	1,100 00

Protection of Persons and Property

Police Department:—

Cloth	351 70
Rent of Court Room	1,175 00
All Other	319 99

Fire Department:—

Sale of Old Materials	266 00
Sealer of Weights and Measures	649 89
Electrical Dept., Sale of Old Car	50 00

Health and Sanitation

Contagious Hospital	6,759 27
Health Department	386 93
Inspection	335 10
Sale of auto	320 00
Sanitary Department:—	
Garbage	2,603 45
Sale of equipment	3,739 79
Sanitary Buildings, rent	272 81
Sewer Buildings	37 62

Carried forward	<hr/>	14,454 97
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Brought forward	14,454 97
Highways:	
Labor and Materials	9,432 46
Sidewalks:—	
Maintenance	62 28
Outlay	246 24
Street Sprinkling	12 00
Rent of Tenements	240 00
Charities	
Almshouse:—	
Sale of produce, etc.	\$2,785 16
Board	3,692 55
Outside Relief:—	
Individuals	267 85
Cities and Towns	8,127 66
State	10,557 08
Mothers' Aid:—	
Cities and Towns	2,655 77
State	20,098 30
Soldiers' Benefits	
State Aid	9,152 00
Military Aid	2,703 50
Soldiers' Burials	60 00
Education	
Tuition State Wards	3,100 55
Other Tuition	14,904 07
Rent High School Hall	1,077 00
School Buildings, Miscellaneous	306 56
Sale of Buildings	550 00
School Telephone	52 02
Libraries	
Fines, Lost Books, etc.	2,348 57
Recreation	
Park Buildings	20 00
Shower Baths	456 60
Bathhouse	698 60
Unclassified	
Electrolysis	500 00
Real Estate Liens	135 00
Total Commercial Revenue—De-	
partmental	\$120,618 34
Commercial Revenue—Public Service Enterprises	
Water Department	
Sale of Water:—	
Metered 1922	\$207,594 72
Metered 1921	26,272 54
Annual	27,643 75
Additional	1,093 29
Carried forward	262,604 30

Brought forward	262,604 30	
Service Assessments	9,674 58	
Maintenance Bills	4,547 24	
		<hr/>
Total Commercial Revenue— Public Service Enterprises		\$276,826 12
 Commercial Revenue—Interest		
Deposits	\$11,885 23	
Taxes	14,873 39	
Special Assessments	193 46	
Miscellaneous	35 30	
Trust Funds:—		
School	228 00	
Library	856 81	
Poor	75 05	
		<hr/>
Total Commercial Revenue In- terest		\$28,147 24
 Municipal Indebtedness		
Temporary Loans:—		
Anticipation of Revenue	\$1,758,000 00	
General Loans:—		
Highway	50,000 00	
Schoolhouse	575,000 00	
Premiums on Loans	2,397 50	
		<hr/>
Total Municipal Indebtedness		\$2,385,397 50
 Agency, Trust and Investment		
Redemption of Tax Titles	\$2,875 79	
Liquor Licenses for State	3 75	
		<hr/>
Total Agency, Trust and Invest- ment		\$ 2,879 54
 Refunds		
Appropriations	\$ 742 82	
Soldiers' Benefits 1922	1,452 00	
Soldiers' Benefits 1921	204 00	
Accrued Interest	2,402 78	
Commonwealth:—		
Poll Taxes 1921	4,572 00	
Poll Taxes 1922	12,423 00	
Boston Elevated Railway, Paving	10,079 00	
Sale of Buildings	5,095 00	
		<hr/>
Total Refunds		\$ 36,970 60
		<hr/>
Total Receipts		\$6,072,334 78

EXPENDITURES

GENERAL GOVERNMENT

	Expenses	Outlays
Board of Aldermen Expenses		
Books, postage and supplies	\$44 00	
Printing and advertising	80 00	
Refreshments	1,019 20	
Badges	88 20	
All other	38 75	
	<hr/>	
	\$1,270 15	
Clerk of Committees Department		
Salaries and Wages:—		
Clerk	2,100 00	
Assistant Clerk	700 00	
Other Expenses:—		
Books, postage and supplies	39 49	
Printing and advertising	4 25	
Telephone	92 10	
All other	15 00	
	<hr/>	
	2,950 84	
Executive Department		
Salaries and Wages:—		
Mayor	4,000 00	
Secretary	1,475 34	
Clerks	1,083 83	
Other Expenses:—		
Books, postage and supplies	226 55	
Printing and advertising	179 75	
Telephone	150 08	
Inauguration Expenses	81 00	
Contingent expenses	226 19	
All other	35 03	
	<hr/>	
	7,457 77	
Auditing Department		
Salaries and Wages:—		
Auditor	3,100 00	
Clerks	1,902 66	
Other Expenses:—		
Books, postage and supplies	159 24	
Printing and advertising	560 52	
Binding	52 00	
Telephone	40 29	
All other	19 56	
Special Item:—		
Typewriter	81 25	
	<hr/>	
	5,915 52	

	Expenses	Outlays
Treasury Department		
Salaries and Wages:—		
Treasurer and Collector	4,000 00	
Deputy Collector	2,000 00	
Cashiers	2,539 50	
Clerks	8,349 42	
Other Expenses:—		
Books, postage and supplies	2,406 54	
Printing and advertising	1,007 29	
Telephone	144 50	
Bonds	386 57	
Car Fares	26 90	
Car hire	12 00	
All other	66 83	
Special Item:—		
Coin changer	107 80	
	<hr/>	21,047 35
Assessors' Department		
Salaries and Wages:—		
Chairman	2,800 00	
Assessors	4,800 00	
Assistant Assessors	1,500 00	
Clerks (Office)	7,371 41	
Clerks (Street)	500 00	
Other Expenses:—		
Books, postage and supplies	1,008 78	
Printing and advertising	2,937 52	
Carfares, auto hire, etc.	18 65	
Telephone	39 11	
All other	80 63	
	<hr/>	21,056 10
Board of License Commissioners		
Salaries and Wages:—		
Inspector	200 00	
Clerk	200 00	
Other Expenses:—		
Books, postage and supplies	46 10	
Printing and advertising	25 75	
	<hr/>	471 85
Pedlers' License Commission		
Books, postage and supplies	20 93	20 93
	<hr/>	
Certification of Notes and Bonds		
Certifying	1,180 00	
	<hr/>	1,180 00

	Expenses	Outlays
City Clerk's Department		
Salaries and Wages:—		
City Clerk	3,500 00	
Assistant City Clerk	1,800 00	
Clerks	3,078 96	
Other Expenses:—		
Books, postage and supplies	589 41	
Printing and advertising	79 31	
Binding	39 74	
Telephone	132 29	
All other	34 47	
	<hr/>	9,254 18
Registration of City Laborers		
Salaries and Wages:—		
Registration Clerk	400 00	
Other Expenses:—		
Stationery and postage	19 20	
Printing	4 50	
All other	1 75	
	<hr/>	425 45
Law Department		
Salaries and Wages:—		
City Solicitor	2,700 00	
Other Expenses:—		
Books, postage and supplies	38 59	
Printing and advertising	4 00	
Recording	60 03	
Clerical Hire	156 00	
Witness Fee, Etc.	111 73	
Telephone	20 00	
All other	37 45	
	<hr/>	3,127 80
City Messenger's Department		
Salaries and Wages:—		
Messenger	2,200 00	
Other Expenses:—		
Stationery and postage	3 00	
Printing and advertising	5 25	
Auto Maintenance	634 65	
Telephone	24 27	
Carfares	13 20	
	<hr/>	2,880 37
Engineering Department		
Salaries and Wages:—		
City Engineer	4,000 00	
Assistants	7,317 54	
Clerks	1,103 00	
	<hr/>	
Carried forward	12,420 54	

	Expenses	Outlays
Brought forward	12,420 54	
Other Expenses:—		
Supplies, printing, postage	132 25	
Telephone	130 05	
Auto maintenance	697 02	
Instruments and equipment	27 04	
Carfares	131 46	
All other	63 70	
	<hr/>	
		13,602 06
Public Buildings Department, Commissioner of Public Buildings		
Salaries and Wages:—		
Commissioner	3,100 00	
Inspector of Plumbing	1,900 00	
Clerks	2,152 93	
Other Expenses:—		
Books, postage and supplies	215 96	
Printing and advertising	129 75	
Telephone	178 61	
Auto maintenance	620 00	
All other	45 15	
Special Items:—		
Inspection elevators	77 60	
	<hr/>	
		8,420 00
Public Buildings Department, Maintenance Municipal Buildings		
Salaries and Wages:—		
Janitors	5,170 97	
Labor	826 19	
Other Expenses:—		
Fuel and Light	3,160 58	
Furniture and Furnishings	1,058 07	
Janitors Supplies	310 21	
Repairs to Buildings	358 39	
Heating apparatus and equipment	210 10	
Plumbing and supplies	142 97	
Hardware and materials	58 79	
Ice	281 35	
All other	4 48	
	<hr/>	
		11,582 10
City Planning Board		
Clerical Work	10 00	
	<hr/>	
		10 00
Election Expenses, City Clerk		
Salaries and Wages:—		
Clerks	600 00	
	<hr/>	
Carried forward	600 00	

	Expenses	Outlays
Brought forward	600 00	
Other Expenses:—		
Equipment, supplies, stationery and postage	409 21	
Printing and advertising	302 53	
Carfares and auto hire	275 00	
Refreshments	16 25	
All other	3 26	
	<hr/>	
		1,606 25
Election Expenses, Registrars of Voters		
Salaries and Wages:—		
Registrars	1,210 00	
Clerks	297 00	
Clerical hire	1,801 00	
Other Expenses:—		
Stationery and postage and supplies	181 62	
Printing and advertising	1,239 36	
Refreshments	18 00	
Car hire	44 00	
Registers	64 68	
All other	75	
	<hr/>	
		4,856 41
Election Expenses, Pay of Election Officers		
Salaries and Wages:—		
Wardens	460 00	
Inspectors	1,764 00	
Clerks	460 00	
	<hr/>	
		2,684 00
Public Building Department, Maintenance Polling Places		
Labor	57 71	
Teaming	66 00	
Lumber	39 40	
Hardware and materials	29 67	
Fuel and Light	190 78	
Repairs Buildings	223 91	
Rent Halls	70 00	
Special Item:—		
Boxes	31 61	
	<hr/>	
		709 08
Police Department		
Salaries and Wages:—		
Chief	3,000 00	
Captains and Lieutenants	11,700 00	
Sergeants and Inspectors	12,300 00	
Patrolmen	152,702 26	
Special Police	1,975 05	
Matrons	989 20	
Other Employees	5,050 50	
	<hr/>	
Carried forward	187,717 01	

	Expenses	Outlays
Brought forward	187,717 01	
Equipment and Repairs:—		
Motor cycle and auto main- tenance	2,443 61	
New equipment	1 50	
Equipment for men	452 03	
All other	12 25	
Other Expenses:—		
Books, printing, postage and supplies	371 08	
Care of prisoners	112 83	
Telephone	373 52	
Laundry	51 92	
Travel and disbursements	234 65	
Reimbursement for injuries, etc.	98 50	
Convention Expenses	60 00	
All other	51 67	
Special Items:—		
Auto	1,205 00	
	<hr/>	193,185 57
Public Buildings Department, Maintenance Police Buildings		
Salaries and Wages:—		
Janitors	1,961 19	
Labor	246 90	
Maintenance of Buildings:—		
Fuel and light	1,897 25	
Janitors supplies	111 99	
Furniture and furnishings	103 85	
Repairs to buildings	491 35	
Heating apparatus and equipment	1,118 82	
Plumbing and supplies	52 06	
Hardware and materials	70 46	
Ice	37 71	
All other	51 47	
Special Item:—		
Exterminating ants	215 00	
	<hr/>	6,358 05
Fire Department		
Salaries and Wages:—		
Chief Engineer	3,000 00	
Assistant Engineers	2,500 00	
Firemen	207,886 75	
Horses and care of same:—		
Hay, grain and straw.	917 11	
Shoeing.	492 35	
Medicine and veterinary	34 03	
Carried forward	<hr/> 214,830 24	

	Expenses	Outlays
Brought forward	214,830 24	
Harnesses, clothing and horses	18 00	
All other	16 50	
Equipment and Repairs:—		
Apparatus and equipment	2,330 37	
Hose	2,823 88	
Equipment for men	301 96	
Power	9 69	
Hardware, tools, etc.	249 42	
Other expenses:—		
Books, printing, postage and supplies	17 45	
Telephone	584 05	
Janitors supplies	331 87	
Furnishings	13 21	
Laundry work	464 42	
Ice	100 46	
All other	32 64	
Supplies:—		
Grease and oil	377 11	
Gasoline	1,260 85	
Soda and acid	198 74	
All other	175 56	
Special Items:—		
Auto for chief	1,855 63	
Auto for Deputy Chief	1,423 00	
P. L. Lowell claim	2,450 00	
	<hr/>	229,865 05
Public Building Department, Maintenance Fire Buildings		
Salaries and Wages:—		
Labor	1,246 16	
Other Expenses:—		
Fuel and light	7,915 87	
Furniture and furnishings	395 66	
Janitors' supplies	48 34	
Repairs to buildings	2,521 98	
Heating apparatus and equipment	1,870 83	
Plumbing supplies	736 09	
Hardware and materials	597 73	
All other	73 88	
Special Item:—		
Removing bell	290 00	
	<hr/>	15,696 54

	Expenses	Outlays
Weights and Measures		
Salaries and Wages:—		
Sealer	1,800 00	
Other Expenses:—		
Books, stationery and post- age	21 05	
Printing and advertising	22 25	
Equipment and supplies	90 40	
Telephone	32 86	
Auto maintenance	216 42	
All other	30 91	
Special Item:—		
New auto	377 00	
	<hr/>	2,590 89
Electrical Department		
Salaries and Wages:—		
Commissioner	2,600 00	
Clerk	988 00	
Labor	12,164 25	
Other Expenses:—		
Fire Alarm System	1,505 09	
Police Signal System	279 21	
Auto maintenance	989 80	
Equipment and repairs	19 00	
Telephone	128 21	
Books, printing, postage and supplies	177 23	
All other	64 73	
	<hr/>	18,915 52
Public Buildings Department, Maintenance		
Electrical Department Bldgs.		
Janitor	880 00	
Fuel	208 12	
Light	139 68	
Furniture and furnishings	134 44	
Hardware and materials	4 25	
Plumbing	12 10	
Janitors supplies	9 07	
	<hr/>	1,387 66
Underground Construction		
Cable	446 48	
Express	11 50	
	<hr/>	

	Expenses	Outlays
Highways, Suppression of Moths		
Labor	3,600 51	
Books, printing, postage	49 25	
Hired teams and trucks	146 35	
Hardware, tools and equip- ment	181 65	
Insecticides	144 46	
Other materials and supplies	65 97	
All other	35	
	4,188 54	
Highway Department, Care of Trees		
Labor	4,371 46	
Teams and trucks	626 17	
Equipment and tools	44 68	
Lumber and materials	227 70	
Use of steam roller	42 00	
	5,312 01	

HEALTH AND SANITATION

	Expenses	Outlays
Health Department		
General Administration:—		
Agent	\$1,600 00	
Clerks	2,788 00	
Medical Inspector and Bac- teriologist	2,500 00	
Health Nurses	3,213 64	
Books, printing, and post- age	399 55	
Carfares, etc.	235 62	
Telephone	321 25	
All other	46 75	
Quarantine and Contagious Diseases:—		
Board and Treatment:—		
Cities and Towns	1,009 45	
Other Institutions	134 25	
Tuberculosis:—		
Board and Treatment:		
Cities and towns	4,222 32	
State	3,075 00	
Other Institutions	961 16	
Groceries and provisions	855 27	
All other	12 25	
	21,374 51	
Carried forward		

		Expenses	Outlays
Brought forward	21,374 51		
Other Expenses:.			
Equipment and supplies	197 65		
Auto maintenance	619 06		
Burying dead animals	84 25		
All other	5 19		
Special Items:—			
New Ambulance	2,200 00		
	<hr/>	24,480 66	

City Clerk's Department, Vital Statistics

Canvassing and reporting			
births	752 40		
Reporting deaths	51 00		
Printing and advertising	127 50		
	<hr/>	930 90	

Contagious Hospital

Salaries and Wages:—

Matron	1,119 36
Medical attendance	90 00
Nurses and other help	7,958 96

Other Expenses:—

Drugs and medicines	62 72	
Bedding, dry goods and clothing	308 60	
Groceries and provisions	5,071 52	
Equipment and supplies	1,344 11	
Telephone	82 22	
Electric power	105 18	
All other	61 33	
	<hr/>	16,204 00

Public Buildings Department, Maintenance Contagious Hospital

Salaries and Wages:—

Janitor and labor	559 30
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Other Expenses:—

Fuel	1,599 78	
Light	428 38	
Janitors' supplies	49 00	
Furniture and furnishings	111 35	
Repairs to buildings	281 80	
Heating apparatus and equipment	84 28	
Plumbing and supplies	85 81	
Hardware and materials	218 32	
All other	29 84	
	<hr/>	3,447 86

	Expenses	Outlays
Inspection of Animals and Provisions		
Salaries and Wages:—		
Inspector	2,100 00	
Other Expenses:—		
Telephone	30 05	
Auto maintenance	100 00	
Printing, Stationery and Postage	3 00	
	<hr/>	
		2,233 05
 Inspection of Milk and Vinegar		
Salaries and Wages:—		
Inspector	2,500 00	
Milk Collector	1,500 00	
Other Expenses:—		
Books, printing and postage	67 60	
Auto maintenance	602 81	
Equipment and supplies	189 61	
Telephone	29 29	
Convention Expenses	150 00	
Travel	120 20	
All other	23 40	
	<hr/>	
		5,182 91
 Inspection of School Children		
Salaries and Wages:—		
Inspectors	1,600 00	
Other Expenses:—		
Books, printing, postage and supplies	31 00	
Carfares	107 30	
	<hr/>	
		1,738 30
 School Nurses' Salaries		
Salaries and Wages:—		
Nurses	2,100 00	
	<hr/>	
		2,100 00
 Sewers Construction		
Salaries and Wages:—		
Inspector	382 42	
Labor	1,027 08	
Other Expenses:—		
Teaming	396 78	
Pipe and fittings	1,651 05	
Brick and cement	941 46	
Sand	29 00	
Other materials	13 05	
Castings	343 60	
Contract Work	9,468 91	
All other	32 74	
	<hr/>	
		14,286 09

	Expenses	Outlays
Engineering Department, Sewers Maintenance		
Salaries and Wages:—		
Inspector	790 80	
Labor	11,983 97	
Other Expenses:—		
Teaming	10,269 32	
Tools and equipment	316 87	
Pipe and Fittings	13 89	
Brick and Cement	6 20	
Castings	18 45	
Cleaning Catch Basins	164 07	
Other materials and supplies	77 73	
Care of Medford St. Pump	102 65	
Telephone	74 89	
All other	3 05	
	<hr/>	
	23,821 89	
Less service transfers for		
Pipe, brick	67 70	
	<hr/>	
		23,754 19
 Public Buildings Department Maintenance Sewer Buildings		
Salaries and Wages:—		
Labor	133 33	
Other Expenses:—		
Fuel	45 55	
Light	51 53	
Repairs to buildings	264 22	
Lumber and materials	73 13	
Plumbing	12 30	
All other	2 25	
	<hr/>	
		582 31
 Sanitary Department		
General Administration:—		
Superintendent	2,300 00	
Bookkeeper	300 00	
Printing and stationery	4 00	
Telephone	56 54	
Auto maintenance	795 19	
All other	3 64	
 Ashes, Rubbish and Garbage:—		
Labor	84,067 36	
Hired teams and trucks	58,476 55	
Equipment and repairs	688 16	
Rent of dump	1,620 00	
Materials and supplies	61 74	
Contract Work	16,500 00	
	<hr/>	
Carried forward	164,873 18	

	Expenses	Outlays
Brought forward	164,873 18	
Stable Expenses:—		
Hay, Grain and Straw	2,723 62	
Shoeing	160 31	
Veterinary and medicine	307 87	
Stable equipment	242 37	
Horses	828 00	
Special Item:—		
New Auto	775 00	
	<hr/>	
		169,910 35
Public Building Department, Maintenance		
Sanitary Buildings		
Labor	152 09	
Fuel	88 20	
Light	187 96	
Lumber and Materials	176 94	
Plumbing supplies	8 65	
Repairs to buildings	26 51	
Furniture and furnishings	4 80	
All other	1 31	
	<hr/>	
		646 46
Highways, Street Cleaning		
Labor	20,804 57	
Hired Teams and Trucks	4,424 97	
Equipment	249 81	
	<hr/>	
		25,479 35
Highway Maintenance		
General Administration:—		
Superintendent	3,100 00	
Bookkeeper and Clerk	2,769 00	
Books, printing, postage and supplies	177 20	
Telephone	247 36	
Maintenance, Superintendents' auto	337 55	
All other	14 00	
General:		
Labor	49,003 63	
Trucks	28 75	
Tools, equipment and repairs	1,417 64	
Autos and supplies	2,781 13	
Broken stone, gravel, etc.	3,082 66	
Edgestones, bricks and cement	1,819 46	
Lumber	209 46	
Tarvia and road oil	2,598 26	
	<hr/>	
Carried forward	67,586 10	

	Expenses	Outlays
Brought forward	67,586 10	
Fuel	642 81	
Oil and Waste	561 20	
Steam rollers	74 19	
Hardware, paint and varnish	469 57	
Other materials and supplies	274 37	
Horses	5 00	
Hay, grain and straw	7,185 41	
Shoeing	402 73	
Veterinary and medicine	109 65	
Harnesses and horse clothing	528 39	
All other	33 21	
Other Expenses:—		
Signs	429 03	
Repairs to Lowell Street Bridge	4,645 60	
All other	2 70	
Special Item:—		
Taxes, City of Waltham	587 93	
	<u>83,537 89</u>	
Less service transfers for teaming, and use of rollers and horses	15,508 49	
	<u>68,029 40</u>	
 Highways Construction, New Streets		
Labor	100 84	
Contracts	11,254 66	
Tarvia	591 28	
Advertising, Recording, etc.	69 25	
Edgestones and circles	3,243 61	
Other materials	429 84	
Hired teams and trucks	31 03	
All other	6 00	
	<u>15,726 51</u>	
 Highways Construction, Permanent Pavement		
Labor	1,171 32	
Contracts	56,790 31	
Crushed stone, brick and cement	580 11	
Other materials	106 38	
Hired teams and trucks	98 54	
Use of mixer and roller	21 00	
All other	7 50	
Special Item:—		
Relocating Hydrants	246 44	
	<u>59,021 60</u>	

	Expenses	Outlays
Highway Reconstruction and Resurfacing		
Labor	6,183 05	
Hired teams and trucks	977 78	
Use of roller	901 00	
Tools and equipment	217 68	
Road Binders	7,748 14	
Tarvia	1,792 81	
Brick, stone and cement	10,715 07	
Other materials	120 59	
Special Item:—		
Washington Street Bridge Settlement	1,500 00	
	<hr/>	30,156 12
 Sidewalks Construction		
Labor	8,892 30	
Hired teams and trucks	1,316 24	
Stone, brick and cement	3,421 15	
Edgestone	269 20	
Mixer	212 25	
Other materials	1,006 95	
Equipment	256 76	
All other	4 50	
	<hr/>	15,379 35
 Sidewalks Maintenance		
Labor	6,104 08	
Hired teams and trucks	903 36	
Use of mixer	13 50	
Stone, brick and cement	1,313 84	
Equipment	12 60	
Other materials and supplies	355 10	
All other	1 75	
	<hr/>	8,704 23
 Street Sprinkling		
Labor	5,954 49	
Hired teams and trucks	2,946 53	
Equipment and repairs	836 19	
Oil and other dust layers	13,520 74	
Maintenance water post and hydrants	185 56	
Use car sprinkler	6,320 83	
Use roller	47 25	
Gravel	2,006 84	
Hardware and materials	1,466 44	
All other	93 48	
Special Item:—		
Auto Chassis	555 00	
Tractor	687 50	
	<hr/>	34,620 85

Expenses

Outlays

Street Lighting

Contract:—

Electricity	76,071 66
Spot lights	61 11
Relocating lights	159 47
Memorial Tablets	73 11
All other	1 20

 76,366 55

**Public Buildings Department, Maintenance
Highway Buildings**

Labor	233 61
Fuel	703 42
Light	221 57
Hardware and materials	23 06
Lumber	277 04
Plumbing supplies	42 69
Furniture and furnishings	3 00
Repairs to buildings	305 11
Heating apparatus and equip- ment	12 70
All other	1 85

 1,824 05
CHARITIES**Poor Department, Miscellaneous**

General Administration:—

Agent	2,200 00
Clerks	2,266 75
Books, printing, postage and supplies	76 46
Telephone	125 74
Conference Expenses	19 00
All other	125 33

Outside Relief:—

City Physician	2,200 00
Auto Maintenance	150 00
Board and care	2,720 14
Cash	20,558 38
Cash Allowance	621 24
Groceries and provisions	2,504 24
Coal and wood	1,182 63
Dry goods and clothing	10 16
Medicine and medical at- tendance	214 46
Nursing	45 00
State Institutions	3,420 80
Contagious Hospital	21 00

 Carried forward 38,461 33

		Expenses	Outlays
Brought forward	38,461	33	
Somerville Hospital	6,643	00	
Other Institutions	963	86	
Burials	259	40	
Relief by Other Cities and Towns:—			
Cities	3,940	86	
Towns	231	37	
Mothers' Aid:—			
By city	37,266	00	
Other cities and towns	7,366	98	
			95,132 80

Poor Department, City Home

Salaries and Wages:—

Warden and Matron	2,100	00
Bookkeeper	125	00
Domestic labor	2,429	83
Farm labor	2,334	80

Other Expenses:—

Auto maintenance	97	50
Groceries and provisions	3,366	64
Clothing	302	60
Medicine and hospital goods	42	40
Household furnishing and supplies	326	25
Farm equipment and supplies	440	85
Live stock and care	342	45
Garbage	19	25
Hay, grain and feed	971	76
Horse shoeing	51	50
Harnesses and horse clothing	24	50
Seeds and fertilizer	97	68
Books, printing, stationery postage	28	57
Telephone	76	66
Power	50	91
Ice	117	56
Disinfectant and sprayer	4	50
All other	220	86

13,572 07

Public Building Department, City Home Buildings

Labor	490	19
Fuel	1,933	99
Light	696	43
Carried forward	3,120	61

		Expenses	Outlays
Brought forward	3,120 61		
Furniture and furnishings	400 77		
Repairs to buildings	118 94		
Plumbing and supplies	133 55		
Heating apparatus equipment and repairs	70 39		
Hardware and materials	227 84		
All other	7 45		
Special Item:—			
Wire fence	234 95		
	<hr/>	4,314 50	

SOLDIERS' BENEFITS

Soldiers' Benefits, General Administration

Salaries and Wages:—

Agent	300 00
Clerk	988 00
Other Expenses	44 63

 1,332 63

Soldiers' Relief

Cash as per pay rolls	31,595 00
All other	13 29

 31,608 29

Military Aid

Cash as per payrolls	4,412 00
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 4,412 00

State Aid

Cash as per pay rolls	8,262 00
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 8,262 00

Soldiers' Burials

Burials	51 67
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 51 67

EDUCATION

School Contingent

Salaries and Wages:—

Superintendent	5,000 00
Clerks	6,742 66
Truant Officers	1,800 00
Other employees	332 88

General Expenses:—

Stationery, postage and office supplies	671 62
Telephones	1,115 97
Automobile maintenance	444 59
Travel	389 96
All other	180 56

 Carried forward 16,678 24

		Expenses	Outlays
Brought forward	16,678 24		
Textbooks and Supplies:—			
Text and reference books and music	11,869 02		
Maps	52 86		
Stationery and supplies	16,443 42		
Equipment and repairs	2,415 32		
Other Expenses:—			
Tuition	1,959 50		
Support of Truants	863 42		
Diplomas and graduation	871 81		
Printing and advertising	1,355 81		
Catering	149 50		
Power	786 09		
Binding	1,106 61		
All other	73 06		
Typewriters	1,900 63		
		56,525 29	
School Teachers' Salaries			
Day Schools	726,843 91		
Evening Schools	8,175 65		
		735,019 56	
Public Building Department, Maintenance School Buildings, Janitors' Salaries			
Janitors' Salaries	58,143 59		
		58,143 59	
Maintenance School Buildings, Fuel and Light			
Labor	38 00		
Fuel	39,839 15		
Light	10,077 77		
		49,954 92	
Maintenance School Buildings, Buildings and Grounds			
Labor	9,168 46		
Furniture and furnishings	6,752 39		
Janitors' Supplies	2,532 76		
Laundry	68 75		
Repairs to buildings	14,127 18		
Heating apparatus and equip- ment	7,953 56		
Plumbing	4,954 25		
Glass, hardware and paint	2,582 05		
Lumber	1,570 90		
Other materials and supplies	3,353 50		
Care of Grounds	4,127 95		
Flags and Flag poles	263 68		
Carried forward	57,455 43		

Expenses Outlays

Brought forward	57,455 43
Auto maintenance	403 14
Power	267 19
Teaming	922 33
Telephone	51 25
All other	387 67

59,487 01

Addition Western Junior High School

Construction Contract	75,346 67
Heating Contract	15,192 05
Electrical Contract	2,973 99
Plumbing Contract	6,069 00
Architects Fees	7,050 64
Advertising	13 25
All other	68 30

106,713 90

Addition Southern Junior High School

Construction Contract	61,549 67
Advertising	13 25
Architect Fees	4,988 77
Insurance	280 00
Labor	100 27
All other	91 00

67,022 96

Northern-Eastern Junior High School

Construction Contract	51,510 00
Heating Contract	989 70
Electrical Contract	1,428 00
Plumbing Contract	1 615 00
Architects Fees	15,407 10
Purchase of Land	49,204 67
Taxes	1,418 88
Clerical hire	1,058 39
All other	173 56

122,805 30

SCHOOL TRUST FUNDS

S. Newton Cutler Fund

Books	405 98	405 98
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Smith-Hughes Fund

School Teachers' Salaries	2,678 18	2,678 18
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Caroline G. Baker Fund

Christmas celebrations	10 13	10 13
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Expenses

Outlays

LIBRARIES

Central Library

Salaries and Wages:—

Librarian	3,000 00
Assistants	17,534 05

Other Expenses:—

Books	5,628 35
Periodicals	672 15
Music	113 04
Binding	1,485 81
Postage and office supplies	781 39
Printing and advertising	632 35
Telephone	179 52
Catalogue cards	246 15
Express	147 73
Convention expenses	52 62
All other	264 75

 30,737 91

Public Building Department. Central Library

Janitors	3,068 00
Labor	26 48
Fuel	1,162 60
Light	1,177 59
Furniture and furnishings	91 42
Janitors' supplies	90 05
Repairs to buildings	246 66
Hardware and materials	73 16
All other	16 08

 5,952 04

West Somerville Branch Library

Salaries and Wages:—

Assistants	5,630 11
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Other Expenses:—

Books	1,014 51
Periodicals	329 12
Music	54 15
Binding	519 38
Postage and office supplies	111 21
Printing and advertising	43 85
Telephone	37 24
Express	206 09
All other	9 23

 7,954 89

Expenses

Outlays

Public Building Department, Maintenance
West Somerville Branch Library

Janitor	1,352 00
Labor	71 35
Fuel	519 31
Light	397 81
Repairs to buildings and plumbing	53 95
Furniture and furnishings	13 30
Hardware and materials	90
All other	59 47

 2,468 09

East Somerville Branch Library

Salaries and Wages:—

Assistants	3,503 29
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Other Expenses:—

Books	983 25
Periodicals	139 85
Music	44 27
Binding	318 51
Postage and office supplies	98 68
Printing and advertising	7 35
Telephone	33 96
Express	205 74

 5,334 90

Public Buildings Department, Maintenance
East Somerville Branch Library

Janitor	1,101 00
Labor	22 80
Fuel	155 38
Light	205 07
Janitors' Supplies	75
Furniture and furnishings	3 13
Hardware and materials	19 27
Repairs to buildings and plumbing	4 45
All other	2 75

 1,514 60

Union Square Branch Library

Salaries and Wages:—

Assistants	3,958 14
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Other Expenses:—

Books	1,232 24
Periodicals	143 20
Music	2 34
Binding	372 01

 Carried forward 5,707 93

		Expenses	Outlays
Brought forward	5,707 93		
Postage and office supplies	90 15		
Printing and advertising	14 35		
Telephone	37 84		
Express	205 06		
All other	44 58		
	<hr/>	6,099 91	
Public Building Department, Maintenance			
Union Square Branch Library			
Janitor	1,122 48		
Labor	91 80		
Fuel	445 52		
Light	290 43		
Janitors' Supplies	14 10		
Furniture and furnishings	2 90		
Heating apparatus and equip- ment	54 19		
Plumbing and repairs to build- ing	30 75		
Hardware and materials	54 46		
All other	15 85		
	<hr/>	2,122 48	

PUBLIC LIBRARY TRUST FUNDS

		Expenses	Outlays
S. Newton Cutler Fund			
Books	69 83		
	<hr/>	69 93	
Martha R. Hunt Art Fund			
Books and pictures	111 73		
All other	45 50		
	<hr/>	157 23	
Martha R. Hunt Book Fund			
Books	574 17		
	<hr/>	574 17	
Isaac Pitman Art Fund			
Books	111 10		
Pictures	114 00		
All other	9 00		
	<hr/>	234 10	
Isaac Pitman Poetry Fund			
Books	89 73		
	<hr/>	89 73	
Wilders Childrens' Fund			
Books	11 69		
	<hr/>	11 69	

Expenses Outlays

Engineering Department, Parks Maintenance

Labor	7,924 45
Teaming	789 87
Tools and equipment	167 43
Materials and supplies	860 39
Trees, shrubs and plants	702 55
Loam	11 00
Repairs	237 14
Flags and flag poles	87 91
Care of bubblers and fountains	365 91
All other	5 65
Special Item:—	
Power Lawn Mower	230 85

 11,383 15
**Public Buildings Department, Maintenance
Park Buildings**

Labor	467 38
Fuel	175 50
Light	551 29
Repairs to buildings	1 60
Plumbing	49 95
Hardware and materials	30 80
Laundry and janitors' supplies	232 34
All other	1 70

 1,510 56
**Engineering Department, Playgrounds
Maintenance**

Labor	4,190 05
Teaming	886 14
Tools and equipment	194 25
Materials and supplies	373 39
Repairs to fountains, fences, etc.	172 56
All other	1 03

Special Item:—

Fence Kent Street Playground	338 30
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 6,155 72
**Public Welfare and Recreation Commission
Salaries and Wages:—**

Supervisors	1,382 52
Instructors	1,640 00
Other Helpers	264 75

 Carried forward 3,287 27

		Expenses	Outlays
Brought forward	3,287 27		
Other Expenses:—			
Equipment and supplies	342 03		
Plowing, harrowing, etc.	102 50		
Teaming	197 00		
Use of auto	295 15		
Civic social centre	164 59		
All other	273 54		
	<hr/>	4,662 08	

**Public Building Department, Maintenance
Bathhouse**

Salaries and Wages:—

Attendants	908 54
Labor	199 08

Other Expenses:—

Bathing Suits	191 06
Towels	33 30
Repairs to buildings	29 67
Equipment and supplies	274 83
Sand	524 61
Telephone	32 03
Laundry	206 85
Hardware and materials	96 77
All other	34 75
	<hr/>

2,531 49

Celebrations

Printing and postage	88 28
Music	1,916 30
Decorating	802 60
Fire Works	3,050 00
Expenses for Troops	100 00
Equipment and Supplies	1,007 60
Special cars and Trains	675 66
Refreshments	1,194 75
Horses	333 50
Light	63 86
All other	230 75
	<hr/>

9,463 30

Field House—Richard Trum Playground

Blueprints	1 43
	<hr/>

1 43

Field House—Dilboy Field

Blueprints	63
	<hr/>

63

UNCLASSIFIED

		Expenses	Outlays
Memorial Day			
Music and Catering	264	53	
Flowers and Flags	142	80	
All other	72	73	
Special Item:—			
Grave Markers	264	23	
			744 29
Public Building Department, Maintenance Bandstand			
Labor	204	60	
Teaming	87	00	
Hardware and Materials	121	27	
			412 87
Rifle Practice Cos. A and B, First Engineers			
Use of range	273	00	
Transportation	241	20	
			514 20
Municipal Documents			
Printing	2,047	99	
All other	35	70	
			2,083 69
Quarters for American Legion			
Rent	572	00	
			572 00
Workmen's Compensation			
Compensations for Injuries	3,910	63	
Medical attendance	300	50	
Books, postage, supplies	1	50	
			4,212 63
Pensions			
Janitors	1,943	32	
Police	9,182	74	
Fire	4,747	95	
Weights and Measures	812	50	
Health	750	00	
Poor	850	00	
Laborers:—			
Engineers'	414	00	
Highway	10,032	84	
Sanitary	7,654	80	
Water	2,479	41	
			38,867 56
Damage to Persons and Personal Property			
Settlement of claims	14,278	59	
			14,278 59

MUNICIPAL INDEBTEDNESS

	Expenses	Outlays
Municipal Indebtedness Interest		
Temporary Loans:—		
Anticipation of Revenue	42,377 06	
General Loans:—		
Sewer	7,963 75	
Highway	11,050 00	
Municipal	675 00	
City	9,257 50	
Bridge	962 50	
Metropolitan Park	280 00	
Public Buildings	9,330 00	
Emergency	212 50	
School House	4,208 33	
	<hr/>	
		86,316 64
Reduction of Funded Debt		
General Loans:—		
Sewer	23,000 00	
Highway	60,000 00	
Municipal	8,000 00	
City	52,500 00	
Bridge	1,000 00	
Metropolitan Park	1,000 00	
Public Buildings	19,000 00	
Emergency	5,000 00	
	<hr/>	
		169,500 00

WATER WORKS

Water Maintenance	
Administration	
Commissioner	3,100 00
Clerks	7,256 52
Books, printing, postage and supplies	1,682 78
Telephone	298 21
All other	110 01
General:—	
Labor	42,033 90
Teams	15 75
Pipe and fittings	4,354 36
Meters and fittings	3,259 92
Hydrants and fittings	257 57
Tools	2,589 00
Autos, trucks and supplies	4,700 64
Horses and equipment	249 57
Power	32 21
Miscellaneous supplies	256 71
	<hr/>
Carried forward	70,197 15

		Expenses	Outlays
Brought forward	70,197 15		
Street Repairs	139 38		
Fountains	110 29		
All other	62 60		
Special Items:—			
New Trucks	1,225 00		
High Service Survey	1,527 00		
Low Service Survey	1,500 00		
	<u>\$74,761 42</u>		
Less Service Transfers for			
Teams	753 74		
	<u>753 74</u>	74,007 68	

Water Works Extension

Labor	10,605 20		
Hired teams and trucks	653 75		
Pipe and fittings	16,302 24		
Meters and fittings	2,277 70		
Hydrants and fittings	946 04		
Tools and equipment	1,754 99		
	<u>1,754 99</u>	32,539 92	

**Public Building Department, Maintenance
Water Buildings**

Labor	48 70		
Fuel	811 70		
Light	318 84		
Lumber and Materials	51 51		
Repairs to buildings	62 78		
Plumbing	6 91		
Janitors Supplies	22 50		
Furniture and furnishings	1 20		
All other	70		
	<u>70</u>	1,324 84	

Metropolitan Water Assessment

Assessment	\$128,207 84		
	<u>\$128,207 84</u>	128,207 84	

OTHER ACCOUNTS**Temporary Loans**

Loans in anticipation of revenue	\$1,843,000 00		
	<u>\$1,843,000 00</u>	1,843,000 00	

Tax Titles

Taxes 1921	750 84		
Title purchased	12 00		
	<u>762 84</u>	762 84	

		Expenses	Outlays
Real Estate Liens			
Taxes 1921 on property taken by the city	15 55		
	<u>15 55</u>	15 55	
State Taxes			
State	194,520 00		
Non-Resident Bank	4,025 76		
	<u>198,545 76</u>	198,545 76	
Poll Taxes	70,119 00		
	<u>70,119 00</u>	70,119 00	
Metropolitan and Other Assessments			
Metropolitan Park	61,386 67		
Metropolitan Sewer	95,065 14		
Wellington Bridge	3,352 75		
Charles River Basin	8,923 72		
Alewife Brook	1,083 37		
Abatement of Smoke	403 74		
Prevention of Fire	1,066 06		
Grade Crossings	4,678 49		
State Highway	396 46		
Soldiers' Exemption	286 84		
	<u>176,643 24</u>	176,643 24	
County of Middlesex			
County Tax 1922	123,565 67		
	<u>123,565 67</u>	123,565 67	
Cash Refunds			
Taxes	659 54		
Street Sprinkling	31 26		
Water	96 89		
Other	91 24		
Tellers' Overs and Shorts			
Cash Shortage	179 99		
	<u>179 99</u>	179 99	
Commonwealth of Massachusetts			
Liquor License Fees	9 00		
	<u>9 00</u>	9 00	

PRIVATE TRUST

Redemption of Tax Titles			
Tax Titles Redeemed	2,875 79		
	<u>2,875 79</u>	2,875 79	
Totals		\$5,254,380 47	\$431,571 87
*Refunds		21,685 49	15,174 00
		<u>\$5,276,065 96</u>	<u>\$446,745 87</u>
Total Cash Payments			\$5,722,811 83

*Expenditures as shown in all accounts are net

SCHEDULE OF PUBLIC PROPERTY

School Buildings	Land and Buildings	Personal	Totals
Prescott	\$72,200 00	\$3,000 00	\$75,200 00
East Somerville Junior High	62,000 00	2,000 00	64,000 00
Hanscom	66,500 00	4,000 00	70,500 00
Davis	53,500 00	17,500 00	71,000 00
Clark Bennett	54,500 00	3,500 00	58,000 00
Knapp	53,000 00	5,500 00	58,500 00
Baxter	39,200 00	1,500 00	40,700 00
Perry	52,000 00	1,500 00	53,500 00
Bell and Southern Junior High	137,000 00	10,000 00	147,000 00
Prospect Hill	18,000 00	2,000 00	20,000 00
Pope	83,600 00	5,000 00	88,600 00
Cummings	18,400 00	1,500 00	19,900 00
Edgerly	43,000 00	5,000 00	48,000 00
* High	396,000 00	30,000 00	426,000 00
Glines	96,400 00	5,000 00	101,400 00
Forster	64,000 00	8,000 00	112,000 00
Forster (Annex)	40,000 00	.....	.....
† Proctor	44,000 00	.....	44,000 00
Bingham	77,000 00	5,000 00	82,000 00
Morse	54,000 00	5,000 00	59,000 00
Carr	58,600 00	5,500 00	68,100 00
Girls' Industrial School	4,000 00	.....	.....
Durell	21,400 00	1,500 00	22,900 00
Burns	44,000 00	3,000 00	47,000 00
Brown	78,000 00	2,600 00	80,600 00
Highland	66,600 00	5,000 00	71,600 00
Lowe	51,000 00	2,000 00	53,000 00
Hodgkins	98,700 00	5,000 00	103,700 00
x West Somerville-Junior High	80,000 00	4,000 00	84,000 00
Lincoln	20,000 00	1,000 00	21,000 00
Cutler	98,800 00	10,000 00	108,800 00
‡ North'n East'n Junior High	22,700 00	.....	22,700 00
Total	\$2,168,100 00	\$154,600 00	\$2,322,700 00

* Land included in Central Hill Park.

† Building and fixtures. Land owned by State.

x Land included in Holland Street Ledge.

‡ Land only.

School Buildings	Land and Buildings	Personal	Totals
Fire Buildings			
New Fire alarm building	\$27,500 00	* \$40,000 00	\$115,200 00
Central	47,700 00	.....	.....
Engine Two	37,000 00	22,000 00	59,000 00
Engine Six	29,500 00	25,000 00	54,500 00
Hose Five	23,500 00	8,000 00	31,500 00
Ladder One	60,000 00	15,500 00	75,500 00
Hose Eight	11,200 00	.....	11,200 00
Ladder Two	19,700 00	15,000 00	34,700 00
Engine Four	19,500 00	7,000 00	26,500 00
Total	\$275,600 00	\$132,500 00	\$408,100 00

* Includes Electrical Department equipment.

Libraries			
* Central	137,500 00	100,000 00	237,500 00
East Somerville Branch	22,000 00	2,400 00	24,400 00
West Somerville Branch	30,500 00	6,000 00	36,500 00
Total	\$190,000 00	\$108,400 00	\$298,400 00

Miscellaneous Buildings			
Highway (stables, etc.)	55,000 00	30,000 00	85,000 00
Sewer	6,700 00	500 00	7,200 00
Contagious and Tuberculosis			
Hospital	57,000 00	9,000 00	66,000 00
City Home	95,100 00	17,000 00	112,100 00
Police	70,500 00	8,000 00	78,500 00
* City Hall	57,200 00	149,000 00	206,200 00
* City Hall Annex	68,200 00	12,500 00	80,700 00
Parks:—			
Broadway	3,100 00	.....	3,100 00
Lincoln	3,000 00	.....	3,000 00
Bathhouse	5,000 00	.....	5,000 00
Polling Booths	1,800 00	.....	1,800 00
Sanitary	21,000 00	19,200 00	40,200 00
Water	49,000 00	6,500 00	55,500 00
Total	\$492,600 00	\$251,700 00	\$744,300 00

* Land included in Central Hill Park.

	Land and Buildings	Personal	Totals
Parks and Playgrounds			
Saxton C. Foss Park	\$421,200 00	.....	\$421,200 00
Central Hill	472,000 00	.....	472,000 00
Lincoln	84,500 00	3,500 00	88,000 00
Prospect Hill	69,800 00	1,500 00	71,300 00
Tufts	109,000 00	.....	109,000 00
Paul Revere	1,000 00	.....	1,000 00
Belmont Street	5,100 00	.....	5,100 00
Trum Playground	70,900 00	.....	70,900 00
Total	\$1,233,500 00	\$5,000 00	\$1,238,500 00

	\$1,233,500 00	\$5,000 00	\$1,238,500 00
Glen Street	17,300 00	.....	17,300 00
Kent Street	12,000 00	.....	12,000 00
Poplar Street	5,800 00	.....	5,800 00
Beacon Street	3,000 00	.....	3,000 00
Mason Street	4,200 00	.....	4,200 00
Dilboy Field	40,000 00	20,000 00	60,000 00
Total	\$1,315,800 00	\$25,000 00	\$1,340,800 00

Miscellaneous Land

Ledge, Holland Street	54,500 00	.....	54,500 00
Somerville Avenue	300 00	.....	300 00
Putnam	400 00	.....	400 00
Murdock Street	600 00	.....	600 00
Lowell Street	100 00	.....	100 00
Spencer Avenue	100 00	.....	100 00
Weston Avenue	2,100 00	.....	2,100 00
Endicott Avenue	600 00	.....	600 00
Powder House Boulevard	500 00	.....	500 00
Waltham Gravel Land	10,000 00	.....	10,000 00
Total	\$69,200 00	.....	\$69,200 00

SUMMARY

	Land and Buildings	Personal	Totals
School Buildings	2,168,100 00	154,600 00	2,322,700 00
Fire Buildings	275,600 00	132,500 00	408,100 00
Libraries	190,000 00	108,400 00	298,400 00
Miscellaneous Buildings	492,600 00	251,700 00	744,300 00
Parks and Playgrounds	1,315,800 00	25,000 00	1,340,800 00
Miscellaneous Land	69,200 00	.....	69,200 00
Total	\$4,511,300 00	\$672,200 00	\$5,183,500 00
Sewer (cost)			1,376,757 00
Water Works (cost)			1,127,746 65
Total value public property			\$7,688,003 65

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

Somerville, Mass.
January 19, 1923.

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

Gentlemen:—

I herewith present the annual report of the City Treasurer
and Collector of Taxes for the year 1922.

Respectfully submitted,

JOSEPH S. PIKE,
City Treasurer and Collector of Taxes.

CONDENSED CASH STATEMENT

Receipts		Payments	
Revenue . . .	\$5,429,284 99		\$5,278,689 16
Non-Revenue . .	643,049 79		444,122 67
	<u>\$6,072,334 78</u>		<u>\$5,722,811 83</u>
Cash Balance, Jan. 1, 1922	161,234 20	Cash Balance, Dec. 31, 1922	510,757 15
	<u>\$6,233,568 98</u>		<u>\$6,233,568 98</u>

DETAILED CASH STATEMENT

Receipts		
Balance from 1921		\$161,234 20
Revenue		
Taxes, 1918	\$23 20	
1919	33 80	
1920	387 41	
1921	438,447 62	
1922	2,409,023 15	
	<u>\$2,847,915 18</u>	
Excise Taxes, 1921	21 66	
1922	12 66	
	<u>34 32</u>	
Street Sprinkling, 1921	7,971 73	
1922	37,492 94	
	<u>45,464 67</u>	
Highway Assessments, 1920	219 22	
1921	3,554 93	
1922		
	<u>3,774 15</u>	
Sidewalk Assessments, 1920	1,143 67	
1921	5,057 32	
1922	3,071 40	
	<u>9,272 39</u>	
Sewer Assessments, 1921	1,488 35	
1922	1,090 61	
	<u>2,578 96</u>	
Metered Water Charges, 1921		26,272 24
Water: Sales, 1922	236,331 76	
Maintenance	4,547 24	
Service Assessments	9,674 58	
	<u>250,553 58</u>	
Departmental Deposits	11,381 57	
Departmental Accounts	90,332 23	
	<u>101,713 80</u>	
Comonwealth of Massachusetts:		
Corporation Taxes	73,991 85	
Bank Taxes	8,872 34	
Street Railway Taxes	24,477 35	
	<u>107,341 54</u>	
Carried forward	\$3,394,921 13	\$161,234 20

Brought forward		\$3,394,921 13	\$161,234 20
Income Taxes, 1919	438 25		
1920	3,067 75		
1921	18,406 50		
1922	120,196 40		
	<hr/>		142,108 90
For Schools:			
Vocational Schools	8,273 44		
Continuation Schools	4,011 34		
Americanization	3,581 50		
Commission for the Blind	600 00		
	<hr/>		16,466 28
Soldiers' Benefits		11,915 50	
In lieu of taxes		92 75	
Poll Taxes		16,995 00	
Boxing Licenses		19 84	
Boston Elevated deficit		21,712 43	
County of Middlesex:			
Dog licenses		2,053 71	
Courts, Police	5,376 96		
Probation officer	30 00		
County	114 00		
	<hr/>		5,520 96
Departmental Penalties:			
School Department		174 00	
Licenses and Permits		12,923 75	
Liquor, for Commonwealth		3 75	
Interest: on Taxes	14,902 86		
Assessments	195 46		
Tax Titles	2 33		
Departmental accts.	1 50		
Bank accts. Treasurer	11,885 23		
City Clerk	8 28		
	<hr/>		26,995 66
Treasury Department:			
Costs, Taxes	5,461 24		
Assessments	28 30		
Tax Titles	9 00		
Miscellaneous			
Tax Lien certificates	796 00		
Redemption certificates	16 00		
Collecting Bank-tax	40 22		
	<hr/>		6,350 76
Edison Electric Illuminating Company, electrolysis		500 00	
Sale of Fire Station, Marshall street (part payment)		1,500 00	
General Expenses, refunds		2,194 82	
Real Estate Liens		135 00	
Tax Titles		77 27	
Temporary Loans		1,758,000 00	
Trust Funds, Income:			
School: Cutler Fund	214 50		
Baker Fund	13 50		
Smith-Hughes Fund	2,459 34		
	<hr/>		
Carried forward		\$5,420,661 51	\$161,234 20

Brought forward		\$5,420,661 51	\$161,234 20
Library: Cutler Fund	42 88		
Hunt Art Fund	100 00		
Hunt Book Fund	495 29		
Pitman Art Fund	171 32		
Pitman Poetry Fund	42 82		
Wilder, Children's Fund	4 50		
Poor: Olive C. Cumming s.	75 05		
		<hr/>	
		3,619 20	
Premium on Bonds		2,397 50	
Accrued interest		2,402 78	
Excess and Deficiency		204 00	
		<hr/>	
		5,429,284 99	
 Non-Revenue			
Funded debt, Schoolhouse loan	575,000 00		
Highway loan	50,000 00		
Sale of buildings, Junior High school lot, Marshall street	5,095 00		
Boston Elevated Rail'y, Cross street	10,079 00		
Redemption of Tax Liens	2,875 79		
		<hr/>	
		643,049 79	
		<hr/>	
			6,072,334 78
			<hr/>
			\$6,233,568 98

PAYMENTS

Revenue

Taxes, 1917, refunds	\$6 00		
1918, refunds	2 00		
1919, refunds	2 00		
1920, refunds	153 32		
1921, refunds	104 64		
1922, refunds	391 58		
		<hr/>	
		\$ 659 54	
Taxes, Corporation, to Commonwealth of Massachusetts		64 62	
Street Sprinkling, 1922, refunds		31 26	
Water Charges, 1922, refunds	93 35		
Prior years	3 54		
		<hr/>	
		96 89	
Real estate Liens		15 55	
Tax Titles		762 84	
Revenue Loans		1,843,000 00	
Reduction of Funded Debt		169,500 00	
General Expenses		2,457,426 99	
Metropolitan Water Assessments		128,207 84	
Interest: Funded Debt	46,231 25		
Revenue Loans 1921	5,181 25		
Revenue Loans, 1922	37,195 81		
		<hr/>	
		88,608 31	
		<hr/>	
Carried forward			

Commonwealth of Massachusetts:

State Tax	194,520 00	
Assessments	176,356 40	
Soldiers' Exemption	286 84	
Bank Tax, Non-resident	4,025 76	
War Poll Tax, 1922	87,114 00	
Liquor licenses	3 75	
	<hr/>	462,306 75
County of Middlesex, county tax		123,565 67
Trust Funds:		
School: Cutler Fund	405 98	
Smith-Hughes Fund	2,678 18	
Baker Fund	10 13	
	<hr/>	3,094 29
Library: Cutler Fund	69 83	
Hunt Art Fund	157 23	
Hunt Book Fund	574 17	
Pitman Art Fund	234 10	
Pitman Poetry Fund	89 73	
Wilder Fund	11 69	
	<hr/>	1,136 75
Tellers' shorts and overs		179 99
Excess and Deficiency		31 87
		<hr/>
		5,278,689 16

Non-Revenue

Outlay Appropriations	441,246 88	
Redemption of Tax Titles	2,875 79	
	<hr/>	444,122 67
		5,722,811 83
Cash in office		5,337 55
Deposits in banks		505,419 60
		<hr/>
		510,757 15
		<hr/>
		<u>\$6,233,568 98</u>

BALANCES DECEMBER 31, 1922

Cash		\$510,757 15
Cash advances		200 00
Taxes, 1917	772 20	
1918	120 32	
1919	100 79	
1920	1,682 22	
1921	4,832 56	
1922	411,970 19	
1922, Excise	20 65	
	<hr/>	419,498 93
Carried forward		<hr/>
		\$930,456 08

Brought forward	\$930,456 08	
Street Sprinkling, 1922	7,546 42	
Overlay and abatement, 1917		766 20
1918		141 52
1919	111 29	
1920		1,007 13
1921		3,603 21
1922		15,203 55
		<hr/>
		20,721 61
Supplementary Assessments		528 66
Highway Assessments, 1921	864 37	
1922	7,361 02	
	<hr/>	
	8,225 39	
Sidewalk Assessments, 1921	1,012 07	
1922	3,341 05	
	<hr/>	
	4,353 12	
Sewer Assessments, 1921	92 72	
1922	6,469 13	
	<hr/>	
	6,561 85	
Metered Water Charges, 1922	33,666 39	
Commonwealth of Massachusetts, Benefits	10,519 67	
Grade Crossings	427 30	
Real Estate Liens	74 43	
Tax Titles	3,164 08	
Temporary Loans		500,000 00
Loans Authorized	300,000 00	
Funded Debt		1,459,000 00
Net Funded Debt	1,459,000 00	
Commonwealth of Massachusetts, poll taxes	2,704 00	
Sale of land and buildings on Marsrall street		1,500 00
Outlay Appropriations		626,367 28
Trust Funds:		
School: Cutler Fund		453 25
Smith-Hughes Fund		1,466 90
Caroline G. Baker		6 75
Library: Cutler Fund		48
Hunt Art Fund		32 01
Hunt Book Fund		76
Pitman Art Fund		52
Pitman Poetry Fund		4 97
Wilder Fund		4 29
Hunt Art Fund, Principal		202 77
Poor: Olive C. Cummings Fund		357 17
Premium on bonds		2,397 50
Accrued Interest		111 11
Sundry Persons		291 65
Excess and Deficiency		150,005 89
	<hr/>	<hr/>
Carried forward	\$2,766,810 02	\$2,763,453 57

Brought forward	\$2,766,810 02	\$2,763,453 57
Reserve Fund, Surplus from Overlay		3,356 45
Public Trust Funds		27,396 24
Public Trust Funds, Invest- ment	27,396 24	
	<u>\$2,794,206 26</u>	<u>\$2,794,206 26</u>

The assessors' warrant for the tax levy, assessed upon polls and property April 1, 1922, including non-resident bank shares, amounted to \$2,891,419.38, and the tax rate established was \$30.60 on each \$1,000 of valuation, as follows:

Real Estate	\$80,326,900 00	
Personal Estate	7,755,400 00	
Resident bank shares	75,839 27	
	<u>\$88,158,139 27</u>	
Total valuation		\$2,697,639 06
At a rate of \$30.60		144,555 00
Polls, 23,911 at \$5.00		
Non-resident bank shares to be paid to the state (val- uation \$131,560 73)		4,025 76
Street Sprinkling		45,199 56
		<u>\$2,891,419 38</u>
Additional Assessments:		
Personal estate, valuation \$8,400 at \$30.60	\$257 04	
127 polls at \$5.00	635 00	
Excise taxes	33.31	
		<u>925 35</u>
Total commitments by assessors		<u>\$2,892,344 73</u>

TAXES

	1917	1918	1919	1920	1921	1922	Excise 1921	Excise 1922	Total
Balance Dec. 31, 1921	772 20	143 52	572 17	2,917 34	449,077 38	.....	21 66	.....	453,504 27
Committed, 1922	.....	.....	.....	.....	.....	2,846,219 82	.....	.....	2,846,219 82
Supplementary, 1922	6 00	2 00	2 00	153 32	104 64	892 04	.....	33 31	925 35
Refunds	.....	.....	.....	.....	.....	391 58	.....	.....	659 54
Recharged	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Charges	778 20	145 52	574 17	3,070 66	449,182 02	2,847,503 44	21 66	33 31	3,301,308 98
Collected	.....	23 20	33 80	387 41	438,447 62	2,409,023 15	21 66	12 66	2,847,949 50
Abated	6 00	2 00	439 58	1,001 03	5,901 84	26,510 10	.....	.....	33,860 55
Total Credits	6 00	25 20	473 38	1,388 44	444,349 46	2,435,533 25	21 66	12 66	2,881,810 05
Balance Dec. 31, 1922	772 20	120 32	100 79	1,682 22	4,832 56	411,970 19	.....	20 65	419,498 93

STREET SPRINKLING ASSESSMENTS

	1921	1922	Total
Balance Dec. 31, 1921	7,986 55	.....	7,986 55
Committed, 1922 . . . . .	.....	45,199 56	45,199 56
Refunds . . . . .	.....	31 26	31 26
	<hr/>	<hr/>	<hr/>
Total charges	7,986 55	45,230 82	53,217 37
Collected	7,971 73	37,492 94	45,464 67
Abated	14 82	191 46	206 28
	<hr/>	<hr/>	<hr/>
Total credits	7,986 55	37,684 40	45,670 95
Balance Dec. 31, 1922 . . . . .	.....	7,546 42	7,546 42

OVERLAY AND ABATEMENT

	1917	1918	1919	1920	1921	1922	Total
Credit bal., Dec. 31, 1921	772 20	143 52	326 29	1,988 16	6,310 83		9,541 00
Assessed in taxes	.....	.....	.....	.....	.....	28,067 65	28,067 65
Charged to Commonwealth	.....	.....	.....	.....	3,070 00	13,559 00	16,629 00
Taxes recharged	.....	.....	.....	.....	.....	.....	.....
Total credits	772 20	143 52	326 29	1,988 16	9,380 83	41,626 65	54,237 65
Abatements	6 00	2 00	437 58	981 03	5,777 62	26,423 10	33,627 33
Total charges	6 00	2 00	437 58	981 03	5,777 62	26,423 10	33,627 33
Credit balance, Dec. 31, 1922	766 20	141 52	.....	1,007 13	3,603 21	15,203 55	20,721 61
Debit balance, Dec. 31, 1922	.....	.....	111 29	.....	.....	.....	111 29

RESERVE SUPPLEMENTARY ASSESSMENTS

Balance to credit, Dec. 31, 1921	.....	823 65	
Supplementary Assessments, 1922	.....	892 04	
Charged to Commonwealth	.....	199 00	
Total credits	.....	1,914 69	
Abatements	.....	233 22	
Transferred to Revenue	.....	771 81	
Credited to Commonwealth	.....	381 00	
Total charges	.....	1,386 03	
Balance, Dec. 31, 1922	.....	528 66	

BETTERMENT ASSESSMENTS

	Highway 1920	Highway 1921	Highway 1922	Sidewalk 1920	Sidewalk 1921	Sidewalk 1922	Sewer 1921	Sewer 1922	Total
Bal. Dec. 31, 1921	219 22	4,419 30	7,361 02	1,143 67	6,069 39	6,412 45	1,581 07	7,559 74	13,432 65
Committed, 1922									21,333 21
Total charges	219 22	4,419 30	7,361 02	1,143 67	6,069 39	6,412 45	1,581 07	7,559 74	34,765 86
Collected	219 22	3,554 93		1,143 67	5,057 32	3,071 40	1,488 35	1,090 61	15,625 50
Abated									
Total credits	219 22	3,554 93		1,143 67	5,057 32	3,071 40	1,488 35	1,090 61	15,625 50
Bal. Dec. 31, 1922		864 37	7,361 02		1,012 07	3,341 05	92 72	6,469 13	19,140 36

WATER DEPARTMENT ACCOUNTS

	Metered 1921	Metered 1922	Annual	Additional	Maintenance	Service Assessments	Total
Balance Dec. 31, 1921	26,283 99						26,283 99
Committed, 1922		241,859 36	28,121 25	1,241 06	4,991 15	9,674 58	285,887 40
Refunds		22 08	64 48	3 18	3 61		93 35
Total charges	26,283 99	241,881 44	28,185 73	1,244 24	4,994 76	9,674 58	312,264 74
Collected	26,272 54	207,594 72	27,643 75	1,093 29	4,547 24	9,674 58	276,826 12
Abated	11 45	620 33	541 98	150 95	447 52		1,772 23
Total credits	26,283 99	208,215 05	28,185 73	1,244 24	4,994 76	9,674 58	278,598 35
Balance to 1923		33,666 39					33,666 39

DEPARTMENTAL ACCOUNTS FOR COLLECTION AND DEPOSITS

	Balance Jan. 1, 1922	Committed	Abated	Collected	Balance Dec. 31, 1922	Deposits
Assessors . . . . .	.....	.....	.....	.....	.....	2 25
City Clerk . . . . .	.....	.....	.....	.....	.....	1,628 52
Engineering Department . . . . .	.....	.....	.....	.....	.....	19 59
Commissioner of Buildings . . . . .	.....	1,122 25	.....	1,100 00	22 25	5 90
Municipal Buildings . . . . .	.....	.....	.....	.....	.....	5 00
Police Department . . . . .	.....	490 62	.....	490 62	.....	180 64
Police Buildings . . . . .	.....	1,175 00	.....	1,175 00	.....	.....
Fire Department . . . . .	.....	100 00	.....	100 00	.....	116 00
Fire Buildings . . . . .	.....	.....	.....	.....	.....	50 00
Weights and Measures . . . . .	.....	.....	.....	.....	.....	649 89
Electrical Department . . . . .	.....	50 00	.....	50 00	.....	.....
Health Department	367 14	1,149 84	71	386 93	1,129 34	.....
Contagious Hospital	2,857 34	6,896 64	178 71	6,759 27	2,816 00	.....
Inspection of Milk and Vinegar	31 00	600 50	.....	628 50	3 00	26 60
Sanitary Department	21 00	4,089 04	.....	4,089 04	21 00	2,254 20
Sanitary Buildings . . . . .	.....	272 81	.....	272 81	.....	.....
Sewer Buildings . . . . .	.....	.....	.....	.....	.....	37 62
Highway Maintenance	118 34	9,417 30	8 69	9,432 46	94 49	.....
Highway Buildings . . . . .	.....	240 00	.....	240 00	.....	.....
Sidewalks Maintenance . . . . .	.....	85 15	.....	62 28	22 87	.....
New Sidewalks . . . . .	.....	246 24	.....	246 24	.....	.....
Street Sprinkling . . . . .	.....	12 00	.....	12 00	.....	.....
Poor, Misc. (Commonwealth)	9,886 19	31,187 56	600 83	30,655 38	9,817 54	.....
Poor, Miscellaneous	4,230 29	9,519 21	511 65	10,985 28	2,252 57	66 00
Poor, City Home	998 04	4,141 83	1,091 60	3,692 55	355 72	2,785 16
School Department	2,178 95	17,714 94	146 93	18,004 62	1,742 34	52 02
School Buildings	144 00	1,890 25	23 00	1,909 25	102 00	18 41
Libraries . . . . .	.....	.....	.....	.....	.....	2,348 57
Bathhouse . . . . .	.....	40 00	20 00	20 00	.....	678 60
Shower Baths . . . . .	.....	.....	.....	.....	.....	456 60
Park Buildings . . . . .	.....	20 00	.....	20 00	.....	.....
	<u>20,832 29</u>	<u>90,461 18</u>	<u>2,582 12</u>	<u>90,332 23</u>	<u>18,379 12</u>	<u>11,381 57</u>

REVENUE LOANS

In anticipation of Revenue

Balance from 1921						\$585,000 00
Borrowed by authority of an order of the Board of Aldermen on city notes, as follows:						
Nos. 991	63 days	@ 4.00 disc.	.	.		\$18,000 00
992-994	280 "	4.00	.	.		25,000 00
995-1002	275 "	4 1-10	.	.		75,000 00
1003-1004	308 "	4 1-10	.	.		40,000 00
1005-1017	259 "	4.20	\$1.75	prem.		200,000 00
1018-1026	217 "	4.05	.	.		100,000 00
1027-1032	219 "	4.05	8.00	"		200,000 00
1033-1036	196 "	3.74	6.00	"		200,000 00
1037-1048	179 "	3.45	3.50	"		200,000 00
1049-1052	167 "	3.39	.	.		200,000 00
1053-1063	166 "	3.298	.	.		100,000 00
1066-1067	174 "	3.37	2.75	"		100,000 00
1068-1079	168 "	3.39	.	.		200,000 00
1080-1082	190 "	4 1-8	5.00	"		100,00 00
						<u>1,758,000 00</u>
						\$2,343,000 00
Paid notes maturing in 1922						<u>1,843,000 00</u>
Maturing in 1923						\$ 500,000 00
Discount paid on amount borrowed in 1922 was						\$37,195 81
Amount paid in 1922 on notes of 1921, interest to follow, (this amount reserved and brought forward to credit of 1922 account)						5,181 25
						<u>\$42,377 06</u>
1922 Notes average 201 days, and average rate of discount					3.79	
Average of 1921, 197.42 days, rate					5.545	

The funded debt December 31, 1922, was \$1,459,000.00 classified as follows:

City Loan Bonds at 3½ per cent.	\$16,000 00	
City Loan Bonds at 4 per cent.	171,000 00	
City Loan Bonds at 4¼ per cent.	10,000 00	
Sewer Loan Bonds at 3½ per cent.	50,000 00	
Carried forward	<u>\$247,000 00</u>	<u>\$1,459,000 00</u>

Brought forward	\$247,000	\$1,459,000 00
Sewer Loan Bonds at 4 per cent.	117,000 00	
Sewer Loan Bonds at 4¼ per cent.	21,000 00	
Met. Park Asst. Loan Bonds at 3½ per cent.	7,000 00	
Lowell Street Bridge Loan Bonds at 3½ per cent.	27,000 00	
Municipal Loan Bonds at 3½ per cent.	7,000 00	
Highway Loan Bonds at 3½ per cent.	30,000 00	
Highway Loan Bonds at 4 per cent.	104,000 00	
Highway Loan Bonds at 4½ per cent.	28,000 00	
Highway Loan Bonds at 5 per cent.	85,000 00	
Pub. Bldg. Loan Bonds at 4 per cent.	146,000 00	
Pub. Bldg. Loan Bonds at 4½ per cent.	65,000 00	
Schoolhouse Loan Bonds at 4 per cent.	575,000 00	
		<u>\$1,459,000 00</u>

Funded debt beyond the limit fixed by law

City Loan	\$197,000 00	
Municipal Loan	7,000 00	
Highway Loan	247,000 00	
Public Building Loan	211,000 00	
Sewer Loan	179,000 00	
Lowell Street Bridge Loan	27,000 00	
Schoolhouse Loan	575,000 00	
		<u>1,443,000 00</u>

Funded debt beyond the limit fixed by law:

Sewer Loan (Chap. 357, Acts 1895	\$9,000 00	
Met. Park Asst. Loan (Chap. 325, Acts 1902)	7,000 00	
		<u>16,000 00</u>
		<u>\$1,459,000 00</u>

BONDS DUE IN 1923

	January	April	July	October	Total
Metro. Park . . . . .	.....	.....	\$1,000	.....	\$1,000
Bridge	\$1,000	.....	.....	.....	1,000
Sewer	\$3,000	\$9,000	9,000	.....	21,000
City	2,000	24,000	13,500	\$2,000	41,500
Municipal . . . . .	.....	.....	7,000	.....	7,000
Highways	8,000	36,000	2,000	.....	46,000
Buildings	5,000	5,000	8,000	.....	18,000
Schoolhouse . . . . .	.....	17,000	.....	13,000	30,000
	<u>\$18,000</u>	<u>\$92,000</u>	<u>\$40,500</u>	<u>\$15,000</u>	<u>\$165,500</u>

BOND INTEREST DUE IN 1923

	January	April	July	October	Total
Met. Park	\$ 122 50	.....	\$ 122 50	.....	\$ 245 00
Bridge . . . . .	.....	\$ 472 50	.....	\$ 455 00	927 50
Sewer	990 00	2,671 25	935 00	2,495 00	7,091 25
City	1,980 00	1,932 50	1,940 00	1,450 00	7,302 50
Municipal	157 50	.....	157 50	.....	315 00
Highway	685 00	4,675 00	545 00	3 895 00	9,800 00
Building	3,222 50	1,160 00	3,122 50	1,060 00	8,565 00
Schoolhouse . . . . .	.....	11,500 00	.....	11,160 00	22,660 00
	<u>\$7,157 50</u>	<u>\$22,411 25</u>	<u>\$6,822 50</u>	<u>\$20,515 00</u>	<u>\$56,906 25</u>

BONDS OUTSTANDING JANUARY 1, 1923

With Interest to Maturity

	Bonds	Interest	Total
Metropolitan Park	\$7,000 00	\$980 00	\$7,980 00
Lowell Street Bridge	27,000 00	12,757 50	39,757 50
Sewer	188,000 00	48,521 25	236,521 25
City	197,000 00	32,082 50	229,082 50
Municipal	7,000 00	315 00	7,315 00
Highway	247,000 00	38,250 00	285,250 00
Public Buildings	211,000 00	57,235 00	268,235 00
Schoolhouses	575,000 00	231,500 00	806,500 00
	<u>\$1,459,000 00</u>	<u>\$421,641 25</u>	<u>\$1,880,641 25</u>

OUTSTANDING BONDS DECEMBER 31, 1922

	City	Sewer	Sewer Outside	Park Outside	Bridge	Municipal Highway	Pub. Bldgs	School	Total Due
1923	\$41,500	\$18,000	\$3,000	\$1,000	\$1,000	\$46,000	\$18,000	\$30,000	\$165,500
1924	25,500	17,000	3,000	1,000	1,000	46,000	18,000	30,000	141,500
1925	23,000	17,000	3,000	1,000	1,000	35,000	18,000	30,000	128,000
1926	19,000	15,000		1,000	1,000	30,000	18,000	30,000	114,000
1927	19,000	14,000		1,000	1,000	22,000	17,000	30,000	104,000
1928	17,000	12,000		1,000	1,000	19,000	16,000	29,000	95,000
1929	16,000	11,000		1,000	1,000	19,000	16,000	29,000	93,000
1930	15,000	10,000			1,000	15,000	16,000	29,000	86,000
1931	12,000	10,000			1,000	10,000	15,000	29,000	77,000
1932	9,000	8,000			1,000	5,000	15,000	29,000	67,000
1933		8,000			1,000		14,000	28,000	51,000
1934		8,000			1,000		14,000	28,000	51,000
1935		7,000			1,000		8,000	28,000	44,000
1936		6,000			1,000		4,000	28,000	39,000
1937		6,000			1,000		4,000	28,000	39,000
1938		4,000			1,000			28,000	33,000
1939		3,000			1,000			28,000	32,000
1940		2,000			1,000			28,000	31,000
1941		1,000			1,000			28,000	30,000
1942		1,000			1,000			28,000	30,000
1943		1,000			1,000				2,000
1944					1,000				1,000
1945					1,000				1,000
1946					1,000				1,000
1947					1,000				1,000
1948					1,000				1,000
1949					1,000				1,000
	\$197,000	\$179,000	\$9,000	\$7,000	\$27,000	\$247,000	\$211,000	\$575,000	\$1,459 00

Yearly Bond Maturities with Interest

Date Due	Principal	Interest	Total
1923.....	\$165,500 00	\$56,906 25	\$222,406 25
1924.....	141,500 00	50,391 25	191,891 25
1925.....	128,000 00	44,903 75	172,903 75
1926.....	114,000 00	39,938 75	153,938 75
1927.....	104,000 00	35,401 25	139,401 25
1928.....	95,000 00	31,268 75	126,268 75
1929.....	93,000 00	27,376 25	120,376 25
1930.....	86,000 00	23,651 25	109,651 25
1931.....	77,000 00	20,313 75	97,313 75
1932.....	67,000 00	17,386 25	84,386 25
1933.....	51,000 00	14,858 75	65,858 75
1934.....	51,000 00	12,811 25	63,811 25
1935.....	44,000 00	10,863 75	54,863 75
1936.....	39,000 00	9,193 75	48,193 75
1937.....	39,000 00	7,621 25	46,621 25
1938.....	33,000 00	6,088 75	39,088 75
1939.....	32,000 00	4,796 25	36,796 25
1940.....	31,000 00	3,541 25	34,541 25
1941.....	30,000 00	2,323 75	32,323 75
1942.....	30,000 00	1,126 25	31,126 25
1943.....	2,000 00	248 75	2,248 75
1944.....	1,000 00	192 50	1,192 50
1945.....	1,000 00	157 50	1,157 50
1946.....	1,000 00	122 50	1,122 50
1947.....	1,000 00	87 50	1,087 50
1948.....	1,000 00	52 50	1,052 50
1949.....	1,000 00	17 50	1,017 50
	<u>\$1,459,000 00</u>	<u>\$421,641 25</u>	<u>\$1,880,641 25</u>

BORROWING CAPACITY, DECEMBER 31, 1922

Valuation, 1920	\$83,910,855 60	
Supplementary	17,700 00	\$83,928,555 60
Valuation, 1921	86,718,289 60	
Supplementary	75,258 00	86,793,547 60
Valuation, 1922	88,158,139 27	
Supplementary	8,400 00	88,166,539 27
Total		258,888,642 47
Abatements, 1920	493,150 00	
1921	626,258 00	
1922	358,500 00	
	<u>1,477,908 00</u>	
		<u>\$257,410,734 47</u>

Average three years, one-third			85,803,578 16
Two and one-half per cent.			\$2,145,089 45
Funded Debt, Dec. 31, 1922	1,459,000 00		
Outside limit fixed by law:			
Sewer Loan, 1895, Chap. 357	9,000 00		
Met. Park Loan, Chap. 325, '02	7,000 00	16,000 00	
		<u>1,443,000 00</u>	
Loans authorized, not issued		300,000 00	
		<u>1,743,000 00</u>	
Borrowing capacity, Dec. 31, 1922			\$402,089 45
Maturities:			
January 1, 1922		\$18,000 00	
April 1, 1922		92,000 00	
July 1, 1922	40,500 00		
Less outside limit	4,000 00		
		<u>36,500 00</u>	
October 1, 1922		15,000 00	
		<u>161,500 00</u>	
Maturities within limit, 1922		4,000 00	
Maturities outside limit, 1922			
		<u>165,500 00</u>	

MEMORANDUM OF PAYMENTS IN 1922 ON ACCOUNT OF DEBT

	Principal	Interest	Total
Bonds, General City Debt	\$169,500 00	\$43,939 58A	\$213,439 58
Revenue Loans, 1921 . . . . .	.....	5,181 25B	5,181 25
1922 . . . . .	.....	37,195 81	37,195 81
Grade Crossings	4,380 00	298 49	4,678 49
On account of			
Metropolitan District Debt:			
Sewers	21,647 12	30,741 39	52,388 51
Park	3,466 20	14,921 71	18,387 91
Wellington Bridge	1,265 00	177 10	1,442 10
Charles River Basin	310 09	3,594 42	3,904 51
Alewife Brook	818 39	264 98	1,083 37
Water	13,702 27	77,490 17	91,192 44
Somerville's proportion			
for debt requirements:			
In State Tax	25,159 56	28,772 75	53,932 31
In County Tax	2,933 56	3,725 15	6,658 71
	<u>\$243,182 19</u>	<u>\$246,302 80</u>	<u>\$489,484 99</u>

A—\$2,291.67 accrued interest applied as reduction.

B—This amount reserved in 1921 and brought forward to 1922 for interest 1921 notes, interest to follow.

GRADE CROSSING DEBT

(Carried by Commonwealth)

Decreases entered		\$120,097 10
Paid Commonwealth	\$139,067 50	
Deduct interest included in above	22,350 40	
		<u>116,717 10</u>
		3,380 00
Payable		
	Principal	Interest
Nov. 15, 1923	\$3,380 00	\$127 20

TREASURY DEPARTMENT, 1922

Appropriated in budget		\$20,750 00
Transfer		300 00
		<u>\$21,050 00</u>
Salaries:		
Treasurer and Collector	\$4,000 00	
Deputy Collector	2,000 00	
Cashiers	2,539 50	
Clerks	8,249 42	
Stationery, postage and books	2,395 59	
Printing and advertising	682 16	
Telephone	144 50	
Tracing tax-payers	100 00	
Bonds	386 57	
Machines and repairs	162 68	
Advertising and recording tax sales	325 98	
Sundries	60 95	
	<u>21,047 35</u>	
Balance	2 65	
		<u>21,050 00</u>

PUBLIC LIBRARY.

BOARD OF TRUSTEES.

THOMAS M. DURELL, M. D., President, 1925

J. FRANK WELLINGTON, Vice-President, 1923

FREDERICK W. PARKER, 1924

HERBERT E. BUFFUM, M. D., 1923

WILLIAM L. BARBER, 1925

GILES W. BRYANT, M. D., 1924

CHARLES L. NOYES, D. D., 1923

DAVID H. FULTON, 1924

FRANK M. BARNARD, 1922

ALBERT L. HASKELL, 1925

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.

ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.**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 and Second Assistant****GLADYS B. HASTINGS, Supervisor of Children's Work.****NELLY CUMMING, Chief Cataloguer****EDNA C. WOODBURY, High School Librarian****MARY S. WOODMAN, Reviewer and Classifier****MYRTLE NICHOLSON, Supervisor of Periodicals and Binding****LUCY W. HARRIS, School Librarian****ORPHA B. MATHESON, Reference Assistant****Senior Assistants.**

————— Desk Chief

————— Assistant Cataloguer

WINNIFRED S. RUSSELL, Circulation Department**MARION J. MESERVE, Circulation Department****ELEANOR M. DEAN, Circulation Department****Junior Assistants.****JEAN P. HENNESSY, Children's Room****ALICE W. HAMILTON, Children's Room****MILDRED A. BOWLEY, Circulation Department****Ungraded Service.****LOUISE R. JOYCE, Catalog Department****RUTH M. HAYES, Page****LILLIAN M. GOULD, Page****Attendants on Part Time.****ARTHUR HAYES****RALPH H. HATFIELD****WILMOT W. JONES**

WEST SOMERVILLE BRANCH.

Established 1909.
40 College Avenue.

GRADED SERVICE.

ESTHER M. MAYHEW, Branch Librarian
MABEL E. BUNKER, First Assistant

Senior Assistants.

RUTH L. SWETT }
DOROTHY H. TERRY } Children's Librarian
MURIEL STOWELL, Circulation Department
EDNA L. HARTWELL, Circulation Department

Junior Assistant.

IRMA TRAPHAGEN, Circulation Department

UNGRADED SERVICE.

_____ Page

Attendants on Part Time.

MARSTON C. SARGENT
GRACE FIGVED

RICHARD J. WALSH
MILDRED MOSES..

EAST SOMERVILLE BRANCH.

Established 1912.
Broadway and Illinois Avenue.

GRADED SERVICE.

DOROTHY B. SPEAR, Branch Librarian

Senior Assistants.

DOROTHY S. BAMFORD }
RUTH G. MARKLE } First Assistant
_____ Children's Librarian

Junior Assistants.

_____ Circulation Department

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

GLADYS MURLEY
GETRUEDE MCGLINHCY

AUDREY S. MERROW
M. EDNA PETRIE

UNION SQUARE BRANCH.

Established 1912.

Washington Street and Bonner Avenue.

GRADED SERVICE.

ALICE G. WORTHEN, Branch Librarian

Senior Assistants.

MARGUERITE C. LANE, First Assistant
KATHERINE I. EATON, Children's Librarian

Junior Assistant.

————— Circulation Department

UNGRADED SERVICE.

LEOLA STROUT, Page

Attendants on Part Time.

DOROTHY A. JONES
ESTHER COHEN

CHARLES KELLEY

RICHARD PIERCE
FANNIE SPIVACK

MEMBERS OF THE TRAINING CLASS.

E. MARION AKERLEY
HELEN W. FARRAR
ELSIE L. KNOXCORINNE MEAD
ALICE D. WILLIAMSNOTE: 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 fiftieth annual report of the trustees
of the public library is herewith respectfully submitted; being
the report of the librarian and tables of statistics of opera-
tion.

Very respectfully,
The Board of Trustees, by
THOMAS M. DURELL,
President.

REPORT OF THE LIBRARIAN

Gentlemen of the Board of Trustees:

The fiftieth annual report of the Somerville Public Library, for the year 1922, is herewith submitted.

A semi-centennial year is deemed by common consent an appropriate time to pause in the pursuit of any enterprise and to review its progress. The following account of the founding of our library, and of the more important features of its development, are therefore incorporated in this report for the convenient information and use of the citizens of Somerville who are the library's patrons and supporters.

FOUNDING OF THE LIBRARY

The great movement that swept the country in the nineteenth century, based upon an insistent demand for educational facilities to supplement the decidedly limited and formal program of the public schools, ultimately crystallized into the free public library of today. Its first manifestations appeared shortly after the American and French revolutions had spread broadcast the new ideas of freedom and enlightenment. Hundreds of association libraries were founded by pooling personal resources. They flourished for a time, some to disappear, others to grow strong and become permanent. The second phase of the movement, municipal recognition of the library as a necessary component of the public educational establishment, and its consequent support by taxation, first showed itself as early as 1833, but did not begin to make real headway until the middle of the century.

Great impetus was given to the movement by the founding of the Boston Public Library in 1854. During the decade of the sixties the project of instituting a public library in the town of Somerville was discussed by progressive citizens. Foremost and most persistent among its advocates was Edward E. Edgerly. Due largely to his efforts the growing sentiment was crystallized into action in 1869. The first definite step was taken by Henry M. Brown, acting as the representative of the Somerville High School Association, who in that year wrote to the Board of Selectmen and to the School Board inviting these bodies to co-operate with the High School Association in the establishment of a public library. The selectmen appointed a committee of three to confer with a similar committee from the association. The joint com-

mittee consisted of Austin Belknap, Horace Haskins, and Francis Houghton, selectmen, and Edward C. Booth, Henry M. Brown, and George S. Littlefield, of the association. The same committee was reappointed the following year and prepared a plan for founding and operating a public library. In accordance with this plan the executive committee of the High School Association and the Board of Selectmen held a joint meeting and elected the following Board of Trustees, three each from the Board of Selectmen, the High School Association, and the citizens of the town at large, namely: Austin Belknap, Henry M. Brown, Samuel A. Carlton, Horace P. Hemenway, Oren S. Knapp, John P. Marshall, Edwin Mills, Frank H. Raymond, and Columbus Tyler.

At a town meeting held April 29, 1871, the town "Voted, that a free library be established" and appointed a committee consisting of the above-named board, and Russell H. Conwell, Joshua H. Davis, Samuel C. Hunt, George S. Littlefield, Rev. Charles Lowe, Isaac Pitman, and Quincy A. Vinal, "to report a plan for operating the same."

The committee was at first organized with Rev. Charles Lowe, chairman, and George S. Littlefield, secretary. The absence in Europe of Messrs. Lowe and Marshall led to the substitution in their places of Rev. G. W. Durell and John R. Poor. Austin Belknap was elected chairman in place of Mr. Lowe. The report of the committee embodying its plan for a library was adopted by the town meeting of November 7, 1871.

October 21, 1872, the town having in the meantime been granted a city charter, the City Council elected the following Board of Trustees of the Public Library: For three years, John P. Marshall, Austin Belknap, Charles A. Guild; for two years, Quincy A. Vinal, Michael J. Canavan, Edward C. Booth; for one year, George O. Brastow, William H. Furber, and Selwyn Z. Bowman. On November 14, following, the new board organized by the election of John P. Marshall, president, and Edward C. Booth, secretary. On November 19 Isaac Pitman was elected librarian, and on May 1, 1873, the library was opened in a room in the City Hall now occupied as the office of the Board of Assessors. There were upon the shelves at the time of opening 2,384 volumes.

TRUSTEES

For membership on the Board of Trustees Somerville has always demanded her best, and they have generously responded by devoting time and intelligent study to the pro-

duction of the best possible service. The list is a long and honorable one. It is possible to give here only the names of the presidents of the board and their respective terms of service:

John P. Marshall,	1872 - 1875
Charles H. Guild,	1875 - 1876
W. G. Tousey,	1876 - 1880
Henry H. Barber,	1881 - 1883
Charles S. Lincoln,	1884 - 1899
Charles A. West,	1900 - 1906
Edward C. Booth,	1906 - 1909
Thomas M. Durell,	1910 -

LIBRARIANS

The first librarian, Mr. Pitman, served in that capacity until June 1, 1875. Before his appointment he had been a partner in a mercantile house in Boston, and his business experience doubtless stood him in good stead in laying well the foundations.

He was succeeded by his assistant, Miss Harriet A. Adams, who for eighteen years tirelessly carried on the work. On June 1, 1893, she was succeeded by John S. Hayes. Mr. Hayes had previously been a teacher. He was a man of culture, a book-lover, and happily possessed the additional qualities of energy and enthusiasm. The library thrived under his direction. It was by his initiative that relations were established with the public schools, and that the Library Bulletin was started. His sudden death on March 7, 1898, was felt as a great loss. On May 16, following, Sam Walter Foss was elected librarian.

It detracts nothing from the record of faithful and efficient services of other holders of the office to say that Mr. Foss was by far the most notable of all Somerville's librarians. His name was already a household word among the American people, who knew and loved his homely verses. He was a shining exception to the proverb that "A prophet is not without honor, save in his own country," for he enjoyed the crowning distinction of being beloved in his own community. His administration was marked by a great expansion of library privileges and consequently of the popular use of the library. He died February 26, 1911.

May 5, 1911, Drew Bert Hall succeeded to the office of librarian. Mr. Hall came to Somerville from the Millicent Library, of Fairhaven, Mass. He was a graduate of Bowdoin

College, and of the New York State Library School. During his incumbency the present Central building and the East Somerville Branch building were built, the methods of administration were brought to the forefront of modern library practice, and the privileges further liberalized. May 1, 1917, Mr. Hall resigned, and was commissioned captain in the United State army, in which capacity he served through the war.

The present incumbent, George H. Evans, became librarian May 1, 1917. He is a graduate of Dartmouth College, and had previously been connected with the libraries of that institution, of Brooklyn, N. Y., and of Woburn, Mass.

LIBRARY BUILDINGS

The library outgrew its original quarters in the City Hall after an occupancy of twenty years, during which enlargements had used up all the available room. In the years 1883-84 the first Central Library building was erected on a lot next to the City Hall. Exclusive of land the cost was \$28,338.45. The new building was dedicated by appropriate exercises, the principal feature of which was an address by Justin Winsor, librarian of Harvard College, and undoubtedly the leader of the American library profession. In 1895 the library was enlarged by the addition of a steel stack.

By 1911 the housing problem had again become so acute that the trustees took active steps to secure another building. As a result of their efforts the city agreed to take the old building for city offices, making for it an allowance of \$45,000, to which Mr. Carnegie added \$80,000. Edward L. Tilton, of New York City, was appointed architect. Mr. Tilton was already a successful designer of libraries, among others to his credit being the beautiful structure in Springfield. The new building is the result of careful study of administrative problems, and so successfully were they solved that the Central Library has earned a national reputation. It is frequently visited, and its plans studied by Boards of Trustees who are planning buildings. It was dedicated December 17, 1913, and opened for public use in January following.

On May 27, 1909, the building which houses the West Somerville Branch Library was opened for the accommodation of the people of the rapidly growing west end of the city. The cost of erection and furnishings, \$25,000, was met by a gift from Andrew Carnegie. The dedicatory address was made by Horace G. Wadlin, Librarian of the Boston Public Library. Its circulation rivals that of the Central Library.

The East Somerville Branch Library was first opened February 1, 1912, in a rented store at 153 Perkins Street. The patronage was immediate and large. After a few years the Carnegie Foundation came to the aid of the city and provided the sum of \$18,000 for a building, and on March 30, 1918, its present modern and attractive building was opened at the corner of Broadway and Illinois Avenue. The opening of the new building was immediately followed by a large increase in registered borrowers and circulation.

On March 4, 1912, the Union Square Branch was opened in one half of the first floor of the old Prospect Hill schoolhouse at the corner of Bonner Avenue and Washington Street. It now occupies the entire floor, and in spite of having been doubled in capacity it can offer standing room only during afternoon and evening hours. In addition to a goodly number of adults it has a daily attendance in school term of from 400 to 800 children.

TRUST FUNDS

The Isaac Pitman Funds

The Isaac Pitman funds were established by Mr. Pitman's daughter, Harriet M. Loughlin, in memory of her father. In 1897 she gave \$1,000, known as the Isaac Pitman Poetry Fund, the income to be expended for the purchase of poetry. In 1900 she also established the Isaac Pitman Art Fund by the gift of \$4,000, the income of which is to be expended by the "Trustees at their discretion in the purchase for the use of the library of works of art, illustrative, decorative, or otherwise." A condition of the deeds of gift of both these funds is that "The annual appropriation by the City Council for the use of the Library shall not be diminished in consequence of the donation."

The Wilder Children's Fund

In 1908 \$100 was given by Frances A. Wilder, a former teacher in Somerville schools, to establish a fund, the income of which is to be used for the purchase of children's books.

The Martha R. Hunt Funds

These funds were established in 1911 by the gift of \$15,000 from Martha R. Hunt. Of this amount it is directed that \$3,000 shall be expended by the Trustees for art purposes

for the Library, and shall be known as the Martha R. Hunt Fund, Art. The remaining \$12,000 shall be known as the Martha R. Hunt Fund, Books. From it the income only may be used for the purchase of books.

S. Newton Cutler Fund

This fund was established in 1912 by a legacy of \$1,000 from S. Newton Cutler. The income only is to be used for the purchase of books.

The Arthur A. Smith Fund

This fund of \$5,000 was established in 1920 by bequest of Arthur A. Smith, of Somerville. The income is to be at the disposal of the Trustees. This fund is not yet available.

LIBRARY SERVICE

The library is a constituent part of the educational establishment of the city. As such it aims to maintain a great reservoir of information, with trained and efficient experts to administer it, which shall provide material for students and workers in all walks of life. It affords a continuation school for those who are ambitious to supplement a limited or defective education. It is a laboratory for study and research. It is a community centre for the betterment of social conditions, and the making of intelligent American citizens. It offers a centre of sane recreation for leisure hours. It is not possible to estimate or to measure by finite units the results of such work. They are expressed only in higher standards of life. Nevertheless attention may be called to certain significant figures. It is estimated that not less than 30,000 citizens are either occasional or habitual users of the library. There are at their disposal 115,000 volumes in four conveniently located buildings. During its half-century of service the library has made home loans of books to the people of Somerville of more than 12,000,000 volumes. This is outside work, and does not take into account the vast amount of study and research done within its walls. Such a figure is beyond the power of the human mind to grasp. Who can doubt the beneficent results of the stimulation of the ambition, the intelligence, and the bettered ideals of life of the individual, so many times multiplied?

THE YEAR 1922

The record of the year 1922 does not differ materially from that of the years immediately preceding it, save that there is evident a slow recovery from the impairment of service occasioned by war conditions. The problem of staff recruitment is perhaps less difficult, due largely to the success of the Training Class, to which specific reference will be made in later paragraphs. Great credit is due those members of the staff who, in the face of substantial and even flattering offers from other sources, have stood by through the trying times and kept the framework of our organization intact with a steady purpose and a superb loyalty beyond praise. The thanks of our citizens who use the library, and of many others who, though they use it but little believe in it as an educational force, are due to the Mayor and City Council for the restoration of an appropriation for book purchase sufficient to arrest the decline of our collection.

THE STAFF

Changes in the personnel of the staff during the year are as follows: appointments to the Graded Service; Nelly Cumming, Cataloguer in charge of the department, Winnifred Smith Russell, Senior Assistant at Central, Jean P. Hennessy, Junior Assistant at Central, Ruth G. Markle, formerly in our service, 1st Assistant at East Branch; from the Training Class, Mildred A. Bowley and Alice W. Hamilton, Junior Assistants at Central, Irma Traphagen, Junior Assistant at West Branch, Eleanor Atherton, Senior Assistant at East Branch; in the Ungraded Service, Louise Joyce at Central and E. Leola Srout at Union Square Branch. Elsie K. Wells, Senior Assistant, and Arthur Hayes, Page, were temporarily employed at Central.

The library has received the resignations of Edna C. Woodbury, High School Librarian, Lucy W. Harris, School Librarian, Clara S. Hawes, Cataloguer, Dorothy S. Bamford, 1st Assistant at East Branch, Ruth L. Swett, Children's Librarian at West Branch, Eleanor A. Randall, Senior Assistant at Central, Eleanor Atherton, Senior Assistant at East Branch, and Bernice L. Watt, in the Ungraded Service at Central.

The following promotions have been made in regular course under the provisions of the Scheme of Service: Katherine I. Eaton to Children's Librarian at Union Square Branch, Lucy W. Harris to the First Grade in the School Department

and Orpha B. Matheson in the Reference Department, Marion J. Meserve, Eleanor A. Randall, Muriel Stowell, and Eleanor M. Dean to the Second Grade.

Two changes of organization deserve mention. All work with the graded and Junior High schools has been merged with the Children's Department. This department will now have five units, namely; the division of graded and Junior High schools, the Central children's room, and the children's room in each of the three branches. Miss Gladys Hastings has been promoted to the head of the department, with the title of Supervisor of Children's Work. In addition to the general supervision of the department, she retains the position of Children's Librarian at Central, and also conducts the instruction in children's work with the Training Class. Her promotion is a recognition well-earned by work of consistently high order both in spirit and performance.

The Somerville High School and the library have dissolved financial partnership in the employment of the High School Librarian, which has been taken over by the High School. The library will continue to place its resources freely at the disposal of High School students and teachers. Edna C. Woodbury, High School Librarian, formerly attached to our staff, therefore becomes a member of the city school department.

INSTRUCTION OF SCHOOL CHILDREN

A concerted attempt is being made by school and library to carry over from school life into the succeeding years the idea that the library is a source of information and help upon all problems common to our daily life, as well as an agency for culture and recreation. This idea is inculcated not merely by the home loans of books from the school rooms, but is definitely taught to the pupils. Instruction in the use of the library begins in the Junior High schools. Members of the upper class meet instructors from the library either at the library or at the school. They are told the simple ways of finding material by use of the catalogue and reference books. Supplementing this class instruction are illustrative test problems. When the same pupils reach the High School the following year they are given some review of this together with additional instruction in continuation. Visits to the library are also made by groups from the High School under guidance of the High School Librarian. The latter comes to the Central Library every afternoon after school where she

is ready to meet and assist pupils whose work sends them here. The result of these efforts is becoming evident in an increasing intelligence in the pupils' use of the library.

NOTABLE ADDITIONS

The Trust Funds were given by their donors to enable the library to make purchases of an unusual nature which it could not reasonably hope to make from the ordinary appropriations allowed by the city. Thereby they perform a valuable service. During the past year notable additions have been derived from this source. The impoverishment of many of the educated people of England due to the war has brought into the market some exceptional offerings. Our library has been able to secure from the sale of a private library in England a set of four quarto volumes containing reproductions of the portraits painted by the famous English artists, Thomas Gainsborough, Sir Joshua Reynolds, and Sir Henry Raeburn. In the same manner we also picked up in three portfolios the complete etchings of Rembrandt, over 1,600 in number. Another interesting addition is the purchase from the well-known house of Alinari, of Florence, Italy, of eighty-six copies of famous paintings mostly from Italian galleries and churches. These are not produced by any of the usual lithographic processes, nor are they colored after printing. They are actual color photographs. The colors are undoubtedly truer to the originals, inasmuch as they do not depend for accuracy upon the human eye, but upon a purely scientific process which registers the actual color values. None of these expensive books may be taken from the library, but they may be used freely by responsible people within the building.

The library is also indebted to the family of the late S. Newton Cutler, donor of one of our funds, for a gift from his library of 193 volumes; also to Dr. Charles L. Noyes, for many years until his recent retirement an active and valued member of the Board of Trustees, for the gift of 225 volumes.

FIRE RISK AND INSURANCE

After many years of good fortune the library suffered the loss of 265 volumes by fire and water damage while at the bindery. A reasonably satisfactory adjustment of the loss was effected by compromise but the episode served to call attention to the general subject of fire risks. After consider-

ation of the subject the Trustees directed the Librarian to place insurance upon library books while at the bindery, and also upon the collection housed in the Union Square building, a wooden structure. Two policies have accordingly been secured, one of \$5,000 upon the Union Square collection, and one of \$1,000 upon books while at the bindery.

THE TRAINING CLASS

The Training Class began its course of instruction on Monday, October 2, with the following members: E. Marion Akerley, Helen Farrar, Elsie L. Knox, Corinne Mead, and Alice D. Williams. This is an intensive study course of twenty-six weeks, with illustrative practice work. A brief summary of the courses of instruction may be of interest.

American literature to 1870. 20 lectures by Prof. R. E. Rogers of Massachusetts Institute of Technology.

Reference work and source books of knowledge. 24 class sessions with illustrative and test work.

Miss Eames.

Children's work. 24 class sessions with illustrative and test work. Reading and review of at least 50% of a selected list of 44 standard children's books.

Miss Hastings.

Operations of the charging desk. 12 class sessions with illustrative and test work.

Miss Whipple.

Classification, cataloguing, accessioning and filing. 12 class sessions with illustrative and test work.

Miss Bunker.

Book review and selection. 12 class sessions with illustrative and test work. Credit given for attendance at John Claire Minot lectures.

Miss Mayhew.

Current events of the world. 12 class sessions.

Mr. Evans.

Penmanship and printing. 6 class sessions with additional practice work.

Mr. Evans.

Book mending. 4 class sessions with additional practice work.

Mr. Evans.

Book binding for libraries. 3 class sessions with practice work in preparation of books for binding.

Miss Nicholson.

Care of periodicals. 3 class sessions.

Miss Nicholson.

Parts of a book and their significance. 3 class sessions with illustrative material on book making.

Mr. Evans.

Shelving and library arrangement of books. 2 class sessions with daily practice work throughout the course.

Miss Bunker.

Miscellaneous lectures on professional topics, such as; Librarianship as a profession. Ethics of the Librarian. Library history and development. Work of the State Commission. High School libraries. Welfare and citizenship work. Book ordering, and publishing houses. By various librarians.

Branch work,—Not less than one month.

Visits of inspection to typical libraries, including the Boston Public, Harvard, Massachusetts State, Boston Athenaeum, and important suburban libraries.

Visits to book binderies, printing shops, publishing houses.

Numerous professional readings as assigned.

Keeping of complete note books is required.

Very careful attention is given to the conduct of these courses. Admittedly elementary, they have been laid out and developed upon the basis of the actual demands of our daily work, and are therefore intensely practical. They are only too brief for their purpose, and there is a constant tendency to over-crowd them in the attempt to accomplish the utmost. Pupils without exception find that a considerable amount of outside work is necessary to maintain a satisfactory rank.

For admission to the Training Class the applicant must be not younger than eighteen nor older than thirty, at least a high school graduate of creditable rank, of normal health and strength and possessed of unimpaired faculties, and without marked peculiarities of temperament. She must pass an examination of High School graduate standard, including also general information relative to current affairs of the world and particularly of our own country. College graduates are

exempt from educational tests. The final rating is based 40% upon examination and 60% upon reports of daily work during the course. Students who pass with a rating of 75% or more are eligible to appointment to the library staff as vacancies occur. High School graduates to the Third Grade of the service, and College graduates to the Second Grade. Preference is given to Somerville residents both for admission to the class, and for appointment to the staff.

Every year since the institution of the Training Class applications for the privilege of taking a single course of instruction, such as Reference work or Children's work, have been received from members of our staff whose appointment antedates the class, or who have come to us from another library. It has been found to our mutual advantage to encourage these attempts at self-improvement by granting the time necessary. There is no doubt that the Training Class, in addition to its function as a recruiting agency, is a most valuable factor in the morale of our public service, making for harmony and a real conception of the spirit of service.

PROFESSIONAL RECOGNITION

Of interest to librarians and trustees is the May issue of the Annals of the American Academy of Political and Social Science. The entire number is devoted to the consideration of professional and business ethics. Under each calling the prevailing ethical standards are expounded, discussed, and an attempt is made to codify them. Some of the codes presented are those that have been formally accepted and endorsed by representative organizations of the particular professions. It is a tribute to the progress of the library profession that it has been included by the Annals, a publication representing the highest scholarship of America, in the same professional group with the clergy, law, medicine, architecture, teaching, engineering, and journalism.

STATISTICS

The usual tabulations of the statistics of operation for the year 1922, appended to this report, are submitted as a part of it.

Respectfully submitted,

GEORGE H. EVANS,

Librarian.

APPENDIX B

American Library Association Form for Uniform Statistics

Annual report for year ended December 31, 1922.

Name of library: The Public Library of the City of Somerville, Mass.

City: Somerville State: Massachusetts

Name of librarian: George Hill Evans

Date of founding 1872

Population served (latest estimate) 97,000

Assessed valuation of city \$88,166,539 27

Rate of tax levy for library purposes: \$0.67½ on each
\$1000 valuation.

Terms of use: Free for lending

Free for reference

Total number of agencies 182

Consisting of Central Library 1

Branches 3

High School Department 1

School Rooms 165

Institutions 4

Playgrounds 8

Number of days open during year (Central Library) 302

Hours open each week for lending (Central Library) 72

Hours open each week for reading (Central Library) 72

INCREASE

Number of volumes at beginning of year 111,815

Number of volumes added during year by purchase 8,222

Number of volumes added during year by gift or ex-
change 727Number of volumes added during year by binding mate-
rial not otherwise counted 110Number of volumes added during year by lost books re-
stored 29

Number of volumes lost or withdrawn during year 4,935

Total number at end of year 115,968

USE

	Adult	Juvenile	Total
Number of volumes of fic- tion lent for home use	214,742	92,432	307,174

Total number of volumes lent for home use	284,232	165,644	449,876
--	---------	---------	---------

Number of pictures, photo- graphs and prints lent for home use			2,168
--	--	--	-------

REGISTRATION

	Adult	Juvenile	Total
Number of borrowers reg- istered during year	4,223	3,563	7,786

Total number of registered borrowers	9,670	7,117	16,787
---	-------	-------	--------

Registration period, years	2
Number of periodicals and newspapers currently received:	
Titles	224
Copies	490
Number of publications issued during year:	
Bulletins	5
Special lists	3
Number of staff, library service	40
Number of staff, janitor service	6

FINANCE

Receipts from:

City tax levy:		
Library Department	\$45,727	72
Public Buildings Department	12,850	00
Endowment Funds	1,382	55
Fines	2,348	57
Other sources (Dog licenses)	2,053	71
	<hr/>	
Total		\$64,362 55

Payments for:

Library Department:		
Books	\$ 9,792	93
Periodicals	1,306	82
Pictures	146	20
Music	213	80
Binding	2,695	71
Salaries, library service	33,625	59
Supplies	890	98
Printing	687	58
Telephone	288	56
Transportation, postage, express, freight, etc.	1,113	01
Other maintenance	503	18
	<hr/>	
Total	51,264	36
Public Buildings Department:		
Salaries, janitor service	6,855	91
Heat	2,282	81
Light	2,070	90
Furniture	107	62
Permanent improvements	541	67
Other maintenance	198	30
	<hr/>	
Total	12,057	21
Total maintenance		\$63,321 57
Balance from Appropriation, Library Dept.	2	39
Balance from Endowment Funds	245	80
Balance from Appropriation, Public Buildings Department	792	79
	<hr/>	
Total balance		\$1,040 98

SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

FRED E. DURGIN, President.

MICHAEL COLL, Vice-President.

GEORGE C. BRAYLEY

Committees.

On Finance, Investigation and Relief, and City Home

MR. DURGIN, MR. COLL AND MR. BRAYLEY.

Clerks.

JOSEPHINE S. PHILBROOK

HELEN E. LINEGAR

General Agent.

WILLIAM E. COPITHORNE.

City Physician

C. CLARKE TOWLE, M. D.

FRANK E. BATEMAN, M. D. (Appointed Oct. 11, 1922)

Warden and Matron, City Home.

MR. AND MRS. J. FOSTER COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

Somerville, Mass., December 31, 1922.

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 Home
and the City Physician, with tables showing the work.

Respectfully submitted,

Fred E. Durgin,

Michael Coll,

George G. Brayley,

*Overseers
of the
Poor.*

Table No. 7.

Expenditures in Detail for the Year 1922.

1922	Board.	Dry Goods and Shoes.	Burials.	Somerville Poor in other Cities and Towns.	Cash Paid Out.	Somerville Poor in other Cities and Towns 1913 Law.	Cash Allowance	Fuel.	Groceries.	Other Institutions.	Med. Att. and Medicine	Nursing.	Stationery and Printing.	Salaries.	Somerville Hospital.	State Institutions.	Sundries.	Telephone.	Totals
January	\$229.35	.....	\$94.00	\$306.92	\$4,675.00	\$1,095.33	\$28.79	\$447.71	\$398.00	\$65.40	\$66.81	\$12.00	\$ 8.40	\$522.05	\$444.00	.....	\$25.08	\$10.38	\$8,429.22
February	769.85	.....	41.40	75.43	4,544.36	745.35	42.00	333.77	321.00	63.85	13.06	8.00	22.25	522.05	559.00	\$396.74	12.50	11.06	8,481.67
March	562.65	.....	10.00	132.00	4,665.20	501.88	45.65	363.51	322.43	144.15	22.48	3.50	8.50	522.05	767.00	.....	13.19	10.24	8,094.43
April	362.28	.....	.....	141.36	5,637.00	.....	44.44	37.64	285.00	5.25	55.28	.....	18.00	610.98	356.00	228.49	12.50	10.81	7,805.03
May	225.49	.....	5.00	4 25	4,613.20	302.00	54.51	.....	167.00	121.80	.....	6.00	3.00	528 05	620.00	.....	12.50	10.38	6,673.18
June	553.84	.....	74.00	.....	4,516.00	230.35	53.01	.....	142.00	.....	.....	.....	.....	528.05	819.00	.....	12.50	8.29	6,937.04
July	376.78	.....	.....	979.08	5,437.46	.....	54.51	.....	98.00	.....	.....	8.50	7.50	635.23	858.00	349.00	12.50	12.44	8,829.00
August	152.78	.....	17.00	247.80	4,318.01	2,505.67	61.15	.....	190.00	18.00	.....	2.00	12.25	553.05	578.75	.....	12.50	10.20	8,679.16
September ...	162.14	.....	.....	1,028.39	5,533.15	654.67	59.44	.....	165.81	122.57	1.50	.....	7.12	568.23	425.75	.....	12.50	10.21	8,751.48
October	553.06	.....	18.00	1,119.37	4,322.00	.....	61.15	.....	146.00	21.00	7.50	2.50	10.75	528.05	438.75	833.00	12.50	13.95	8,087.58
November ...	189.17	.....	.....	.....	4,457.00	234.00	59.44	.....	134.00	45.00	48.33	2.50	.....	528.05	461.50	.....	12.50	9.09	6,180.58
December....	600.92	.....	.....	156.00	5,471.00	1,041.13	57.15	.....	135.00	35.00	10.50	.....	88.75	620.91	325.00	.....	12.50	8.69	8,562.55
Totals.....	\$4,738.31	.....	\$259.40	\$4,190.60	\$58,189.38	\$7,310.38	\$621.24	\$1,182.63	\$2,504.24	\$642.02	225.46	\$45.00	\$186.52	\$6,666.75	\$6,652.75	\$1,807.23	\$163.27	\$125.74	\$95,510.92

REPORT OF GENERAL AGENT

City Hall Annex, January 1, 1923.

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

Gentlemen:—The following as the report of the general agent for the year ending December 31, 1922 is herewith submitted:—

Table No. 1.

FULL SUPPORT (During the year).

In City Home (men 29, women 22)	51
In City Home, December 31, 1922	35
In private families	26
In hospitals for the sick in other cities, towns and state	65
In care of state division minor wards (children)	12

Table No. 2.

PARTIAL SUPPORT (Outside Relief).

Families	249
Persons aided (including hospital cases)	1016
Burials	11
Permits to State Infirmary	3

Table No. 3.

AID UNDER 1913 LAW (Mother's Aid).

Number of applications from widows or deserted women	82
Number of families aided at close of year	65
Number of children	284
Amount allowed each family, from \$4.00 to \$20.00 per week	
Number of out-of-town families	15
Number having no settlement	19

Cost to City

Somerville settlement	\$22,131 06
Settled in other cities and towns (reside here)	5,248 08
State	10,719 19
Somerville families living in other cities and towns	7,310 38

\$45,408 71

Table No. 4. REIMBURSEMENTS

Commonwealth of Massachusetts	\$30,655 38
City of Beverly	45 50
“ “ Boston	2,219 18
“ “ Brockton	693 05
“ “ Cambridge	5,181 63
“ “ Chelsea	58 50
“ “ Everett	552 81
“ “ Haverhill	24 00
“ “ Malden	138 83
“ “ Medford	971 92
“ “ Newton	32 00
“ “ Salem	195 74
Town of Freetown	11 15
“ “ Plymouth	152 00
“ “ Ware	126 00
“ “ Watertown	180 00
“ “ Winchester	201 12
Individual	267 85
	\$41,706 66

Table No. 5. SOMERVILLE HOSPITAL (CITY PATIENTS)

Patients having settlement in Somerville	45
Patients having settlement in other cities and towns	24
Patients having no settlement (chargeable to State)	24
Total number of patients sent to hospital	93
Amount paid to hospital	\$6,652 75

Table No. 6.

POPULATION AND GROSS EXPENDITURES, 1900 to 1922

Year	Population (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	“	24,169.59
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
1921	— 95,000	“ 87,922.69	“	15,069.81	“	102,992.50
1922	— 97,000	“ 95,510.92	“	13,577.07	“	109,087.99

*Census

OVERSEERS OF THE POOR OF SOMERVILLE

Since the reorganization in 1885.

†Hon. Mark F. Burns, chairman, ex-officio	1885	1888	inclusive
†Col. Herbert E. Hill	1885	1889	"
†Charles S. Lincoln, Esq., chairman	1885	1887	"
†Hon. Edward Glines	1885	1887	"
†Charles G. Brett (president 1888-1892)	1885	Apr. 1893	"
Edward B. West (president May, 1894 February, 1912)	1888	to 1912	"
†Daniel C. Stillson	1888	Apr. 1892	"
†Hon. Charles G. Pope, chairman ex-officio	1889	1891	"
†Nathan H. Reed (president 1893 to April 1894)	1890	Apr. 1894	"
†Hon. William H. Hodgkins, chairman ex-officio	1892	1895	"
†James G. Hinckley	May, 1892	1894	"
†Albert W. Edmands	May, 1893	Oct. 1918	(Died)
†Herbert E. Merrill	May, 1894	1909	inclusive
†Ezra D. Souther	1895	Feb. 1898	(Died)
Hon. Albion A. Perry, chairman ex-officio	1896	1898	inclusive
James H. Butler	March, 1898	1899	"
Hon. George O. Proctor, chairman, ex- officio	1899		
Henry F. Curtis, M. D.	1910	to 1921	"
Philip Koen	1912	Nov. 9, 1916	"
Michael Coll	November, 1916	to date*	"
Fred E. Durgin	October, 1918	to date*	"
George G. Brayley	January, 1922	to date* inclusive	

Table No. 8.

RECAPITULATION (Miscellaneous)

Expenditures and transfers	\$95,510 92	
Reimbursements and refunds	42,075 03	
Net cost to city		\$53,435 89
* Present member.		
† Deceased.		

* Present member.
† Deceased.

Respectfully submitted,

WM. E. COPITHORNE

General Agent.

REPORT OF WARDEN OF CITY HOME

City Home, January 1, 1923.

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, 1922:—

Table No. 1.

Number of weeks board of inmates	1814-2
Number of males admitted during 1922	11
Number of females admitted during 1922	5
Number of males discharged during 1922 4	5
Number of females discharged during 1922	11
Number of males supported during 1922	29
Number of females supported during 1922	22
Number of males died during 1922	5
Number of Females died during 1922	5
Number of inmates in home, December 31, 1922	35

City Home Hospital.

Number of week's board	466-1
Number of patients admitted	11
Number of patients in hospital, December 31, 1922	8

Table No. 2.

Reimbursements	\$6,477 71	
Net expenditures	7,099 36	
	<hr/>	\$13,577 07
Appropriation	\$14,560 00	
Balance	982 93	
	<hr/>	\$13,577 07

Respectfully submitted,

J. Foster Colquhoun,

Warden.

REPORT OF THE CITY PHYSICIAN

Office of the City Physician,
Somerville, January 1, 1923.

Gentlemen,—The work of your City Physician during the year 1922 is presented in the following abstract:—

Office consultations and treatments	95
Total outside visits	809
Confinements	3
Vaccinations	20
Visits at City Home	129
Attended at Police station	23

Examinations:—

For legal department	13
For highway department	8
For police department	9
For fire department	3
For water department	3
For soldiers' relief department	6
For building department	1
For pension	14

Respectfully submitted,

FRANK E. BATEMAN,
City Physician.

REPORT OF THE POLICE DEPARTMENT.

January 31, 1923.

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, 1922.

Arrests.

Whole number of arrests made	1,973	2,438
With and without warrants	465	
On summons and notification	<u>1,973</u>	2,438
Males	2,343	
Females	95	
	<u>2,343</u>	2,438
Americans	1,599	
Foreign Born	839	
	<u>1,599</u>	2,438
Residents	1,525	
Non-residents	913	
	<u>1,525</u>	2,438
		<u>2,438</u>

1, — Crimes and Offenses Against the Person.

Assaults	4
Assault, indecent	1
Assault on police officer	1
Assault with dangerous weapon	12
Assault and battery	120
Assault with intent to murder	8
Assault with intent to rape	3
Assault with intent to rob	2
Murder	1
Rape	5
Robbery	8
Threats	10
	<u>10</u>

2.—Crimes and Offenses Against Property.

Arson, attempt	1
Breaking and entering	40
Breaking and entering railroad car, attempt	1
Breaking glass	4
Destroying electric lamps	8
Fraudulent conveyance of property	2
Illegal possession of registered bottles	1
Injury to personal property	2
Injury to real estate	11
Larceny	104
Larceny in building	1
Malicious mischief	3
Receiving stolen goods	5
Trespass	51
Trespass, wilful	15
Unlawful diversion of electricity	1
Unlawfully using unmetered gas	1

251

3.—Crimes and Offenses Against Public Order, etc.

Abortion, accessory to	1
Absent without leave United States Army	1
Accosting female	1
Adultery	2
Bail surrender	2
Bastardy	7
Capias	7
Carrying firearms without permit	4
Cruelty to animals	5
Default	15
Deserter, United States draft law	1
Disturbing the peace	5
Disturbing a public assembly	1
Dog keeping, unlicensed	5
Drunkenness	1,030
Drunkenness, common	16
False statement in procuring marriage license	1
Fornication	4
Fugitive from justice	1
Gaming implements, present when found	30
Giving false alarms of fire	12
Idle and disorderly	1
Lewdness	3
Lewd cohabitation	7
Neglected children	3
Neglect to support	135
Neglect to support illegitimate children	3
Obstruction on railroad track	2
Polygamy	1
Rescue prisoner, attempt	1
Revoke of parole	2
Runaway children	2
Safe keeping, alcoholism	1

Safe keeping, contempt of court	1	
Safe keeping, demented	24	
Safe keeping, epileptic	1	
Safe keeping, escape from Lyman School	2	
Safe keeping, escaped prisoners	2	
Safe keeping, escape from Training School	6	
Safe keeping, infirm	2	
Safe keeping, insane	8	
Safe keeping, revoke of parole	2	
Safe keeping, runaway children	4	
Safe keeping, runaway from Wrentham School	1	
Safe keeping, straggler United States Army	1	
Safe keeping, suicide threatened	1	
Safe keeping, violation of immigration law	2	
Safe keeping, violation of parole	3	
Stubbornness	7	
Suspicious persons	4	
Unlawfully riding on freight car	1	
Unnatural act	1	
Vagrancy	1	
Violation health regulation	1	
Violation of cigarette law	1	
Violation of city ordinances	105	
Violation of food laws	2	
Violation of labor laws	3	
Violation of liquor laws	95	
Violation of Lord's Day	22	
Violation of milk laws	10	
Violation of motor vehicle laws	317	
Violation of parole	3	
Violation of terms of probation	53	
Violation of school laws	11	
Witnesses, assault intent to murder	3	
		2,012
Recapitulation.		
(1) Crimes and Offenses Against the Person	175	
(2) Crimes and Offenses Against Property	251	
(3) Crimes and Offenses Against Public Order, etc.	2,012	
		2,438
Total number of arrests made		2,438
Bailed to appear elsewhere	19	
Cases in which nolle prosequi was entered	47	
Cases pending	2	
Released by probation officer, drunkenness, etc.	30	
Released from custody	3	
Surrendered to court, violation probation, etc.	53	
Surrendered to other officers, institutions, etc.	163	
Witnesses, assault intent to murder	3	
		320
Number of cases held for trial		2,118

NOTE.—Two hundred and seventy-two of the above number of cases were juveniles and delinquents.

Miscellaneous Reports.

Abandoned automobiles and trucks found	32
Accidents reported	786
Accosting females	3
Amount of property stolen	\$78,828 39
Amount of stolen property recovered	81,555 53
Amount of property damaged	153 00
Amount of property lost	2,418 10
Amount of property found	246 20
Absentees from United States Army	2
Assaults	10
Assaults with dangerous weapons	6
Assault with intent to murder	1
Assaults with intent and attempts to rob	8
Assault and battery	10
Attempts to break and enter	48
Attempts to commit larceny	2
Attempts to commit suicide	10
Breaking and entering, false alarms of	4
Building dangerous from snow and ice	1
Buildings broken and entered, nothing stolen	32
Buildings found open	383
Buildings flooded	1
Coal gas poisoning	3
Dead animals found	14
Dead bodies found	2
Defective bill boards	2
Defective bridges	22
Defective buildings	2
Defective catch basins	34
Defective chimney	1
Defective coal hole	1
Defective curb stones	6
Defective drinking fountains	9
Defective driveway	1
Defective electric lamps	24
Defective fences	6
Defective fire alarm box and gong	2
Defective gas gate boxes	3
Defective hydrants	2
Defective man-holes and covers	10
Defective poles	5
Defective police signal service	8
Defective railway	2
Defective sewer	1
Defective sidewalks	627
Defective sidewalks, lighted	5
Defective signs and sign posts	125
Defective sign, lighted	1
Defective streets	271
Defective streets, lighted	4
Defective tree guard	1
Defective United States mail boxes	3
Defective water gates	141
Defective wires	76
Demented persons	2
Destitute family and person	2

Disorderly house	1
Disturbances	38
Disturbances suppressed	4
Dogs killed	25
Dogs, vicious	5
Explosives found	1
Feeble minded person	1
Fires, alarms given for	7
Fire, danger of	1
Fire extinguished without alarm	1
Fire, false alarms of	27
Fires, needless alarm for	2
Fires reported	251
Fraud	2
Gas leaks	6
Gas Poisoning	1
Heat prostration	1
Horse killed	1
Houses unoccupied	45
Indecent exposure of person	6
Larcenies, no value given	120
Larcenies	494
Lodgers	4
Lost children	282
Lost children, found	282
Malicious mischief	32
Missing persons	79
Missing persons, found	35
Murder	1
Obstructions on railroad tracks	2
Obstructions on sidewalks	8
Obstruction on sidewalk, lighted	1
Obstructions in streets	13
Obstructions in streets, lighted	9
Obstructions in streets, not lighted	6
Panes of glass broken	207
Permits issued to carry firearms	252
Permits to labor on Lord's Day	167
Persons bitten by dogs	25
Persons helped home	2
Persons rescued	2
Property damaged and destroyed	91
Property lost, no value given	55
Property found, no value given	76
Robberies	19
Runaway children	19
Runaway children, found	19
Runaway horses	2
Runaway horses stopped	5
Runaway teams	4
Sidewalks dangerous from snow and ice	55
Sidewalks flooded	8
Stray bullets fired	2
Stray dogs	131
Stray dogs found	53
Stray horses and other animals	13
Stray horses and other animals, found	5

Stray teams	5
Stray teams, found	11
Streets dangerous from snow and ice	43
Streets flooded	9
Street lights reported	2789
Strike	1
Subways flooded	5
Sudden death	1
Suicides	4
Summonses served for witnesses and defendants to appear in court at other places	615
Suspicious persons	68
Threats	5
Trees dangerous	58
Trespass	50
Trespass, wilful	8
Unlawful appropriation of team	1
Violation, board of health regulations	4
Violation of city ordinances	233
Violation of Lord's Day	2
Violation of motor vehicle laws	10
Violation of traffic regulation	1
Water pipes leaking	146
Windows broken	73

OFFICIAL ROSTER OF DEPARTMENT.

Chief of Police.

Charles A. Kendall

Captain.

Eugene A. Carter.

Lieutenants.

James M. Harmon

John A. Ray

Inspectors.

Thomas Damery

Michael T. Kennedy

Sergeants.

Frank H. Graves

William G. Kenney

James M. Lynch

Robert T. Blair

Ernest Howard

Thomas P. Walsh

Patrolmen.

- | | |
|-------------------------------|----------------------------|
| 1 — Edward M. Carter | 41 — John J. McCahey |
| 2 — Francis A. Perkins | 42 — Alexander Morrison |
| 3 — Theodore E. Heron | 43 — Daniel J. Powers |
| 4 — Daniel G. Simons | 44 — Jeremiah O'Connor |
| 5 — Samuel Burns | 45 — Charles E. Wilson |
| 6 — John A. Dadmun | 46 — Timothy Buckley |
| 7 — George L. Rice | 47 — John J. Killourhy |
| 8 — Myron S. Gott | 48 — Charles J. Sharry |
| 9 — Charles W. Reick | 49 — Thomas M. Sharry |
| 10 — Frank C. Hopkins | 50 — Michael J. O'Loughlin |
| 11 — Hudson M. Howe | 51 — Charles W. Shepherd |
| 12 — Sanford S. Lewis | 52 — John F. Cruise |
| 13 — Henry A. Sudbey | 53 — John J. Shay |
| 14 — Thomas F. McNamara | 54 — Edward G. Butman |
| 15 — Louis F. Arnold | 55 — John P. L. O'Keefe |
| 16 — Charles S. Johnston | 56 — Alfred E. Robitaille |
| 17 — Claude L. Crossman | 57 — Allan S. Burns |
| 18 — John J. Cummings | 58 — William H. Donovan |
| 19 — Edmund J. Keane | 59 — George R. Allan |
| 20 — Denis Downey | 60 — Jeremiah Keniry |
| 21 — Edward M. Davies | 61 — James Murray |
| 22 — George A. C. Peters | 62 — Charles J. Fulton |
| 23 — Louis J. Belzarini | 63 — Edward F. Culliton |
| 24 — Walter Reed | 64 — Alfred J. McFadden |
| 25 — Dennis G. Mulqueaney | 65 — James A. Fitzpatrick |
| 26 — Patrick J. Doolin | 66 — Elmer E. G. Raymond |
| 27 — Edward J. Hopkins | 67 — Frank J. Roche |
| 28 — Walter L. Groves | 68 — Augustine F. Sharry |
| 29 — Frederick G. Jones | 69 — Daniel M. O'Connell |
| 30 — Joseph A. Dwyer | 70 — Chester C. F. Warner |
| 31 — Augustine J. Fitzpatrick | 71 — George D. MacDonald |
| 32 — Patrick McGrath | 72 — Charles F. Lacey |
| 33 — Bernard McCabe | 73 — William E. Dwyer |
| 34 — Harry C. Young | 74 — Charles H. McAvoy |
| 35 — Robert D. Dewar | 75 — James F. Holmes |
| 36 — Peter Moore | 76 — Earle W. Elliott |
| 37 — Albert C. Hawes | 77 — Michael J. Dowd, Jr. |
| 38 — Walter C. Oesting | 78 — Patrick J. Lyons |
| 39 — John L. Cameron | 79 — Alfred S. Macomber |
| 40 — Francis P. Higgins | 80 — Thomas A. Donovan |

Patrolmen.

81 — Thomas J. Flanagan
 82 — Timothy J. Corkery
 83 — John H. O'Leary

84 — Leo J. Hurley
 85 — Henry W. Roche
 86 — John H. Baker

Reservemen.

87 — John J. Courtney

88 — Pierce P. Ronayne

Chauffeurs and Patrol Drivers.

James W. Lundergan
 John H. McKenzie

James H. White

Matron.

Mrs. Mina T. Weeks.

Assistant Matron.

Mrs. Katherine Woods.

Pensioners Retired on Half Pay.

John E. Fuller,	Mar. 23, 1906	Jacob W. Skinner,	Dec. 31, 1917
Ira S. Carleton,	May 9, 1907	Elmer E. Drew,	July 25, 1918
James J. Pollard,	Feb. 27, 1908	Ernest S. Goff,	July 11, 1919
Herbert Hilton,	Dec. 21, 1911	Charles W. Allen,	Mar. 26, 1920
Ezra A. Dodge,	Mar. 14, 1914	Jotham Chisholm,	Apr. 23, 1920
George H. Carleton,	Mar. 27, 1914	Charles E. Woodman,	June 24, 1921
Frederick H. Googins	Mar. 12, 1915		

CHANGES IN THE FORCE.**Appointments.**

John J. Courtney, Appointed reserveman, April 15, 1922.
 Pierce P. Ronayne, Appointed reserveman, April 15, 1922.

Promotions.

Reserveman, Thomas A. Donovan,	promoted to patrolman, Sept. 30, 1922
Reserveman, Thomas J. Flanagan,	promoted to patrolman, Sept. 30, 1922
Reserveman, Timothy J. Corkery,	promoted to patrolman, Sept. 30, 1922
Reserveman, John H. O'Leary,	promoted to patrolman, Sept. 30, 1922
Reserveman, Leo J. Hurley,	promoted to patrolman, Sept. 30, 1922
Reserveman, Henry W. Roche,	promoted to patrolman, Sept. 30, 1922
Reserveman, John H. Baker,	promoted to patrolman, Sept. 30, 1922

Police Signal Service.

Number of on duty calls made by the patrolmen . . .	279,485
Telephone calls made by the officers and patrolmen . . .	42,733

"White" Combination Automobile Service.

Number of runs made in conveying prisoners to station		202
Number of prisoners conveyed		236
Number of sick and injured conveyed		504
Number of miles run in conveying prisoners to station	383.7	
Number of miles run in conveying sick and injured	1,610.5	
Number of miles run in conveying prisoners to and from jail	106.2	
Number of miles run elsewhere	666.9	
	<hr/>	
Total number of miles during the year		2,767.3

"Reo" Combination Automobile Service.

Number of runs made in conveying prisoners to station	881	
Number of prisoners conveyed		1,032
Number of sick and injured conveyed		202
Number of miles run in conveying prisoners to station	1,682.5	
Number of miles run in conveying sick and injured	656.5	
Number of miles run in conveying prisoners to and from jail	462.6	
Number of miles run elsewhere	1,146.4	
	<hr/>	
Total number of miles during the year		3,948.0

Touring Car Reports.

Number of prisoners conveyed to station	91
Number of sick and injured and conveyed	10
Number of persons conveyed to and from jail	3

International Harvester Co. Auto Car Reports.

Number of prisoners conveyed to station	7
Number of sick and injured conveyed	3
Number of miscellaneous runs	4

Harley-Davidson Motorcycle Reports.

Total mileage for the year	4,642
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Transfers and sales of Motor Vehicles.

Report on investigation, card indexing and filing sales and transfers of motor vehicles.

Number of licenses granted by License Commission and Board of Aldermen.

First class	5
Second class	28
Third class	4
Total	37

Number of sales and transfers made by dealers	4,039
Number of individual sales	1,701
Number of stolen motor vehicles reported by the several Police Departments, Insurance Agencies and Detective Bureaus in the United States and Canada	10,947
Number of motor vehicles recovered by above	3,920
Number of index cards filed	34,345

Respectfully submitted,

DANIEL G. SIMONS, *Police Officer.*

REPORT OF LIQUOR OFFICERS.

The following is the report of liquor officers from Jan. 31, to Dec. 31, 1922.

Cases investigated	358
Search warrants served	98
Cases in district court	78
Trials of liquors to be disposed of	41
Fines imposed in district court	\$5,025.00
Gallons of spirituous liquors	523
Gallons of mash	1,830
Stills	25
Hydrometers	6
Kegs, cans, bottles, jugs, funnels, glasses etc.	697
Bottles of liquor coloring	5

Respectfully submitted,

JAMES M. LYNCH, *Sergeant.*

REPORT OF POLICE MATRON.

December 31, 1922.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1922. The following females and minors were committed to my care, charged with the following offenses etc.

Adultery	1
Assault and battery	12
Children, lost	61
Children, neglected	2
Default warrant	1
Disturbing the peace	1
Drunkenness	17
Drunkenness, common	1

Fornication	2
Illegal sale of intoxicating liquors	18
Larceny	8
Lewd and lascivious cohabitation	3
Lewdness	1
Motor vehicles, no certificate of registration	1
Motor vehicle, no license	1
Motor vehicle, going away without making self known after causing injury	1
Parents, failure to support	9
Runaway girl	1
Safe keeping	9
Stubbornness	1
Violation of probation	4
Wanton injury to personal property	1
Total	<hr/> 156

I have reported at station each day and have attended the 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, John M. Webster and members of the Board of Aldermen, Heads of Departments, Court officials, and members of the Police Department, all who have assisted me in the discharge of my duties I wish to express my sincere thanks.

Respectfully submitted,

CHARLES A. KENDALL,

Chief of Police.

REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER,
CITY HALL, Somerville, January 1, 1923.

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

Gentlemen:—I most respectfully submit the forty-seventh annual report, containing a brief summary of the principal work performed by the Highway Department, by day labor and contract, during the year 1922 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, elm leaf beetles and other pests which destroy trees; and the oiling and watering of streets.

Highway Department Appropriations.

	Appropriations	Expenditures
Highway Maintenance	\$68,220 00	
Departmental transfers	26,029 55	
	94,249 55	\$94,058 95
Total credit—Highway Mainte.		
Sidewalks Maintenance	8,750 00	8,704 23
Street Sprinkling	37,525 00	34,620 85
Street Cleaning	25,580 00	25,479 35
Suppression of Moths	4,200 00	4,188 54
Care of Trees	5,500 00	5,312 01
New Streets	20,000 60	15,726 51
Permanent Pavement	71,104 41	69,100 60
Sidewalks Construction	16,025 72	15,379 35
Reconstruction and Resurfacing	30,176 50	30,156 12
	\$313,111 78	\$302,726 51

The yearly maintenance of the Highway department is taken from the Highway Maintenance account. Credit is received for work performed for the other divisions of this department and other departments of the City.

No one will dispute the fact that the progress of any city is influenced by the building of good streets. The type of road to be constructed today is far different from that of a few years ago before the introduction of the automobiles. The type of roads has been changed from the old water bound

macadam to a bituminous material. Then came one of our greatest problems in road construction and maintenance; the introduction of the motor trucks, some carrying an enormous load. I am in favor of the remark which Governor Cox made at his inaugural wherein he advocated a large revenue could be received for the maintenance of highways, and as I understand the cities and towns would receive some of this amount, when he said that all automobile and truck owners should pay a tax of two cents a gallon on gasoline.

It is my intention, the coming year, to erect a shed near our storage tank for mixing cold patch material and use the tank for the storage and heating of the cold patch liquid when it is not being used for the tar used as a cold application on the streets.

1922.

Highway Maintenance.

Total Appropriation		\$68,220 00	
Credits		26,029 55	
			<hr/>
			94,249 55
Street Commissioner	\$3,100 00		
Bookkeeper and clerk	2,769 00		
Office expenses and telephones	482 19		
Equipment and repairs	3,359 03		
Harnesses	1,475 40		
Tools and machinery	2,419 63		
Steam rollers	313 60		
Automobile maintenance	3,675 58		
Stable expenses	6,065 95		
Hay, grain and feed	7,198 79		
Shoeing	1,716 87		
Veterinary	126 92		
Fuel	642 81		
City of Waltham — Taxes	587 93		
Miscellaneous	31 85		
Holland street ledge	433 76		
Repairs streets, gutters etc.	13,241 00		
Repairs bridges	4,998 48		
Care — subways	424 46		
Care — lanterns	3,126 40		
Care — Parkways	8 35		
Snow and ice	7,844 68		
Signs	916 51		
Care of Highway property	1,235 85		
Emergency	181 72		
Block parties	62 90		
Sawing wood	194 53		
Holidays \$3,146.70 — Vacations \$3,569.60	6,716 30		
Charges to other departments	13,072 12		
Bills Receivable	7,636 34	\$94,058 95	
			<hr/>
Balance		\$ 190 60	

Snow and Ice.

Since the increased use of automobiles and trucks during the winter, and on account of the owners expecting the streets to be passable at all times, it has been necessary to change considerably the method of caring for the same. Years ago the snow was plowed from the gutters and sides of the streets into the middle, now it must be plowed from the center of the streets to the sides. Another reason the streets must be plowed is the motorizing of the fire departments in most cities and towns.

This year a Fordson tractor was purchased with a Starkweather plow attached. The use of this equipment has proven satisfactory.

I receive many complaints about water standing on the sidewalks when it rains and when there is a thaw. After investigating I find that in more than fifty per cent of the cases, the complainants were at fault in not shovelling the snow from the sidewalks to the outer edge of the edgestone. If this was done it would save the complaint and also the city a large amount of money.

This department removes the snow and ice from sidewalks, and sands when necessary, in front of all public buildings, grounds and schools.

97 requests and reports were attended to.

\$7,844.68 was expended for the care of snow and ice. 2503 cubic yards of snow and ice were removed. 59 cubic yards of sand and 293 cubic yards of ashes were used in caring for icy sidewalks, streets and crossings.

Bridges.

Both bridges on Lowell street over the Boston and Maine Railroad which the City has to maintain have been placed in first class condition at an expense of \$4,924.88. The Boston and Maine Railroad have repaired the Walnut street and the School street bridges and a great improvement was made on the approaches to the bridge on Washington street over the Fitchburg division. These approaches have been in need of repair for a number of years. The new construction is appreciated by the city and the general public.

The fences on the bridges and approaches where the grade crossings were eliminated on Somerville avenue, Medford street and Webster avenue must be scraped and painted the coming year. The other bridges are in good condition.

Street Railways.

The Boston Elevated Railway Co. constructed new double tracks on a concrete base on Somerville avenue from Beacon

street to Wilson square. Replaced new construction for old on Somerville avenue from Beacon street westerly to Cambridge line; on Cross street from Pearl street to Broadway; Broadway from Cross street to Hathorn street and Broadway from Magoun square to near Willow bridge.

Underground Wires.

Underground conduits were constructed by the New England Telephone and Telegraph Company on Walnut street from Highland avenue to Bow street and on Broadway from Hinckley street to City Road. By the Edison Electric Illuminating Company on Willow avenue from Lexington avenue to Highland avenue and on Cross street from Pearl street to Broadway. The Boston Elevated Railway Company constructed conduits for their feed wires on Cross street from Pearl street to Broadway.

Crushed Stone.

The William J. McCarthy Co. furnished 37 tons of local crushed rock at \$1.40 per ton at their crusher and 5,319 tons at \$1.80 per ton on the line of work. Coleman Brothers furnished 108 tons trap rock at \$2.00 per ton and 48 tons trap rock at \$2.48 per ton on the line of work. The General Crushed Stone Co. furnished 3 tons trap rock at \$1.35 per ton at their crusher and 1,370 tons trap rock at \$1.95 per ton on the line of work.

Steam Rollers.

No. 1 roller worked 109½ days.

No. 4 roller worked 70 days.

The old No. 2 roller should be exchanged for a new fifteen ton maintenance roller.

Sidewalks Maintenance.

I hope the coming year, where there are old brick sidewalks in our squares, that the same will be removed and granolithic substituted, the city paying one half the cost of this construction. Most of our squares are paved with some kind of permanent paving for the roadways and the sidewalks should be constructed of granolithic to correspond with that of the squares.

1461 linear feet of edgestone were reset. 8310 square yards of brick sidewalks were relaid. 2030 square yards of paved gutters were repaved and 12.10 square yards of granolithic were relaid.

All police reports pertaining to this kind of work are charged to this appropriation.

\$8,704.23 was expended for Sidewalks Maintenance.

Street Sprinkling.

Where there are car tracks on our main thoroughfares the American Car Sprinkler flushes and sprinkles the streets for \$925.00 a month, 8 hours a day, 7 days a week. I hereby recommend to His Honor, Mayor Webster, that a contract be made with the American Car Sprinkler Co. so that the car sprinkler will work twelve hours a day so the squares will be flushed every morning before 7 A. M. Most of our side streets are constructed with some kind of bituminous material, these streets are covered with a cold tar application, applied by the city. We are constructing some of our main thoroughfares, where there are no car tracks, with permanent paving, these streets have to be sprinkled with a horse drawn apparatus. As this paving has increased during the last few years, I recommend that an automobile street sprinkler be purchased to care for the same.

By the use of tar on our streets two objects are accomplished, namely:— the laying of dust and the sealing or coating of our streets.

Dust layers used during the year:—

- 3,190 gallons of Tarvia "B" (Barrett's).
- 117,005 gallons of Tarco (Flemmings)
- 7,935 gallons of Non-Asphaltic. (Bay State)
- 635 gallons of Non-Asphaltic. (Cambridge Gas Light Co.)

This division of the department is self supporting.

\$34,620.15 was expended for Street Sprinkling.

Street Cleaning.

There is no branch of the department that shows so much for the money expended, as that which keeps the streets clean and in a neat condition. I find in many cases where tenants and store keepers complain about the dirty condition of the streets that they, themselves, are the cause of the complaints because they throw or sweep the rubbish into the streets. I quote the words of Commissioner Fetherston of New York who says:— "This division of my department has a contract with the people of the city to perform certain work within the limits of the force and appropriation granted for street cleaning purposes; the people of the city are parties to this contract, and it is their duty to carry out their portion of

the agreement, which means that they should understand and live up to the laws and ordinances which set forth their obligations. By comparison it is apparent that the people of the city are more negligent than the department of their respective duties."

6,072 cubic yards of street sweepings were removed.
\$25,479.35 was expended for Street Cleaning.

Suppression of Moths.

Under this appropriation the city cares for all trees both public and private, in regard to moths with no special assessment. Street trees are sprayed in the spring and summer.

This division gives work to quite a number of men in the winter, because most of the moths are gathered at this time of the year while they are in the tent form.

6,990 street trees were inspected and cared for.
14,983 private trees were inspected and cared for.
24,499 bushes were found moth infested.
11,083 fences and buildings on which moths nested.
32,628 gypsy moth nests were painted with creosote.
31 brown tail moth nests were gathered and destroyed.
2,861 satin moth nests were painted with creosote.
6,765 trees were sprayed by the gasoline spraying machine to exterminate the different kinds of caterpillars and beetles.

\$4,188.54 was expended for the Suppression of Moths.

Shade Trees.

Mayor Webster and the City Government gave a good appropriation for this division of the highways, and I have had a busy year caring for the trees that were hit by the storm of November, 1921. The trees in our city are handicapped to a great extent. Nourishment is curtailed and water withheld from their roots by the granolithic sidewalks, concrete gutters and streets constructed with permanent paving. Shade trees, where possible, should be planted on private property adjoining the back of the sidewalk.

36 trees were set out.
203 trees were removed.
989 trees were trimmed.
38 tree guards and supports installed.

\$5,312.01 was expended for Care of Trees.

Highway Construction — New Streets.

Five new streets were constructed during the year under the Betterment Act, by contract with William J. Sullivan, viz:

Setting edgestones 55c per linear foot.

Gutter construction \$3.00 per square yard.

Construction of Macadam roadway \$1.55 per square yard.

The city furnished the edgestone and tarvia binder. Straight edgestone \$1.00 per linear foot. Circles \$1.35 per linear foot from H. H. Fletcher Company, delivered on line of work.

Tarco X binder 13½c per gallon from Trimount Oil Company, delivered and sprayed on work.

Tarvia X from the Barrett Mfg. Company at their factory at 9½c. City teaming and spraying on the work.

Nine new streets were accepted this year.

\$15,726.51 was expended for New Streets.

NEW STREETS CONSTRUCTED IN 1922.

Street	From	To	Material	Length	Cost
College Hill road	North street	Conwell avenue	Bituminous	449	\$4,390 51
Magnus avenue	Washington street	Lewis street	"	429	4,210 12
Mead street	Moore street	Near Cameron avenue	"	345	3,188 18
Miller street	Sacramento street	Beacon street	"	465	3,858 45
Murray street	Washington street	Boston & Main R. R.	Granite blocks on concrete base	250	3,241 40

PERMANENT PAVEMENT, 1922.

Street	From	To	Material	Sq. Yds.	Cost
Beacon street	R. R. Bridge	Oxford street	Granite Bks., concrete base	747.2	\$ 4,519 50
Cross street	Pearl street	Broadway	"	2603.7	17,755 88
Linwood street	Washington street	already laid	"	2073.8	12,295 42
Somerville avenue	Wilson square	Beacon street	"	3014.7	19,512 00
Somerville avenue	Cambridge line	Beacon street	"	1804.2	11,483 08

Sidewalks Construction.

The city employees constructed all the granolithic sidewalks this year at an average cost of \$3.00 per square yard. This price includes excavating and all materials furnished.

I recommend that the incomplete portions of the sidewalks on our main streets be constructed with granolithic.

Miles of edgestone, granolithic, brick and gravel sidewalks in the city:—

Edgestones	147.894 miles
Granolithic sidewalks	55.330 miles
Brick sidewalks	70.911 miles
Gravel sidewalks	22.601 miles

\$15,379.35 was expended for Sidewalks Construction.

Highways Construction — Permanent Pavement.

Contracts were awarded to Simpson Brothers Corporation at \$5.90 a square yard and to C. W. Dolloff and Company at \$6.30 a square yard for paving with granite paving blocks grouted with cement on a concrete base. They furnished all materials and did the excavating.

A big improvement was made on Cross street from Pearl street to Broadway. All wires were placed underground; Electric and sign posts were set on the back of the sidewalks; the edgestones on both sides of the street were set back eighteen inches, making the roadway three feet wider than the old street; new tracks were constructed, in place of the old ones, on a concrete base by the Boston Elevated Railway Company and granite paving blocks on a concrete base grouted were laid from the car tracks to the edgestones by the city. If the State does not take this street for a boulevard I hope the remaining portion of Cross street will be widened and constructed in the same manner.

\$69,100.81 was expended for Permanent Pavement.

Reconstruction and Resurfacing.

Twelve streets were reconstructed or resurfaced under this appropriation at an average cost of \$1.50 a square yard by city employees.

By carrying on this kind of work each year the cost of maintenance is reduced and keeps our streets up to the standard of streets in other cities. I think this kind of construction for the money expended gives greater satisfaction and pleases more tax payers than any other division of this department.

\$30,156.12 was expended for Reconstruction and Resurfacing.

SIDEWALK CONSTRUCTION.

		Grano	
Broadway	In front estate No. 83B-91	“	\$188 34
Broadway	In front estate No. 95-99	“	113 11
Broadway	In front estate No. 282	“	39 90
Broadway	At drinking fountain, Trum Park	“	14 74
Broadway	In front estate No. 982-986	“	261 88
Broadway	In front estate No. 1298 1300	“	153 36
Broadway	At Waterhouse street	“	181 97
Clarendon avenue	In front estate No. 58-60	“	96 27
Concord avenue	Southerly side to Hammond street, westerly	“	155 25
Curtis avenue	Curtise street to Hillsdale Road	“	1,375 93
College avenue	B. & M. line to Hotel Woodbridge	“	404 69
Cross street	Broadway to Pearl street, both sides	“	3,817 99
Electric avenue	Southerly side near Mason street to Packard avenue	“	588 85
Elm street	Westerly side, Mossland street to White street	“	2,075 26
Garfield avenue	Southeasterly side where not laid	“	560 91
Hammond street	Both sides, Concord avenue to Dickinson street	“	935 50
Fremont street	In front estate No. 26	“	142 63
Leonard street	At side estate No. 52 Powder House Boulevard	“	187 77
New Cross street	Northerly in front estate Frederick R. Curtis	“	1,040 19
Paul Revere Park	Broadway at Main street	“	394 70
Powder House Blvd.	In front estate No. 52	“	146 19
Powder House Blvd.	In front estate No. 50	“	115 31
Sycamore street	In front estate No. 53-55	“	198 01
Morrison avenue	Northeasterly side, Prichard avenue, to Boston avenue	“	344 98
Webster avenue	In front estate No. 2-4	“	197 00
Wellington avenue	Northeasterly side, Walnut street to Montgomery avenue	“	349 30
Whitfield Road	In front estate No. 39 to 45	“	158 90
Whitfield Road	In front estate No. 34	“	120 04
Willoughby street	In front estate 26 to 34	“	284 55
Union Square	In front estate No. 7-10	“	403 94
Bonner avenue	Westerly side, Homer square to Washington street	Brick	251 53
Highland avenue	Southwesterly side, Conwell street to Porter street (relaid)	“	83 36

RECONSTRUCTION AND RESURFACING.

Streets Reconstructed and Resurfaced in 1922.

Street	From	To	Width	Length	Cost
Bonair street	Cross street	Walnut street	40	520	\$2,577 49
Cherry street	Summer street	Highland avenue	45	545	1,180 26
Cottage avenue	Russell street	Chester street	40	550	1,679 71
Hathorn street	Broadway	Arlington street	40	339	753 73
Hawthorne street	Willow avenue	Cutter avenue	30	807	1,972 06
Mossland street	Elm street	Somerville avenue	40	377	1,951 04
Poplar street	Linwood street	Somerville avenue	30	351	1,258 75
School street	Highland avenue	Medford street	50	825	3,890 45
Thurston street	Medford street	Broadway	40	1380	3,910 39
Warner street	College avenue	Medford line	60	500	3,058 46
Washington street	Beacon street	Cambridge line	60	220	1,770 76

Miscellaneous.

- 137 Granolithic driveways constructed
- 100 Brick driveways constructed.
- 42 Edgestones dropped for driveways.
- 2 Driveways extended.
- 1 Driveway discontinued.

Driveways are constructed, discontinued, relocated or extended at the expense of the petitioners.

Length of public streets, 85.762 miles.

Seven horses were killed on account of disability and no horses purchased during the year.

The department maintains its own municipal repair shop for the different lines of work.

741 horses were shod during the year. Our horses, during the slippery going in the winter, must be sharp shod (we use the iron grip shoe and drive calks) because we must have the sidewalks and hills sanded for others to travel on.

100 drive calk shoes were put on.

I have attended meetings of the Public Works and of the Board of Aldermen for consultation regarding work and petitions.

Labor.

Eight hours constitute a day.

The regular employees are given two weeks vacation and all employees twelve months Saturday half holiday without loss of pay.

Laborers receive \$4.00, drivers and chauffeurs \$4.10, mechanics \$4.50 and engineers \$4.75 per day.

The city does its own insuring for injured laborers. There are twenty-one former employees receiving pensions under the act providing for the pensioning of laborers.

There were during 1922:—

- 154 permits issued to the Cambridge and Charlestown Gas Companies.
- 170 permits issued to cross sidewalks.
- 378 permits issued to occupy streets and sidewalks.
- 30 permits issued to feed horses.
- 3 street sprinkling complaints and requests.
- 254 notifications to other departments and corporations.
- 95 accident reports.
- 1096 police reports.
- 624 brick and granolithic sidewalks repaired.
- 1103 miscellaneous reports and requests.
- 128 drain layers permits.
- 690 water department openings.
- 141 permits to open streets and sidewalks.
- 46 danger and traffic signs erected.
- 15 new signs erected.

95 signs repainted.
62 streets cleaned by request.
3886 cubic yards of sand and gravel used.
3571 cubic yards of dirt removed.
1354 cubic yards of ashes used.
1773 cubic yards of old macadam used.
4395 bags of Portland cement used.

Recommendations.

I most respectfully recommend that the granite paving blocks on a gravel base on Somerville avenue from near Union square westerly, and on the northerly side of Washington street from the Boston line to Tufts street be removed, recut and repaved on a concrete base and grouted with Portland cement. If this is done I think we could secure enough extra paving blocks to complete the northerly side of Beacon street, which is permanent paving on both ends. Within a short time permanent paving will be necessary on the northerly side of Broadway from Cross street to the Boston line, as this part of the street is in sad need of a more substantial paving than is there at the present time. On Prospect street from Somerville avenue to the approaches of the Fitchburg railroad bridge the bituminous top should be removed from the concrete base and granite paving blocks be laid on the old concrete base and grouted with Portland cement. I recommend the purchase of a one ton Ford truck to be used by the tree division, and a fire proof garage to be erected at the city stable yard.

I desire to express my appreciation for the co-operation of Mayor Webster, who has taken a great interest in the work of this department, also to the members of the Board of Aldermen and Heads of Departments. I feel that I would be remiss in my duty if I neglected this opportunity to say a merited word of praise to the employees of my department who perform the actual labor of service.

Respectfully submitted,

ASA B. PRICHARD,

Street Commissioner.

REPORT OF THE CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,

CITY HALL, SOMERVILLE, JANUARY, 20, 1923.

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, 1922, 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:—the 50th anniversary of the city—my twenty-seventh 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—he shall be consulted in relation to public improvements of every kind when the advice of a civil engineer would be of service—and no pipes, conduits, railway tracks, poles or other structures shall be placed beneath or upon the city streets unless a plan showing proposed location thereof has first been approved by the city engineer. City Engineer is also Supt. of Sewers and Supt. of Parks and grounds.

New construction work has progressed more during the past year, in the various divisions, than any time since the World War.

Divisions	Appropriations	and Credits	Expenditures	Balances
City Engineer . . .	\$12,945 00	\$700 00	\$13,602 06	\$42 94
Parks Maintenance . . .	11,450 00		11,383 15	66 85
Playgrounds Maint. . .	6,510 00	339 75	6,795 47(A)	54 28
Sewers Maintenance . . .	24,500 00	419 40	24,573 59(B)	345 81
Sewers Construction . . .	17,042 47		14,286 09	2,756 38
Stock Account . . .		422 65	199 05	223 60

(A) Includes \$300.00 transfer to City Engineer Account.

(B) Includes 400.00 transfer to City Engineer Account.

(Expenditures in the various divisions are shown in detail in the City Auditor's annual report).

CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENDITURES, 1922.

Sewers and Storm Drains,—comprising surveys, estimates, profiles, lines, grades, titles, plans, assessments, all engineering work relating to same and supervision	\$1,470 76
Highways,—comprising plans, estimates, titles, profiles, lines and grades, inspection of paving and all other engineering work relating to the department	1,392 32
Sidewalks,—comprising profiles, lines, grades, measurements, inspection, titles, costs and assessments	352 14
Water Works,—comprising lines, grades, locations of mains, gates, hydrants, services and other matters relating to the department	497 63
Parks and Playgrounds,—comprising surveys, plans, estimates, profiles, and grades, including laying out of parks, playgrounds, boulevard and supervision	296 62
Public Buildings,—comprising surveys, estimates, lines and grades, and other work relating to constructing and laying out of grounds	209 69
Street Numbering,—comprising locations of buildings, plans, assigning street numbers, etc.	431 89
Street Lines and Grades,—comprising establishing of lines, grades, and miscellaneous data given parties for building and grading	361 69
Bridges and Grade Crossings,—comprising surveys, plans, profiles, estimates, lines and grades, etc.	69 35
City Survey,—comprising establishing of street lines, acceptance plans, and miscellaneous survey work for city map, etc.	450 00
Middlesex Registry and Land Court,— comprising copying of plans, and abstracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and sewer taking plans, filed for record	127 33
Private Corporations, Railway, Telephone, Electric Light and Gas Light Companies,—comprising grades, plans, profiles and office notes, locations of poles and conduits	132 83
Setting Stone Bounds and Brass Rods,—defining street lines and city boundary lines	63 83
Office Work,—comprising record of all locations, indexing, typewriting, bookkeeping, calculations, reports, and general draughting	1,597 25
Miscellaneous Work,—comprising preliminary surveys, designs, sketches, etc., relating to various schemes for committees	19 42
Holidays, Vacations and Sickness	882 79
National Guard Duty	65 00
Engineering,—General Departmental expenses (all divisions) comprising city engineer's salary, auto, telephone, car fares, postage and incidentals	5,181 52
Total	<u>\$13,602 06</u>

Value of field instruments, tools and office instruments,
\$1,500.00

The total cost of maintaining the Engineer's Division since it was established, 1872-1922 both years inclusive, has amounted to \$438,463.00.

Six assistants have been employed the greater part of the year, on engineering work.

A number of plans were made during the year for street acceptance and five streets have been accepted as public highways, under the betterment act.

There are plans for acceptance of twelve private streets on file in this office, that for various reasons have not been made public ways.

Surveys, calculations, estimates and plans have been made for taking land, buildings and private property for School-house purposes in certain sections of the city and borings and tests made by this department to determine the character of the soil for the foundation of proposed buildings to be erected on the areas taken.

The improvement of Cross street (between Broadway and Pearl street) has been accomplished by widening the roadway and narrowing the sidewalks eighteen inches on either side of the street, placing all overhead service wires in underground conduits and removing old poles from the street, except the trolley wire support poles which were relocated on the inside of the sidewalk or property line; this plan of improvement should be extended the entire length of the street to Central Square immediately.

Many streets and avenues in the city are of the same, or very similar name and could be changed at the present time (renamed in memory of deceased veterans of World War) eliminating the confusion now existing; and where traffic is congested, certain streets should be made "one way" streets and traffic regulation and zone signs installed.

Some of the old main thoroughfares should be re-numbered their entire length, so as to eliminate half numbers and letters now being used.

A LAST TRIBUTE OF RESPECT AND ESTEEM

TO THE MEMORY OF

JOHN JOSEPH MURRAY

BORN DECEMBER 24, 1877

DIED NOVEMBER 26, 1922.

AN ASSISTANT IN THE ENGINEERING DEPARTMENT

FOR MORE THAN 26 YEARS OF FAITHFUL
SERVICE

“Johnny” Murray, as he was popularly known by his office associates, all city employees and his many friends, was a Somerville boy, educated in the city’s public schools and employed in this department all his life;—at his work on Saturday, but for the last time, as shortly after leaving the office for the week-end, he became ill and died on the following day. (Sunday).

His sudden death deprived the department and city of service of a high character—his whole career displayed ability and he was conscientious, efficient and energetic in the performance of his duties.

A young man of a happy, genial and kindly disposition, of a courteous and affable bearing with his office companions, a general favorite, endearing him in the hearts of many friends, and he will be long and pleasantly remembered.

STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1922, UNDER THE BETTERMENT ACT.

Name of Street	Ward	From	To	Width in ft.	Length in ft.	Date of Acceptance
Gordon street	7	North street	Alewife Brook Parkway	40	1254	June 23, 1922
Miller street	6	Sacramento street	Beacon street	30-33	466	May 19, 1922
Murdock street	5	Cedar street	Clyde street	30	853	September 15, 1922
Murray street	1	Washington street	Southeasterly	30	190	December 2, 1922
Total			(0.523 miles)		2763	
*Dow street	7	Powder House Blvd.	Ware street	40	257	January 3, 1923

*Was accepted by Board of Aldermen 1922. Mayor's signature January 3, 1923.

Summary. — Public streets 85.762 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 streets 15.104 miles.

Total length of streets in the city 100.866 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; the names of some of these squares having been changed recently.

Length of Public Streets in Each Ward

Ward one	10.824
Ward two	9.739
Ward three	7.630
Ward four	10.026
Ward five	12.540
Ward six	13.866
Ward seven	21.137
	<hr/>
Total length of public streets in the city	85.762

Street "Markers"—(Stone Bounds) (Brass rods set in cement sidewalks).

1922 — stone bound set southeast corner Otis Street and Wigglesworth Street.

Stone bound set southeast side Marshall Street at southwest corner old Fire Station Lot.

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 additional lists in the reports of 1908, 1910, 1911, 1913, 1919, 1920, 1921 and 1922 will show location of all street bounds set to 1923.

There are at the present time a total of 660 bounds or brass rods set for defining street lines.

Four new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestone, a total of 1,689 feet (.32 mile); the work being done by contract.

The average cost of this type of construction complete, for these streets, was \$9.27 per linear foot, a high rate, on

account of the unusual cost of materials and labor. (Average cost of bituminous surface \$1.83 per square yard.)

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, Somerville avenue, Beacon street, Cross street and Murray street; 12,966 square yards (3,640 feet in length) of this type of pavement were constructed by contract at \$5.90-\$6.20-\$6.30 per yard complete. In conjunction with this paving the street railway company also laid approximately 2,770 square yards new granite paving between rails where tracks existed and new tracks added.

In constructing the granite pavement, new bituminous streets and granolithic sidewalks, 4,006 feet (0.76 mile) of new granite edgestone were set, at an average cost of \$1.55 per foot.

The total length of permanent paved streets in the city amounts to 18.54 miles.

Permanent street pavement should be extended as rapidly as possible, using old granite blocks, 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 reconstruction of twelve streets with a bituminous wearing surface, a length of 7,989 feet (1.513 miles);—this work was done by day labor, averaging \$1.20 per square yard (at the rate of \$3.10 a foot for 40 foot width street.)

TABLE OF STREET CONSTRUCTION

	Sq. Yards	Miles
*Streets paved with granite blocks	153,850	6.83
**Streets paved with concrete	23,990	1.42
†Streets paved with asphaltic top	38,964	2.37
Streets paved with vitrified brick	20,958	1.29
Streets paved with "Bi-co-mac"	10,100	0.77
Streets paved with bitulithic (patent)	3,059	0.06
Combination pavement (concrete base with bituminous top)	87,200	5.80
‡Streets macadamized (bituminous binder)		43.53
Streets macadamized (water bound)		22.89
Streets graveled or unimproved		15.91
Total		100.87

*Also 32.5 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

**Includes 0.42 mile state highway.

†Includes 1.16 miles of state highway.

‡Includes 1.406 miles of city boulevard and park roadways and 2.831 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 and measurements taken for constructing thirty-three new granolithic sidewalks—5,215.3 square yards (1.35 miles), and assessments were computed, the abutting property owners paying one-half the cost. The greater part of this work was done by day-labor at an average cost of \$3.00 per square yard.

In laying out new work, under orders passed for construction of sidewalks, etc., occasionally portions of buildings and fences are found to be encroaching on the sidewalk and on some of the old rangeways these encroachments have existed for many years; as improvements are made, the full width of sidewalk should be maintained.

In sections of the city where brick sidewalks have been laid many years, and must necessarily be relaid on account of deterioration and unevenness, granolithic should be substituted in place of brick.

Miles of Edgestone, Granolithic, Gravel and Brick Sidewalks in Each Ward.

	Edgestone	Gravel Sidewalk	Brick Sidewalk	Granolithic Sidewalk
Ward one . . .	20.042	3.574	11.898	4.994
Ward two . . .	16.962	6.513	6.386	3.835
Ward three . . .	14.325	0.906	11.603	1.911
Ward four . . .	15.309	1.250	9.802	4.189
Ward five . . .	22.716	4.399	12.155	6.056
Ward six . . .	25.372	3.949	10.678	11.419
Ward seven . . .	33.168	2.010	8.389	22.926
	<u>147.894</u>	<u>22.601</u>	<u>70.911</u>	<u>55.330</u>

(Details, etc., streets and sidewalks in report of Street Commissioner).

The Boston Elevated Railway Company has 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 and heavier rails; and new double tracks have been constructed in Somerville avenue between Wilson Square and Beacon street bridge—completing a through double track line in this street, extending from the west Cambridge line to the east Cambridge line, connecting to Lechmere Square terminal. In Teele Square and Wilson Square double tracks

have been relocated and widened out on the curves so that large cars can operate without delay.

There are, however, a number of miles of trackage, orders having been granted for widening in the city's main thoroughfares, where the old granite block pavement, within the railroad location should be relaid and grouted with cement and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms. There are 32.5 miles of electric railroad (single track length) at the present time in the city's streets. A considerable length of high power cables have been placed in underground conduits.

Plans have been made by the various companies and filed in the city engineer's office, showing the locations of gas mains, poles, tracks and conduits in this city, which have been granted by the board of aldermen during the year; and the work of placing overhead wire in conduits, underground, and removing poles from the streets should be extended as rapidly as possible.

In the city's squares overhead wires should be placed underground, immediately, and practically all poles (except for lights) removed — on the main thoroughfares many of the existing poles should be eliminated, at the present time, being unnecessary.

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, 12.72 miles of electric light conduits, 4.46 miles of electric railway conduits, and about 9.97 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown gas companies have respectively 64.42 and 28.16 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:—a special plan being made showing a proposed development of the West Somerville Junior High School grounds for athletic purposes.

Plans have been made 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, miscellaneous data compiled relating to the sewers, highways, bridges, etc., in this city for various state departments; 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, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and schedules of assessments made out showing the property owners.

Probably the proposed plan of widening Bridge street (East Cambridge) being the extension of Somerville avenue will be accomplished the coming year; after numerous hearings, the construction and completion of the work and proportioning of assessments has been placed under the control and jurisdiction of the County Commissioners—a much needed public improvement for relieving the present congested traffic and business.

A skeleton map of the city is on file in this office showing steam and electric car lines, principal streets, public buildings and locations of principal industries:—also special maps showing buildings and areas built upon previous to 1872 (when a town) and at the present time (a city 50 years).

A set of block plans should be made covering the entire city area, from accurate surveys made during the past twenty-five years, and carefully compared section by section with the deed dimensions and areas recorded in the assessor's department, and in this manner the correct areas of land determined.

This set of plans would show the area and dimensions of each lot, all houses and other buildings, sewers, catch basins, house drains, water services, gas mains, underground conduits for wires, street lights, street railway tracks, etc., and be of great value to many city departments. Five of these sectional plans have already been made. A separate appropriation should be made for completing these plans.

Total number of plans on file in the office approximately eight thousand four hundred.

Perambulation of the Somerville-Medford city boundary line:—December 13, 1922, a committee appointed from each city; including 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; these boundary lines are perambulated every five years as prescribed by the statutes.

No action has been taken by representatives of the city governments of Somerville and Medford relative to the changing of the boundary line between the two cities. From the various studies presented, an exchange of territory can be made that would be equally advantageous.

In addition to the regular work of the department, considerable information and assistance has been furnished to the various city departments and citizens of the city; and special data for the development of real estate etc., given to private engineers, architects and builders.

For the immediate improvement of conditions in this city the highway bridges and approaches over the steam railroads should be rebuilt 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) reconstructed with increased head-room for street traffic,—the dangerous railroad 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 steam railroad tracks making a connection between Wilson square—Craigie street on the northerly side and Stanford Terrace-Beacon street on the southerly side of this railroad.

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.

COMPILED TABLE OF AREAS, USEFUL FOR VARIOUS DEPARTMENTS, SHOWING A SUB-DIVISION OF CITY'S ACREAGE.

Land and water, total area city	2700	acres
Water	100	acres
Streets	480	"
Boulevards—city and State	22.6	"
Squares	8.8	"
Steam railroads, locations	90	"
Freight, distribution areas	26	"
Parks	38	"

Athletic fields and playgrounds	30	“	
(30) Schoolhouse lots	22.7	“	
(7) Fire station lots	2.4	“	
Miscellaneous city building lots and institutions	29.5	“	
(40) Church lots	13	“	
(20) Large manufacturing and mercan- tile plants	100	“	
Tufts College land	46.5	“	
Large areas vacant and refilled marsh land	115	“	
			<u>1124.5 acres</u>

Approximate dwelling area built upon (partly covered) 1575.5 acres
 Approximate number of dwellings in city, 14,140
 Average area to a dwelling about 4,800 square feet.

SEWER DIVISION

The designing and constructing of sewers, storm drains, catch basins, house drains, etc.,—maintenance of the drainage system and other items in this division are under the direction, supervision and control of the city engineer.

Sewers were petitioned for and constructed during the year in a number of newly laid out streets, where real estate owners commenced extensive building operations for the first time since the World War; approximately 140 new two-family houses were erected the past year on these streets.

CONSTRUCTION ACCOUNT, STATEMENT OF EXPENDITURES, 1922.

Labor (city dept.)	\$1,022 05	
Labor (contract)	9,468 91	
Inspection	387 45	
Teaming	396 78	
Materials and Supplies	3,010 90	
Materials from Stock	199 05	
		<u>\$14,485 14</u>
Cost of new construction work		\$14,485 14

CLASSIFICATION OF EXPENDITURES

Constructing sewers (separate system)	\$10,448 62	
Constructing storm drains	2,999 81	
Constructing catch basins	889 27	
Constructing manholes on sewers	147 14	
		<u>\$14,485 14</u>
Cost of new work		\$14,485 14
Materials on hand December 31		223 60
		<u>\$14,708 74</u>
Total		\$14,708 74

CREDIT.

Appropriations (\$10,000) + (\$7,000)	\$17,000 00
Balance unexpended, 1921	42 47
Materials on hand January 1, 1922	422 65
	<hr/>
Total	\$17,465 12
Balance unexpended (over to 1923)	\$ 2,756 38

Six sewers were completely constructed and one partially built during the year and also storm drains; a length of 7,012 feet (1 1-3 miles) of 10" and 8" pipe, the greater part of the work being done by contract, the remainder by department labor. (See attached tabular statement for 1922, showing itemized account of work.)

The total length of the city's drainage system is 114.926 miles, and the entire cost of construction including catch basins has amounted to about \$1,376,757.00, 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 \$52,388.51 on construction account and \$42,676.63 for maintenance and operation, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,708,002.78 (1892-1922, 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.

The 1918 report contains a compiled table of Storm Drains constructed to 1919 showing length, cost, date of construction, district benefited, etc.

Fifteen catch basins have been constructed in the highways during the year, making a total of 2,055 basins in the city for street drainage purposes, constructed and maintained as follows:—

By the city (sewer division):—

Located in streets and subways	1,863 basins
Located in city boulevard	33 "
Located in parks (17) and other city lots (12)	29 "
	<hr/>

Total catch basins constructed and maintained by the city	1,925
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TABULAR STATEMENT OF SEWERS AND STORM DRAINS BUILT IN 1922.

LOCATION				ITEMS OF CONSTRUCTION AND COST																			
Name of street	From	To	Contractor	Material Excavated	Average Cut	SEWER		SUB-DRAIN		ROCK EXCAVATION		MANHOLES		Number of Inlets	COST PER LINEAR FOOT						Total Cost	Assessment	Cost to City
						Size in inches	Length in feet	Size in inches	Length in feet	Cubic yards	Price per yard	Number	Average Cost		Sewer or Storm Drain	Sub-Drain	Pipe, Cement, etc. including Sub-Drain	Engineering and Inspection	Lumber	Average Cost per Linear Foot			
Alewife Brook Parkway Sewer	Woods Avenue	Sterling Street	Denis I. Crimmings	Sand, Marl & Hardpan	9'-1"	8"	596.8	4"	596.8	21.5	\$7.00	1	Combi- nation	15	\$3.10	\$0.20	\$0.30	\$0.09	\$0.84	\$5.18	\$3,092 08	\$1,102 46	\$1,989 62
Alewife Brook Parkway Storm Drain	Woods Avenue	Fairfax Street	Denis I. Crimmings	Sand, Marl & Hardpan	8'-2"	8"	355.0	....	.....	7.5	7.00	.....	.....	8	0.20	.....	0.29	0.15	0.51	2.45	869 41	.....	869 41
Cross Street Sewer	Pennsylvania Avenue	Blakeley Avenue	Denis I. Crimmings	Gravelly Hardpan	7'-4"	8"	111.7	....	.....	.....	.....	1	41.63	5	2.90	.....	0.30	0.05	.....	3.50	391 12	253 00	138 12
Cross Street Storm Drain	Pennsylvania Avenue	Blakeley Avenue	Denis I. Crimmings	Gravelly Hardpan	6'-5"	8"	111.7	....	.....	.....	.....	.....	.....	5	0.20	.....	0.40	0.02	.....	0.76	85 07	.....	85 07
Fairfax Street Sewer	Alewife Brook Parkway	Near North Street	Denis I. Crimmings	Gravelly Hardpan	7'-1"	8"	832.3	....	.....	5.0	7.00	3	Combi- nation	48	2.60	.....	0.30	0.04	.....	3.11	2,590 14	2,416 00	174 14
Fairfax Street Storm Drain	Alewife Brook Parkway	Near North Street	Denis I. Crimmings	Gravelly Hardpan	6'-2"	8"	832.3	....	.....	.....	.....	.....	.....	46	0.20	.....	0.34	0.04	0.03	0.68	569 80	.....	669 80
Lewis Street Sewer	Parkdale Street	Near Magnus Avenue	Bartbolomew Burke	Filling & Sand	6'-0"	8"	260.0	....	.....	.....	.....	1	50.13	7	.....	.....	.....	0.04	.....	.....	58 17	Materials and Labor Furnished By Owner	68 17
Lewis Street Storm Drain	Parkdale Street	Near Magnus Avenue	Bartholomew Burke	Filling & Sand	5'-1"	8"	260.0	7	0.30	0.01	0.39	100 37		.....	100 37
Parkdale Street Sewer	Washington Street	Lewis Street	Denis I. Crimmings	Sand	7'-4"	8"	528.5	....	.....	.....	.....	3	Combi- nation	24	2.15	.....	0.33	0.06	0.09	2.90	1,530 45	1,500 00	30 45
Parkdale Street Storm Drain	Washington Street	Lewis Street	Denis I. Crimmings	Sand	6'-5"	10"	552.1	....	.....	.....	.....	.....	.....	23	0.28	.....	0.18	0.05	.....	0.71	393 50	.....	393 50
Upland Road Sewer	East of Hillsdale Road	Near Curtis Street	City—Day Labor	Gravelly Hardpan	7'-4"	8"	226.1	....	.....	.....	.....	2	Combi- nation	11	1.27	.....	0.50	0.04	.....	2.20	498 38	.....	498 38
Upland Road Storm Drain	East of Hillsdale Road	Near Curtis Street	City—Day Labor	Gravelly Hardpan	6'-5"	8"	226.1	....	.....	.....	.....	.....	.....	11	0.22	.....	0.47	0.03	.....	0.86	195 05	.....	195 06
Woods Avenue Sewer	Alewife Brook Parkway	Near North Street	Denis I. Crimmings	Gravelly Hardpan	7'-9"	8"	1059.5	4"	206.0	.....	.....	4	Combi- nation	78	1.48	0.20	0.36	0.06	0.05	2.16	2,288 28	2,288 28	.....
Woods Avenue Storm Drain	Alewife Brook Parkway	Near North Street	Denis I. Crimmings	Gravelly Hardpan	6'-10"	8"	1059.5	....	.....	6.5	7.00	.....	.....	78	0.20	.....	0.33	0.05	.....	0.74	786 61	.....	786 61
					.....	10"	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7011.6 (1.328 miles) Sewers and Storm Drains																				\$13,448 43	\$7,559 74	\$5,888 69	

Total length of public sewers in the city January 1, 1923 . . . = 506,214.2 feet
 Total length of private sewers in the city January 1, 1923 . . . = 34,748.0 feet
 Total length of sewers in the city January 1, 1923 . . . = 540,962.2 feet = 102.455 miles (32.206 miles sep-
 arate system sewers)
 Total length of storm drains in the city January 1, 1923 . . . = 65,849.2 feet = 12.471 miles
 Total length of the city drainage system January 1, 1923 . . . = 114.926 miles
 Total length of Metropolitan sewerage system mains in
 the city = 3.476 miles

TABLE I

	Name of the author	Title of the paper
1900	J. H. Poincaré	Sur la courbure des surfaces
1901	L. B. Sierpinski	Sur les courbes continues
1902	H. A. Schwarz	Über die Abbildung der Riemannschen Flächen
1903	P. Goursat	Sur les courbes algébriques
1904	G. Darboux	Sur les courbes gauches
1905	E. Cartan	Sur les courbes à courbure constante

THE UNIVERSITY OF CHICAGO
 DIVISION OF THE PHYSICAL SCIENCES
 DEPARTMENT OF MATHEMATICS
 5734 S. UNIVERSITY AVENUE
 CHICAGO, ILLINOIS 60637

By Boston & Maine Railroad Company on railroad locations	36 basins
By State, located in boulevards and highways	130 "
	166
Total catch basins in the city for storm drainage purposes	2,091

The "separate system" sewers should be extended in the older 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, including Morrison Avenue-Highland Road area and the B. and M. railroad valley; and at the East Cambridge line extending from the Somerville avenue sewer and discharging into Miller's River.

Sidewalk sewers in Mossland street should be constructed immediately and a section of the old sewer in Poplar street reconstructed, relieving the continuous blocking of house drains under existing conditions.

The city's drainage system will be greatly improved when all the foregoing changes are made and construction work completed.

MAINTENANCE ACCOUNT, STATEMENT OF EXPENDITURES, 1922.

Labor	\$12,222 25
Inspection	793 93
Teaming (includes \$199.76 Highway Dept. etc.)	10,463 95
Equipment and Supplies	412 64
Repairing property and tools	280 82
	\$24,173 59
Total Expenditure	

CLASSIFICATION OF EXPENDITURES.

Maintenance of sewers, including cleaning, flushing, supervision, etc. (114.9 miles)	\$5,008 53
Maintenance of catch basins, cleaning, and flushing, supervision etc. (1925)	14,980 31
Maintenance of storm water pump, Medford Street	157 65
Changing line and grade and repairing catch basins	868 81
Changing line and grade and repairing manholes	382 59
Repairing old sewers	708 41
Inspection and location of house drains	763 10
New tools and supplies	325 21

Repairs of tools and property	78 22	
Maintenance of sewer division yards	760 00	
Telephone (2)	74 89	
Labor, teaming and materials for other departments	65 87	
	<hr/>	
Cost of work done		\$24,173 59
Transfer to City Engineer Account		400 00
	<hr/>	
Total expenditures		\$24,573 59

CREDIT.

Appropriation	\$24,500 00	
Received from other departments	419 40	
	<hr/>	
Total credit		\$24,919 40
	<hr/>	
Balance unexpended		\$345 81

Value of tools and property on hand, maintenance of sewers, \$2,000.00.

John J. Foley, a faithful laborer for more than a quarter of a century in this division, who was retired on a pension the latter part of 1921, died August 30, 1922—the only person ever receiving a pension in the department.

A permanent force of men, varying in number from eight to thirteen per week, 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, storm drains and catch basins are added to the system, and the distance increased to the dumping places, which are fast diminishing, only two being available at present.

This question of scarcity of dumping places has confronted the city for some time and various schemes have been considered for efficient and economical methods of disposal but no feasible plan has been provided.

Approximately 4,000 cubic yards of material have been removed from the catch basins and hauled to dumps during the year, at an average cost of about \$3.00 per cubic yard (\$1.47 removal—\$1.53 teaming) and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$174.00. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning, flushing, and general maintenance per basin has been \$7.78 the past year.

A demonstration of machine cleaned catch basins was conducted for a period of five consecutive days—an auto-truck cleaning machine (“orange peel grab” lift equipment) removed material in less time than could be done by day labor, but the cost per cubic yard exceeded the hand work—the result being speedier cleaning.

A number of repairs have been made and sections rebuilt on some of the old sewers, alterations made in the outlets and overflows, and extra manholes built for the purpose of improving the system.

Many catch basins and manholes have been repaired and grade or line changed.

Three hundred and fifty-nine permits have been issued to licensed drain layers for connecting buildings with main sewers and storm drains; sixty-eight being for repairs, alterations or extensions, all of the work being done under the supervision of the city’s inspector.

Many of these repairs and alterations were made necessary by the growth of tree roots in the private drain pipe. In several cases, these private drains were relaid with iron pipe and lead joints, which is the type of construction recommended by this department, where drain connections have become stopped on account of tree roots.

Certain persons are licensed as drain layers by the city and are under bonds, for the purpose of laying and repairing these private drains:—none others are permitted to do this work.

Reference to data concerning each drain connection with the public sewer is on file in this office, and time and expense could be saved by the owner, by applying directly to this department for investigation and advice, where trouble exists.

Many car track catch basins and underground conduit manholes have been connected with the city’s drainage system.

There are to date about 16,892 private house drain connections with the city’s drainage system.

Extensive repairs have been made to the automatic machinery, tanks, copper floats, tide gates, etc., constructed and installed more than twenty-five years ago in brick masonry chambers, where the city’s mains are discharging into the state sewer.

A better system of grease traps should be installed in the premises of some of the larger manufacturing plants and rendering companies to prevent large amounts of grease and waste products from escaping into the city sewer mains and at various times has partially blocked sections of sewers—the past year a number of loads of heavy grease has been

scraped and removed from the sewers at a considerable expense.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies, furnishing material 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

The care, superintendance and management of the city's parks and public grounds is under the direction of the city engineer, who is also, at the present time, a member of the Public Welfare and Recreation Commission.

About seventy-four acres are maintained as parks and playgrounds and approximately a mile of city boulevard; 64 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 playfields during the summer vacation months, and skating areas in the winter. Approximately two thousand trees of various varieties are located on these grounds.

These areas when completely developed will compare favorably with other cities in the vicinity.

Some of the larger parks and playgrounds have been renamed in honor of Somerville young men who lost their lives in the World War.

The general maintenance of the grounds includes—mowing lawns, repairing and edging walks,—grading, rolling and keeping in condition baseball “diamonds,” football fields, tennis courts, and children's playing areas,—planting bulbs, flowers, trees, shrubs, and weeding, watering and pruning same,—plowing, harrowing and fertilizing school garden areas,—repairing city boulevard and park roads and treating with road application,—repairing and painting fences, backstops, flagpoles, settees, playground apparatus, drinking fountains, etc.—during the winter, removing snow from drives, walks, sanding when necessary, flooding ponds, artificial areas, hockey rinks and keeping same in condition for skating and playing of games.

The number of men employed has varied from seven to fifteen per week.

**MAINTENANCE ACCOUNTS, STATEMENT OF EXPENDITURES,
1922.**

Playgrounds		Parks
\$4,332 80	Labor	\$7,778 84
1,083 14	Teaming	903 52
788 58	Equipment — Improvement — Supplies	1,063 63
154 47	Repairing property and tools	446 07
136 48	Fountains and Bubblers—Maint. (Paid Water Dept)	358 69
	Trees — Plants — Floral Decorations	736 60
	Flagpoles — Flags — Painting	95 80
<hr/>		<hr/>
\$6,495 47	Total Expenditures	\$11,383 15

CLASSIFICATION OF EXPENDITURES.

Playgrounds and Recreation		Parks
\$ 444 41	Central Hill Park (13.1 acres)	\$2,534 67
583 58	Saxton C. Foss Park (formerly Broadway Park) (15.9 acres)	1,612 71
	Broadway Parkway (1.6 acres)	168 20
1,395 83	Lincoln Park (7.2 acres)	955 34
11 26	Prospect Hill Park (2.6 acres)	1,814 42
	Tufts Park (4.5 acres)	1,258 22
	Paul Revere Park (0.02 acre)	664 65
	Belmont Street Park (0.4 acre)	599 28
	Powder House Boulevard (0.9 mile long)	907 34
	Powder House Square Parkway (0.2 acre)	83 20
	Cemetery, Somerville Avenue (0.7 acre)	206 50
923 94	Dilboy Field (formerly Somerville Field) at Alewife Brook (11.5 acres)	448 82
680 91	Richard Trum Playground, Cedar street and Broadway (4.3 acres)	35 24
327 24	Playground, Glen street and Oliver street (0.9 acre + 1.5 acres private land)	11 78
827 81	Playground, Kent street and Somerville avenue (0.8 acre)	67 78
164 51	Playground, Poplar street and Joy street (0.5 acre)	14 00
10 00	Playground, Beacon street near Washington street (0.2 acre)	
174 36	Playground, Mason street and Broadway Tennis Court (0.3 acre)	
305 50	Playground, Fellsway East (2.5 acres private land)	
234 62	Tufts College Land, Summer and Winter Playground (5 acres)	
72 00	Plowing, harrowing and fertilizing Park and Playground areas for planting	

339 50	Plowing, harrowing, teaming, etc., for Welfare and Recreation Commission (Private Land)	
	Total expenditure, maintenance (73.7 acres)	
	64 acres city property + 9 acres private land, 0.7 acre cemetery and 0.9 mile boulevard, and 0.54 mile parkway roads	
<hr/>		<hr/>
\$6,495 47		\$11,383 15
300 00	Transfer to City Engineer Account	
<hr/>		
\$6,795 47		

CREDIT.

Playgrounds and Recreation		Parks
	Appropriation for Parks	\$11,450 00
\$6,510 00	Appropriation for Playgrounds	
299 50	Received from Public Welfare and Recreation Commission	
40 25	Received from Celebrations Account	
<hr/>		<hr/>
\$6,849 75	Total Credit	\$11,450 00
<hr/>		<hr/>
\$54 28	Balance unexpended	\$66.85

The city's assessment for Metropolitan parks and boulevards for the year 1922 amounted to \$18,387.91 on construction account, and \$42,998.76 being the proportional cost for maintenance and operation; in addition to this the city's special assessment for the Charles River basin construction and maintenance amounted to \$8,923.72; for the improvement of Alewife Brook and maintenance of same \$1,083.37 and for the maintenance of Wellington Bridge across Mystic River, \$3,352.75. The total of these assessments amounts to \$74,746.51, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1922.

The total assessment paid to the State for parks and boulevards amounts to \$990,273.74, January 1, 1923 and the length of State boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, located in the easterly part of the city and extending between Broadway and Mystic River, and one and two-tenths miles bordering Mystic River and Alewife Brook located in the westerly part of the city.

A special state commission has been appointed to report a route and estimated cost of constructing a cross-town boulevard and traffic road which will probably pass through the easterly part of this city.

A number of young maple trees have been planted on the Powder House Boulevard where the old poplars were uprooted, broken and split during terrific wind, rain and ice storms, the abutting property owners paying for the trees, this department the planting—new hardy growth trees should replace the old poplar trees the entire length of the boulevard immediately. A section of this boulevard where the roadway has deteriorated, about 2,800 feet in length, should be reconstructed with an asphaltic macadam wearing surface (no reconstruction work having been done since the original construction in 1901.)

Paul Revere Park, occasionally termed the smallest park in the world, has been improved—inside granite curbing was set, on top of this a low iron fence was erected and granolithic sidewalk constructed; this area should be enlarged by acquiring additional land and constructing a passageway across from Main street to Broadway, separating the city's park from the adjoining land, thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

This division has had the supervision and work of plowing, harrowing, and preparing various parcels of private land and park areas for planting purposes, at a cost of \$411.50, and many school children have devoted their time and energies to the raising of vegetables.

Athletics in general have been very active since the war and the baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have been in constant use.

During the Daylight Saving period "twilight" baseball has been exceedingly popular, practically all of the city's fields being used, and at Lincoln Park games were scheduled for every evening during the season with crowds in attendance. Approximately 500 games were scheduled on the city's playfields during the year.

Special supervision was provided by the Welfare and Recreation Commission during the months of July and August, especially for the children's activities, to make the playgrounds popular and successful.

Additional seats have been erected at Lincoln Park and Trum Playground and hockey rinks of regulation size were constructed in the winter season.

Shower baths have been maintained 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; more of these baths should be established at the various fields. Wading pools for the children have been

maintained at these two places;—probably a new field house and public comfort station will be erected the coming year on Trum Playground, eliminating the use of the stable building.

Tennis courts have been in use at Mason Street playground, Dilboy 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 enclosed athletic field bordering Alewife Brook, a permanent concrete field house should be constructed with all modern equipment (about \$10,000 is available at the present time) and the remaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed complete laying out).

The Mason street tennis lot, corner of Broadway, is to be sold to private parties for building purposes and the money received for same used in grading the proposed new playground area situated between Broadway and Holland street; located on the south-westerly part of this area, the Western Junior High School building is just being completed. There seems to be a growing demand for recreation fields to be located at the school buildings for the use of school athletics.

The city has become so densely populated (averaging nearly 25,000 people a square mile) 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 and shelters 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.

A splendid opportunity exists at the present time to establish a good sized recreation field for the East Somerville and Winter Hill districts by developing the northeasterly end of Foss Park, (formerly Broadway Park) the city owns the land, so that any expenditure made would be wholly for construction purposes. The area of this park is approximately 16 acres, and the topography has not been changed in 50 years time, (the enclosed area of the athletic field, bordering

Alewife Brook, in the westerly part of the city is about 5 acres).

A plan has been made showing a re-designing and new layout of Foss Park area which would be, when completely constructed, an additional playfield and beneficial in a number of ways for the easterly part of the city.

In connection with the departmental work the Welfare and Recreation 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's and Association reports).

The total expenditure by the city departments and other Associations for recreation and play the past year has been approximately \$20,000.00.

APPENDED TABLE.

Annexed to this report is a table giving names of all streets in the city, public and private, lengths, widths, and the total mileage; in the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city.

Respectfully submitted,

ERNEST W. BAILEY,

City Engineer.

TABLE SHOWING THE LOCATION, LENGTH AND WIDTH OF PUBLIC AND PRIVATE STREETS.

Street	From	To	Public or Private.	Width in Feet.	Length.	
					Public	Private
Abdell	Somerville ave	Southwesterly	Private.	25	.....	203
Aberdeen road	Cedar st.	Highland ave.	Public.	40	449	.....
Aberdeen rd. ex.	Angle	Westerly	Private.	30	.....	67
Acadia pk.	Somerville ave	Northeasterly	Public.	40	256	.....
Adams	Broadway	Medford st.	Public.	40	907	.....
Adelaide rd	Somerville ave	Northeasterly	Private.	20	.....	138
Adrian	Marion st.	Joseph st.	Public.	40	579	.....
Albion pl.	Albion st.	Northeasterly	Private.	10	.....	166
Albion ct.	Albion st.	Southeasterly	Private.	16	.....	116
Albion	Central st.	Cedar st.	Public.	40	2,742	.....
Albion	Broadway	Medford line	Private.	50	.....	100
Albion ter.	Albion st.	Southwesterly	Public.	25	100	.....
Aldersey	Walnut st.	Vinal ave.	Public.	40	508	.....
Aldrich	Pearl st.	B. & L. R. R.	Public.	40	611	.....
††Alewife Brk pky	Mystic Val. pky	Cambridge line	Public.	.....	4,775	.....
Alfred	Broadway	Medford line	Private.	50	.....	50
Allen	Somerville ave	Charlestown st.	Public.	25	644	.....
Allen ct	Park st.	Northwesterly	Private.	20	.....	150
Alpine	Cedar st.	Southeasterly	Public.	30	667	.....
Alpine	Alpine st.	Lowell st.	Public.	40	688	.....
Alston	Cross st.	Shawmut st.	Public.	40-30	757	.....
Ames	Bartlett st.	Robinson st.	Public.	40	580	.....
Appleton	Willow ave.	Liberty ave.	Public.	40	668	.....
Arlington	Franklin st.	Lincoln st.	Public.	40	452	.....
Arnold ave	Porter st.	Southeasterly	Private.	15	.....	127
Arnold ct.	Beacon st.	Northeasterly	Private.	10	.....	115
Arthur ct.	Linden st.	Easterly	Private.	about 10	.....	100
Arthur	Broadway	Bonair st.	Public.	40	438	.....
Ash ave.	Meacham st.	East Albion st.	Public.	40	554	.....
Ash ave.	East Albion st.	Northeasterly	Private.	40	.....	151
Ashland	Summer st.	Sartwell ave.	Public.	30	478	.....
Atherton	Central st.	Spring st.	Public.	40	741	.....
Auburn ave.	Cross st.	B. & L. R. R.	Public.	30	606	.....
Austin	Broadway	Mystic ave.	Public.	40	716	.....
Autumn	Broadway	Bonair st.	Public.	20	408	.....
Avon	School st.	Central st.	Public.	40	1,360	.....
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	.....	150
Bailey	North st.	West Adams st.	Public.	40	420	.....
Banks	Elm st.	Summer st.	Public.	40	639	.....
Bartlett	Vernon st.	Broadway	Public.	40	1,550	.....
Barton	Broadway	Hamilton road	Public.	40	382	.....
Bay State ave.	Broadway	Foskett st.	Public.	40	1,237	.....
Beach ave.	Webster ave.	Columbia st.	Private.	about 20	.....	200
Beacon pl.	Beacon st.	Northeasterly	Private.	15	.....	200
Beacon	E. Cambridge line	Somerville ave.	Public.	66	6,007	.....
Beacon ter.	Somerville ave.	Northeasterly	Private.	24	.....	110
Bean ter.	Cutter st.	Southeasterly	Private.	16	.....	100
Beckwith circle	Beacon st.	Southwesterly	Private.	28.5	.....	112
Bedford	South st.	Cambridge line	Public.	30	165	.....
Beech	Somerville ave.	Atherton st.	Public.	40	323	.....
Belknap	Broadway	Hamilton road	Public.	40	449	.....
Bellevue ter.	Albion st.	Northeasterly	Private.	20	.....	90
Belmont	Somerville ave	Highland ave.	Public.	40	2,192	.....
Belmont pl.	Belmont st.	Southeasterly	Public.	25	177	.....
Belmont sq.	Belmont st.	Southeasterly	Public.	30	75	.....
Belmont sq.	End of above	N. E. & S. W.	Public.	20	145	.....
Belmont ter.	Belmont st.	Easterly	Private.	15	.....	137
Benedict ave.	Broadway	Benedict st.	Private.	20	.....	200
Benedict	Union st.	Austin st.	Public.	40	585	.....
Bennett ct.	Bennett st.	Prospect st.	Private.	10	.....	100
Bennett	Prospect st.	Bennett ct.	Private.	40 to 25	.....	400
Benton road	Summer st.	Hudson st.	Public.	40	1,208	.....
Berkeley	School st.	Central st.	Public.	40	1,360	.....
Berwick	Hinckley st.	Northwesterly	Private.	20	.....	170
Bigelow	Boston st.	Munroe st.	Public.	50	208	.....
Billingham	Broadway	William st.	Public.	40	563	.....

††Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private	
				Public	Private	Public	Private
Bishop's pl.	Glen st.	Easterly	Private.	10	....	....	75
Blakeley ave.	Fellsway east	Cross st.	Private.	40	....	....	680
Bleachery ct.	Somerville ave.	Fitchburg R.R.	Private.	30	....	....	450
Bolton	Oak st.	Houghton st.	Public.	40	....	....	476
Bonair	Cross st.	Walnut st.	Public.	40	1,535	....	....
Bond	Broadway	Jaques st.	Public.	40	....	....	655
Bonner ave.	Washington st.	Columbus ave.	Public.	40	....	....	376
Boston ave.	Medford line	Mystic river	Public.	60	....	....	915
Boston ave.	Broadway	Medford line	Public.	50	....	....	80
Boston ave.	Broadway	Highland road	Public.	65	....	....	287
Boston ave.	Highland road	Prichard ave.	Public.	50	....	....	509
Boston ave.	Prichard ave.	East to angle in street	Private.	50	....	....	146
Boston ave.	Angle in st. s'ly	Kidder ave.	Private.	40	....	....	376
Boston ave.	Kidder ave.	Morrison ave.	Public.	40	....	....	649
Boston	Washington st.	Prosp't Hill av.	Public.	45	....	....	640
Boston	Prosp't Hill av.	Walnut st.	Public.	40	1,242	....	....
Bow	Union sq.	Wesley sq.	Public.	60	....	....	658
Bow	Wesley sq.	Somerville ave.	Public.	50	....	....	570
Bowdoin	Washington st.	Lincoln park	Public.	40	....	....	341
Bowers ave.	Cottage ave.	Elm st.	Private.	24	....	....	288
Bow St. pl.	Bow st.	Northwesterly	Private.	40	....	....	300
Bradford ave.	School st.	Southeasterly	Private.	40	....	....	150
Bradley	Pearl st.	Walter st.	Public.	40	....	....	762
Braemore road	Broadway	Medford line	Private.	40	....	....	9
Brastow ave.	Lowell st.	Porter st.	Public.	40	....	....	686
Bristol road	Broadway	Medford line	Public.	40	....	....	146
Broadway	Charlest'n line	Cross st.	Public.	100	2,590	....	....
Broadway	Cross st.	Marshall st.	Pub.	100 to 200	2,060	....	....
Broadway	Marshall st.	Main st.	Public.	100	1,570	....	....
Broadway	Main st.	Top of hill	Public.	100 to 90	1,030	....	....
Broadway	Top of hill	Albion st.	Public.	90	2,540	....	....
Broadway	Albion st.	Willow ave.	Public.	90 to 70	1,030	....	....
Broadway	Willow ave.	Paulina st.	Public.	70	3,250	....	....
Broadway	Paulina st.	Arlington line	Public.	65-60-65	3,220	....	....
Broadway pl.	Broadway	Southwesterly	Private.	22	....	....	250
Bromfield road	Warner st.	Dearborn road	Public.	40	1,262	....	....
Brook	Glen st.	Cross st.	Public.	40	....	....	504
Browning road	Sycamore st.	Central st.	Public.	40	....	....	679
Buckingham	Beacon st.	Dimick st.	Public.	40	....	....	292
Buena Vista rd.	Holland st.	Southwesterly	Private.	35	....	....	276
Burnham	Broadway	Pow. House Bl.	Public.	40	....	....	543
Burnside ave.	Elm st.	Summer st.	Public.	40	....	....	720
Cady ave.	Simpson ave.	Northwesterly	Private.	40	....	....	208
Caldwell ave.	Washington st.	Southerly	Private.	20	....	....	210
Calvin	Beacon st.	Dimick st.	Public.	40	....	....	263
Calvin	Dimick st.	Washington st.	Public.	30	....	....	392
Cambria	Central st.	Benton road	Public.	40	....	....	488
Cameron ave.	Holland st.	Cambridge line	Public.	60	1,065	....	....
Campbell pk.	Meacham rd.	Kingston st.	Public.	40	....	....	399
Campbell Pk. pl.	Kingston st.	Arl'ton Br. R.R.	Private.	20	....	....	84
Carlton	Somerville ave.	Lake st.	Public.	40	....	....	300
Carter terrace	Summer st.	Southwesterly	Public.	40	....	....	171
Carter terrace	Accepted part	Southwesterly	Private.	18+	....	....	43
Caruso pl.	Medford st.	Easterly	Private.	10	....	....	110
Carver	Porter st.	Northwesterly	Private.	40	....	....	156
Cedar ave.	Cedar st.	Linden ave.	Public.	22	....	....	293
Cedar ct.	Cedar st.	Southeasterly	Private.	15+	....	....	70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20	....	....	378
Cedar St. pl.	Cedar n Elm st.	Southeasterly	Private.	12+	....	....	80+
Cedar	Elm st.	Broadway	Public.	40	4,137	....	....
Central road	Central st.	E'y and N'y	Public.	40	....	....	377
Central road	Central road	Sycamore st.	Public.	30 to 15	....	....	221
Central	Somerville ave.	Summer st.	Public.	33	1,043	....	....
Central	Summer st.	Medford st.	Public.	40	2,539	....	....
Central	Medford st.	Broadway	Public.	45	1,079	....	....
Centre	Albion st.	B. & L. R. R.	Private.	35	....	....	200
Chandler	Park ave.	Broadway	Public.	40	1,232	....	....
Chapel	College ave.	Chandler st.	Public.	40	....	....	273
Chapel ct.	Sycamore st.	Northwesterly	Private.	12	....	....	180
Charles	Washington st.	Northerly	Public.	30	....	....	166

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private	
				Public	Private	Public	Private
Charlestown	Allen st.	Merriam st.	Private.	15	....	409	....
Charnwood rd.	Willow ave.	Hancock st.	Public.	40	589	....	....
*Chelsea	Mystic ave.	Melrose st.	Private.	50	....	1,390	....
Cherry	Elm st.	Highland ave.	Public.	45	1,450	....	....
Cherry	Highland ave.	Northeasterly	Private.	45	....	110	....
Chester	Elm st.	Cambridge line	Public.	40	385	....	....
Chester ave.	Medford st.	Angle	Public.	about 22	220	....	....
Chester ave.	Angle	Cross st.	Public.	20	451	....	....
Chester pl.	Chester st.	Northwesterly	Private.	40	....	200	....
Chestnut	Poplar st.	Southeasterly	Public.	40	537	....	....
Chetwynd road	Curtis st.	West Adams st.	Private.	40	....	892	....
Church	Summer st.	Lake st.	Public.	40	964	....	....
City road	Broadway	Cedar st.	Private.	45	....	980	....
Claremon	Holland st.	Mead st.	Public.	40	560	....	....
Clarendon ave.	Broadway	Cambridge line	Public.	40	1,217	....	....
Clark	Newton st.	Lincoln pky.	Public.	35	552	....	....
Cleveland	Central st.	Harvard st.	Public.	40	459	....	....
Clifton	Appleton st.	Morrison ave.	Public.	40	200	....	....
Clifton	Morrison ave.	Arlngtn Br. RR	Private.	40	....	220	....
Clyde	Cedar st.	Murdock st.	Public.	30	664	....	....
College ave.	Davis sq.	Medford line	Public.	60	4,080	....	....
College Cir.	College av. around	to College av.	Private.	10 and 12	....	284	....
College Hill rd.	Conwell ave.	North st.	Public.	40	449	....	....
Columbia	Webster ave.	Cambridge line	Public.	40	816	....	....
Columbia ct.	Columbia st.	Webster ave.	Private.	9	....	150	....
Columbus ave.	Washington st.	Walnut st.	Public.	40	1,425	....	....
Concord ave.	Prospect st.	Wyatt st.	Public.	40	1,483	....	....
Concord ave.	Wyatt st.	Beacon st.	Public.	30	472	....	....
Congress pl.	Somerville ave.	Linwood st.	Public.	50	202	....	....
Conlon ct.	Columbia st.	Easterly	Private.	20	....	200	....
Connecticut av.	Mystic ave.	Penn. ave.	Public.	40	487	....	....
Conwell ave.	Curtis st.	North st.	Public.	40	1,346	....	....
Conwell	Highland ave.	Southwesterly	Public.	35	363	....	....
Cooney	Beacon st.	Line st.	Public.	30	245	....	....
Corinthian road	Broadway	Cady ave.	Private.	40	....	560	....
Cottage ave.	Russell st.	Chester st.	Public.	40	550	....	....
Cottage circle	Cottage ave.	Southwesterly	Private.	25	....	87	....
Cottage pl.	Washington st.	Northwesterly	Private.	about 11	....	150	....
Craigie	Somerville ave.	Summer st.	Public.	50	1,280	....	....
Craigie ter.	16 Craigie st.	Westerly	Private.	25	....	126	....
Crescent	Boston line	Hadley st.	Public	30 and 22	387	....	....
Crescent	Hadley st.	Pearl st.	Public.	30	174	....	....
Crocker	Highland ave.	Crown st.	Public.	40	528	....	....
Cross	Medford st.	Broadway	Public.	45	2,680	....	....
Cross st. (East)	Broadway	Mystic ave.	Public.	40	1,100	....	....
Cross St. pl.	Cross st.	Northwesterly	Private.	24	....	150	....
Crown	Porter st.	Lowell st.	Private.	30	....	700	....
*Cummings	Fellsway	Middlesex ave.	Private.	40	....	625	....
Curtis ave.	Curtis st.	Hillsdale road	Public.	40	654	....	....
Curtis	Broadway	Medford line	Public.	40	2,357	....	....
Cutler	Hinckley st.	Northwesterly	Private.	20	....	170	....
Cutter ave.	Summer st.	Highland ave.	Public.	40	480	....	....
Cutter pk.	Cutter ave.	Northwesterly	Private.	12	....	83	....
Cutter	Broadway	Webster st.	Public.	40	730	....	....
Cypress	Central st.	Beech st.	Public.	40	262	....	....
Dana	Pearl st.	Bonair 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	Pearl st.	Aldrich 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	....	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private
				Public	Private	
Dix pl.	Linwood st.	Southwesterly	Private.	10	....	100
Douglas ave.	Edgar ave.	Southeasterly	Private.	30	....	162
Dover	Elm st.	Cambridge line	Public.	40	975	....
Dow	Powder House Bd.	Ware st.	Private.	40	....	257
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 st.	Private.	25	....	188
East Albion	E. of Moreland st.	Medford line	Private.	40	....	490
Eastman road	Highland ave.	Southwesterly	Public.	40	296	....
Edgar ave.	Main st.	Meacham st.	Private.	50	....	800
*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	Ellington road	Southeasterly	Private.	30	....	265
Ellsworth	Cross st.	Rush st.	Public.	40	230	....
Elm ct.	Villa ave.	Northwesterly	Private.	18	....	70
Elm pl.	Harvard st.	Westerly	Private.	30	....	190
Elm road	Elm st.	Northeasterly	Private.	25	....	183
Elm	Somerville ave.	Cherry st.	Public.	63	1,672	....
Elm	Cherry st.	White st.	Public.	63 to 60	330	....
Elm	White st.	Banks st.	Public.	60	660	....
Elm	Banks st.	Beech st.	Public.	60 to 77.5	290	....
Elm	Beech st.	Tenney st.	Public.	77.5 to 60	570	....
Elm	Tenney st.	Davis sq.	Public.	60	1,429	....
Elmwood	Holland st.	Cambridge line	Public.	40	1,057	....
Elmwood ter.	Elmwood st.	Easterly	Private.	20	....	190
Elston	Elm st.	Summer st.	Public.	40	396	....
Emerson	Everett st.	Newton st.	Private.	30	....	170
Emdicott ave.	Broadway	Woodstock st. (Ext'n)	Private.	40	....	800
Essex	Medford st.	Richdale ave.	Public.	40	232	....
Eustis	Beacon st.	Cambridge line	Public.	30	146	....
Everett ave.	Cross st.	Dana st.	Public.	40	845	....
Everett	Webster ave.	Newton st.	Private.	30	....	350
Evergreen ave.	Marshall st.	Sycamore st.	Public.	40	1,320	....
Evergreen sq.	Porter st.	Southeasterly	Private.	22	....	179
Exchange pl.	Washington st.	Southerly	Private.	4.5	....	70
*Fairfax	North st.	Powder House Blvd.	Private.	40	....	915
Fairlee	Cherry st.	Northwesterly	Public.	30	144	....
Fairmount ave.	Curtis st.	Northwesterly	Public.	40	679	....
Fairview ter.	Sycamore st.	Southwesterly	Private.	15	....	173
Farragut ave.	Broadway	Woodstock st. (Ext'n)	Public.	40	905	....
††Fellsway	Mystic ave.	Mystic river	Public.	70 to 130	2,500	....
††Fellsway east (Winthrop ave.)	Broadway	Mystic ave.	Public.	50	1,222	....
††Fellsway West (Chauncey ave.)	Broadway	Mystic ave.	Public.	50	1,324	....
Fennell	Hinckley st.	Northwesterly	Private.	20	....	175
Fenwick	Broadway	Jaques st.	Public.	40	601	....
Fisk ave.	Lowell st.	Hinckley st.	Public.	20	484	....
Fitchburg ct.	Fitchburg st.	Southeasterly	Private.	10	....	225

*Proposed.

††Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private
				Public	Private	
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
Foskett	Willow ave.	Liberty ave.	Public.	40	668	....
Fountain ave.	Cross st.	Glen st.	Public.	30	573	....
Francesca ave.	College ave.	Liberty ave.	Public.	40	762	....
Francis	Porter st.	Conwell st.	Public.	30	180	....
Franklin ave.	Washington st.	Franklin st.	Public.	20	575	....
Franklin pl.	Franklin st.	Southeasterly	Private.	15	....	100
Franklin	Broadway	Washington st.	Public.	40+	2,316	....
Fremont ave.	Bowdoin st.	Lincoln pk.	Public.	30	232	....
Fremont	Main st.	Nr E. Albion st	Public.	40	1,112	....
Fremont	Nr E. Albion st	Mystic ave.	Private.	40	....	335
Garden ct.	Somerville ave.	Fitchburg R. R.	Private.	25	....	370
Garfield ave.	Broadway	Blakeley ave.	Public.	40	447	....
Garfield ave.	Blakeley ave.	Middlesex ave.	Private.	40	....	983
Garrison ave.	Broadway	Land of City of Camb.	Public.	40	460	....
Garrison ave.	Land City of Camb.	Woodstock st. (Ext'n)	Private.	40	....	390
George	Broadway	Lincoln ave.	Public.	30	275	....
Gibbens	Central st.	Benton rd, w'ly	Public.	40	665	....
Giles pk.	Walnut st.	Northwesterly	Public.	32.71	167	....
Gill's ct.	Franklin st.	Westerly	Private.	10	....	100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	....
Gilman ter.	Pearl st.	Northeasterly	Public.	40	360	....
Gilson ter.	Linden ave.	Northwesterly	Private.	20	....	124
Glen	Broadway	Tufts st.	Public.	40	2,373	....
Glendale ave.	Cameron ave.	Yorktown st.	Public.	40	410	....
Glenwood road	Vernon st.	Broadway	Public.	40	1,524	....
Glover circle	Meacham road	Southeasterly	Private.	20	....	110
Gordon st.	North st.	Alewife Brk Pky	Public.	40	1,254	....
Gorham	Holland st.	Howard st.	Public.	40	763	....
Gould ave.	Porter st.	Southeasterly	Private.	16	....	156
Gove ct.	Cedar st.	Southeasterly	Private.	18	....	144
Grand View av	Walnut st.	Vinal ave.	Public.	40	542	....
Granite	Somerville ave.	Osgood st.	Public.	40	411	....
Grant	Broadway	Mystic ave.	Public.	40	1,405	....
Greene	Summer st.	Laurel st.	Public.	40	555	....
Greenville	Medford st.	Munroe st.	Public.	40	660	....
Greenville ter.	Greenville st.	Northerly	Private.	20	....	250
Greenwood ter.	Beacon st.	Northeasterly	Private.	25	....	165
Gritter way	College ave.	Bromfield rd.	Private.	4	....	160
Grove	Elm st.	Morrison ave.	Public.	40	996	....
Hadley ct.	Franklin st.	Westerly	Private.	16	....	74
Hall ave.	College ave.	Liberty ave.	Public.	40	926	....
Hall	Cedar st.	Cherry st.	Public.	30	456	....
Hamlet	Highland ave.	Boston st.	Public.	30	616	....
Hamilton road	Russell road	North st.	Public.	40	560	....
Hammond	Dickinson st.	Concord ave.	Public.	40	267	....
Hancock	Elm st.	Highland ave.	Public.	40	1,349	....
Hancock	Highland ave.	Lexington ave.	Public.	50	376	....
Hanson ave.	Hanson st.	Easterly	Private.	30	....	252
Hanson	Washington st.	Skehan st.	Public.	30	469	....
Hanson	Skehan st.	Vine st.	Public.	35	347	....
Hardan road	Pow. House Bd.	Ware st.	Private.	20 and 40	....	283
Harding	No. of Ward st.	Cambridge line	Public.	30	465	....
Harold	Dimick st.	Marion st.	Public.	40	316	....
Harold st.	Woods ave.	Medford Line	Private.	40	....	248
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	....

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length
			or Private	in Feet	Public Private
Hayden ter.	Linden ave.	Easterly	Private.	20	.... 120
Heath	Temple st.	Bond st.	Public.	45	1,043
Heath	Bond st.	Moreland st.	Public.	40	754
Henderson	Richardson st.	B. & L. R. R.	Public.	20	569
Hennessy ct.	Medford st.	Fisk ave.	Private.	20	.... 250
Henrietta ct.	Somerville ave.	Northerly	Private.	8 and 20	.... 161
Henry ave.	Highland ave.	Lexington ave.	Public.	40	290
Herbert	Chester st.	Day st.	Public.	40	337
Hersey	Berkeley st.	Oxford st.	Private.	40	.... 230
Higgins ct.	Mt. Vernon st.	Westerly	Private.	16	.... 149
High	North st.	Pow. House Bd	Private.	40	.... 678
Highland ave.	Medford st.	Davis sq.	Public.	60	9,135
Highland path, east	Morrison ave.	Arlington Br. R. R.	Private.	10	.... 107
Highland path, west	Morrison ave.	Arlington Br. R. R.	Private.	10	.... 108
†Highland rd.	Morrison ave.	Boston ave.	Pub. 30(70wide)	1,499	....
Hill	Broadway	Fairmount ave.	Public.	40	284
Hillsdale rd.	Conwell ave.	Sunset rd.	Public.	40	632
Hillside ave.	Pearl st.	Southwesterly	Private.	30	.... 150
Hillside cir.	Craigie st.	Westerly	Private.	16	.... 151
Hillside pk.	Walnut st.	Northwesterly	Public.	40	196
Hinckley	Broadway	B. & L. R. R.	Public. 30 and 35	1,081	....
Hodgdon pl.	Dane ave.	Northeasterly	Private. about 20	....	150
Holland	Davis sq.	Broadway	Public.	60	2,696
Holt's ave.	Oak st.	Southeasterly	Private.	10	.... 100
Holyoke road	Elm st. around	to Elm st.	Public.	40	637
Homer sq.	Bonner ave.	Northwesterly	Public.	30+	200
Horace	South st.	Fitchburg R. R.	Public.	30	517
Houghton	Springfield st.	Cambridge line	Public.	40	653
Howard	Thorndike st.	Gorham street	Public.	40	431
Howe	Marshall st.	School st.	Public.	40	445
Hudson	Central st.	Cedar st.	Public.	40	2,760
Hunting	South st.	Cambridge line	Public.	30	117
Ibbetson	Somerville ave.	Lowell st.	Public.	40	802
Illinois ave.	Broadway	Penn. ave.	Public.	40	427
Indiana ave.	Broadway	Penn. ave.	Public.	40	384
Irving	Holland st.	Broadway	Public.	40	1,180
Ivaloo	Beacon st.	Park st.	Public.	40	685
James	Pearl st.	Radcliffe road	Public.	40	320
Jaques	Fellsway west	Temple st.	Public.	40	1,182
Jaques	Temple st.	Bond st.	Public.	45	1,005
Jaques	Bond st.	Edgar ave.	Publj.	40	395
Jasper pl.	Walnut st.	Easterly	Private.	20	.... 80
Jasper	Pearl st.	Gilman st.	Public.	40	283
Jay	Holland st.	Howard st.	Public.	40	534
Jerome ct.	Sycamore st.	Jerome st.	Private.	10	.... 150
Jerome	Montrose st.	Jerome ct.	Private.	20	.... 125
Jerome	Lawrence rd.	Mystic Val. py	Private.	40	.... 495
Joseph	Newton st.	Lincoln pky	Public.	40	458
Josephine ave.	Morrison ave.	Broadway	Public.	45	1,718
Joy	Washington st.	Poplar st.	Public.	30	1,121
Joy St. pl.	Joy st.	Southwesterly	Private.	16	.... 168
Kenneson road	Broadway	Walnut road	Private.	30	.... 338
Kensington av.	Broadway	Blakeley ave.	Public.	40	455
*Kensington av	Blakeley ave.	Middlesex ave.	Private.	40	.... 1,150
Kent ct.	Kent st.	Northerly	Private. about 25	....	420
Kent	Somerville ave.	Fitchburg R. R.	Public.	40	292
Kent	Fitchburg R. R.	Beacon st.	Public.	25	386
Kenwood	College ave.	Billingham st.	Public.	40	322
Kidder ave.	College ave.	Boston ave.	Public.	40	2,554
Kilby	Somerville ave.	Southwesterly	Private.	20	.... 180
Kilsyth road	Broadway	Medford line	Private.	40	.... 5
Kimball	Lowell st.	Craigie st.	Private.	40	.... 303
Kingman road	Washington st.	Fitchburg R. R.	Private.	25	.... 400
Kingston	Meacham road	Cambridge line	Public.	40	647

*Proposed.

†Roadway (only) accepted 30 feet wide, full width of street 70 feet.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width	Length	
			or Private	in Feet	Public	Private
Knapp	School st.	Granite st.	Public.	40	379	....
Knowlton	Tufts st.	N'E' line Est. 31	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	Professors row	Talbot ave.	Private.	60	....	250
Laurel ave.	Laurel st.	Northwesterly	Private.	18	....	125
Laurel	Somerville ave.	Summer st.	Public.	40	983	....
Laurel ter.	Laurel st.	Southeasterly	Private.	23	....	256
Lawrence road	Medford line	Mystic Val. py	Private.	40	....	585
Lawson ter.	Putnam st.	Easterly	Private.	5	....	200
Lee	Medford st.	Richdale ave.	Public.	40	385	....
Leland	Washington st.	Dane ave.	Public.	40	359	....
Leon	Concord ave.	Dickinson st.	Public.	40	155	....
Leonard pl.	Joy st.	Northeasterly	Private.	13+	....	98
Leonard	Broadway	Pow. House Bd.	Public.	40	450	....
Lesley ave.	Highland ave.	Lexington ave.	Public.	40	333	....
Leslie pl.	Highland ave.	Northerly	Private.	12	....	75
Lester ter.	Meacham road	Northwesterly	Private.	20	....	190
Levy road	Washington st.	Camb. Line	Private.	40	....	390
Lewis	Magnus ave.	Easterly	Private.	40	....	416
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	....
Lexington ave.	Hancock st.	Angle	Public.	45 to 40	147	....
Lexington ave.	Angle	Cedar st.	Public.	40	578	....
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	....
Liberty rd.	Morrison ave.	Liberty ave.	Private.	16	....	200
Lincoln ave.	Lincoln st.	Mt. Vernon st.	Public.	30	478	....
Lincoln pky	Washington st.	Perry st.	Public.	40	1,520	....
Lincoln pl.	Lincoln ave.	Northerly	Private.	9	....	120
Lincoln	Broadway	Perkins st.	Public.	40	550	....
Linden ave.	Elm st.	Cedar ave.	Public.	45	1,413	....
Linden circle	Linden ave.	Southeasterly	Private.	24	....	120
Linden pl.	Linden ave.	Northwesterly	Private.	20	....	160
Linden	Somerville ave.	Charlestown st.	Public.	33	587	....
Line	Washington st.	Cambridge line	Public.	33	1,727	....
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15	....	200
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12	....	150
Linwood	Washington st	Fitchburg st.	Public.	50	2,114	....
London	Linwood st.	B. & L. R. R.	Private.	40	....	340
Loring	Somerville ave.	Osgood st.	Public.	40	413	....
Louisburg pl.	Autumn st.	Easterly	Private.	13	....	90
Lovell	Broadway	Electric ave.	Public.	40	385	....
Lowden ave.	Broadway	Foskett st.	Public.	40	1,247	....
Lowell	Somerville ave.	Summer st.	Public.	36	1,259	....
Lowell	Summer st.	Medford st.	Public.	40	3,472	....
Lowell circle	Lowell st.	Westerly	Priv. 11 and 27.5	....	....	143
Lowell ter.	Lowell st.	Northwesterly	Private.	20	....	150
Madison	School st.	Sycamore st.	Public.	40	891	....
Magnus ave.	Washington st.	Lewis st.	Public.	40	429	....
Magnus ave.	Lewis st.	Southerly	Private.	40	....	80
Main	Broadway	Medford line	Public.	50	966	....
Maine ave.	Mystic ave.	Penn. ave.	Public.	40	379	....
Maine ter.	Maine ave.	Southeasterly	Public.	32	205	....
*Malden	Mystic ave.	Melrose st.	Private.	50	....	1,360
Mallet	Willow ave.	Liberty ave.	Public.	40	657	....
Malloy ct.	Somerville ave.	Merriam ave.	Private.	30	....	255
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	....
Mansfield	Somerville ave.	Washington st.	Public.	40	735	....
Maple ave.	School st.	Southeasterly	Public.	40	319	....
Maple pl.	Marshall st.	Maple ave.	Private.	5	....	125
Maple	Poplar st.	Medford st.	Public.	30	699	....
Mardel circle	Spring st.	Northwesterly	Private.	8	....	140
Marion	Concord ave.	Dimick st.	Public.	40	1,141	....
Marshall	Broadway	Pearl st.	Public.	40	1,650	....
Mason	Broadway	Pow. House Bd.	Public.	40	681	....
May pl.	Hawkins st.	Easterly	Private.	12	....	100

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
McCarroll ct.	Clyde st.	Southwesterly	Private.	25	....	75
McGregor ave.	Wigglesworth st.	Walnut st.	Private.	13	....	302
Meacham road	Dover st.	Cambridge line	Public.	40	1,060	....
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	....
Mead st.	Moore st.	N'r Cameron av	Public.	40	345	....
Mead st.	End of above	Cameron ave	Private	40	....	95
Medford	Cambridge line	Central st.	Public.	50	8,047	....
Medford	Central st.	Broadway	Public.	55	1,985	....
Melrose	Mystic ave.	Fellsway	Private.	50	....	2,310
Melvin	Broadway	Bonair st.	Public.	40	487	....
Merriam ave.	Merriam st.	Malloy ct.	Private.	15	....	255
Merriam	Washington st.	Somerville ave.	Public.	40	360	....
Merriam	Somerville ave.	Charlestown st.	Public.	30	510	....
Michigan ave.	Broadway	Penn. ave.	Public.	40	470	....
†Middlesex ave.	Mystic ave.	Fellsway	Public.	60	2,304	....
Milk pl.	Somerville ave.	Southwesterly	Private.	about 30	....	100
Miller st.	Sacramento st.	Beacon st.	Public.	30-33	466	....
Milton	Orchard st.	Cambridge line	Public.	40	223	....
Miner	Vernon st.	Ames st.	Public.	40	244	....
Minnesota ave.	Broadway	Penn. ave.	Public.	40	525	....
Mondamin ct.	Ivaloo st.	Harrison st.	Private.	25	....	250
Monmouth	Central st.	Westerly	Public.	40	267	....
Monmouth	End of above	Harvard st.	Private.	35	....	200
Montgomery av.	Broadway	Wellington ave.	Public.	40	265	....
Montrose ct.	Montrose st.	B. & L. R. R.	Private.	12	....	110
Montrose	School st.	Sycamore st.	Public.	40	386	....
Moore	Holland st.	Mead st.	Public.	40	695	....
Moreland	Main st.	Mystic ave.	Public.	40	1,471	....
Morgan	Beacon st.	Park st.	Public.	40	377	....
Morrison ave.	Cedar st.	Willow ave.	Public.	50	1,366	....
Morrison ave.	Willow ave.	College ave.	Public.	40	1,690	....
Morrison pl.	Morrison ave.	Northerly	Private.	20	....	190
Morrison pl.	Morrison pl.	Easterly	Private.	15	....	175
Mortimer pl.	Marshall st.	Walter st.	Private.	20	....	280
Morton	Glen st.	Knowlton st.	Public.	40	287	....
Mossland	Somerville ave.	Elm st.	Public.	40	377	....
Mountain ave.	Porter st.	nr Linden ave.	Public.	22	280	....
Mountain ave.	End acptd part	Linden ave.	Private.	22	....	30
Mousal pl.	No. Union st.	B. & M. R. R.	Private.	20	....	200
Mt. Pleasant ct.	Perkins st.	Southwesterly	Private.	40	....	260
Mt. Pleasant	Broadway	Perkins st.	Public.	33	584	....
*Mt. Vernon av.	Meacham st.	Mystic ave.	Private.	50	....	764
Mt. Vernon	Washington st.	Pearl st.	Public.	40	600	....
Mt. Vernon	Pearl st.	Perkins st.	Public.	50	473	....
Mt. Vernon	Perkins st.	Broadway	Public.	40	590	....
Munroe	Walnut st.	Easterly	Public.	40	375	....
Munroe	End of above	Boston st.	Public.	50	1,214	....
Murdock	Cedar st.	Clyde st.	Private.	30	....	900
Murray st.	Washington st.	Southerly	Public.	30	190	....
Museum	Beacon st.	Cambridge line	Public.	40	164	....
Myrtle ct.	Myrtle st.	Easterly	Private.	10	....	100
Myrtle pl.	Myrtle st.	Westerly	Private.	20+	....	120
Myrtle	Washington st.	Perkins st.	Public.	40	1,423	....
Mystic ave.	Charlest'n line	Union st.	Public.	60	378	....
††Mystic ave.	Union st.	Medford line	Public	66	6,938	....
Mystic	Benedict st.	Mystic ave.	Public.	40	336	....
†Mystic Valley Parkway	Medford line	Arlington line	Public.	60	2,530	....
Nashua	Richardson st.	B. & L. R. R.	Public.	35	637	....
Nevada ave.	Village st.	Hanson st.	Private.	20	....	200
Newberne	Appleton st.	Morrison ave.	Public.	40	200	....
Newberne	Morrison ave.	Arlington Br. R. R.	Private.	40	....	173
Newbury park	Newbury st.	Southeasterly	Private.	55	....	63
Newbury	Holland st.	Cambridge line	Public.	40	1,260	....

*Proposed.

††State Highway Austin St. to Medford line.

†State Highway.

‡Metropolitan Park Commission Boulevard.

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
N. Hampshire ave.	Mystic ave.	Penn. ave.	Public.	40	406	....
Newman pl.	Cedar st.	Southeasterly	Private.	15	....	100
Newton pl.	Newton st.	Easterly	Private.	about 10	....	100
Newton	Prospect st.	Webster ave.	Public.	25	470	....
Newton	Webster ave.	Concord sq.	Public.	40+	637	....
Norfolk	Webster ave.	Cambridge line	Public.	40	283	....
North	Broadway	Medford line b. 17	Public.	40	1,961	....
North	Medford line b. 17	Medford line b. 18	Public	37 to 42	649	....
North Union	Mystic ave.	Northeasterly	Private.	30	....	600
Norton	Nashua st.	Southeasterly	Private.	20	....	200
Norwood ave.	Broadway	Medford st.	Public.	40	350	....
Oak Circle	Cambridge line	Northerly	Private.	30	....	35
Oak	Prospect st.	Angle	Public.	40	665	....
Oak	Angle	Cambridge line	Public.	30	563	....
Oak St. pl.	Oak st.	Northerly	Private.	4	....	85
Oak ter.	Elm st.	Northeasterly	Private.	10+	....	90
Oakland ave.	Marshall st.	School st.	Public.	40	440	....
Olive ave.	Linden ave.	Peterson ter.	Private.	25	....	155
Olive sq.	Lake st.	Southerly	Private.	about 15	....	100
Oliver	Franklin st.	Cross st.	Public.	40	1,085	....
Orchard	Cambridge line	Meacham road	Public.	40	1,567	....
Osgood	Granite st.	E'ly & w'ly	Private.	40	....	450
Ossipee road	Mason st.	Curtis st.	Public.	40	1,375	....
Otis	Cross st.	Wigglesworth st	Public.	40	1,200	....
Oxford	School st.	Central st.	Public.	35	1,361	....
Oxford	Beacon st.	Cambridge line	Public.	50	100	....
Packard ave.	Broadway	Professors row	Public.	60	1,758	....
Packard ave.	Professors row	Medford line	Private.	60	....	240
Palmer ave.	Franklin st.	Northwesterly	Private.	20	....	200
Park ave.	College ave.	Wallace st.	Public.	40	467	....
Park pl.	Laurel st.	Easterly	Private.	30	....	522
Park pl.	Park pl.	Northeasterly	Private.	20	....	120
Park	Somerville ave.	Beacon st.	Public.	50	1,238	....
Parkdale	Washington st.	Lewis st.	Private.	40	....	500
Parker pl.	Porter st.	Northwesterly	Private.	20	....	150
Parker	Washington st.	Fremont ave.	Public.	35	203	....
Partridge ave.	Vernon st.	Broadway	Public.	40	1,467	....
Patten ct.	Cutter st.	Southeasterly	Private.	8	....	100
Paulina	Broadway	Holland st.	Public.	40	769	....
Pearl	Crescent st.	Mt. Vernon st.	Public.	37	341	....
Pearl	Mt. Vernon st.	Franklin st.	Public.	50	957	....
Pearl	Franklin st.	Cross st.	Public.	40	1,060	....
Pearl	Cross st.	Medford st.	Public.	50	2,347	....
Pearl St. pl.	Pearl st.	Northeasterly	Public.	20	166	....
Pearl ter.	Pearl st.	Northerly	Private.	23	....	161
Pearson ave.	Morrison ave.	Boston ave.	Public.	45	1,320	....
Pearson road	Broadway	Dearborn road	Public.	40	1,713	....
Pembroke ct.	Pembroke st.	Southwesterly	Private.	25	....	130
Pembroke	Central st.	Sycamore st.	Public.	40	430	....
Penn. ave.	Broadway	Wisconsin ave.	Public.	50	1,112	....
Penn. ave.	Wisconsin ave.	Cross st.	Public.	40	350	....
Perkins pl.	Perkins st.	Northeasterly	Private.	20	....	200
Perkins	Franklin st.	Charlest'n line	Public.	40	1,336	....
Perry.	Washington st.	Lincoln pkway	Public.	40	606	....
Peterson ter.	Porter st.	Olive ave.	Private.	7.5	....	155
Philips pl.	Spring st.	Westerly	Private.	15+	....	100
Pinckney pl.	Pinckney st.	Southeasterly	Private.	24	....	125
Pinckney	Washington st.	Perkins st.	Public.	40	1,186	....
Piper ave.	Cedar st.	Westerly	Private.	20	....	91
Pitman	Beech st.	Spring st.	Public.	30	377	....
Pitman	Spring st.	Belmont st.	Private.	26	....	\$90
Pleasant ave.	Walnut st.	Vinal ave.	Public.	40	543	....
Poplar ct.	Poplar st.	Southeasterly	Private.	10	....	80
Poplar	Somerville ave.	Linwood st.	Public.	30	351	....
Poplar	Linwood st.	Joy st.	Public.	35	315	....
Poplar	Joy st.	B. & L. R. R.	Private.	35	....	65
Porter ave.	Porter st.	Northwesterly	Private.	20	....	220

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public	Width in Feet	Length	
			or Private		Public	Private
Porter	Elm st.	Mountain ave.	Public.	45	1,622	....
Porter	Mountain ave.	Highland ave.	Public.	40	415	....
Powder house boulevard	Powder house square	Alewife Brook Parkway	Public.	80	4,560	....
Pow. house ter.	Kidder ave.	Liberty ave.	Public.	40	585	....
Prentiss	Beacon st.	Cambridge line	Private.	35	....	150
Prescott	Summer st.	Highland ave.	Public.	50	1,110	....
Preston road	School st.	Summer st.	Public.	40	839	....
Prichard ave.	Morrison ave.	Boston ave.	Public.	40	1,191	....
Princeton	Alpine st.	Lowell st.	Public.	40	648	....
Princeton	Lowell st.	Centre st.	Private.	40	....	540
Professors row	College ave.	Curtis st.	Public.	40	2,000	....
Proposed	Fellsway	Middlesex ave.	Private.	40	....	195
Proposed	Fellsway	Middlesex ave.	Private.	40	....	315
Proposed	Fellsway	Middlesex ave.	Private.	40	....	340
Prospect	Washington st.	Cambridge line	Public.	50	2,071	....
Prosp't Hill av.	Medford st.	Munroe st.	Public.	40	597	....
Prosp't Hill pky	Munroe st.	Stone ave.	Public.	40	400	....
Prospect pl.	Prospect st.	Newton st.	Private.	20	....	130
Putnam	Summer st.	Highland ave.	Public.	50	1,262	....
Quincy	Somerville ave.	Summer st.	Public.	40	781	....
Radcliffe road	Walnut st.	Bradley st.	Public.	35	392	....
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	....
Randolph pl.	Cross st.	Westerly	Private.	15	....	244
Raymond ave.	Curtis st.	North st.	Public.	40	1,345	....
Record ct.	Broadway	Southwesterly	Private.	10	....	110
Reed's ct.	Oliver st.	Southwesterly	Private.	20	....	71
Remick ct.	Cutter st.	Southeasterly	Private.	10	....	100
Rhode Is. ave.	Mystic ave.	Penn. ave.	Public.	40	460	....
Richardson	Lowell st.	Hinckley st.	Public.	35	467	....
Richardson ter.	Richardson st.	Northeasterly	Private.	20	....	135
Richdale ave.	School st.	Sycamore st.	Public.	40	875	....
Roberts	Hinckley st.	Northwesterly	Private.	20	....	170
Robinson	Central st.	Bartlett st.	Public.	40	582	....
Rogers ave.	Morrison ave.	Boston ave.	Public.	45	1,682	....
Roland	Waverly st.	Boston line	Private.	40	....	100
Rose	Washington st.	Lewis st.	Public.	40	450	....
Roseland	Beacon st.	Cambridge line	Public.	40	121	....
Rossmore	Somerville ave.	Washington st.	Public.	40	534	....
Royce pl.	Bonair st.	Northeasterly	Private.	15+	....	175
Rush	Broadway	Flint st.	Public.	40	1,400	....
Russell rd.	Broadway	N. line Hamil- ton rd.	Public.	40	559	....
Russell rd.	N. Line Ham- ilton rd.	Northerly	Private.	40	....	75
Russell	Elm st.	Cambridge line	Public.	40	700	....
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	....
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	....
Sacramento	Beacon st.	Cambridge line	Public.	40	154	....
Sanborn ave.	Warren ave.	Walnut st.	Public.	40	280	....
Sanborn ct.	Washington st.	Northwesterly	Private.	30	....	176
Sargent ave.	Broadway	Walnut st.	Public.	40	1,075	....
Sartwell ave.	Cedar st.	Cherry st.	Public.	35	427	....
Sawyer ave.	Packard ave.	Curtis st.	Private.	40	....	690
School	Somerville ave.	Highland ave.	Public.	40	1,901	....
School	Highland ave.	Broadway	Public.	50	2,500	....
Sellon pl.	Marshall st.	Northwesterly	Private.	12	....	120
Seven Pines av.	Cameron ave.	Cambridge line	Public.	40	92	....
Sewall ct.	Sewall st.	Southwesterly	Private.	25	....	190
Sewall	Grant st.	Temple st.	Public.	40	615	....
Shawmut	Washington st.	Cross st.	Public.	40	575	....
Shedd	Somerville ave.	Merriam ave.	Private.	40	....	310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	....	250
Sibley ct.	Cutter st.	Northwesterly	Private.	10	....	100
Sibley pl.	Cutter st.	Northwesterly	Private.	10	....	100
Simpson ave.	Broadway	Holland st.	Public.	40	1,018	....
Skehan	Dane st.	Hanson st.	Public.	30	306	....
Skehan	Hanson	Durham	Private.	30	....	414
Skilton ave.	Pearl st. around to	Pearl st.	Private.	40	....	540
Smith ave.	Beacon st.	Line st.	Private.	25+	....	200

Table Showing the Location, Length and Width of Public and Private Streets.—Continued.

Street	From	To	Public or Private	Width in Feet		Length Public Private	
				Public	Private	Public	Private
Snow ter.	Jaques st.	Southwesterly	Private.	16	....	120	....
Somerville ave.	E. Camb. line.	Union sq.	Public.	75	4,325	....	....
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	....	....
South	Medford st.	Water st.	Public.	30	989	....	....
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	....	....
Spring ct.	Somerville ave.	Westerly	Private.	20	....	200	....
Spring	Somerville ave.	Summer st.	Public.	40	1,220	....	....
Springfield	Concord ave.	Cambridge line	Public.	40	788	....	....
Spring Hill ter.	Highland ave.	Belmont st.	Public.	20	673	....	....
Stanford ter.	Beacon st.	Northeasterly	Private.	20	....	200	....
Steeves circle	Cherry st.	Easterly	Private.	15	....	120	....
*Sterling st.	North st.	Pow. House Bd.	Private.	40	....	800	....
Stickney ave.	Marshall st.	School st.	Public.	40	458	....	....
St. James ave.	Elm st.	Summer st.	Public.	40	488	....	....
St. James ave. ext.	Summer st.	Northeasterly	Public.	30	125	....	....
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	....	....
Stone ave.	Columbus ave.	Prospt' Hill py.	Public.	38	107	....	....
Stone pl.	Stone ave.	Southeasterly	Public.	30	142	....	....
Strathmore rd.	Broadway	Medford line	Private.	40	....	15	....
Summer	Bow st.	Elm st.	Public.	45	7,900	....	....
Summit ave.	Walnut st.	Vinal ave.	Public.	45	532	....	....
Summit	College ave.	Billingham st.	Public.	40	262	....	....
Sunnyside ave.	Walnut st.	Wigglesworth st.	Public.	25 to 35	306	....	....
Sunset rd.	Curtis st.	Hillsdale road	Private.	40	....	658	....
Sycamore	Broadway	Medford st.	Public.	45	1,275	....	....
Sycamore	Medford st.	B. & L. R. R.	Public.	40	667	....	....
Sycamore	B. & L. R. R.	Highland ave.	Public.	35	722	....	....
Sydney	Grant st.	Temple st.	Public.	40	679	....	....
Talbot ave.	Packard ave.	College ave.	Private.	50	....	1,409	....
*Tannery Ex.	Cambridge line	Woodstock st. (Ext'n)	Private.	40	....	160	....
Taunton	Wyatt st.	East'y to angle	Private.	30	....	170	....
Taunton	Angle	Marion st.	Private.	20	....	95	....
Taylor pl.	Somerville ave.	Southerly	Private.	15	....	200	....
Taylor	Mystic ave.	Sydney st.	Public.	40	309	....	....
Teele ave.	Packard ave.	Curtis st.	Public.	40	685	....	....
Temple	Broadway	Mystic ave.	Public.	66	1,637	....	....
Tenny ct.	Mystic ave.	Northeasterly	Private.	30	....	400	....
Tennyson	Forster st.	Pembroke st.	Public.	40	922	....	....
Thorndike	Holland st.	Arlington Br.	Public.	40	465	....	....
Thorndike	Arlington Br.	R. R.	Public.	40	115	....	....
Thorpe	Highland ave.	Kingston st	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	....
Upland road	Curtis st.	Hillsdale road	Private.	40	....	655	....
Vermont ave.	Mystic ave.	Penn. ave.	Public.	40	433	....	....
Vernon	Central st.	Glenwood road	Public.	40	764	....	....
Vernon	Glenwood road.	Partridge ave.	Public.	40 to 30	190	....	....
Vernon	Partridge ave.	Lowell st.	Public.	30	434	....	....
Victoria	Broadway	Cambridge line	Public.	40	1,036	....	....
Villa ave.	Winslow ave.	Arlington Br. R. R.	Private.	35	....	200	....
Village	Dane st.	Vine st.	Private.	25	....	370	....

*Proposed.

Table Showing the Location, Length and Width of Public and Private Streets. — Continued.

Street	From	To	Public or Private		Width in Feet		Length Public Private	
			Public	Private	Public	Private	Public	Private
Vinal ave.	Summer st.	Highland ave.	Public.		45		1,425	....
Vinal	Richardson st.	Northeasterly	Private.		20		....	200
Vine ct.	Vine st.	Northwesterly	Private.		25		....	140
Vine	Somerville ave.	Fitchburg R. R.	Public.		40		540	....
Vine	Fitchburg R. R.	Hanson st.	Private.		40		....	222
Vine	Hanson st.	Beacon st.	Public.		30		662	....
Virginia	Aldrich st.	Jasper st.	Public.		40		405	....
Wade ct.	Cedar st.	Westerly	Private.		20		....	180
Waldo ave.	Beacon st.	Dimick st.	Public.		40		277	....
Waldo	Highland ave.	Hudson st.	Public.		40		287	....
Walker	Broadway	Leonard st.	Public.		40		713	....
Wallace	Holland st.	Broadway	Public.		40		1,342	....
Walnut	Bow st.	Broadway	Public.		40		3,948	....
Walnut road	Walnut st.	Kenneson road	Public.		40		270	....
Walter terrace	Walter st.	Southwesterly	Public.		40		222	....
Walter	Walnut st.	about 100 ft N. of Bradley st.	Public.		40		548	....
Ward	Medford st.	Harding st.	Public.		30		433	....
Ware	Curtis st.	Russell rd.	Public.		40		749	....
Warner	Pow. House sq.	Medford line	Public.		60		500	....
Warren ave.	Union sq.	Columbus ave.	Public.		40		663	....
Warren	Medford st.	Cambridge line	Public.		30 to 40		109	....
Warwick place	Warwick st.	Northeasterly	Private.		15		....	150
Warwick	Cedar st.	Warwick pl.	Public.		40		665	....
Washington av.	Washington st.	Northerly	Private.		18		....	350
Washington pl.	Washington st.	Southerly	Private.		about 7.5		....	114
Washington	Charlest'n line	Franklin ave.	Public.		75		1,060	....
Washington	Franklin ave.	Fitchburg R. R.	Public.		60 to 100		3,977	....
Washington	Fitchburg R. R.	Cambridge line	Public.		60		2,344	....
Water	South st.	Northerly	Public.		25		366	....
Waterhouse	Broadway	Cambridge line	Public.		40		987	....
Watson	Broadway	Fairmount ave.	Private.		40		....	286
Waverly	Washington st.	Roland st.	Private.		35		....	200
Webster ave.	Union sq.	Cambridge line	Public.		49.5		1,955	....
Webster	Franklin st.	Cross st.	Public.		40		1,034	....
Wellington ave.	Walnut st.	Montgomery av	Public.		40		215	....
Wellington ave.	Montgomery av.	Easterly	Private.		40		....	85
Wesley pk.	Wesley sq.	Northeasterly	Public.		40		405	....
Wesley	Pearl st.	Otis st.	Public.		40		515	....
West	Hawthorne st.	Highland ave.	Public.		30		192	....
West	Highland ave.	Arlington Br. R. R.	Private.		30		....	266
West Adams	Conwell ave.	Medford line	Public.		40		710	....
Westminster	Broadway	Electric ave.	Public.		40		376	....
Weston ave.	Clarendon ave.	Broadway	Private.		40		....	525
West Quincy	Bailey st.	Medford line	Public.		40		292	....
Westwood road	Central st.	Benton road	Public.		40		489	....
Wheatland	Broadway	Mystic ave.	Public.		40		1,364	....
Wheeler	Pinckney st.	Mt. Vernon st.	Public.		40		269	....
Whipple	Highland ave.	Arlington Br. R. R.	Private.		30		....	318
†White	Elm st.	Cambridge line	Public.		..		307	....
White St. pl.	White st.	Southeasterly	Private.		20		....	200
Whitfield road	Packard ave.	Curtis st.	Public.		40		687	....
Whitman	Mason st.	Packard ave.	Public.		40		632	....
Wigglesworth	Pearl st.	Bonair st.	Public.		40		744	....
William	College ave.	Chandler st.	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	....

†Sidewalk in Somerville.

Table Showing the Location, Length and Width of Public and Private Streets.—Concluded.

Street	From	To	Public or Private	Width in Feet		Length	
				Public	Private	Public	Private
Winslow ave.	College ave.	Clifton st.	Public.	40	1,123	....
Winter	College ave.	Holland st.	Public.	30	402	....
Winter Hill cir.	Broadway	Northeasterly	Private.	25	....	....	177
Winthrop ave.	Mystic ave.	Middlesex ave.	Private.	40	....	....	583
Wisconsin ave.	Broadway	Penn. ave.	Public.	50	499	....
Woodbine	Centre st.	Westerly	Private.	30	.....	....	461
Woodbine Ex.	End of above	Lowell st.	Private.	35	.....	....	212
*Woods ave.	North st.	Pow. House Bd.	Private.	40	....	....	1,135
Woodstock	Victoria st.	Alewife brook	Public.	40 to 32	403	....
*Woodstock (Extension)	Victoria st.	Tannery st. (Ext'n.)	Private.	40	....	....	920
Wyatt circle	Wyatt st. around	Wyatt st.	Private.	20	....	....	315
Wyatt	Concord ave.	Lincoln pkway	Public	40	496	....
Yorktown	Cambridge line	N. E. line	Public.	40	294	....
Yorktown	N. E. line	Malvern ave.	Private.	40	....	....	100
Court	39 Adams st.	Southeasterly	Private.	8	....	....	90
Court	Albion st.	Central st.	Private.	12	....	....	216
Court	11 Albion st.	Northeasterly	Private.	9	....	....	178
Court	21 Albion st.	Northeasterly	Private.	10	....	....	100
Court	292 Broadway	Southwesterly	Private.	15	....	....	90
Court	612 Broadway	Southwesterly	Private.	20	....	....	188
Court	Buena Vista rd.	Easterly	Private.	15	....	....	145
Court	Cambria st.	Northerly	Private.	9	....	....	59
Court	12 Carlton st.	Southeasterly	Private.	25	....	....	75
Court	112 Central st.	Northwesterly	Private.	10	....	....	168
Court	113 Central st.	Southeasterly	Private.	20	....	....	150
Court	227 Columbia st.	Northwesterly	Private.	10	....	....	117
Court	Conlon ct.	Windsor st. ex.	Private.	20	....	....	240
Court	36 Craigie st.	Westerly	Private.	25	....	....	126
Court	59 Craigie st.	Easterly	Private.	23.63	....	....	129
Court	58 Dane st.	Easterly	Private.	10	....	....	70
Court	20 Dimick st.	Southwesterly	Private.	39.25	....	....	136
Court	91 Franklin st.	Westerly	Private.	12	....	....	171
Court	35 Lexington ave	Northerly	Private.	21	....	....	90
Court	66 Lowell st.	Westerly	Private.	25	....	....	101
Court	78 Lowell st.	Westerly	Private.	25	....	....	101
Court	101 Medford st.	Easterly	Private.	8	....	....	75
Court	Sacramento st.	Southeasterly	Private.	25	....	....	318
Court	335 Somerville av	Northerly	Private.	15	....	....	60
Court	10 Stone ave.	Northwesterly	Private.	20	....	....	113
Court	Windsor st. ex.	E'ly and W'ly	Private.	20	....	....	370
Court	Washington ave	Franklin st.	Private.	6	....	....	95
	Total				459,284		81,856

*Proposed.

Public, 85.7622 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 15.1037.

Total length of streets in the city, 100.8659 miles.

REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT

Somerville, Mass., January 22, 1923.

To the Honorable, the Mayor, and the Board of Aldermen,

Gentlemen, — In compliance with the City Ordinance, I have the honor of submitting, for your information, the annual report of the fire department for the year ending December 31, 1922:

Alarms of Fire.

Number of bell alarms	279	
Number of still alarms	652	
Total alarms		931
Number in excess of 1921		82
Value of buildings at risk	\$651,750	00
Insurance on buildings	794,000	00
Damage to buildings	120,652	84
Value of contents	728,686	67
Insurance on contents	748,198	00
Damage to contents	336,299	89
Total value at risk	1,380,436	67
Total insurance	1,542,198	00
Total damage	456,852	73
Approximate per capita loss		4 80

List of Probable Causes.

Ammonia leak	1
Assault	1
Automatic	5
Automobile	35
Awning	1
Back draught	1
Bonfire	51
Broken gaspipe	5
Brush and leaves	6
Careless electrician	1
Careless Painter	3
Careless Plumber	2
Careless Roofer	1
Careless smokers	22
Carelessness with candle	6
Carelessness with gas	5
Carelessness with matches	13
Cat in tree	2
Children playing with matches	17
Cigars, cigarettes and pipes	8
Coke bin	1
Covering on steam pipe	2
Defective heaters, chimneys, etc.	40
Dry room	2
Dump fires	103

Electric cars	14
Electric wires and appliances	18
False alarms	35
Fireworks	3
Friction	1
Frozen water front	1
Fumigating	2
Garage	3
Gasoline leaking	2
Gasoline on street	1
Gas stove and range	4
Gasoline tank explosion	1
Grass fire	87
Grease in blower	2
Heating oil on stove	1
Horse in pit	3
Hot ashes in wooden receptacle	6
Incendiary	31
Jack-O-Lantern	1
Kettle of fat or meat	11
Leaking illuminating gas	5
Leaking kerosene	2
Lightning	1
Lime	1
Liquor stills	3
Mailing letter	1
Oil heaters, lamps and stoves	13
Out of town	99
Overflow of oil, fuel	2
Overheated furnace and stove	12
Paper lantern	2
Person locked out	3
Rags on stove	1
Rekindle	4
Removing paint from auto	2
Rescue of man on roof	1
Rubbish in cellar and barrel	18
Salamander	1
Spark from chimney	13
Spark from boiler	1
Spark from locomotive	13
Smoking in bed	1
Spark on roof	14
Spark from open fireplace	2
Sprinkler alarm	5
Sweepings in register	2
Smoke mistaken for fire	24
Spontaneous combustion	10
Second and Third Alarm	7
Tar barrel and kettle	3
Test	3
Thawing water pipe	6
Train wreck	1
Wood and paper near stove	7
Unknown	10
Unnecessary	69

Bell alarms	214	Engine 1.
Still alarms	84	
Miles traveled	298	Engine 2.
Feet of 2½ in. hose	13,600	
Feet of chemical	19,600	Engine 4.
Feet of ladders	10,600	
Extinguishers	40	Engine 6.
Gallons of chemical	18	
At other stations	1,760	Hose 3.
Out of town	—	
Rubber covers used	12	Hose 5.
	2	Hose 7.
	—	Hose 8.
	—	Ladder 1.
	—	Ladder 2.
	—	Ladder 3.
	—	Totals.
	279	
	652	
	24,22½	
	121,470	
	56,200	
	5,055	
	164	
	9,286	
	8	
	99	
	14	

In Memoriam

LEBARON EMERY

Permanent

Appointed December 22, 1897

Died March 28, 1922

ELMER C. SHIERE

Permanent

Appointed November 14, 1899

Died November 30, 1922

Manual Force.

The manual force consists of one hundred and twelve (112) permanent men, during the year two men have been retired and placed upon the pension list and two have died; three men have been added from the eligible list of the Civil Service. The roster of the department is as follows:

- 1 Chief Engineer.
- 1 Deputy Chief.
- 2 District Chiefs.
- 7 Captains.
- 1 Master Mechanic.
- 10 Lieutenants.
- 3 Enginemen.
- 87 Permanent men.

Apparatus.

- 1 Second size, horse drawn, steam fire engine,
- 1 Horse drawn, combination chemical and hose wagon,
- 1 Tractor drawn, second size, steam fire engine,
- 1 Motor driven, 900 gallon pumping engine and hose wagon,
- 1 Motor driven, triple combination pumper and chemical engine,
- 5 Motor driven, combination chemical and hose wagons,
- 1 Motor driven, combination ladder truck and chemical,
- 2 Motor driven, ladder trucks,
- 1 Motor driven, supply and wrecking car,
- 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 ladder truck, in reserve,
- 1 Horse drawn, combination chemical and hose wagon, in reserve.

Horses.

Six horses are continued in the department being necessary for the operation of the apparatus in Engine 4 station; they are in very good condition, having been selected from the nineteen that were in service the previous year.

Hose.

The amount of serviceable hose is but 8,500 feet of two and one half inch double jacket rubber lined water hose and 1,950 feet of three quarter inch chemical hose. There has been 3,000 feet of new two and one-half inch purchased and 2,800 feet condemned, 1,100 feet of which was destroyed by acid while working at a fire at the Prison Point yard of the Boston & Maine R. R. There must be at least 2,000 feet of new hose purchased the coming year to maintain, any where near, the necessary amount.

Brief Resume.

Two fires, one in the Medina Building in March and the other in the supply or stock building of the Boston Elevated Ry. in December, totalled \$375,000, leaving but \$75,000 to be distributed throughout the entire year classified, by months, as follows, —

January	.	.	.	.	.	.	.	.	.	\$39,344	27
February	.	.	.	.	.	.	.	.	.	4,844	30
March	.	.	.	.	.	.	.	.	.	80,615	95
April	.	.	.	.	.	.	.	.	.	7,095	00
May	.	.	.	.	.	.	.	.	.	1,949	54
June	.	.	.	.	.	.	.	.	.	17,536	34
July	.	.	.	.	.	.	.	.	.	932	50
August	.	.	.	.	.	.	.	.	.	950	00
September	.	.	.	.	.	.	.	.	.	652	00
October	.	.	.	.	.	.	.	.	.	3,430	00
November	.	.	.	.	.	.	.	.	.	1,966	75
December	.	.	.	.	.	.	.	.	.	297,536	09
<hr/>											
\$456,852 73											

There have been twenty-six fires with an insurance loss in excess of \$1,000. as follows, —

January 6, 5:15 P. M. 128 Linwood Street, White truck owned by C. Bowen & Sons, damage \$1,300. Cause, filling gasoline tank.

January 8, 3:10 P. M. Box 119, 38 Pearl Street, dwelling owned and occupied by John H. Meaney, damage to building \$1,003, to contents \$100. Cause, going to clothes closet with lighted candle.

January 25, 10:57 A. M. Box 47, 2-2a West Street, dwelling owned by John Pierce, occupied by Patrick McCarthy et al., damage to building \$936.75; to contents \$188.05. Cause, oil stove in bathroom.

January 26, 6:20 P. M. Box 341, 9-11 Stickney Avenue, factory owned and occupied by Edward F. Kemp, damage to building \$3,748, to contents \$9,385. Cause, woodwork too near chimney.

January 28, 9:54 P. M. Box 113, B & M. R. R. yard at Prison Point, 5 Passenger coaches, 1 baggage and 1 paymaster's car destroyed, damage \$13,750. Cause, overheated stove in pay car.

January 29, 12:29 A. M. Box 225, 6-8 Bow Street, Bacon Hall building owned by Herbert Jay, occupied by R. H. Missereau et als. damage to building \$752, to contents \$4,510.75. Cause, unknown, started in rubbish in fruit store cellar.

February 4, 2:07 P. M. Box 42, B. & M. R. R. freight yard off Kent Street, empty freight car belonging to N. & W. R. R. damage \$1,100. Cause, set by boys.

March 5, 12-44 A. M. Box 443, a general alarm was sounded for this fire, Medina Building 6-12 Davis Square owned by John Medina Estate, occupied by stores and apartments; Miss Catherine Perkins was suffocated at this fire; damage to building \$34,371.30; to contents \$27,061.09. Probable cause, careless smoker in basement.

March 10, 7:37 P. M. Box 225, 332 Somerville Avenue, store and tenement owned by E. M. Gladstone; occupant Wm. Mendelson, Jeweler, damage to building \$50, to contents \$1,080. Spontaneous combustion.

March 17, 7:25 A. M. Box 19, 13 Joy Street, dwelling owned by F. G. Articary and occupied by same, damage to building \$1,249, to contents \$500. Cause, spark on shingle roof.

March 18, 8:17 A. M. Box 36, 140 Central Street, dwelling owned by Dr. Charles F. Maguire, occupants, Alex. F. Morgan and George Simpson, damage to building \$1,704, to contents \$1,194. Cause, children going to closet with match.

March 24, 3:33 P. M. Box 114, a second alarm was sounded for this fire, 50-56 Joy Street, hay and coal sheds owned and occupied by Colbert Bros., damage to buildings \$8,560, to contents \$7,650. Cause, spark from a locomotive.

April 6, 8:39 P. M. Box 24, 535 Winsor Street, wood sheds owned by Waitzkin Bros. occupant Barron Bros. bundle wood, damage to building \$2,820, to contents \$3,335. Cause, unknown.

June 14, 3:06 A. M. Box 428, a second alarm was sounded for this fire, 29-31 Newberne Street, factory building owned by F. B. Horseman, occupants Griffin-Weene Bag Co. et als. damage to building \$4,585, to contents \$12,324.34. Cause unknown, sprinkler valves were closed.

October 19, 2:52 A. M. Box 14, 50 Tufts Street, stable owned by D. Mulcahey, occupied by John Bergman, damage to building \$650, to contents \$1,000. Cause, liquor still caught fire.

October 31, 9:31 P. M. Box 212, Boynton Yard, three freight cars of B. & M. R. R. damage \$16,265. Cause, set by boys.

December 2, 8:36 P. M. Box 46, 681-685 Somerville Avenue owned by J. E. Locatelli, occupied by Morris Saval et als. damage to building \$2,300, to contents \$2,000. Cause, carelessness with matches.

December 6, 11:14 A. M. Box 43, 28 Forest Street, dwelling owned by Lenno Zammarchi, occupied by owner, damage

to building \$1,006, to contents \$198. Cause, overheated furnace.

December 6, 6:19 P. M. Box 443, 90 Dover Street, store owned by Parke Snow Corp. occupied by A. L. Gaudet, damage to building \$449, to contents \$1,786.65. Cause, carelessness with matches.

December 10, 4:42 A. M. Box 156, in rear George Street, Charlestown, stock building owned by Boston Elevated Ry. a total loss, damage to building \$11,900, to contents \$250,000. Cause, unknown.

December 11, 7:07 P. M. Box 27, 370 Somerville Avenue, Drug store owned and occupied by Charles S. Lombard, damage to building \$856, to contents \$1,642.74. Cause, gas plate too near woodwork.

December 12, 10:27 A. M. Box 117, 78-84 Broadway, block of stores owned by J. I. Miller et als. occupied by J. T. Connor Co. et als. damage to buildings \$2,435, to contents \$4,442.03. Cause, rubbish on top of furnace.

December 14, 6:27 A. M. Box 114, 39 Poplar Street, dwelling and shed owned and occupied by Abram Greenberg, damage to building \$1,086, to contents \$316. Cause, unknown.

December 15, 9:23 P. M. a general alarm was sounded from Box 42, 285 Beacon Street, coal and wood yard and buildings owned and occupied by J. P. O'Neil, damage to buildings \$5,100, to contents \$6,200. Cause, unknown.

December 20, 2:30 A. M. Box 21, 4b South Street, store and tenements owned by A. S. Scotti, occupants Nic Cremaldi et als, damage to building \$904, to contents \$300. Cause, cigarette thrown under counter.

December 31, 11:14 P. M. Box 427, a second alarm was sounded for this fire, stable and shed owned and occupied by Gilman Express Co., John E. Palmer Prop. damage to building \$2,000, to contents \$4,900. Nineteen horses were killed at this fire. Cause unknown.

Dump fires. This class of alarms amounts to practically one-sixth of the total alarms of the year and has required the services of one or more pieces of apparatus for hundreds of hours, thereby taking them from the stations and positions assigned them for the extinguishment of legitimate fires and uncovering their respective districts to an unnecessary and dangerous extent. An ordinance, of a restrictive character, should be made to reduce this hazard.

Defective heaters, chimneys and smoke pipes. Owing to the shortage of coal and the use of many makeshifts for fuel, the conditions of heaters and chimneys will rapidly become a source of grave danger, every owner and tenant of shop and

home should give his personal attention to inspecting and keeping clear and clean boiler tubes, smoke pipes and chimneys thereby materially reducing this class of causes of fire, inasmuch as a chimney fire being centrally located in a building makes a disagreeable, dirty and dangerous fire and results in a considerable loss to building and especially to contents.

False alarms and bonfires. I should be delinquent in my duties if I failed to mention this class of alarms, each year I have called attention to their great number and the attendant danger and expense, during the past year there have been several cases, in the Police Court, of persons sounding false alarms and in some instances a punishment has been imposed; I strongly urge continued and greater efforts towards investigation and prosecution of this class of criminals, that this unnecessary abuse of apparatus and equipment be reduced.

Recommendations.

I again recommend the discontinuance of the present Engine No. 4 Station, at the corner of Grove Street and Highland Avenue, and the erection of an up-to-date station for the housing of the motor equipment necessary to make this station effective; the horse-drawn apparatus consisting of a steam fire engine and a horse-drawn combination chemical and hose wagon should be replaced with a motor pumping engine and a motor double tank combination chemical and hose car; the efficiency of such an equipment is unquestioned and the expense of operation will be 85% less than the horse-drawn, comparison being made with like equipment at Engine No. 2 Station, Engine 2 and Hose 8 requiring \$202.82 for gasoline and oil as against \$1,440.02 for feed, shoeing, harness repairs and veterinary service at Engine No. 4 Station.

A new car for the use of the District Chief should be provided to replace a ten year old roadster that was purchased second-hand seven years ago.

In Conclusion.

In concluding my report I wish to thank His Honor the Mayor and the Board of Aldermen for their confidence and consideration; to the officers and members of the department commendation is due for their zeal and success in the performance of their duties.

Respectfully submitted,

SEWALL M. RICH,

Chief Engineer.

REPORT OF SANITARY DEPARTMENT

March 3, 1923.

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 1922.

Collection of Ashes and Paper.

	Ashes (Cubic Yards)	Paper (Cubic Yards)
January	12,760	3,760
February	10,270	3,420
March	13,755	3,520
April	9,780	3,310
May	9,150	3,850
June	8,000	5,100
July	7,350	4,800
August	5,890	4,100
September	5,970	3,700
October	6,688	4,010
November	8,510	3,680
December	11,790	3,980
Totals	109,913	47,230

Departmental Revenue.

Sale of Garbage	\$2,853 45
Manure	20
Horses, dump carts, offal wagons, etc.	3,739 79
	\$6,343 24

During the year the Sanitary Department paid to the
Highway Department \$4,197.30 for the use of teams and
\$828.00 for board of horses.

Commencing June 12, 1922 the garbage has been collected by a contractor, the contract price being \$33,000 per year for five years with a yearly increase of \$300.

The paper and combustible materials are being disposed of at the incinerator plant. Ashes are collected principally by automobile trucks, deemed necessary as there are no nearby dumps. There is no public dump within the city limits and those 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 COMMISSIONER OF PUBLIC BUILDINGS.

City Hall, Somerville, January 1, 1923.

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, 1922.

The total valuation of the property which is in the custody of the public buildings department is approximately \$3,591,206.

The total expenditures for the year 1922 for the care and maintenance of this property was \$232,089.59.

This amount was expended as follows:

	Janitors	Fuel	Light	Care and Repairs	Totals
School Buildings . .	\$58,242 59	\$39,877 15	\$10,077 77	\$59,497 50	\$167,695 01
Municipal Buildings	5,170 97	1,629 13	1,527 05	3,254 95	11,582 10
Polling Places . . .	.....	1 40	28 56	679 12	709 08
Police Buildings . .	1,961 19	1,177 38	718 97	2,500 51	6,358 05
Fire Buildings.. . .	.....	4,809 86	3,110 06	7,776 62	15,696 54
Electrical Dept. Bldg.	880 00	208 12	139 68	159 86	1,387 66
Contagious Hospital	416 00	1,599 78	420 88	1,011 20	3,447 86
Sewer Buildings . .	.....	44 00	49 13	489 18	582 31
Sanitary Buildings .	.....	88 20	187 96	370 30	646 46
Highway Buildings .	.....	703 42	221 57	899 06	1,824 05
City Home Buildings	.....	1,933 99	694 37	1,686 14	4,314 50
Central Library . .	3,068 00	1,169 08	1,167 88	547 08	5,952 04
West Branch Library	1,408 00	519 31	397 81	142 97	2,468 09
East Branch Library	1,101 00	155 38	205 07	53 15	1,514 60
Union Sq. Br. Library	1,122 48	445 52	290 43	264 05	2,122 48
Park Buildings . . .	378 00	175 50	551 29	414 77	1,519 56
Bathhouse	1,025 09	.....	.....	1,506 40	2,531 49
Bandstand . . . . .	.....	.....	.....	412 87	412 87
Water Buildings . .	.....	811 70	318 84	194 30	1,324 84
	\$74,773 32	\$55,348 92	\$20,107 32	\$81,860 03	\$232,089 59

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 2688 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1922:—

Buildings	WARDS						7 Totals	Totals
	1	2	3	4	5	6		
Dwellings	38	49	25	25	45	49	189	420
Stores	10	4	5	3	7	6	9	44
Dwellings & Stores	2	2	2	2	1	3	3	15
Garages	42	32	36	38	44	65	154	411
Storage	7	7	1	7	1	3	4	30
Manufactories	1	7	....	2	....	....	....	10
Sheds	6	6	....	2	1	1	5	21
Offices	3	2	....	....	....	....	....	5
Stables	2	....	2	3	....	3	....	10
Shops	3	....	1	3	....	....	7	14
Churches . . . . .	....	....	....	2	....	....	....	2
Bakery . . . . .	....	1	....	1	....	....	....	2
Halls . . . . .	....	....	1	1	....	....	....	2
Gasoline Stations . . . . .	....	....	....	2	2	....	2	6
Greenhouse . . . . .	....	....	....	....	....	1	....	1
Chemical Laboratory . . . . .	....	....	....	....	....	....	1	1
Creameries	2	....	....	2	....	....	1	5
Theatres . . . . .	....	....	....	....	....	1	1	2
Stores and Offices . . . . .	....	1	....	....	....	....	1	2
Warehouse . . . . .	?	....	....	....	....	....	1	3
Miscellaneous	2	2	....	1	2	....	....	7
Totals	120	113	73	94	103	132	378	1013

	Wood	Fire-resisting	Totals
New buildings	226	441	667
Alterations	296	27	323
Totals	522	468	990

23 buildings torn down

Buildings	WARDS						7 Totals	Totals
	1	2	3	4	5	6		
Wood	61	70	30	41	48	58	210	518
Wood and Cement . . . . .	....	....	....	....	1	4	7	12
Wood and Concrete	1	....	....	1	1	....	3	6
Fireproofed wood	1	4	4	3	....	1	2	15
Brick	4	5	4	6	2	8	10	39
Brick and wood	3	2	....	1	1	1	....	8
Brick and Concrete	5	4	....	2	3	3	7	24
Cement block	25	15	29	26	27	45	118	285
Concrete	19	7	2	12	6	6	17	69
Steel	1	6	4	2	10	5	3	31
Wood and glass . . . . .	....	....	....	....	....	1	....	1
Stucco . . . . .	....	....	....	....	....	....	1	1
Wood and Stucco . . . . .	....	....	....	....	4	....	....	4
Totals	120	113	73	94	103	132	378	1013

The number of plumbing permits issued during 1922, was.	415
Number of permits for plumbing in new buildings	223
Number of permits for plumbing in old buildings	192
Number of buildings in which soil pipes were tested	341

The total estimated cost of new buildings and alterations during the year 1922 was \$3,136,602, while the estimated cost in 1921 was \$1,838,455, showing an increase of \$1,298,147.

The total number of permits issued during the year 1922, viz. 1013, was 299 more than during the year 1921, when 714 permits for new buildings and alterations were issued, showing an increase of 41 per cent.

There has been considerable speculative building of dwellings going on this year, or to be exact there were permits issued for 194 new buildings housing 401 families.

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 alteration demand very careful inspection and supervision by this department and entail considerable more time than new construction.

On September 1, 1918, the Board of Aldermen of the City of Somerville passed an ordinance requiring a fee to be collected for every building permit issued by this department. In accordance with this, fees collected for building permits during the year 1922 amounted to \$2618.

The Commissioner has under his charge and direction the work of maintenance and upkeep of the eighty-four public buildings of the city and the grounds in connection therewith, all janitors in the city's employ, a force of eleven 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 was sent out for bids for supplying the necessary tonnage of both Anthracite and Bituminous coal for the city buildings for the winter of 1922 and the spring of 1923.

Owing to mine troubles and railroad conditions, it was impossible to obtain bids for fuel this year. Lack of high

grade soft and Anthracite coal in Boston markets made the situation look quite uncertain. However, the Commissioner succeeded in obtaining through several local Boston concerns a very high grade of New River soft coal at an exceedingly low price.

There are, however, several plants where it is almost impossible to obtain any results from soft coal. It has been possible, however, to keep these plants supplied with Anthracite coal.

Prices were higher for the same grade of coal than during 1921, owing to these troubles and lack of supply, but the mild weather during the year 1922 made the total cost of fuel \$15,623.25 less than in 1921.

Elevators.

According to an act of the Legislature, the Building Commissioner is required to have every elevator in the city inspected yearly, and a report of the conditions and necessary repairs made to the State District Police.

Plans and specifications of all new installations of elevators must be filed in this office and certificates of approval granted by the Commissioner.

During the year 1922, there were 144 elevators inspected and 36 orders for repairs to be made to 64 elevators, sent to the owners.

Plans and specifications were filed and applications granted for the installation of 3 new elevators.

School Buildings.

The maintenance and care of the school buildings has, as formerly, demanded the most vigilant attention from this department and the appropriation made for that purpose has, I believe, been expended carefully and judiciously.

Every year before the summer vacation arrives this department sends out a blank to be filled in by both the principals and janitors of the school buildings for 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 in the Fall. 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 taken care of this past year are the following:

Five boilers were retubed. A number of grates were installed and repairs made on 16 other boilers.

Plaster repairs were made in 13 buildings.

Plumbing repairs and new installations were made in 14 buildings.

New water service with larger main installed in Brown School.

CARPENTER WORK:

It is with great pleasure that the Commissioner can report many much needed repairs in all the school buildings during the past summer vacation. Much of this work was accomplished with our own carpenters and a great deal by outside contractors. These repairs consist in general of the following:

Installing window sashes

Replacing window cords

Repairing and tightening furniture

Replacing worn stair treads

Erecting fences

Extensive alterations and changes in several buildings.

At the High School, room 301 has been fitted with raised platforms for seats, a new silver screen erected and electric attachments run for a new stereopticon lantern, new folding chairs installed, thus making a complete assembly room for stereoptican purposes.

At the Boys' Vocational School on Tufts Street, the walls of the Machine Shop have been fitted with plaster board and sheathed with hard pine, tinted and varnished, a new type of lighting fixtures installed and new curtains fitted to the windows. This work has added greatly to the warmth of the building and gives a more comfortable and lighter shop for the pupils.

PAINTING.

It was possible this year to have several buildings painted both on the interior and exterior, and the Commissioner hopes this coming summer to extend this work. Special attention has been given to the selection of tints for the interior work in order that the best lighting effects might be obtained in order to relieve any possible eye strain.

Early in the summer invitations were issued to several master painters to submit estimates for interior painting at the Carr, Lowe, Lincoln, Burns, Durell, Forster, Glines, Edgerly, High and Baxter School buildings. There were eight bids received and the awards were made as follows:

- William Stern.....Lincoln
- John Lingard.....Burns, Glines and Edgerly
- August Johnson & Co.....Forster, High and Baxter
- Walter J. Godfrey.....Carr, Lowe and Durrell

The interior of the Cummings School was painted earlier in the year by F. M. Rogers & Co. at a cost of \$497.

In the same manner estimates were obtained for exterior painting at the Carr, Cummings, and Hodgkins School buildings, and awards were made as follows:

- William Stern.....Hodgkins
- F. M. Rogers & Co.....Cummings
- James L. Flynn.....Carr

The cost of this painting was \$6955.

On all school buildings the outside doors were repainted, all basements were whitewashed, all toilet seats painted with white enamel, and in several buildings the entire toilets were repainted.

About 2500 desk tops and over 50 teachers' desks and tables were refinished and varnished. Over 2000 students' chairs were refinished and varnished.

WINDOW SHADES.

The shade problem is another big item in connection with the maintenance of buildings. During the past year in twenty-four of the buildings, over 300 new shades have been installed replacing torn or otherwise damaged ones.

LIGHTING.

At the request of the Superintendent of Schools and the Supervisor of Continuation Schools, a new system of indirect lighting has been installed in the rooms at the High School used for the continuation classes for sewing purposes, which has met with great approval.

At the Highland School additional lights have been installed in the halls, office and toilets.

The Lincoln School building has been wired throughout for electricity and new fixtures installed.

The Bell School building has been wired throughout and new fixtures installed.

At the Boys' Trade School, the lights have been lowered and new shades installed to give better lighting effects.

There have been several minor changes in the lighting system of other buildings which practically completes the electrical program for the year.

As there are several of the older buildings in the city that are very much in need of adequate means of lighting, it is the hope of the Commissioner to continue this work during the coming summer and be able to report several other buildings completed in the next annual report.

HEATING.

Many necessary repairs have been made to the heating plants of several buildings during the past summer and there are still more repairs and changes which we desire to make in order that the plants may be more effective.

At the Cummings School a new furnace was installed.

At the Lincoln School the boiler was repaired and enlarged so that this year it has not been necessary to close school on account of cold rooms. Five boilers have been re-tubed and a number of grates installed together with repairs on sixteen other boilers.

In fifteen buildings steam repairs have been made owing to leaky and defective pipes or fittings.

The fire boxes and practically all boiler settings have been repaired or renewed.

Fuel savers have been tried in several of the buildings with no marked success.

BLACKBOARDS.

At the Cutler School, new slate blackboards and mouldings were installed at a cost of \$300.

In thirteen of the older buildings where paper blackboards are still used, which have to be resurfaced practically every year, repairs were made by the Baker School Specialty Company of West Somerville, at a cost of \$606.62.

ROOFS.

Eighteen roof leaks were taken care of, several gutters and conductors replaced and other roof repairs made on several buildings. The ventilating hoods on top of vent stacks above the roofs on five buildings were repaired or replaced.

There is a possibility during the coming year of the necessity for replacing the entire slate roof on at least two buildings and also one tar and gravel roof.

SCHOOL YARDS.

During the past summer extensive repairs have been made to the school yards.

At the Bingham School, the grade of the yard has been raised by a fill thus preventing the water from overflowing on the adjoining property, resurfacing with an asphalt pavement and cutting away the sidewalk making a cement drive to the coal bin windows, doing away with the necessity of carrying in the coal, which improvement will pay for itself in a short time.

At the Brown School a new tar and macadam coal drive was made and the grade of the school yard was raised to prevent the surface water from flowing into the basement.

At the Burns School the old tar concrete drive was replaced with a tar and macadam to prevent the coal teams from cutting into same.

At the Lowe School a retaining wall was erected and the pitch of the yard changed to prevent water from running over the neighbor's property and cutting away the banking.

At the Forster School a new tar and macadam driveway was constructed.

At the Hanscom, Highland and Prescott Schools, the yards were recoated.

The contract for the above work was awarded to James H. Fannon at a cost of \$3072.

FURNITURE.

Owing to changes in some of the school buildings, it has been necessary to change several rooms of furniture during the past year.

A number of new teachers' desks and chairs have been purchased and a great many new pupils' desks and chairs have been installed to replace damaged or worn out furniture.

At the Boys' Trade School fifty new metal lockers have been installed filling a much needed want and doing away with the old wooden lockers which were a fire menace.

FIRE ALARM.

In four of the school buildings a new and distinct type of fire alarm has been installed, the current for same being taken direct from the Edison Electric current instead of from

batteries. The buildings so equipped are the Highland, Eastern Junior High, Prescott and Lowe Schools.

It is the hope of the Commissioner to be able to equip other school buildings in a similar manner this year.

Fire Department Buildings.

There have been numerous repairs and improvements made in the fire buildings of the city.

The abolishing of Hose Eight Station on Marshall Street caused changes to be made in Hose Two Station at the corner of Cross Street and Broadway, and the purchase of additional furniture.

The exterior of Engine Two, Ladder Two and the Central Fire Station buildings have been painted by our department painters.

Interior painting has been done in Hose 5, Engine Two and the Central Fire Stations.

At Engine Six Station, the sleeping quarters have been thoroughly renovated. The old hay loft has been fitted up for sleeping quarters which fills a most pressing need and now gives windows on three sides while the old quarters had windows on one side only. A new room has been fitted up in the front of the building for the District Chief, and the old bath renovated and a new shower installed.

At Engine Two, new heating apparatus has been installed.

At the Central Fire Station, new piping for a cold water supply has been installed.

New landing pads for sliding poles have been replaced in several of the stations.

A new roof was put on the Central Fire Station, and all cornices repaired and replaced where necessary.

New steel lockers have been purchased for several buildings.

New chairs have been purchased for the recreation rooms at Union Square, Engine Two and Ladder Two Stations, and new desk chairs for the floor men at Union Square, Ladder Two, Engine 6 and the Central Stations.

The Commissioner recommends the following considerations for this coming year:

Removal of the gas heaters used for heating water, and the installation of tanks connected with a coal heater, of sufficient capacity for summer use, and connected with the heating plant for winter

use. This would mean a great saving of gas, which is at present quite an expense.

New cement floors in the apparatus rooms at Union Square, Engine Two, Ladder Two and Engine Six.

Several minor repairs and some painting at Engine Four, although I urgently recommend that this building be replaced by a new one as it is in such bad shape that it does not seem wise to spend much on repairs. As a fire station is needed in this vicinity, I recommend that this station be torn down and a new one built on less valuable land, and this lot sold for commercial purposes. Much of the material in the old building could be made use of in a new one.

Municipal Buildings.

At the present time plans are being made for an addition to the present City Hall, the departments of which have been crowded for space for some time. From the plans shown another wing will be added to the present building and the entrance changed to the side, carrying out the style of architecture of the original building. This will give sufficient room to house the departments some of which are at present in the Annex.

During the past year the exterior walls of the G. A. R. section of City Hall Annex have been painted.

The heating plant has been connected to the central heating system, doing away with the use of the old boiler in the Annex, and thus effecting a considerable saving of fuel.

New electric lighting fixtures have been installed in the offices of the Superintendent of Schools and the Overseers of Poor.

Additional radiation has been installed and a new flag case completed and set up in G. A. R. Hall.

Libraries.

Very few repairs have been made to the library buildings this year.

The interior of the Central and West Somerville Branch Libraries are in such a condition that they will need painting throughout in the near future.

Some roof repairs will be necessary at the Central Library after this past winter.

Considerable furniture is needed this coming year.

Water, Highway, Sanitary and Sewer Buildings.

WATER BUILDINGS.

Considerable work has been accomplished at these buildings during the past year and there is need of still more. A

concrete floor is needed in the shop and the windows need to be enlarged to give proper light.

HIGHWAY BUILDINGS.

A new tar and gravel roof has been laid on the garage and blacksmith shop, and an additional area of the shed enclosed for garage purposes. General repairs were made to the interior of the building.

SANITARY BUILDINGS.

The office at the Sanitary Stable has been painted on the interior and exterior and fitted with new furniture. A new tar and gravel roof must be put on this year, and extensive plumbing repairs made.

SEWER BUILDINGS.

The Sewer Building has been repaired generally, a new roof was laid, new floors in the shop and new sash. These repairs will eliminate spending money on this building for several years.

Hospital.

General repairs have been made to the hospital buildings. New stairs have been built extending to the hospital wards, and to both front and rear piazzas of the scarlet-fever ward.

The chimneys have been pointed and a portion of the roof reshingled. There is still considerable work to be done in these buildings and it is hoped that it will be possible this coming year to do some interior and exterior painting.

Police Buildings.

Many needed repairs were made during the past year. Extensive interior painting was done including the offices and cell rooms. New lighting fixtures were installed in the outer office, guard room, clerk of court's and the court room. In the Judge's office a new metal ceiling was installed and the room repainted.

A new counter was built in the room occupied by the Clerk of Court.

Several steel lockers were installed to replace the old wooden ones.

A new heating plant has been installed in the stable of adequate size to take care of the additional wooden garages.

Bathhouse.

The public bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual this year with a good attendance.

About 500 tons of sand were purchased for resanding the beach.

A change was made on the men's side of the bathhouse by installing separate showers and toilets for the boys' quarters, thus excluding the boys from the men's locker rooms which seems to be a much better arrangement.

It is hoped that the same change may be made on the women's side of the building this coming summer.

Park Buildings.

The total amount expended on our Park Buildings during the year 1922 was \$1520., and of this amount \$1337. was spent for attendant, fuel and light, laundry and supplies, leaving a balance of only \$183. as having been spent for actual repairs.

It will be necessary this year however, to spend considerable on the hot water heater for the shower baths at Lincoln Park, as we are only able at present to supply hot water for three of the twelve showers.

The wooden storage building in Broadway Park was removed during the year; this saved considerable expense for repairs.

Bids have been received and the contract awarded to Mulcare and Graves of Cambridge for the erection of a new Park building in Richard Trum Playground at a cost of \$5172. The plans for this building were made by the Commissioner of Buildings, and they provide comfort stations for men and women, storage space for the Park Department, all on the street level, while beneath on the playground level, there will be a large dressing room and shower baths for the athletes together with a heater room. It is expected that this building will be finished about the 15th of June.

The Park building for Dilboy Field has not been started as yet owing to insufficient funds, but plans made by the Commissioner are on file in his office and it is expected that this contract will be awarded this year.

In General.

The Building Commissioner has had the co-operation of all branches of the City Government, including His Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

GEORGE L. DUDLEY,

Commissioner of Public Buildings.

BOARD OF HEALTH**ORGANIZATION — 1922**

ROBERT M. LAVENDER, *Chairman*
resigned April 13, 1922

C. A. C. RICHARDSON, M. D., *Chairman*
appointed April 13, 1922

WARREN C. BLAIR

JOHN E. GILLIS, M. D.
resigned April 13, 1922

WESLEY M. GOFF
appointed April 13, 1922

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, V. S.

Inspector of Milk and Vinegar

HERBERT E. BOWMAN, Ph. G.

Milk Collector

WILLIAM H. WALLIS

Plumbing Inspector

DUNCAN C. GREENE

School Nurse

GRACE M. ANDREWS, R. N.

Assistant School Nurse

GLADYS M. GRANT, R. N.

Health Nurses

HELEN B. BERRY, R. N.

MARY L. SCOTT, R. N.

GRACE E. PICKERING, R. N.

Matron at Contagious Hospital

LILLIAN E. GOULD, R. N.

Office of the Board of Health,
City Hall Annex, January 1, 1923.

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

We respectfully submit the following as the forty-fifth 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, 1922.

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 1921	21
Complaints received during 1922	474
	<hr/>
	495
Complaints referred to 1923	25
	<hr/>
Nuisances abated in 1922	470
Second and third notices sent	25
Received during 1922	474
	<hr/>
Total notices sent	499

In addition to the above, 334 dead animals have been removed from the public streets and private premises. 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.

Record of Licenses and Permits Issued

COWS. One application was received for a permit to keep one cow, which was granted.

GOATS. Eight applications were received for permits to keep twenty-one goats, all of which were granted. The fee is one dollar for each goat.

HENS. Seventy-six applications for permits to keep 1235 hens were received. Fifty-seven to keep nine hundred and ninety-seven hens were granted, and nineteen permits were refused. One license to keep six hens was revoked.

GREASE. Twenty-one applications were received for permits for twenty-four 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, for which a fee of one dollar is charged. One license to render under Section 154 of Chapter 111 of the General Laws was granted.

MASSAGE AND MANICURE. Thirty-four persons have been licensed to practice massage and manicure. The fee is one dollar for each license.

SALE OF ALCOHOL. The statutes provide 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 fifteen licenses have been issued. A fee of one dollar was received for each license.

BOTTLING. CARBONATED BEVERAGES. Chapter 303, Acts of 1921 provides that no person shall engage in the manufacture or bottling of carbonated non-alcoholic beverages, soda waters and mineral and spring water without a permit from the board of health. Nine such permits were granted, a fee of ten dollars being charged in each case.

DAY NURSERY. One license was issued to establish and maintain a Day Nursery for which a fee of one dollar was charged. Application was made for the renewal of a license to maintain a nursery, which was not granted by the board of health.

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:

Applications pending from 1921	7
Applications received during 1922	11
	<hr/>
	18
Licenses granted	9
Licenses refused	2
	<hr/>
	11
Licenses pending	7

Board of Infants

Fourteen 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 119 of the General Laws. Thirteen of these applications were approved for the care of twenty-six children and one was returned without the approval of this board.

There were 1019 deaths and fifty-six stillbirths in the city during the year, as specified in the following table:

Deaths at Somerville Hospital	96
Deaths at hospital for contagious diseases	19
Deaths at home for aged poor (Highland Avenue)	49
Deaths at city home	9
Deaths at other institutions	38

Mortality in Somerville in 1922

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
I. EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES.													
1A Typhoid Fever							1	1	1	1			4
7 Measles					2								2
8 Scarlet Fever		1										2	3
9 Whooping Cough									1		1	3	5
10 Diphtheria.....	1	2	1	3		1			1	3	1	6	19
11 Influenza.....		3	2										5
21 Erysipelas.....					1	1							2
22 Acute Poliomyelitis.....											1		1
24 Epidemic Cerebro Spinal Meningitis.....			1										1
31 Tuberculosis of the Respiratory System.....	4	3	1	1	2	5	3	1	1	2	3	5	31
32 Tubercular Meningitis.....						1							1
38 Syphilis.....		1											1
II. GENERAL DISEASES NOT INCLUDED ABOVE													
43 Cancer Buccal Cavity.....	1			1									2
44 Cancer of Stomach & Liver.....	5	1		2	3	4	4	3	3	3	5	1	34
45 Cancer of Intestines, etc.....	1	2		1	2	3	3	1	1	1	1	4	20
46 Cancer of Female Genital Organs	1		1			2	1					1	6
47 Cancer of breast.....	3	2				1		1	1	2	1	1	12
48 Cancer of the Skin.....										1			1
49 Cancer of other Organs.....	3	1	3	3					2	1			13
52 Chronic Rheumatism.....		1						1					2
57 Diabetes Mellitus.....	3	1	1	1	1	1		2	1	1	1		13
58A Pernicious Anæmia.....		1			1	1		1				4	8
65A Leukemia.....	1		1										2
69 Other General Diseases.....							1			1	1		3
III. DISEASES OF THE NERVOUS SYSTEM AND ORGANS OF THE SPECIAL SENSE.													
70 Encephalitis.....	1	1											2
71A Simple Meningitis.....	1					1				1			3
72 Locomotor ataxia						1				1			2
73 Other Diseases of the Spinal Cord.....		1	3					1		1			6
74 Apoplexy	14	9	7	9	13	6	9	10	2	4	5	4	92
75 Paralysis without specified cause	1				1	1		1					4
75A Hemiplegia.....										1			1
80 Infantile Convulsions						1	1				1		3
84 Cretinism									1				1
IV. DISEASES OF THE CIRCULATORY SYSTEM.													
88 Endocarditis and Myocarditis (acute)	2	1			9	1		6	5	7	10	2	43
89 Angina Pectoris.....	1	2	1	2	1		2			1	4	1	15
90 Other Diseases of the Heart.....	12	17	10	15	9	10	14	8	6	11	8	25	145
91B Arterio Sclerosis	9	20	17	7	12	13	12	11	7	8	7	13	136
92 Embolism and Thrombosis.....	1	1		2		1				1	2	1	9
94 Diseases of the Lymphatic System				1			1						2

Mortality in Somerville in 1922.—continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
V. DISEASES OF THE RESPIRATORY SYSTEM.													
99A Chronic Bronchitis	2	1	2	4							1		10
100A Broncho Pneumonia	13	10	10	3	5	4	2	1	2	5	9	13	77
101A Lobar Pneumonia	5	13	12	4	5	3			1	3	4	9	59
102 Pleurisy				1									1
103 Pulmonary Congestion		1	1	1	1					1	2		7
107C Other Diseases												1	1
VI. DISEASES OF THE DIGESTIVE SYSTEM.													
108 Diseases of the Mouth and Annexa		1											1
109B Tonsillitis	1		1			1							3
112 Acute Indigestion								1					1
113 Diarrhea and Enteritis (under 2 years)	1	3	1		1			3		1	2	1	13
114 Diarrhea and Enteritis (over 2 years)	1			1				1					3
117 Appendicitis					1								1
118B Intestinal Obstruction	1	2									1	1	5
119 Faecal Fistula			1										1
122B Cirrhosis of Liver									1		1		2
123 Biliary Calculi		1											1
124 Other Diseases of the Liver						1							1
126 Peritonitis	1				1					1			3
127 Pancreatitis	1												1
VII. NON VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA.													
128 Acute Nephritis	1	1											2
129 Chronic Nephritis	2	6	4	1	4	8	4	2	3	3	1	4	42
131 Pyelonephritis										1			1
132 Calculi of the Urinary Passages				1									1
133 Diseases of the Bladder				1					1				2
134B Urinary Toxemia											1		1
VIII. THE PUERPERAL STATE													
144 Puerperal Hemorrhage					1								1
146 Puerperal Septicæmia			1			1							2
147 Phelebitis	1												1
148 Eclampsia									1				1
IX. DISEASES OF THE SKIN AND CELLULAR TISSUES.													
152 Carbuncle						1							1
153 Abscess	1												1
154 Pemphigus											1		1

Mortality in Somerville in 1922.—continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
X. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION													
XI. MALFORMATIONS.													
159B Congenital Malformation of Heart.....	4	2	1			1	1	1			1		11
159C Pseudencephalus.....											1		1
XII. EARLY INFANCY.													
160 Congenital Debility	2		1	2	3	1	1	1		4	1	2	18
161A Premature Birth.....	4	4	1	5	2		1	1	3	2	1	1	25
161B Injury at Birth	2				1				1	1			5
162 Other Diseases Peculiar to Early Infancy.....	1			1									2
XIII. OLD AGE.													
164 Senility		1	1	1	1			1		2	2	1	10
XIV. EXTERNAL CAUSES.													
167 Suicide by Illuminating Gas					1							1	2
168 Suicide by Hanging					1								1
169 Suicide by Drowning.....									1				1
172 Suicide by Jumping from Window												1	1
177 Accidental Poisoning												1	1
178 Suffocation			1										1
179 Accidental Burns.....	1					1	1			1			4
181 Accidental Absorption of Illuminating Gas.....										1			1
182 Accidental Drowning							1			1			2
185 Accidental Fall.....		1				2		3		5	1		12
188A Railroad Accident.....	1												1
188C Automobile Accident.....			2	1	1			1		3	1	1	10
196 Accidental Electric Shock								1					1
197 Homicide by Firearms.....	1												1
XV. ILL-DEFINED CAUSES.													
205A Surgical Shock.....	1		1			1				1			4
Total.....	113	118	90	75	86	80	63	65	46	89	83	111	1019

Population estimated 97,000

Death rate per thousand..... 10.41

DEATHS BY AGES.

AGES.	Total.	Male.	Female.
Under one	116	75	41
One to two	29	18	11
Two to three	14	9	5
Three to five	10	6	4
Five to ten	21	11	10
Ten to fifteen	17	9	8
Fifteen to twenty	16	6	10
Twenty to thirty	27	11	16
Thirty to forty	40	13	27
Forty to fifty	73	29	44
Fifty to sixty	115	52	63
Sixty to seventy	200	97	103
Seventy to eighty	216	91	125
Eighty to ninety	94	33	61
Ninety and over	31	9	22
Total	1019	469	550

Table of Deaths During the Last Ten Years.

Year.	No. of Deaths.	Rate per 1,000
1913	993	12.11
1914	990	11.65
1915	1,003	11.55
1916	1,081	12.01
1917	1,067	11.85
1918	1,533	16.84
1919	1,074	11.30
1920	1,137	12.22
1921	986	10.38
1922	1,019	10.41
Average death rate per 1000 for ten years		12.03

Table Showing the Five Principal Causes of Death in Somerville in 1922

HEART DISEASE.		ARTERIO SCLEROSIS		PNEUMONIA ALL FORMS.		APOPLEXY.		CANCER	
Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.	Number of Deaths.	Number per 10,000 of Pop.
203	20.92	136	15.05	136	15.05	92	9.48	88	9.7

Disease Dangerous to the Public Health

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

Specimens and Supplies

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

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

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

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

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

Medical Inspection at Schools

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

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

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

District No. 1

Inspector Dr. Francis Shaw, 57 Cross Street.
Schools Eastern Junior High, Prescott, Hanscom, Edgerly and Boys' Vocational schools.

District No. 2

Inspector Dr. Edward J. Dailey, 46 Bow Street.
Schools Baxter, Knapp, Perry and Southern Junior High Schools.

District No. 3

Inspector Dr. Walter Jellis, 1028 Broadway.
Schools Bennett, Pope, Cummings and Proctor Schools.

District No. 4

Inspector Dr. W. L. Bond, 322 Highland Avenue.
Schools Morse, Carr, Durell, Burns and Girls' Vocational Schools.

District No. 5

Inspector Dr. H. M. Stoodley, 283 Highland Avenue.
Schools Brown, Bingham, Forster and Northern Junior High Schools.

District No. 6

Inspector Dr. H. Cholerton, 94 College Avenue.
Schools Western Junior High, Lincoln, Highland, Cutler and Lowe Schools.

District No. 7

Inspector Dr. E. F. Sewall, 281 Broadway.
Schools Glines and High Schools.

Inspector Dr. M. W. White, 21 Walnut Street.
Schools Parochial.

During the year, 9,856 children have been referred to

the inspectors during their daily visits, and 532 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	60	
Measles	141	
Mumps	52	
Scarlet Fever	2	
Whooping Cough	6	
Influenza	3	
Total		264
2. Diseases of the nose and throat:—		
Enlarged tonsils and adenoids	574	
Inflammatory diseases	383	
Total		957
3. Diseases of the eyes:—		
Inflammatory conditions	65	
Foreign bodies	2	
Other abnormal conditions	17	
Total		84
4. Diseases of the ears:—		
Inflammatory conditions	66	
Other abnormal conditions	7	
Total		73

5. Diseases of the skin:—

Eczema	47
Herpes	28
Impetigo	158
Pediculosis	435
Scabies	74
Tinea	1
Miscellaneous conditions	158

Total	901
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6. Miscellaneous diseases:—

Diseases of the circulatory system	8
Diseases of the digestive system	94
Diseases of the lymphatic system	42
Diseases of the nervous system	10
Diseases of the respiratory system	98
Wounds and injuries	91
Diseases of the teeth	12
Other conditions	46

Total	401
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Total number of diseases reported	2680
Vaccinations performed	75
Examinations for vaccinations	699
Certificate to work	131

Bacteriological Work.

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 49 of Chapter 114 of the General Laws, twenty-three persons have been duly licensed as undertakers.

Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of the 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 five 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.

Infant Hygiene Clinics.

During the past year under the supervision of this board, clinics have been held every Thursday afternoon at the Bennett Schoolhouse and every Friday afternoon at the Bingham Schoolhouse except when those days were holidays. 528 babies have been registered at these clinics. The average weekly attendance at the Bennett Schoolhouse was 40 and at the Bingham Schoolhouse 60.

This work is of inestimable value and the results are very far reaching.

C. A. C. RICHARDSON, Chairman,
WESLEY M. GOFF,
WARREN C. BLAIR.

Attest:

LAURENCE S. HOWARD, Clerk

REPORT OF HEALTH NURSES.

To the Board of Health,

Somerville, Mass.,

January 1, 1923.

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, 1922.

Infant Hygiene.

Infants reported as born in Somerville during 1922	1661
Infants born elsewhere resident in Somerville	258
Pairs of twins born in Somerville	12
Sets of triplets born in Somerville	1
Still-births in Somerville	56
Infants who moved away from Somerville	213
Infants reported with Ophthalmia Neonatorum	7
Infants reported with Conjunctivitis	9
Infants reported with Infantile Paralysis	5

There were one hundred and eleven deaths of infants under one year of age in Somerville during the past year as shown in the following table:

Prematurity	29
Congenital diseases	26
Intestinal diseases (Breast fed 2 — Artificially fed 13)	15
Accidental injury	1
Pneumonia and other diseases	33
Infants dying in Somerville residence elsewhere	7
Total	111
Infants under supervision at Baby Welfare Clinics	
Jan. 1, 1922	718
Registration during 1922	528
Total under supervision during 1922	1246

Tuberculosis.

Pulmonary tuberculosis cases reported in 1922	98
Other forms of tuberculosis reported in 1922	15
Patients admitted to Sanatoria	38
Patients previously reported in Sanatoria	52
Deaths in Sanatoria 15. Discharged 16.	31
Patients now in Sanatoria	45
Patients temporarily out of Somerville	28
Patients who have moved away from Somerville	21

TABLES SHOWING AGES AND SEX OF CASES IN THIS CITY.
Pulmonary Tuberculosis.

Ages	SEX		Total
	Male	Female	
Under fifteen years.....	4	1	5
From fifteen to twenty years.....	2	5	7
From twenty to thirty years.....	22	19	41
From thirty to forty years.....	10	9	19
Over forty years.....	18	8	26
Total	56	42	98

Other Forms of Tuberculosis.

Ages	SEX		Total
	Male	Female	
Under fifteen years	2	1	3
From fifteen to twenty	2	1	3
From twenty to thirty years.....	1	4	5
From thirty to forty years.....	1	0	1
Over forty years.....	2	1	3
Total	8	7	15

Miscellaneous.

Typhoid Fever cases reported (died 4) 18

Recapitulation of Visits.

Baby Hygiene	8486
Tuberculosis	743
Miscellaneous	328
Total visits	9557

Respectfully submitted,

HELEN B. BERRY,
MARY L. SCOTT, R. N.,
GRACE E. PICKERING, R. N.
Health Nurses.

REPORT OF DEPARTMENT OF MEDICAL INSPECTION.

Somerville, Mass.,

January 1, 1923.

To the Board of Health,
Somerville, Mass.

Gentlemen :

I herewith present the report of the Department of Medical Inspection for the year 1922 including statistics of the Contagious 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	164
Diphtheria—Before patients are released from quarantine two successive negative cultures must be obtained	108
Contagious Hospital	366
	<hr/>
Total number of visits	638

Contagious Disease Hospital.

Diseases	In Hospital Jan. 1, 1922	Ad- mitted	Discharged Well or improved	Dead	In Hospital Jan. 1, 1923
Diphtheria	13	124	112	17	8
Scarlet Fever	7	67	64	2	8
Miscellaneous	0	9	9	0	0

The daily average of patients was 9.5.

LABORATORY EXAMINATIONS.

Diphtheria.

	Negative	Positive	Total
January	116	7	123
February	129	9	138
March	65	22	87
April	118	18	136
May	69	5	74
June	34	1	35
July	17	2	19
August	28	2	30
September	38	4	42
October	45	10	55
November	102	22	124
December	118	19	137
	<hr/>	<hr/>	<hr/>
Totals	879	121	1000

Tuberculosis.

	Negative	Positive	Total
January	10	2	12
February	10	3	13
March	10	3	13
April	13	3	16
May	14	1	15
June	16	4	20
July	6	3	9
August	1	1	2
September	2	1	3
October	9	2	11
November	6	3	9
December	10	2	12
Totals	107	28	135

Typhoid.

	Negative	Positive	Total
January	1	0	1
February	0	0	0
March	0	0	0
April	1	0	1
May	0	0	0
June	3	0	3
July	10	2	12
August	7	1	8
September	7	2	9
October	7	2	9
November	3	0	3
December	3	0	3
Totals	42	7	49

Examinations made for Malaria, Ophthalmia, Paratyphoid, Gonorrhoea and Pneumonia

9

Total examinations

1193

Tuberculosis.

During 1922 there were 32 deaths from Tuberculosis including all forms, 31 of which were of the pulmonary type. This record shows a continued decrease from the previous year when 64 deaths were reported, and the tuberculosis death rate per 10,000 of the population has been still further reduced from 5.8 in 1921 to 3.3 in 1922.

All patients ill with the disease coming to the attention of the board have either been supervised at their homes by the Public Health Nurses, or have been placed in sanatoria when such treatment was needed.

The tuberculosis ward at the Contagious Hospital which was closed on September 1, 1921, still remains closed, as there has been no apparent necessity of its being reopened.

Infant Hygiene Clinics

On January 1, 1922 the board with the approval of His Honor the Mayor, assumed the care of the Infant Hygiene Clinics previously maintained by Somerville Chapter of the American Red Cross. These clinics have been held on Thursday afternoon at the Bennett School and Friday afternoon at the Bingham School throughout the year. An average attendance of 40 at the Bingham School and 60 at the Bennett School has been attained. 528 new babies have been registered at the clinics where advice has been given to the mothers by the attending physician, and in many instances the infants have been visited at home by the Public Health Nurses in order that the advise may be properly followed out. This work is unquestionably of great value in conserving the health of new born infants.

With the approval of the Mayor an additional Public Health Nurse was elected on January 1st and the city re-districted allotting one nurse to each of the three districts.

Respectfully submitted,

FRANK L. MORSE,

Medical Inspector and Bacteriologist.

REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass.,

January 1, 1923.

To the Board of Health,
Somerville, Mass.

Gentlemen : —

I submit the following as my report for the year ending December 31, 1922.

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. Lunch carts and restaurants have been inspected weekly.

Under the provisions of the General Laws of 1920 all bakeries are required to register with the Board of Health. The law provides that all doors and windows shall be properly screened and that all food exposed for sale shall be kept covered. Careful inspections of all bakeries have been made to see that this law has been complied with.

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	370	Milk and Cream plants	136
Barber shops	348	Pedlers and Wagons and stock	2141
Billiard Halls and Bowl- ling alleys	40	Public Halls	40
Blacksmiths' shops	21	Rendering plants	125
Candy and Ice Cream plants	187	Slaughter houses	259
Factories	166	Stores and markets	3857
Fish markets	559	Stables	208
Hen houses and yards	239	Theatres	77
Lunch rooms and cars	572	Vacant lots and dumps	69
		Yards and cellars	276

Articles Condemned.

The following is a list of the articles condemned:

Fish.

Clams	2 gal.
Clams	3½ bus.
Cod	22 lbs.
Haddock	841 lbs.
Halibut	164 lbs.
Mackerel	363 lbs.
Salmon	118 lbs.
Smelts	8 lbs.
Sword Fish	242 lbs.

Fruit.

Apples	2 bbl.
Apples	16 bus.
Bananas	24 doz.
Blackberries	27 qts.
Canteloupes	14 cts.
Grape Fruit	19 cts.
Grape Fruit	9½ box
Grapes	27 bas.
Lemons	30 doz.
Lemons	½ box
Oranges	9 box
Peaches	6 bus.
Peaches	17 bas.
Plums	11 bas.
Raspberries	9 qts.
Strawberries	119 qts.

Meats.

Bacon	223 lbs.
Bologna	88 lbs.
Beef (corned)	568 lbs.
Beef (corned)	28 Cans.
Beef (fresh)	736 lbs.
Fowl	645 lbs.
Frankfurts	24 lbs.
Lamb	1150 lbs.
Ham	222 lbs.
Liver	68 lbs.
Pork (fresh)	292 lbs.
Sausages	109 lbs.
Steak (Hamburg)	26 lbs.
Tripe	57 lbs.
Turkey	19 lbs.
Veal	76 lbs.

Vegetables.

Asparagus	59 bun.
Beans (string)	10 bus.
Beans (string)	5 bas.
Beans (string)	5 box.
Beets	4 bus.
Cabbages	2 bbl.
Carrots	2 bus.
Greens	18 bus.
Lettuce	9 bus.
Lettuce	2 box.
Lettuce	2 doz.
Onions	2 bus.
Onions	81 cts.
Parsnips	2 bus.
Potatoes (white)	22 bus.
Potatoes (sweet)	1 bus.
Squash	6 bbl.
Tomatoes	5 cts.
Tomatoes	21 bas.
Turnips	6 bus.

Miscellaneous.

Bread	30 loaves
Cerial	120 pack.
Crackers & cakes	18 cans.
Flour	10 bags

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 1922 in this city was somewhat less than during previous years.

Number of Animals Slaughtered in 1922.

Swine	815,319
Sheep	325,816
Calves	107,788
Cattle	32,989

1,281,912

Examination of Animals for Contagious Diseases.**Glanders.**

Nine horses in one stable were affected by glanders in this city, all of which were destroyed. One other horse in another stable was placed under quarantine, but afterwards released.

Animals Examined.

	Inspected	Quaran- tined	Killed	Released
Horses	1970	10	9	1
Cows	7	0	0	0
Goats	21	0	0	0
Dogs	26	26	6	20
	<hr/>	<hr/>	<hr/>	<hr/>
	2024	36	15	21

Respectfully submitted,

CHARLES M. BERRY, V. S.,

Inspector of Animals and Provisions.

REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

Chemical and Bacteriological Laboratory,
City Hall Annex,
Somerville, Mass.,
January 1, 1923.

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

I herewith present my annual report for the year ending December 31, 1922.

On the above date there were in this city licensed to sell milk, 689 stores and 74 dealers; and 100 stores were licensed to sell oleomargarine.

Of the 74 dealers, 22 are located in this city, 41 in neighboring cities, and 4 dealers have discontinued business, and 2 dealers were refused a license. Thirty-five dealers are pasteurizing milk according to statute, and 7 dealers sell only cream, the balance selling raw milk.

There are approximately 35,000 quarts of market milk and 2500 quarts of cream distributed in Somerville daily. Many "special milks" are sold by the various dealers, who claim superior quality for their goods. At the present time this department has no further control over these "special milks" than to see that they comply with the legal standards prescribed for any milk.

Table 1.

Months.	Licenses Applications	License Fees.	Analytical Fees.	Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.
January	20	10.00	.....	10.00	26.50	36.50
February	13	6.50	1.50	8.00	31.00	39.00
March	38	19.00	6.50	25.50	30.00	55.50
April	16	8.00	.....	8.00	42.50	50.50
May	527	263.50	.....	263.50	18.00	281.50
June	112	56.00	3.50	59.50	25.00	84.50
July	40	20.00	1.50	21.50	22.50	44.00
August	31	15.50	1.00	16.50	42.50	59.00
September	16	8.00	.....	8.00	6.50	14.50
October	12	6.00	.....	6.00	29.50	35.50
November	21	10.50	.....	‡9.50	4.50	14.00
December	20	10.00	1.50	11.50	2.00	13.50
Total.....	866	433.00	15.50	447.50	280.50	728.00

‡Refund on 2 applications refused \$1.00.

Income for Department as per above list	\$ 728 00
Rebate from Merrimac Chemical Company	1 00
Witness fees (East Cambridge)	1 60
Rebate on Automobile license	5 00
Realized from sale of Buick touring car	320 00
Fines in Somerville Court	80 00

Total income for department	\$1135 60
In addition fines going to other courts as a result of department activities	\$50 00

The two following tables are a summary of the laboratory work during 1922.

Table 2.

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

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples Submitted.	Total Examinations.
January	167	79	69	315	39	354
February	202	16	49	267	59	326
March	256	56	40	352	69	421
April.....	263	56	58	377	82	459
May	302	44	42	388	36	424
June	217	49	49	315	50	365
July.....	269	62	64	395	48	443
August	202	76	54	332	87	419
September.....	259	31	31	321	13	334
October	168	30	30	228	56	284
November	230	62	62	354	5	359
December	196	34	34	264	4	268
Total.....	2731	595	582	3908	548	4456

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Temperature Notices.	Total Notices.	Inspections.
January	1	2			3	28
February	2	4	1		7	18
March	22	4	4		30	11
April.....	11	12			23	8
May	22	3	1		26	14
June	30	18	27	7	82	68
July	21	19	5	9	54	108
August	12	22	14	2	50	34
September.....	6	8	4		18	182
October	3	9	4		16	67
November	4	17	9	2	32	76
December	3	9	3		15	61
Total.....	137	127	72	20	356	675

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.

Regular Market Milks.

Name of Dealer	Butter Fat Legal Standard 3.35 p.c.	Total Solids Legal Standard 12.00 p.c.	Bacteria Per C. C.	Heated or Raw
			Maximum Allowed Raw 500,000 Past. 100,000	
A. H. Andrews	3.70	12.26	36,000	Past.
H. E. Bemis	3.75	12.40	113,000	Past.
J. A. Bergman	3.87	12.60	82,000	Past.
E. E. Breen	3.83	12.49	53,500	Past.
F. S. Cummings Co.	3.75	12.27	89,000	Past.
Donnelly Brothers	3.69	12.25	219,000	Past.
F. C. Edgerley	3.82	12.42	273,000	Past.
*F. E. Giles	3.67	12.20	242,400	Past.
†J. E. & H. J. Giroux	3.64	12.32	99,000	Raw
†B. J. Griffin	3.61	12.16	129,000	Raw
†J. P. Griffin	3.63	12.27	153,000	Raw
J. M. Hager & Son	3.88	12.53	87,000	Past.
†M. B. Harris	3.62	12.20	415,000	Raw
Herlihy Brothers	3.96	12.57	80,000	Past.
H. P. Hood & Son	3.73	12.35	110,000	Past.
Kendall Brothers	3.59	12.11	213,800	Raw
Maple Farm Milk Co.	3.73	12.29	121,000	Past.
E. M. Monahan	3.72	12.32	97,500	Past.
J. J. Mulkerin	3.61	12.24	235,000	Raw
W. F. Noble & Sons	3.91	12.55	38,000	Past.
P. O'Shaughnessey	3.68	12.17	185,000	Past.
†S. E. Paige	3.59	12.11	422,000	Raw
Plymouth Creamery System	3.93	12.61	79,000	Past.
H. A. Prescott	3.63	12.25	103,000	Past.
T. F. Ronayne	3.90	12.47	544,000	Raw
†Seven Oaks Dairy Co.	3.83	12.45	42,000	Raw
M. P. Shattuck	3.66	12.31	265,000	Past.
H. L. Stone	3.65	12.21	43,000	Past.
W. E. Stuart Co.	3.78	12.52	65,500	Past.
†Swenson Brothers	3.84	12.47	169,000	Raw
*F. P. Thompson & Son	3.53	11.93	834,000	Raw
G. E. Thompson	3.73	12.32	119,000	Raw
Toothaker Brothers	3.94	12.62	44,000	Past.
Turner Center Creamery ...	3.95	12.69	73,000	Past.
A. S. Tyler	3.57	12.13	209,000	Raw
E. L. Tyler	3.66	12.20	501,000	Raw
Whiting Milk Co.	3.77	12.27	17,000	Past.
†C. A. Woodbury	3.69	12.25	60,000	Raw

* Found guilty and fined in Somerville Court.

† Since January 1, 1923 these dealers are on the pasteurized list.

Special Priced Milks.

Milk commanding an increased price due to special care in production or greater food value.

Dealer	Butter Fat	Total Solids	Bacteria	
F. S. Cummings Co....	3.89	12.51	52,000	Codman Farm
F. S. Cummings Co....	3.88	12.49	90,000	Baby
F. S. Cummings Co....	3.97	12.68	90,000	Grade A
F. S. Cummings Co....	5.11	14.13	19,600	Mixter Farm
J. M. Hager & Son.....	4.27	13.12	162,000	Grade A
H. P. Hood & Sons Co.	3.66	12.39	11,600	Bonnie Brook
H. P. Hood & Sons Co.	4.16	12.86	4,300	Grade A
H. P. Hood & Sons Co.	4.00	12.85	8,000	Cherry Hill
H. P. Hood & Sons Co.	4.42	12.52	3,100	Hood Farm
Herlihy Brothers	4.11	12.58	229,000	Grade A
W. F. Noble	4.23	13.08	6,540	Grade A
W. F. Noble	4.95	14.40	1,700	Blossom Hill
W. F. Noble	4.18	13.08	147,000	Carey Farm
Seven Oaks Dairy Co.	3.93	12.61	109,000	Special
H. L. Stone	3.99	12.79	20,000	Special
Walker Gordon Lab....	4.46	13.40	30,000	
Whiting Milk Co.....	4.06	12.71	21,700	Grade A
Whiting Milk Co.....	4.02	12.87	27,500	Hampshire Hills

The General Laws define the terms used in this report as follows:

"Heated Milk".—Milk which has been subjected to artificial heat greater than one hundred and sixty-seven degrees Fahrenheit.

"Pasteurized Milk".—Natural cows milk not more than 72 hours old when pasteurized subjected for a period of not less than thirty minutes to a temperature of not less than one hundred and forty nor more than one hundred and forty-five degrees Fahrenheit and immediately thereafter cooled to a temperature of fifty degrees Fahrenheit or lower.

Recommendations.

1. It is important that a strict supervision be given processing plants both in the city and in the country. With the present personnel of the department it is impossible to do so, and an inspector who devotes his entire time to creamery, milk plant and dairy inspection is much to be desired.

2. This department does not recommend "special milks." Most of the regular "market milk" will compare very favorably with the "special milks" now sold.

Respectfully submitted,

HERBERT E. BOWMAN,
Inspector of Milk and Vinegar.

REPORT OF THE CITY CLERK

OFFICE OF THE CITY CLERK,
January 1, 1923.

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

Gentlemen:—The following is respectfully submitted as the fifty-first annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1922.

The receipts and payments were as follows:—

Receipts.

Balance from year 1921, being for dog li-			
censes issued in December 1921:—			
3 males at \$2.00	. . . . .	\$ 6 00	
2 females at \$5.00	. . . . .	10 00	
1 spayed at \$2.00	. . . . .	2 00	
		<hr/>	
		18 00	
Less city clerk's fees paid to the city			
treasurer, 6 @ \$.20	. . . . .	1 20	
		<hr/>	
			\$16 80
For dog licenses issued in 1922:—			
698 males at \$2.00	. . . . .	1396 00	
170 females at \$5.00	. . . . .	850 00	
100 spayed at \$2.00	. . . . .	200 00	
1 kennel at \$25.00	. . . . .	25 00	
		<hr/>	
			2,471 00
For hunting and fishing licenses issued			
in 1922			
235 hunting and fishing at \$2.00	. . . . .	470 00	
98 hunting and trapping at \$1.50	. . . . .	147 00	
1 alien hunting at \$15.00	. . . . .	15 00	
227 fishing at \$1.00	. . . . .	227 00	
3 alien fishing at \$2.00	. . . . .	6 00	
		<hr/>	
			865 00
Recording mortgages, assignments, etc.,			
818 papers	. . . . .	1,200 40	
Certificates of marriage intentions,—			
1214 licenses and 1 duplicate	. . . . .	1,215 00	
Furnishing copies of records	. . . . .	246 00	
		<hr/>	
Amounts carried forward	. . . . .	\$2,661 40	<hr/> \$3,352 80

Amounts carried forward	\$2,661 40	\$3,352 80
Licenses:—		
Auctioneers, 34 licenses at \$2.00	68 00	
Billiard and pool tables and bowling alleys:—		
178 licenses for 119 tables and 59 alleys at \$2.00	356 00	
Drain layers, 7 at \$1.00	7 00	
Drivers, 10 licenses at \$1.00	10 00	
Engines and motors:—		
33 licenses for 25 motors, 7 engines and 1 furnace at \$1.00	33 00	
Garages:—		
501 licenses, including 11 granted in 1921, at \$2.00	1,020 00	
Gasoline tanks, 47 licenses at \$1.00	47 00	
Hackney carriages, 13 licenses at \$1.00	13 00	
Intelligence offices, 4 licenses at \$2.00	8 00	
Junk and second hand licenses:—		
30 licenses, including 3 in 1921, at \$10.00	300 00	
20 licenses, including 1 in 1920, and 1 in 1921, at \$25.00	500 00	
Lodging house licenses, 4 at \$2.00	8 00	
Second hand auto licenses, 17 at \$25.00	425 00	
Slaughtering, 7 at \$1.00	7 00	
Street Musicians, 9 licenses for 9 persons at 50	4 50	
Victualler licenses, 14 at \$2.00	28 00	
Wagons, 87 licenses at \$1.00	87 00	
Wagon stands, 13 licenses at \$1.00	13 00	
Permits for projections over sidewalks:—		
41 permits for 10 signs, 7 electric signs, 7 swing arms, 3 marquees, 2 barber poles, 2 coal holes, 2 filling traps, 1 stationary clock, 1 projection, 1 wire across street, 1 awning, at \$1.00	41 00	
Filing certificates, under Acts of 1908,		
Chap. 502, at \$.50	1 50	
Interest on deposits	12 45	
Repairing and sale of junk badges	1 25	
Witness fees	60	
Sale of Old Ballots	47 93	
Optometrists registration 3 at \$.50	1 50	
Physicians' registrations, 6 at \$.25	1 50	
Refund bond premium	59	
	5,704 22	
Total receipts		9,057 02

Payments.

To Charles E. Hatfield, county treasurer,
June 1, and December 1, receipts for
dog licenses from December 1, 1921, to
November 30, 1922, both inclusive:—

699 males at 2.00	1,398 00	
172 females at \$5.00	860 00	
101 spayed at \$2.00	202 00	
1 kennel at \$25.00	25 00	
	<hr/>	
	2,485 00	
Less city clerk's fees, 973 at \$.20	194 60	2,290 40
	<hr/>	

To the Commissioners on Fisheries and
Game, for licenses for hunting and fish-
ing in 1922:—

235 resident hunting at \$2.00	470 00	
98 hunting and trapping at \$1.50	147 00	
1 alien hunting at \$15.00	15 00	
227 resident fishermen at \$1.00	227 00	
3 alien fishermen at \$2.00.	6 00	
	<hr/>	
	865 00	
Less city clerk's fees, 564 at \$.15	84 60	780 40
	<hr/>	

To the city treasurer, monthly:—

City clerk's fees for issuing and re- cording dog licenses, 969 at \$.20	193 80	
City clerk's fees for issuing and re- cording fishing and hunting licenses, 564 at \$.15	84 60	
All the receipts above specified except for dog licenses and fishing and hunt- ing licenses	5,704 22	5,982 62
	<hr/>	
Total payments		9,053 42

Balance, January 1, 1923, being for dog
licenses issued in December, 1922:—

2 males at \$2.00	\$4 00	
Less city clerk's fee paid to the city treasurer 2 at \$.20	40	3 60
	<hr/>	
		9,057 02

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	6
Parade in streets, with music, etc.	3
To hold religious services in streets and squares	3
To suspend rope across street	2
Newsboys	8
To move buildings through streets	10

Births.

1922.

Number of births reported by physicians and midwives for 1922.

Males	997
Females	906

A canvas 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 canvas will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1922 will be given in the city clerk's report for the year 1923.

1921

The following is a statement in full of the births for 1921.

Number of births (exclusive of still births) in Somerville in 1921 registered	1,883
Less than previous year	36
Males	952
Females	931
	<hr/>
	1,883
Born of American parents	851
Born of foreign parents	635
Born of American father and foreign mother	183
Born of foreign father and American mother	200
Born of American mother and father of unknown nationality	10
Born of foreign mother and father of unknown nationality	4
	<hr/>
	1,883

Number of still-births in Somerville in 1921 as registered	83
Number of births in other places in 1921 registered . . .	613
Number of cases of twins	21

Marriages.

Number of intention certificates issued in 1922	1,214
Less than previous year	64
Marriages registered	1,229
Less than previous year	50
Both parties American	798
Both parties foreign	191
American groom and foreign bride	119
Foreign groom and American bride	121
	<hr/>
	1,229 c'pls
First marriage of	2,152
Second marriage of	291
Third marriage of	14
Fourth marriage of	1
	<hr/>
	1,229 c'pls

Deaths

(Exclusive of still-births)

Number of deaths in Somerville in 1922	1,019
More than previous year	33
Males	489
Females	530
	<hr/>
	1,019
Under ten years of age	190
10 and under 20 years of age	31
20 and under 30 years of age	28
30 and under 40 years of age	39
40 and under 50 years of age	72
50 and under 60 years of age	119
60 and under 70 years of age	204
70 and under 80 years of age	209
80 and under 90 years of age	94
90 years of age and over	33
	<hr/>
	1,019
Age of oldest person deceased	98 years
Born in Somerville	195
Born in other places in the United States	461
Of foreign birth	361
Birthplace unknown	2
	<hr/>
	1,019

Number of deaths in January	112
Number of deaths in February	118
Number of deaths in March	91
Number of deaths in April	75
Number of deaths in May	86
Number of deaths in June	80
Number of deaths in July	63
Number of deaths in August	65
Number of deaths in September	47
Number of deaths in October	90
Number of deaths in November	81
Number of deaths in December	111

 1,019

The number of still-births during the year was fifty-six. In addition to the above 271 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.

WARD	Pct.	As- sessed Polls, April 1, 1922	REGISTERED VOTERS.								
			Nov. 23, 1921 Men	Nov. 23, 1921 Women	Re- vised Lists of July 15, 1922 Men	Re- vised Lists of July 15, 1922 Women	Add- ed in July 1922 Men	Add- ed in July 1922 Women	Nov. 7, 1922 Men	Nov. 7, 1922 Women	Voted Nov. 7, 1922
Ward 1	Pct. 1	1,626	801	509	705	471	96	38	810	563	1063
" 1	" 2	1,141	601	389	527	340	83	49	597	391	695
" 1	" 3	593	312	175	286	157	26	18	318	194	387
" 1	" 4	701	211	100	186	95	25	5	205	106	246
		4,061	1,934	1,173	1,704	1,063	230	110	1,930	1,254	2,391
Ward 2	Pct. 1	1,122	368	184	329	166	39	18	366	187	397
" 2	" 2	1,895	844	527	763	494	81	33	882	587	1,045
" 2	" 3	871	381	200	356	190	25	10	403	215	422
		3,888	1,593	911	1,448	850	145	61	1,651	989	1,864
Ward 3	Pct. 1	1,430	925	720	827	643	98	77	924	732	1,245
" 3	" 2	1,360	812	638	736	581	76	57	835	649	1,122
		2,790	1,737	1,358	1,563	1,224	174	134	1,759	1,381	2,367
Ward 4	Pct. 1	1,468	849	615	791	579	58	36	889	672	1,132
" 4	" 2	1,444	782	585	692	505	90	80	798	611	1,044
		2,912	1,631	1,200	1,483	1,084	148	116	1,687	1,283	2,176
Ward 5	Pct. 1	1,563	933	801	864	752	69	49	983	896	1,447
" 5	" 2	1,218	735	552	675	507	60	45	746	584	1,032
" 5	" 3	1,095	654	463	591	415	63	48	679	528	946
		3,876	2,322	1,816	2,130	1,674	192	142	2,408	2,008	3,425
Ward 6	Pct. 1	1,229	665	479	616	446	49	33	693	513	914
" 6	" 2	1,468	739	390	660	351	79	39	738	416	832
" 6	" 3	1,033	605	478	566	431	39	47	643	463	875
" 6	" 4	1,318	898	616	810	548	88	68	893	663	1,199
		5,048	2,907	1,963	2,652	1,776	255	187	2,967	2,055	3,820
Ward 7	Pct. 1	1,151	814	628	751	584	63	44	811	669	1,184
" 7	" 2	1,468	863	701	795	624	68	77	901	731	1,253
" 7	" 3	1,693	969	695	898	641	71	54	1011	735	1,319
" 7	" 4	1,179	740	572	697	543	43	29	761	613	1,062
" 7	" 5	929	579	439	542	429	37	10	614	482	826
		6,420	3,965	3,035	3,683	2,821	282	214	4,098	3,212	5,644
City	.....	28,995	16,089	11,456	14,663	10,492	1,426	964	16,500	12,182	21,687

ELECTIONS.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on various questions, at the State Election held November 7, 1922.

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
GOVERNOR.									
Channing H. Cox	Republican	915	266	1271	1183	1793	2069	3877	11374
John F. Fitzgerald	Democratic	1407	1563	1038	921	1533	1583	1528	9573
Henry Hess	Socialist Labor	13	1	3	7	9	17	15	65
Walter S. Hutchins	Socialist	13	9	7	11	11	26	31	108
John B. Lewis	Prohibition	13	4	22	17	27	41	101	225
Michael Flynn							1		1
LIEUTENANT GOVERNOR.									
John F. Doherty	Democratic	1120	1283	805	665	1141	1137	1038	7189
Alvan T. Fuller	Republican	1158	469	1483	1390	2106	2489	4343	13438
Oscar Kinsalis	Socialist Labor	13	12	7	7	9	16	25	89
Thomas Nicholson	Socialist	14	7	8	20	22	27	35	133
Richard Pigott							1		1
Jos. E. Warner							1		1
SECRETARY.									
Frederic W. Cook	Republican	1231	519	1585	1479	2226	2595	4568	14203
Albert S. Coolidge	Socialis	15	18	14	23	19	41	57	187
James Hayes	Socialist Labor	21	11	8	13	17	26	29	125
Charles H. McGlue	Democratic	959	1126	665	540	983	996	769	6038
Herman Pohl							1		1
TREASURER.									
James Jackson	Republican	1084	377	1410	1380	2024	2370	4329	12974
Patrick H. Loftus	Socialist Labor	24	18	14	12	23	30	38	159
Dennis F. Reagan	Socialist	29	28	27	32	28	81	53	278
Joseph E. Venne	Democratic	1038	1165	738	568	1089	1038	863	6499
Annie Pohl							1		1
AUDITOR.									
John Aiken	Socialist Labor	28	15	28	33	39	46	61	250
Alonzo B. Cook	Republican	1013	350	1230	1245	1813	2149	3966	11766
Alice E. Cram	Democratic	1063	1181	860	664	1249	1234	1151	7402
Edith M. Williams	Socialist	54	20	22	34	32	47	50	259
ATTORNEY GENERAL									
Joseph Bearak	Socialist	32	20	23	31	34	46	58	244
Jay R. Benton	Republican	1010	317	1294	1283	1895	2251	4108	12158
David Craig	Socialist Labor	25	15	34	26	20	75	51	246
John E. Swift	Democratic	1001	1110	1181	625	801	1237	1071	7026

CANDIDATE.	PARTY.	WARDS.							Total.
		1	2	3	4	5	6	7	
SENATOR IN CONGRESS.									
Washington Cook	Independent	17	11	16	13	19	23	49	148
William A. Gaston	Democratic	1403	1477	1018	907	1477	1589	1634	9505
Henry Cabot Lodge	Republican	826	274	1146	1061	1657	1870	3479	10213
John A. Nicholls									
(Prohibition	Progressive)	35	18	108	104	153	155	373	946
John W. Sherman	Socialist	11	10	7	14	14	36	35	127
William E. Weeks	Progressive	14	2	8	13	15	18	29	99
John A. Nicholls							1		1
CONGRESSMAN									
Arthur D. Healey	Democratic	1260	1410	1013	805	1403	1514	1390	8795
Charles L. Underhill	Republican	951	285	1253	1233	1832	2094	3929	11577
Fred P. Greenwood							1		1
Fred W. Wolffer							1		1
COUNCILLOR,									
Charles L. Burrill	Republican	1234	572	1465	1484	2203	2607	4405	13970
Francis Q. Harrington						1			1
SENATOR,									
Maurice F. Ahearn	Democratic	1107	1308	888	674	1241	1337	1203	7758
Charles M. Austin	Republican	1065	326	1283	1289	1921	2142	3985	12011
REPRESENTATIVES IN GENERAL COURT 23RD DISTRICT (3)									
William J. Bell	Republican	1020	.....	1233	1302	1983	.....	.....	5538
Edward L. Hagan	Democratic	1105	.....	737	630	1246	.....	.....	3718
David J. Lanigan	Democratic	893	.....	800	439	996	.....	.....	3128
James J. Morrissey	Democratic	872	.....	604	436	898	.....	.....	2810
Francis W. K. Smith	Republican	908	.....	1210	1123	1704	.....	.....	4945
Walter H. Snow	Republican	958	.....	1188	1228	1709	.....	.....	5083
REPRESENTATIVES IN GENERAL COURT 24TH DISTRICT (3)									
E. Agnes Blood	Democratic	.....	1238	.....	.....	.....	1155	1117	3510
Warren C. Daggett	Republican	.....	832	.....	.....	.....	2408	4009	7249
Hiram N. Dearborn	Republican	.....	277	.....	.....	.....	1941	3816	6034
Wilbur F. Lewis	Republican	.....	283	.....	.....	.....	1893	3717	5893
Perry F. Nagle	Democratic	.....	1083	.....	.....	.....	1349	936	3368
Alfred Pigott		.....	.....	.....	.....	.....	1		1
COUNTY COMMISSIONER.									
Erson B. Barlow	Republican	1198	567	1504	1445	2133	2590	4307	13744

	WARDS.							Total.
	1	2	3	4	5	6	7	
ASSOCIATE COMMISSIONERS.								
Sherman H. Fletcher Republican	1153	505	1374	1349	2032	2355	3968	12736
John M. Keyes Republican	1065	504	1273	1243	1950	2266	3758	12059
Sydney Hayden					1			1
Elmer E. Beacham					1			1
DISTRICT ATTORNEY.								
Arthur K. Reading Republican	974	290	1185	1282	1801	2022	3631	11185
James C. Reilly Democratic	1272	1357	1017	699	1377	1542	1618	8882
CLERK OF COURTS.								
RALPH N. Smith Republican	1281	622	1566	1496	2249	2676	4460	14350
REGISTER OF DEEDS.								
Thomas Leighton, Jr. Republican	1295	628	1540	1498	2258	2683	4430	14332
COUNTY TREASURER (to fill vacancy)								
Charles E. Hatfield Republican								
Chas. Ponzi	1259	592	1507	1474	2214	2640	4393	14079
					1			1
REFERENDUM QUESTION 1 —AMENDMENT TO CONSTITUTION.								
SHALL AN AMENDMENT TO THE CONSTITUTION RELATIVE TO ROLL CALLS IN THE GENERAL COURT ON THE ADOPTION OF PREAMBLES OF EMERGENCY LAWS, WHICH RECEIVED IN A JOINT SESSION OF THE TWO HOUSES HELD MAY 27, 1920, 169 VOTES IN THE AFFIRMATIVE AND 15 IN THE NEGATIVE, AND AT A JOINT SESSION OF THE TWO HOUSES HELD MAY 24, 1921, RECEIVED 261 VOTES IN THE AFFIRMATIVE AND 1 IN THE NEGATIVE, BE APPROVED?								
Number of "Yes" votes,	865	426	1051	972	1574	1774	3047	9709
Number of "No" votes,	738	691	564	509	880	885	1006	5273

CANDIDATE.	PARTY	WARDS,							Total.
		1	2	3	4	5	6	7	
<p>PASSED IN THE HOUSE OF REPRESENTATIVES BY A MAJORITY NOT RECORDED, AND IN THE SENATE BY 21 VOTES IN THE AFFIRMATIVE TO 16 VOTES IN THE NEGATIVE, AND WAS APPROVED BY HIS EXCELLENCY THE GOVERNOR. BE APPROVED?</p>									
Number of "YES" votes		484	244	609	490	910	1008	1860	5605
Number of "NO" votes		1527	1266	1469	1406	2120	2362	3225	13375
<p>REFERENDUM QUESTION 4. SHALL A LAW (CHAPTER 427 OF THE ACTS OF 1922) ENACTED TO ENFORCE IN MASSACHUSETTS THE EIGHTEENTH AMENDMENT TO THE CONSTITUTION OF THE UNITED STATES, WHICH PROVIDES THAT EXCEPT AS AUTHORIZED BY THE ACT, THE MANUFACTURE, SALE, BARTER, TRANSPORTATION, IMPORTATION, EXPORTATION, DELIVERY, FURNISHING OR POSSESSING OF ANY INTOXICATING LIQUOR, AS DEFINED IN THE ACT, SHALL BE A CRIMINAL OFFENCE AND BE PUNISHED IN THE MANNER PRESCRIBED BY THE ACT, WHICH LAW WAS PASSED IN THE HOUSE OF REPRESENTATIVES BY A MAJORITY OF 134 IN THE AFFIRMATIVE TO 68 IN THE NEGATIVE, AND IN THE SENATE BY A MAJORITY OF 28 IN THE AFFIRMATIVE TO 9 IN THE NEGATIVE, AND WAS APPROVED BY HIS EXCELLENCY THE GOVERNOR, BE APPROVED?</p>									
Number of "YES" votes		700	316	1032	817	1442	1587	2923	8817
Number of "NO" votes		1293	1144	1009	1082	1549	1775	2083	9935
<p>REFERENDUM QUESTION 5. SHALL A LAW (CHAPTER 459 OF THE ACTS OF 1922) WHICH PROVIDES THAT A DISTRICT ATTORNEY SHALL BE A MEMBER OF THE BAR OF THE COMMONWEALTH, PASSED IN THE HOUSE OF REPRESENTATIVES BY A MAJORITY NOT RECORDED, AND IN THE SENATE BY A MAJORITY NOT RECORDED, AND APPROVED BY HIS EXCELLENCY THE GOVERNOR, BE APPROVED?</p>									
Number of "YES" votes		896	379	1197	1115	1813	2041	3624	11156
Number of "NO" votes		863	976	683	653	987	1114	1021	6297

Liquor License Question.

The following is a statement of the votes, during the several years of its submission to the people, on the question of granting licenses for the sale of intoxicating liquors, in this city, together with the number of registered voters and the estimated population for each year:—

YEAR.	YES.	NO.	BLANK.	REGISTERED VOTERS.	ESTIMATED POPULATION.
1881	979	1,222		3,678	26,000
1882	627	1,159		3,778	26,500
1883	767	1,343		4,407	27,000
1884	806	1,709		4,470	28,000
1885	428	1,604		3,969	*29,992
1886	214	1,321		4,089	32,000
1887	555	2,427		4,574	34,000
1888	744	2,456		5,399	36,000
1889	635	1,706	335	5,286	39,000
1890	999	2,282	409	5,556	*40,117
1891	1,054	2,598	279	5,938	43,000
1892	1,427	3,288	347	7,587	46,000
1893	1,547	2,654	218	7,943	48,000
1894	1,098	2,869	246	8,007	50,000
1895	1,854	4,708	459	8,410	*52,200
1896	1,466	3,680	332	9,379	54,000
1897	1,626	3,815	486	8,925	56,000
1898	1,595	3,501	486	8,657	57,500
1899	1,892	3,340	374	8,838	60,000
1900	1,660	3,427	321	9,620	*61,643
1901	1,579	3,295	374	9,499	63,500
1902	1,645	3,242	360	10,100	65,000
1903	2,248	4,410	550	11,346	67,000
1904	2,022	4,338	447	11,682	69,500
1905	2,483	4,660	531	11,340	*69,272
1906	2,193	5,204	582	11,571	70,000
1907	1,735	4,591	459	11,558	74,000
1908	1,780	4,760	491	12,777	75,500
1909	1,830	4,601	530	12,479	75,500
1910	1,544	3,968	365	12,522	*77,236
1911	2,193	4,841	492	13,226	80,000
1912	2,421	6,182	546	13,854	81,000
1913	2,348	6,431	550	13,417	82,000
1914	2,178	5,535	488	13,404	85,000
1915	1,705	5,262	379	13,805	*86,854
1916	1,100	4,158	271	14,500	88,000
1917	1,291	3,457	232	13,826	90,000
1918	690	1,935	161	13,477	90,500
1919	2,777	2,297	261	14,810	91,000
1920				27,307	93,091
1921	5,143	8,751	2,992	27,545	95,000
1922					96,000

*Census.

ORDINANCES.

Somerville, January 1, 1923.

The following ordinances have been adopted since the printing of the annual reports for the year 1921:—

ORDINANCE NO. 97.

An Ordinance Amending Ordinance No. 96 Relative to One Way Streets.

Be it ordained by the board of aldermen of the city of Somerville as follows:—

Section 1. Section 1 of Ordinance No. 96 entitled "An Ordinance Relative to One Way Streets" is hereby amended by striking out the words "or along any portion of Franklin street between Washington street and Broadway except in a north-easterly direction" and substituting therefore the words "or along any portion of Franklin street between Oliver street and Broadway except in a northeasterly direction, also along any portion of Franklin street between Washington street and Oliver street during a period from eight o'clock in the forenoon of each day until five o'clock in the forenoon of the following day except in a northeasterly direction."

Section 2. Whoever violates any provision of this ordinance shall be liable to a penalty of not exceeding twenty dollars for each offense.

Section 3. This ordinance shall take effect upon its passage.

ORDINANCE NO. 98.

An Ordinance to Amend Ordinance No. 91 entitled "An Ordinance Relative to the Fire Department."

Be it ordained by the Board of Aldermen of the City of Somerville as follows:—

Section 1. The first paragraph of Section 1 of Ordinance No. 91 entitled "An Ordinance Relative to the Fire Department" is hereby amended by striking out the last sentence of said paragraph, namely "The to district chiefs shall each perform the duties of a captain," so that said first paragraph shall read as follows:—

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.

Section 2. This ordinance shall take effect upon its passage.

Approved March 16, 1922.

ORDINANCE NO. 99.

An Ordinance Fixing License Fee for Purchase and Sale of Second Hand Motor Vehicles and Parts Thereof.

Be it ordained by the board of aldermen of the City of Somerville, as follows:—

Section 1, Ordinance 89 is hereby amended by striking out Section 1, and inserting in place thereof the following:

Section 1. The fee for each class of license provided for by section 57 to 69 inclusive of Chapter 140 of General Laws is hereby fixed at the sum of \$25.00.

Section 2. This Ordinance shall take effect June 5, 1922.

Approved July 28, 1922.

ORDINANCE NO. 100.

An Ordinance Relative to Examination of Structures For Use By Public.

Be it ordained by the board of aldermen of the City of Somerville, as follows:—

Section 1. The Commissioner of Public Buildings shall examine into the safety of all grandstands, merry-go-rounds, ferris wheels and other structures intended for use by the public in connection with any exhibition, show, game or other amusement, and no person shall cause or allow such a structure to be used by the public until a permit has been given in writing for such use by the commissioner.

Section 2. Whoever violates any provision of this ordinance shall be liable to a penalty of not exceeding twenty dollars for each offense.

Section 3. This ordinance shall take effect upon its passage.

Approved December 15, 1922.

ORDINANCE NO. 101.

An Ordinance Relative to Making Chester Avenue a One Way Street.

Be it ordained by the board of aldermen of the City of Somerville, as follows:—

Section 1. No person shall cause or allow a vehicle other than a vehicle propelled by hand to pass along any portion of Chester avenue except in a westerly direction.

Section 2. This ordinance shall not apply to street railway cars.

Section 3. Whoever violates any provision of this ordinance shall be liable to a penalty of not exceeding twenty dollars for each offense.

Section 4. This ordinance shall take effect January 1, 1923.

Approved December 20, 1922.

CITY GOVERNMENT AND OFFICERS FOR 1922

Mayor.

JOHN M. WEBSTER, 76 Boston Street

Board of Aldermen.

President, ENOCH B. ROBERTSON

Vice-President, WALDO D. PHELPS

WARD ONE

Lyman A. Hodgdon, Alderman-at-Large	8 Indiana Avenue
William F. Burns	21 Illinois Avenue
John R. Spiers	52 Franklin Street

WARD TWO

Robert C. Harris, Alderman-at-Large	12 Dimick Street
Joseph A. Haley	7 Linden Street
John Joseph Hoban	39 Mansfield Street

WARD THREE

William C. Abbott, Alderman-at-Large	73 Avon Street
George A. Berry	60 Prescott Street
Thomas D. Mitchell	25 Warren Avenue

WARD FOUR

Waldo D. Phelps, Alderman-at-Large	64 Flint Street
John S. Smith, Jr.	52 Sydney Street
Henry F. Welch	56 Otis Street

WARD FIVE

Fred Allen, Alderman-at-Large	121 Central Street
J. Freeman Saville	64 Sycamore Street
Francis W. K. Smith	85 Central Street

WARD SIX

Enoch B. Robertson, Alderman-at-Large	39 Highland Road
Albert E. Hughes	262 Highland Avenue
William M. Morrison	97 Rogers Avenue

WARD SEVEN

Hiram N. Dearborn, Alderman-at-Large	86 Electric Avenue
Emerson J. Coldwell	27 Hall Avenue
Arthur F. Mason	18 Hall Avenue

City Clerk, JASON M. CARSON

Assistant City Clerk, HENRY J. ALLEN

City Messenger, FRED E. HANLEY

Regular meetings, second and fourth Thursday evenings of each month, at 8 o'clock, except when such Thursday is a holiday, in which case the meeting is held on the preceding Tuesday evening.

Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS—Aldermen Burns, Abbott, Allen, Mason, and Hoban.

FINANCE—The President, Aldermen Mason, Haley, Phelps, Hodgdon, Smith of Ward Five and Mitchell.

LEGISLATIVE MATTERS—Aldermen Haley, Smith of Ward Five, Mitchell, Smith of Ward Four and Dearborn.

LICENSES AND PERMITS—Aldermen Harris, Smith of Ward Four, Dearborn, Abbott, Burns, Saville and Morrison.

PUBLIC PROPERTY—Aldermen Smith of Ward Five, Dearborn, Welch, Morrison and Spiers.

PUBLIC SAFETY—Aldermen Phelps, Hodgdon, Harris, Hughes and Coldwell.

PUBLIC SERVICE—Aldermen Berry, Allen, Smith of Ward Four, Burns, Haley, Hughes and Mason.

PUBLIC WORKS—Aldermen Coldwell, Saville, Spiers, Hughes, Hoban, Berry and Welch.

School Committee.

Chirman, HERBERT CHOLERTON

Vice-Chairman, WALTER I. CHAPMAN

Members.

Hon. John M. Webster Mayor, (ex officio)	76 Boston Street
Enoch B. Robertson, President of the Board of Aldermen, (ex-officio)	39 Highland Road

WARD ONE

Francis J. Fitzpatrick	2 Austin Street
Julia A. Crowley	53 Franklin Street

WARD TWO

Daniel H. Bradley	19 Concord Avenue
Christopher Muldoon, Jr.	88 Concord Avenue

WARD THREE

Charles W. Boyer	66 Avon Street
Oscar W. Coddling	59 Vinal Avenue

WARD FOUR

Katherine C. Coveney	73 Marshall Street
Richard L. Rice, resigned Sept. 25, 1922.	296½ Broadway
Edward I. Tripp, elected Nov. 14, 1922.	21 Wigglesworth Street

WARD FIVE

Harry M. Stoodley	283 Highland Avenue
Minnie S. Turner	64 Hudson Street

WARD SIX

Walter I. Chapman	18A Central Street
Walter Frye Turner	15 Highland Road

WARD SEVEN

Herbert Cholerton	94 College Avenue
Paul O. Curtis	41 Mason Street

Superintendent and Secretary—CHARLES S. CLARK

Regular meetings last Monday evening of each month, except July and August, when none are held, and December, when meeting is held on the Friday preceding the first Monday in January.

Assessors.

FRED E. WARREN, Chairman (term expires 1923.)
 WINSOR L. SNOW (term expires 1924).
 HARRY VAN IDERSTINE (term expires 1923).
 J. ROBERT FENELON (term expires 1925).
 DAVID B. ARMSTRONG (term expires 1924).

Assistant Assessors.

FRED B. CLAPP.	JOHN J. MCCARTHY
LAWRENCE J. WARD.	JOHN M. NANGLE.
JOSEPH O. KNOX	LEONARD C. SPINNEY.

Board of Health.

ROBERT M. LAVENDER (term expires 1924) (Resigned)
 WARREN C. BLAIR, (term expires 1923)
 JOHN E. GILLIS, M. D., (term expires 1923) (Resigned)
 CHESLIE A. C. RICHARDSON, M. D., Chairman (term expires 1924)
 WESLEY M. GOFF (term expires 1923)
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

Overseers of the Poor.

FRED E. DURGIN, Chairman (term expires 1923).
 MICHAEL COLL, Vice Chairman (term expires 1924)
 GEORGE G. BRAYLEY, (term expires 1925)
Agent — WILLIAM E. COPITHORNE.
Warden City Home—J. FOSTER COLQUHOUN.
Matron City Home — CATHERINE COLQUHOUN.

Planning Board.

WILLIAM F. RILEY, Chairman (term expires 1926).
 DAVID J. KELLEY, Secretary (term expires 1924).
 BENJAMIN J. SURRETT (term expires 1925)
 JOHN WILLIAMSON (term expires 1927)
 GEORGE J. RAUH, (term expires 1923).

Registrars of Voters.

EDWIN D. SIBLEY, Chairman (term expires 1924).
 DOUGLASS B. FOSTER (term expires 1923).
 CHARLES LEO SHEA (term expires 1925)
 JASON M. CARSON, *City Clerk*.

Public Library Trustees.

THOMAS M. DURELL, Chairman (term expires 1925).
 J. FRANK WELLINGTON (term expires 1923).
 FREDERICK W. PARKER (term expires 1924).
 WILLIAM L. BARBER (term expires 1925).
 CHARLES L. NOYES (term expires 1923).
 HERBERT E. BUFFUM (term expires 1923).
 GILES W. BRYANT (term expires 1924).
 DAVID H. FULTON (term expires 1924).
 FRANK M. BARNARD (term expires 1925).
Librarian and Secretary—GEORGE H. EVANS.

Public Welfare and Recreation Commission.

ERNEST W. BAILEY (term expires 1923)
 SOPHIE C. BATEMAN (term expires 1923)
 CHARLES S. CLARK (term expires 1923)
 WILLIAM E. COPITHORNE (term expires 1923)
 GEORGE L. DUDLEY (term expires 1923)
 FLORENCE B. HAMILTON (term expires 1924)
 WILLIAM S. HOWE (term expires 1924)
 MARGARET L. MAGUIRE (term expires 1923)
 MARY M. MCGANN (term expires 1924)
 ANNIE M. SMITH (term expires 1924)

City Clerk.

JASON M. CARSON
Assistant City Clerk, HENRY J. ALLEN

City Treasurer and Collector of Taxes.

JOSEPH S. PIKE.

ANNUAL REPORTS.

City Messenger.
FRED E. HANLEY.

Mayor's Secretary.
SUMNER M. TEELE

City Solicitor.
FRANK W. KAAAN.

City Auditor.
HOWARD E. WEMYSS.

City Engineer.
ERNEST W. BAILEY.

Commissioner of Streets.
ASA B. PRICHARD.

Commissioner of Public Buildings and Inspector of Buildings.
GEORGE L. DUDLEY.

Commissioner of Electric Lines and Lights.
WALTER I. FULLER.

Water Commissioner.
FRANK E. MERRILL.

Superintendent of Sanitary Department.
EDGAR T. MAYHEW.

Clerk of Committees
RICHARD A. KEYES.

Chief of Police.
CHARLES A. KENDALL.

Chief Engineer of the Fire Department.
SEWALL M. RICH.

City Physician.
FRANK E. BATEMAN

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.

BENJAMIN S. ABBOTT.

Registration Clerk, City Laborers

FLORENCE A. COOK

Fence Viewers.

CHARLES M. BERRY,
HOWARD LOWELL,

Agent of Military and State Aid and Soldlers' Relief and Burial Agent.

BENJAMIN S. ABBOTT.

Constables.

MAURICE F. AHEARN.
CHARLES M. AUSTIN.
CHARLES W. F. BENNETT.
EUGENE A. CARTER.
WINSLOW W. COFFIN.
WILLIAM E. COPITHORNE.
ALBION B. CROCKER.
THOMAS DAMERY.
CHARLES L. ELLIS.
ARTHUR L. GILMAN.

FRED E. HANLEY.
JAMES M. HARMON.
FRED W. JACKSON.
HARRY E. JACKSON.
FRANK B. KARCHER.
CHARLES A. KENDALL.
ELBRIDGE G. LAVENDER.
EDWARD E. MARSH.
JOHN A. RAY.
JOHN F. SCANNELL.

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 2¾ 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, 96,000.

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. JOHN M. WEBSTER

Water Commissioner.

FRANK E. MERRILL

Office of the Water Department.

Room 10, City Hall.

Department Buildings and Yard.

Cedar street, near Broadway.

ADMINISTRATION OF WATER WORKS
VESTED AS FOLLOWS:

1868 — 1871

SOMERVILLE MYSTIC WATER COMMITTEE (5)
Acts 1868; Chap. 202

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 —

WATER COMMISSIONER (1)
Acts 1899; Chap. 240

REPORT OF THE WATER COMMISSIONER.

OFFICE OF THE WATER COMMISSIONER,

January, 1923.

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

I present herewith my report for the year ending December 31, 1922, this being the forty-ninth annual report of the water department and my twenty-third as water commissioner:

Revenue and Expenditures.

Water bills have been issued as follows:—

"Annual" water charges, amounting to	\$28,121 25	
"Additional" water charges, amounting to	1,241 06	
"Metered" water charges, amounting to	241,859 36	
		<u>\$271,221 67</u>
Abatements and refunds on above charges:		
Changes from "Annual" to "Meter"		
basis,	\$455 23	
Uncollectible	75 48	
Other reasons	603 00	
Carried forward for collection	179 55	
		<u>1,313 26</u>
Income from sale of water		\$269,908 41
Receipts; water service assessments	\$9,674 58	
Receipts; labor and materials sold:—		
Misc. accounts charged	\$4,991 15	
Abatements:		
Uncollectible	\$8 87	
Other reasons	27 81	
Carried forw'd	410 84	
	<u>447 52</u>	
	4,543 63	
		<u>14,218 21</u>
Total income of water works		\$284,126 62

This amount was used as follows:—

For water works purposes:—

Under Control of the Water Commissioner.

Water Works Maintenance	\$69,464 05	
Water Works extension	32,539 92	
Miscellaneous accounts	4,543 63	
	<u>\$106,547 60</u>	
		\$106,547 60

Brought forward	\$106,547 60
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Not Under Control of the Water Commissioner.

Metropolitan water works assessment	\$128,207 84	
Maintenance water works buildings	1,324 84	
		\$129,532 68

For other municipal purposes:—

Not Under Control of the Water Commissioner.

Surplus	\$48,046 34
Total	\$284,126 62

In addition to the appropriations from water income to other municipal purposes enumerated above, water has been furnished without charge to all the city departments that have required its use and it is paid for out of the income from sale of water.

Department Receipts and Disbursements.

WATER MAINTENANCE ACCOUNT.

Appropriations made by Board of Aldermen	\$76,725 00	
Department accounts; receipts	1,255 63	
Water works extension account; receipts	20,755 75	
Amount expended for labor and materials for operation, maintenance, and renewal of the water works	\$69,464 05	
Amount expended for materials used in extension of the water works	20,755 75	
Miscellaneous accounts	4,543 63	
Labor and materials furnished municipal departments	1,255 63	
Balance: Unexpended	2,717 32	
	\$98,736 38	\$98,736.38

WATER WORKS EXTENSION ACCOUNT.

Appropriations made by Board of Aldermen	\$35,500 00	
Amount expended for labor and materials used in extension of the water works	\$32,539 92	
Balance: unexpended	2,960 08	
	\$35,500 00	\$35,500 00

Cost of Water Works.

The total cost of water works on December 31, 1921, as represented by the expenditures from appropriations for water works extension was	\$1,095,206 73
Expended during the year 1922, on extension account	\$ 32,539 92
Total expenditures, December 31, 1922	\$1,127,746 65

Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1922, inclusive, is shown in the following table:—

Total water income	\$5,949,836 17
Distribution:—	

Water Works Account.

Water works Construction, Renewal, Maintenance, Operation and Miscellane- ous Accounts	\$1,540,920 67
Water bonds	274,000 00
Interest	86,575 00
Metropolitan Water Assessments	2,405,997 58
Maintenance Water Works buildings	9,617 10
	\$4,317,110 35

Other Municipal Accounts.

Various municipal departments through specific appropriations and general revenue account	\$1,632,725 82
	\$5,949,836 17

Water Distribution System—Construction.**STREET MAINS.**

Approximate number of feet of street mains in the city, January 1, 1922, (including hydrant branches and blow-offs)	542,780
Feet of street mains laid in 1922	7,254
Feet of hydrant branches laid in 1922	260
Feet of blow-off branches laid in 1922	52
	7,566
Total feet of pipe laid	7,566
Feet of pipe removed or replaced	674
	6,892
Net increase in feet of pipe	6,892
Total approximate feet of pipe in the city	549,672
Total pipe mileage, approximately	104.1

The sizes and lengths of pipe laid and discontinued are as follows:—

Size	Feet Laid	Feet Discontinued	Size	Feet Laid	Feet Discontinued
¾"	0	0	6"	482	529
1"	0	11	8"	2033	0
2"	87	124	10"	2014	0
4"	71	10	12"	2879	0

The pipes constructed and replaced during the year are as follows:—

Constructed:—	Size of Pipe	Feet Laid	Feet Discon- tinued	Size Discon- tinued
Alewife Brook Parkway	12"	1479		
Boston Ave	10"	48		
Corinthian Road	8"	242		
Cross St. East	12"	40		
Curtis St.	6"	23		
Fairfax St.	8"	949		
High St.	12"	416		
Kensington Ave.	12"	6		
Lewis St.	10"	362		
	2"	42		
Miller St.	6"	160		
Murray St.	6"	32		
Mystic Ave.	12"	382		
Parkdale St.	10"	491		
Pennsylvania Ave	10"	166		
Rose St.	8"	8		
Sterling St.	8"	680		
Talbot Ave	12"	72		
Upland Road	8"	154		
Woods Ave	10"	947		
Replaced:—				
Bradford Ave	2"	18	18	2"
Chapel Court	2"	22	11	1" }
			11	2" }
Cottage Circle	4"	31	31	2"
Linwood St.	12"	484	484	6"
Hydrant branches, blow-off pipes and water-post con- nections		312	119	
		<u>7,566</u>	<u>674</u>	

Hydrants, Gates etc.

Number of fire hydrants in city January 1, 1922	1,182
Number set during year	27
Number removed during the year	15
Net increase in number of hydrants	<u>12</u>
Total number of public fire hydrants	1,194
Number of private fire hydrants, January 1, 1922	64
Number added by revision of list	2
Total number of private fire hydrants receiving their supply from the city mains	<u>66</u>

Number of gates in city, January 1, 1922		1,900
Number set during the year for streets	16	
Number of section gates set	11	
Number set on hydrant branches	46	
Number set on blow-off branches	6	
Number set on car-sprinkler connections	0	
	—	79
Number of street gates removed	4	
Number of waterpost gates removed	5	
Number of blow-off gates removed	1	
	—	10
Net increase in number of gates		69
Total number of gates in city		1,969
<hr/>		
Number of check-valves in city		8
<hr/>		
Number of blow-offs in city January 1, 1922		185
Number added during the year	6	
Number discontinued	1	5
	—	—
Total number of blow-offs		190
<hr/>		
Number of waterposts in city January 1, 1922		72
Number removed during the year		6
		—
Total number of waterposts		66
<hr/>		
Number of drinking fountains in city		8
<hr/>		
Number of car-sprinkler connections in city		17

Water Services.

Number of services in city January 1, 1922 (approximately)		13,631
Number laid during the year	221	
Number permanently discontinued	8	
	—	—
Net increase in services		213
<hr/>		
Total number of water services in city		13,844
Amount received for services laid in 1922		\$9,674 58
Number feet service pipe in city January 1, 1922 (city and private) approximately		470,445
Number feet laid during the year	7,708	
Number feet discontinued	348	
	—	—
Increase in feet of service pipe		7,360
<hr/>		
Total feet service pipe (city and private) (approximately)		477,805
Total service mileage (approximately)		90.5

Size, number and length of services installed in 1922:—

164- $\frac{5}{8}$ "-5868'	35- $\frac{3}{4}$ "-1191'	11-1"-322'	3-1 $\frac{1}{2}$ "-75'
1-2"-27'	4-4"-150'	3-6"-75'	

Number of fire services installed during 1922
(Included in above) 6

Location of Fire Services	No.	Size
Boynton Yard — Consolidated Paper Bag Co.	1	6"
Conlon Ct. Ext. — Marden-Wild Corporation	1	4"
Fitchburg St. — Sands, Taylor & Wood Co. .	1	4"
Grove St. No. 10 — Thos. H. Kingston . . .	1	6"
Kent St., No. 29 — Camb. Color & Chem'al Co.	1	4"
Wash'gton St. — Youlden, Smith & Hopkins .	1	6"

Water Meters.

Number of water meters in city, January 1, 1923 . .		11,190
Number installed during the year, new	248	
Number reset	67	
Number added by revision of list	15	
	<hr/>	330
Number removed on account of permanent or temporary discontinuance of water and for substitution of other meters	73	
Net increase in number of operating meters		257
		<hr/>
Total number of meters in service		11,447
Number of motor registers (included in above) . . .		3
Per cent. of all services metered		82.68

Operating Meters December 31, 1922.

Size	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1½"	2"	3"	4"	6"	Total
No.	11,002	286	98	18	24	8	7	1	11,444

Motor and elevator registers	3
	<hr/>
	11,447

The meters installed in 1922 were classed as follows:—

Applications of property owners	20
New services	181
General installation	47
Reset	67
Revision of list	15
	<hr/>
Total	330

Meters were removed for the following causes:—

Vacancies and temporary non-use of water	44
Services permanently discontinued	12
Replaced by other meters	17
	<hr/>
Total	73

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928: —

	Average installation required on old services	Meters set on old services	Set in excess of requirements	Total excess	Meters set on new services
1908	411	755	344	344	147
1909	411	637	226	570	201
1910	411	501	90	660	169
1911	411	528	117	777	200
1912	411	423	12	789	236
1913	411	432	21	810	255
1914	411	422	11	821	231
1915	411	439	28	849	217
1916	411	434	23	872	203
1917	411	163	248†	624	154
1918	411	82	329†	295	39
1919	411	166	245†	50	23
1920	411	115	296†	246†	45
1921	411	663	6	6	60
1922	411	67	344†	338†	181

† Deficiency.

The following table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption: —

Year	Population	Number of Services	Number of Meters	Per Cent Metered	Per Capita Consumption (Est.)
1897	58,000	9,601	.....	.....	88
1898	59,000	9,806	143	1.5	88
1899	61,000	10,052	226	2.25	88
1900	62,000	10,291	202	2	88
1901	64,000	10,520	224	2	88
1902	66,000	10,710	269	2.5	88
1903	68,000	10,854	647	6	88
1904	69,000	11,059	1,272	11.5	Met. 89
1905	70,000	11,279	2,092	18.5	89
1906	71,000	11,489	2,829	24.5	89
1907	72,000	11,662	3,455	29.5	90
1908	74,000	11,817	4,333	36.5	89
1909	76,000	12,018	5,155	43	84
1910	78,000	12,149	5,817	48	80
1911	79,000	12,357	6,533	53	74
1912	80,000	12,596	7,171	57	79
1913	82,000	12,827	7,856	61	72
1914	85,000	13,034	8,499	65	73
1915	87,000	13,233	9,155	69	67
1916	90,000	13,420	9,763	72.75	69
1917	91,000	13,509	10,028	74.23	73
1918	91,000	13,514	10,116	74.86	80
1919	92,000	13,544	10,322	76.21	69
1920	93,033	13,554	10,472	77.26	77
1921	95,000	13,631	11,190	82.11	73
1922	96,000	13,844	11,447	82.68	76

Summary of Pipes and Fixtures of the Water System.

December 31, 1922.

Feet of main pipe (approximately)	549,672
Feet of service pipe (approximately)	477,805
Service connections (approximately)	13,844
Public fire hydrants	1,194
Private fire hydrants	66
Gates	1,969
Check Valves	8
Meters	11,447
Motor registers	3
Waterposts	66
Car-sprinkler connections	17
Blow-offs	190
Drinking fountains and troughs	8

WATER ASSESSMENTS AND CONSUMPTION.

The annual assessments paid by this city as its proportionate part of the cost and operation of the Metropolitan water works are given below:—

Year	Sinking Fund	Maintenance	Interest	Maturing Bonds	Total
1898.....	No division made				\$14,250 19
1899.....	“	“			20,975 58
1900.....	“	“			28,689 24
1901.....	\$12,491 73	\$12,033 79	\$32,291 24		56,816 76
1902.....	19,014 85	12,955 64	30,427 40		62,397 89
1903.....	15,748 56	12,763 10	48,776 77		77,288 43
1904.....	16,404 42	15,393 87	54,938 64		86,736 93
1905.....	21,358 11	13,666 71	55,535 91		90,560 73
1906.....	22,345 50	17,412 51	57,402 07		97,160 08
1907.....	25,365 30	18,880 01	62,089 30		106,334 61
1908.....	24,865 73	15,221 12	68,604 23		108,691 08
1909.....	24,812 23	21,220 56	66,540 41		112,573 20
1910.....	25,018 52	18,212 28	66,825 45		110,056 25
1911.....	25,424 55	19,573 82	69,849 26	\$246 66	115,094 29
1912.....	24,469 82	16,111 70	68,205 16	445 46	109,232 14
1913.....	24,930 94	20,691 19	70,206 83	491 92	116,320 88
1914.....	14,190 98	22,488 71	73,138 81	180 63	109,999 13
1915.....	14,164 65	21,376 07	74,111 12	1,129 50	110,781 34
1916.....	13,249 71	21,643 98	74,058 98	1,515 62	110,468 29
1917.....	13,364 71	28,110 19	75,117 17	1,833 60	118,425 67
1918.....	14,193 89	29,185 04	79,975 44	2,004 18	125,358 55
1919.....	13,765 81	33,723 64	78,335 58	2,257 87	128,082 90
1920.....	12,559 45	37,814 68	74,903 80	2,227 81	127,505 74
1921.....	11,956 69	43,942 28	75,848 98	2,241 89	133,989 84
1922.....	11,119 49	37,015 40	77,490 17	2,582 78	128,207 84
					<u>\$2,405,997 58</u>

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 1922:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January	7,523,000	78	July	7,567,200	78
February	7,113,300	74	August	7,229,000	74
March	7,095,600	74	September ..	6,896,700	71
April	6,894,000	71	October	7,527,300	77
May	7,320,500	76	November ..	7,579,400	78
June	7,626,200	79	December ..	7,877,300	81

The consumption for the year was:—

Low-service system	2,090,461,000	gallons
High-service system	594,938,000	gallons
Total consumption	2,685,399,000	gallons
Average daily consumption	7,357,300	gallons
Average daily consumption, per capita, for Somerville		76 gallons
Average daily consumption, per capita, for Metropolitan district		94 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 1922, as registered by the Metropolitan meters:

City or Town	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Arlington	55	53	51	50	60	58	55	56	54	55	50	51	54
Belmont	50	51	53	54	60	59	58	58	62	60	57	57	57
Boston	121	117	108	107	103	109	107	109	108	110	107	113	110
Chelsea	82	80	74	70	77	78	78	77	73	75	72	75	76
Everett	92	89	85	81	85	87	87	84	85	87	85	90	86
Lexington	65	66	71	76	69	71	64	66	70	65	54	53	66
Malden	51	50	48	48	51	53	53	55	56	55	53	56	53
Medford	50	51	49	48	52	55	47	54	52	53	53	53	51
Melrose	61	59	61	61	64	66	66	65	61	63	60	58	62
Milton	42	43	42	43	48	47	42	43	46	50	49	45	45
Nahant	78	97	70	74	117	197	204	216	175	93	62	57	120
Quincy	85	83	87	86	88	90	85	85	86	79	79	75	84
Revere	72	67	63	63	71	72	80	81	74	69	61	66	70
Somerville	78	74	74	71	76	79	78	74	71	77	78	81	76
Stoneham	64	64	59	57	65	68	66	66	66	64	64	76	65
Swampscott ..	59	59	62	60	72	92	100	107	88	69	59	56	74
Watertown	78	74	69	64	69	77	78	75	75	75	77	71	73
Winthrop	51	50	50	50	54	58	65	67	57	51	49	49	54
Met. Dist.	101	98	92	91	90	95	93	95	93	94	92	96	94

The district, in order of per capita consumption, beginning with the lowest, stands as follows for the year 1922:

City of Town	Gallons		Per. Cent. Services Metered
	Total Per Day	Per Capita per Day	
Milton	436,000	45	100
Medford	2,193,400	51	100
Malden	2,698,000	53	97
Arlington	1,059,600	54	100
Winthrop	902,400	54	99
Belmont	673,200	57	100
	1,167,800	62	99
Stoneham	523,200	65	98
Lexington	440,000	66	99
Revere	2,202,200	70	82
Watertown	1,621,800	73	100
Swampscott	629,800	74	100
Chelsea	3,416,500	76	99
Somerville	7,357,300	76	82
Quincy	4,253,700	84	91
	3,648,900	86	75
Boston	85,871,000	110	65
Nahant	172,300	120	76
Total District	119,267,100	94	77

Construction — Maintenance — Operation.

The construction work of the department is divided roughly into three classes, viz: installation of (1) water mains; (2) water services; (3) meters.

In the first two classes there has been a notable increase of activity during the year, while but comparatively few meters have been installed.

Details of construction work are given in the tables printed in this report; suffice it to say here that more feet of street mains to supply new buildings have been laid and more services have been installed during this year than in any other since 1914.

The following table is of interest as it gives the

Class of Premises Covered by Service Installation.

Automobile Sales Building	1
Bakery	1
Chemical laboratory	1
Dwelling houses	173
Factories	3
Factories; fire pipes	3
Garages; private	8
Garages; public	1
Garage; fire pipe	1
Gasoline filling stations	6

Lumber yard	1
Lunch cart	1
Milk station	1
Office	1
Paint shop	1
Stable	1
Stores	12
Storage warehouse	2
Storage warehouse; fire pipes	2
Tenements and stores; block	1
	<hr/>
Total service installations	221

Maintenance and upkeep may also be divided into several classes, viz: (1) general operation; (2) street mains and attachments (hydrants, valves etc.); (3) services and fittings; (4) meters and boxes; (5) tools and equipment; (6) transportation.

The principal job on maintenance of street mains was the completion of replacing the old 6" pipe in Linwood street in anticipation of the street paving.

The hydrant and valve system has been as well looked after as labor and transportation conditions would permit; it is hoped soon to be able to institute a systematic method of inspection.

The increasing use of motor trucks is causing a noticeable addition to our work in the upkeep of the fire hydrant system, as many hydrants are broken by the operation of these vehicles in our streets. In most cases the department is able to obtain a settlement for the amount of the damages.

Other hydrants are put out of order by contractors and other inexperienced men using them without authority.

Our fire service system, covering about 1,200 hydrants, has been installed at large expense for protective purposes only and should not be used except by firemen in the discharge of their duties or by authorized waterworks employees. Our city ordinances prescribe penalties for unlawful use of fire hydrants and it may be necessary to bring offenders before the Courts for punishment. Some contractors argue that because the city gives them water without charge in doing work for the city that they are entitled to get it by operating the fire hydrants. In every such contract made by the city it should be clearly stated, so that there can be no misunderstanding, that the fire hydrants must *not* be opened by contractors.

The service branch of our department work, with its nearly 14,000 pipes, demands a large share of our labor and

equipment and we have found it very difficult to keep up with the calls for improved water supply.

As each succeeding year adds to the amount of corrosion and filling up of the older pipes and fittings the problem of keeping them clear and satisfying the legitimate requirements of our water-takers becomes more and more difficult.

It is certain that more men and equipment will have to be provided for this work.

In anticipation of the permanent paving of a portion of Beacon street all the service pipes appearing to need renewal between Buckingham and Park streets were replaced with new lead pipes.

With nearly 12,000 water meters in operation the maintenance of this branch of our work keeps several men with equipment busily employed.

Our meter system sprang into intensive existence twenty years ago and has steadily increased in volume and importance. Besides the periodical reading of the meters and the accounting necessary for billing and collecting the rates, which are handled in the general office, there is a large and constantly expanding shop expenditure for the upkeep of the meters installed and this will grow with increased installation and advancing age of the meters in service. Ample provision must therefore be made for carrying on this permanent branch of the department work.

It is the custom of the department to own the meters and to furnish them without charge to the property owners, but to require payment from them of the cost of installation of the meters.

In most cases the rate-payers find their payments for the period of a year on metered consumption considerably less than on the old "annual" rate basis, although to secure this benefit proper attention must be given to leakages and other waste of water.

Under the law requiring all new houses to be metered 181 meters were installed. The general installation, however, eased up on account of the unusual activities in other directions, and there were but 67 of this class installed, making the city at the close of the year 82.68% metered.

Repairs must soon be made to some of our machine-shop tools and additional equipment must be provided for carrying on our service cleaning work.

Additional transportation in the form of at least two new trucks must be provided very soon to take the place of old and worn-out motor vehicles. Certain of our transportation equipment is of ancient date and, costing the city but little in the first place, can well afford to be laid aside now

in favor of heavier trucks, better fitted for our requirements.

The general operation of the department is under the direction and control of the water commissioner. This includes the supervision of all branches of the work, extensions of the distribution system, purchase of supplies, employment of labor and settlement of the many problems arising in a water system supplying a population of nearly 100,000 people.

Pitometer Survey.

During the year a survey has been made by the Pitometer Company of New York of the entire high-service district of the city and of one section of the low-service district including the packing houses and railroad yards. The results were very satisfying as showing the generally tight condition of the water mains and services in the two portions of the city surveyed.

The general scope of the survey covered the following points: (a) A subdivision of the section to be surveyed into districts and measurements of the consumption throughout the twenty-four hours; (b) Subdivision of the districts where excessive waste was indicated, and investigations of all blocks on which high rates of flow were indicated to determine the cause; (c) A test of the Metropolitan Venturi meters for accuracy; (d) A check on large consumers for a period of twenty-four hours; (e) A test of all meters 4" and over for accuracy; (f) A report of the work done and results accomplished.

Methods of the survey: The entire high-service system was divided into four districts, containing about 30½ miles of street mains and a population estimated at 30,000.

District 1 of the low-service system, embracing in a broad expression that part of the city lying south of Somerville avenue and Washington street, was also divided into four districts covering about 18 miles of water mains and an estimated population of 17,000.

Each district was formed by closing a line of boundary gates around the area to be tested, supplying that area through but one pipe. A pitometer was then inserted into this supply main through a 1" corporation cock and a continuous measurement of the flow through it was made for a period of twenty-four hours.

As a general rule in districts where the minimum night rate is less than 50% of the average daily consumption the condition is considered satisfactory. However, in this survey all residential districts were investigated by sub-division at

night, by supplying the district through the same or a smaller feed and by closing interior and opening exterior valves; then, by noting the corresponding drops in the consumption indicated by the pitometer, the rate of flow for each block was determined.

In high rate blocks where the rate could not be accounted for by large consumers, the underground waste or leakage was located with various forms of listening devices.

In the tests of the Venturi meters, a pitometer was set up on the main leading from the meters and readings were taken from the Venturi charts and compared with the pitometer records for a period of twenty-four hours.

The large city meters were tested by placing a pitometer on the main or service pipe leading into the meter and measuring the flow for a period of twenty minutes.

The results of investigations on the total supply showed that during the period of the test the total consumption of the high-service system was 1,587,000 gallons a day and the minimum night rate was 1,047,000 a day. On a basis of the estimated population the per-capita consumption was approximately 53 gallons a day.

The total amount of leakage disclosed in the survey of the high-service was 228,000 gallons a day. Of this amount leaks of 106,000 gallons a day were discovered and were being repaired by the water department. The remaining 182,000 gallons a day represents the real saving due to the pitometer survey. All of the leaks were on house services and one of them was discharging out of holes in the pipe and running into a nearby sewer at the rate of 110,000 gallons a day. There was nothing on the surface of the ground to indicate any leakage but the earth filling around the leaking pipe gave every indication that the water had been escaping and running into the sewer for some time.

Respecting the valves in the high-service system the report states: "Most of the valves were found to be in very good condition. About 70% of the valves were operated. The majority of the valve boxes were covered by a tar paving making it difficult to locate them. The division gates and check valves were almost 100% tight. The water department is to be commended for this excellent condition of the division gates, because it is highly important in cities that have both high and low-service to keep the two entirely separate."

Of the hydrants the report reads: "Only a small percentage of the total number were operated during our survey; however those we did operate were in first class condition."

Regarding the mains the report says: "The mains were found to be very clean and free from loose sediment. Very few complaints were recorded during the survey which, in most cases, reversed the flow entirely and would have dislodged mud and all loose sediment if present."

The report on the high-service system concludes as follows: "As a whole the high-service system was found to be in very good condition. During our survey we observed that leaks large and small were attended to without delay, and the desire of the water department seemed to be to keep the system in the best condition possible at all times."

The following recommendation was also made: "In order to have two large mains feeding West Somerville the 12" main in Dearborn road and College avenue should be extended west along Talbot avenue and connect with the present main therein."

In that section of the low-service system which was investigated and which has been previously referred to, the average daily consumption was found to be 3,190,000 gallons and the minimum night rate was 2,200,000 gallons or 69% of the average daily rate. This is largely an industrial section of the city and considerable water is used nights in the several packing-house plants and in the extensive yards of the Boston & Maine Railroad, the figures showing an industrial and miscellaneous consumption daily of 1,975,000 gallons. The average daily rate of consumption per capita in the residential sections of this district is shown to be about 56 gallons.

The leakages discovered in this district by the pitometer survey were scattered and mostly small but amounted in total to 108,000 gallons a day, or 6,000 gallons per mile of street mains.

Of the meter tests in Section 1 of the low-service system the report of the Pitometer Company reads: "About two-thirds of the consumption of Section 1 is taken up by Districts No. 3 and No. 4 and practically all of it is actually accounted for by meter registration. This condition is very commendable for the water department. All the tests on the meters were made during normal flow. Two of the four-inch meters had been recently repaired and overhauled by the water department and were found O. K. The 6" Worthington meter was found to be registering exactly. This meter registers the greatest flow of any of the large meters. An average daily flow through it is 250,000 gallons. It was impossible to test the remainder of the large meters at this time due to intricate piping adjacent to them." The report also shows a 4" Gem meter and a 4" Trident Compound meter to be registering accurately on a test covering a period of 16 minutes.

Concerning the valves the report states: "About 80% of the valves in the section were operated. They were found to be in very good condition." Of the mains the report reads: "The mains are also in first-class condition. The average pipe coefficient obtained from the tests was .82"

The report on this section of the low-service system concludes: "As has been stated before, the industrial consumption accounts for practically two-thirds of the total consumption of Section 1, and the same is mostly metered.

The water waste in and around these large plants is very low and we consider the existing conditions very good. No large leaks were discovered in the residential districts; however the average rate per block is higher than it need be and there is probably quite a little unmetered fixture leakage. A rigid inspection of all plumbing in unmetered buildings would undoubtedly bring results. A thorough investigation was made on all blocks having a large rate of flow and in almost every case small fixture leaks were discovered. In general the condition of Section 1 of the low-service is very good and the water department is to be commended for the excellent condition existing in and about the plants of the largest consumers."

The Company makes the following recommendations: (1) All valves and hydrants should be operated at least once a year. (2) Gate boxes should be maintained up to grade so that they can be easily located in case of emergency.

As the city is now about one-half covered by the survey of the Pitometer Company I recommend that the remaining portion be tested out during the coming year.

Financial Statistics of Cities.

From a census report issued by the Department of Commerce as of December 31, 1920, showing the total and per capita water revenue receipts from earnings, and the total and per capita expenses and outlays, the following figures, interesting from their very favorable comparison with other cities of about the same population, are taken:

City: Somerville, Mass.
Rank in population: 78

Water Revenue receipts from earnings; per capita \$2.74
Water Payments for expenses and outlays; per capita \$1.12

Additional High-Service Supply.

The Metropolitan District Commission has nearly completed the construction of an additional supply main from

near the reservoirs at Spot Pond to a point near their present connection with our local high-service system in Broadway at Cedar street. It is hoped that this will materially strengthen the conditions at present existing in our high-service supply. I think it would be wise now to extend our own high-service main through Cedar street from the water-works yard to a connection with the existing main at Hudson street in order to boost the delivery of high pressure water at this central point of the city and equalize its distribution throughout that district.

I also recommend the early construction of a 12" water main in Talbot avenue, connecting the two existing dead ends in order to bring in a larger supply to the West Somerville high-service district.

Our low-service supply also is in need of building up in Joy and Poplar streets and I recommend that the old mains in these two streets be replaced with larger pipes during the coming season.

Water Income.

The water income for the year was the largest ever received, amounting to \$284,126.62. Notwithstanding the heavy outlays of the department, construction account showing more than double that of the previous year, a substantial surplus of over \$48,000 is recorded on our books.

As usual, all department bills contracted during the year were paid from the amounts appropriated and the year closed with no current liabilities and no funded indebtedness.

Respectfully submitted,

FRANK E. MERRILL,

Water Commissioner.

Beacon Street	Gate on Hydrant Branch: 77' north from north line of Fairfax Street, 5' west from east line of the Parkway. (Hydrant not yet installed.)	6"	5	6" Smith	
	Gate on Hydrant Branch: 28' west from west line of Buckingham Street and 4' out from hydrant.			6" Rens.	
	Gate on Hydrant Branch: 8' west from west line of Waldo Avenue and 4' out from hydrant.			6" Rens.	
	Gate on Hydrant Branch: 79' west from west line of Calvin Street and 4' out from hydrant.			6" Laud.	
	Gate on Hydrant Branch: 26' east from east line of Washington Street and 4' out from hydrant.			6" Laud.	
	Waterpost and Gate Removal: 135' east from Washington Street.		2"		2" Chap.
Boston Avenue	Street Main: From connection with main in Boston Avenue at point 10' south from south line of Prichard Avenue to dead end 58' south from south line of Prichard Avenue.	10"	48		
Boynnton Yard (Glass House Ct)	Hydrant Removal: 360' west from Water Street, near corner of Windsor Street. (1916)		6"		6" Mat.
Bradford Avenue	Street Main Replaced: near School Street, 6 feet; near dead end of Bradford Avenue, 12 feet.	2"	18		
	Blow-off Gate: 151' east from east line of School Street 13' south from north line of Bradford Ave.	2"	5	2" Chap.	
Cady Avenue	Hydrant: 145' west from Simpson Avenue.	6"	20		6" Corey
	Gate on Hydrant Branch: 145' west from west line of Simpson Avenue and 4' 6" out from hydrant.			6" Rens.	
Chapel Court	Street Main Replaced: From connection with main pipe in Sycamore Street to gate on west line of Sycamore Street.	2"	22		
	Gate and Gate Removal: 1' 10" north from south line of Chapel Court, on west line of Sycamore St.		2"		
	Street Main: From connection with main pipe in Corinthian Road at point 331' south from south line of Broadway to connection with main pipe in Cady Avenue; completing the pipe line in this street.	8"	242		
	Gate: On north line of Cady Avenue, 13' 4" east from west line of Corinthian Road.			8" Rens.	
Corinthian Road	Street Main Replaced: From connection with main pipe in Cottage Avenue to point 4' west from west line of Cottage Avenue.	4"	31		
	Gate: On west line of Cottage Avenue, 8' 4" north from south line of Cottage Circle.		2"	4" Rens.	2" Chap.

STREET.	DESCRIPTION.	PIPE.			GATES.			HYDRANTS.			BLOW-OFFS.			WATER POSTS.			
		I.A.I.D.	DISCONT'D	Feet.	SET.	DISCONT'D	Kind	Size.	SET.	Kind	Size.	DISCONT'D	SET.	Kind	Size.	No.	Dis- c't'd
Cross St. Place	Hydrant: 7' west from Cross Street. Gate on Hydrant Branch: 7' west from west line of Cross Street and 3' 6" out from hydrant.	6"		14													
Cross Street	Hydrant Removal: 32' north from Cross Street Place. Hydrant Removal: 6' north from Pearl Street. Hydrant: 8' north from Otis Street, on schoolhouse lot.	6"	6"	6	6" Rens.												
Cross St. East	Gate on Hydrant Branch: 8' north from north line of Otis Street, in sidewalk 4' 6" out from hydrant. Street Main: From connection with main pipe in Pennsylvania Avenue to point 12' north from north line of Pennsylvania Avenue. Section Gate: On north line of Pennsylvania Avenue, 13' 4" west from east line of Cross St. East. Waterpost and Gate Removal: 64' north from Broadway.	12"	6"	40	6" Rens.												
Curtis Avenue	Gate on Hydrant Branch: 206' west from west line of Curtis Street and 4' 4" out from hydrant.		2"	5	12" Rens.												
Curtis Street	Street Main: From connection with main pipe in Curtis Street at point 10' south from south line of Upland Road to connection with main pipe in Upland Road.				6" Ren.												
Delaware Street	Gate: On east line of Aldrich Street, 13' south from north line of Delaware Street.	6"		23	6" Rens.												
Fairfax Street	Street Main: From connection with main pipe in Fairfax Street at gate on west line of North Street to connection with main pipe in Alewife Brook Parkway. Gate: On east line of Alewife Brook Parkway, 13' 4" north from south line of Fairfax Street.	8"		949	8" Rens.												

Section Gate: 566' east from east line of Alewife Brook Parkway, 13' 4" north from south line of Fairfax Street.	6"	1	8" Rens.	6" Corey
Hydrant: 80' west from North Street.	6"	3	6" Rens.	
Gate on Hydrant Branch: 80' west from west line of North Street and 4' out from hydrant.	6"	3	6" Smith	
Gate on Hydrant Branch: 569' east from east line of Alewife Brook Parkway. (Hydrant not yet installed.)	6"	3	6" Smith	
Gate on Hydrant Branch: 148' east from east line of Alewife Brook Parkway. (Hydrant not yet installed.)	6"	3	6" Smith	
Gate Removal: 12' west from east end of Fitchburg Street and 14' south from north line of Fitchburg Street. (Gate was on discontinued supply main to old McLean Asylum Grounds.)	6"	10	4" 10	6" Chap.
Hydrant Removal: 14' west from east end of Fitchburg Street.	6"	10	6" Smith	6" Hol.
Hydrant: 144' east from Linwood Street.	6"	10	6" Rens.	
Gate on Hydrant Branch: 144' east from east line of Linwood Street and 3' 6" out from hydrant.	6"	4	6" Rens.	6" Hol. (Gt.)
Gate: On north line of Washington Street, 7' west from east line of Franklin Avenue.	6"	4	6" Rens.	
Gate Discontinued: 11' south from north line of Washington Street, 7' west from east line of Franklin Avenue. (Gate was left in ground and is open; gate box was removed.)	6"	4	6" Rens.	
Hydrant: 277' north from Washington Street.	6"	4	6" Rens.	
Gate on Hydrant Branch: 277' north from north line of Washington Street and 2' out from hydrant.	6"	4	6" Rens.	
Street Main: From connection with main pipe in High Street at point 264' west from west line of North Street to connection with main pipe in Alewife Brook Parkway; completing the pipe line in this street.	12"	416	12" Rens.	
Gate: On east line of Alewife Brook Parkway, 13' 4" north from south line of High Street.	6"	4	12" Rens.	
Section Gate: 389' west from west line of North Street, 13' 4" north from south line of High Street.	6"	4	6" Rens.	6" Corey
Hydrant: 385' west from North Street.	6"	4	6" Rens.	
Gate on Hydrant Branch: 385' west from west line of North Street, 4' out from hydrant.	6"	3	6" Rens.	

Fitchburg Street

Franklin Avenue

High Street

Linwood Street	Street Main Replaced: From connection with main pipe in Linwood Street at section gate 492' south from south line of Washington Street to connection with main pipe in Linwood Street at point 8' south from south line of Washington Street; completing the 12" line in this street. Hydrant: 7' south from Washington Street. Gate on Hydrant Branch: 7' south from south line of Washington Street and 4' out from hydrant. Gate on Hydrant Branch: 384' south from south line of Washington Street and 3' out from hydrant. Hydrant Replacement: 52' north from Crown Street. Gate on Hydrant Branch: 52' north from north line of Crown Street and 3' out from hydrant. Hydrant Removal: 32' north from Stickney Avenue. Hydrant: 22' 6" north from Stickney Avenue. Gate on Hydrant Branch: In sidewalk, 26' 6" north from north line of Stickney Avenue and 4' north from hydrant. Hydrant Replacement: 48' east from Claremon St. Gate on Hydrant Branch: 48' east from east line of Claremon Street and 3' 6" out from hydrant. Hydrant: 193' south from Somerville Avenue. Gate on Hydrant Branch: 193' south from south line of Somerville Avenue and 4' 9" out from hydrant. Street Main: From connection with main pipe laid in Miller Street in 1921 at point 12' north from north line of Beacon Street, northerly to tee located at point 131' north from north line of Beacon Street. Also, from connection with said tee easterly 20' to connection with existing main in Miller Street. Gate: On east line of Miller Street, at angle, 11' south from north line of Miller Street.	12"	484	6"	484	6"	6" Corey
Lowell Street		6"	9		6"	Rens.	
Marshall Street		6"	9		6"	Rens.	
Mead Street		6"	3	6"	3	6" Corey 4" Big	
Merriam Street		6"	7			6" Mat.	
Miller Street		6"	160			Rens.	
Murray Street	Street Main: From connection with 6" main pipe in Murray Street at point 28' north from north line of Roland Street to point 4' south from north line of Roland St. Gate: On north line of Roland Street and 10' east from west line of Murray Street.	6"	32			Rens.	

Powder House Boulevard	Hydrant Removal: 190' west from Packard Avenue. Hydrant: 182' west from Packard Avenue. Gate on Hydrant Branch: 188' west from Packard Avenue on south side of the Boulevard, in grass plot 6' out from the hydrant.	6"	Rens.	6" (Tap.	6" Hol. C.	
Rose Street	Street Main: From connection with main pipe in Rose Street at point 7' south from south line of Rose Street to a connection with main pipe in Lewis Street	8"				
School Street	Gate on Hydrant Branch: 6' south from south line of Montrose Street and 9' 6" out from hydrant.	4"	Rens.			
Somerville Avenue	Gate on Hydrant Branch: 90' west from Prospect Street and 4' out from hydrant. Hydrant Replacement: 86' west from Granite Street. Gate on Hydrant Branch: 86' west from west line of Granite Street and 4' 6" out from hydrant. Gate on Hydrant Branch: 116' west from west line of Wilson Square and 4' out from hydrant. Gate on Hydrant Branch: 600' east from east line of Mossland Street and 4' out from hydrant. Gate on Hydrant Branch: 308' east from east line of Mossland Street and 4' out from hydrant. Gate on Hydrant Branch: 188' west from west line of Mossland Street and 4' out from hydrant. Gate on Hydrant Branch: 96' west from west line of Acadia Park and 4' out from hydrant. Section Gate: 33' 6" west from west line of Wilson Square and 18' south from north line of Somerville Avenue. Section Gate: On west line of Mossland Street and 17' south from north line of Somerville Avenue. Blow-off and Gate: 28' 4" west from west line of Wilson Square and 24' south from north line of Somerville Avenue.	6" 4" 6" 6" 6" 6" 6" 6" 6" 8" 6" 4"	Rens. Rens. Smith Chap. Rens. Rens. Rens. Rens. Rens. Rens. Rens. Rens.	6" Chap. 6" Chap.		
	Waterpost and gate removal: 119' west from School Street. Waterpost and gate removal: 35' east from Central Street. Waterpost and Gate Removal: 120' west from Edward Wilson Square. Waterpost and Gate Removal: 44' east from Mossland Street.	2" 2" 2" 2"	Chap Chap Chap. Chap.			1 1 1 1

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1922.

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 96,000.

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, 1922, 96,000.

Population supplied, Dec. 31, 1922, 96,000.

Total consumption for the year, 2,685,399,000 gallons.

Average daily consumption, 7,357,300 gallons.

Gallons per day to each inhabitant, 76.

Statistics Relating to Distribution System, 1922.

MAINS

Kind of pipe, cast iron.

Sizes, from 4-inch and under to 20-inch.

Laid 7,566 feet; discontinued 674 feet; net extension, 6892 feet.

Total now in use, 104.1 miles.

Number of hydrants added during year (public, 12; private, 2), 14.

Number of hydrants (public and private) now in use, 1,260.

Number of stop gates added during year, 69.

Number of stop gates now in use, 1,969.

Number of blow-offs, 190.

Range of pressure on mains, 35 pounds to 100 pounds.

SERVICES

Kind of pipe: Lead; lead-lined wrought iron; cement-lined wrought iron; cast iron.

Sizes, one-half to eight inches.

Extended 7,708 feet; discontinued 348 feet.

Total now in use 90.5 miles.

Number of service taps added, 221; discontinued, 8; increase, 213.

Number now in use, 13,844.

Number of meters added, 330; meters and motor registers discontinued, 73; net increase, 257.

Number now in use, 11,447.

Percentage of services metered, 82.68.

Percentage of water receipts from metered services, 89.4.

Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 3 (included in number of meters).

EXPENDITURES

REVENUE

From Water Rates: —					
Fixture rates	\$28,669 38				
Meter rates	241,239 03				
Total from consumers	<u>269,908 41</u>				
From other sources: —					
Water service assessments	9,674 58				
Labor and materials	4,543 63				
Total					\$74,007 68
Total					<u>1,324 84</u>
Water Works Maintenance:—					
Operation (Management, repairs and renewals)				\$69,464 05	
Special: —					
Miscellaneous accounts			4,543 63		
Total					
Water Works Buildings					
Water Works Construction: —					
Mains				\$20,841 76	
Services				9,158 73	
Meters				2,539 43	
Total construction					\$32,539 92
Metropolitan water assessment					128,207 84
Balance					48,046 34
Total					<u>\$284,126 62</u>
Disposition of balance: applied to municipal purposes.					
Cost of works to date	\$1,127,746 65				
Bonded debt at date	None				

REPORT OF PUBLIC WELFARE AND RECREATION COMMISSION.

To the Public Welfare and Recreation Commission :

In pursuance with annual custom I am submitting to your Commission the report of the summer playgrounds for the season of 1922. In this report I shall endeavor to recount the accomplishments of the past season and to mention the things which in my opinion are essential to future success of the playground work.

Features.

In the opinion of the Director there were some few outstanding features of the season of 1922. I shall but name them under this caption and refer more fully to them under more appropriate headings.

A considerable gain was made in the amount of permanent equipment secured for the playgrounds.

Central Hill Park proved itself to be an attractive place for playground purposes.

Much more satisfactory use was made of the wading facilities at the Richard Trum playground and the tennis courts on the public areas, due, in part, to the repairs and additional care taken of the same.

Grounds.

Playgrounds were conducted on eight areas during the past summer. These areas were the same as those used the previous year, and with the possible exception of the Hodgkins School yard in ward seven, all of the grounds justified their being used for the purpose. The one exception named has been of late years rather poorly attended by the children of the neighborhood, and despite efforts to improve the attendance, rarely attracts more than an average of thirty children at one time. While, of course, even this small number might justify its continuance, my observation leads me to believe that the early completion of the ground in the rear of the Western Junior High School is most desirable.

This latter area will afford more ample space for the playing of active games and in addition, has the added asset of being more suitably located for the persons of that section of the city. Informal plans have also been stated relative to improving the rear end of the Saxton C. Foss Park in the near future. Such changes as have been contemplated are in my opinion most desirable and will do much toward getting the maximum use out of this area for recreation purposes.

I again call to your attention the necessity for more space for playing in the districts served by the Kent Street and Bennett School playgrounds. Each of these grounds caters to a very populous section of our city and both are at present inadequate for the playing of active games.

The playground on Central Hill which was opened for the first time during the summer of 1921, was during the past summer, one of the best attended grounds in the city, despite the fact that it is void of any permanent equipment. I strongly urge that before the coming summer, provision be made for some permanent apparatus on Central Hill Park. I believe that such equipment can be located on the rear part of the hill without injuring in any way the sightliness of the location.

Finances.

There was expended during the summer of 1922 from the city treasury for playground purposes the sum of \$2225.29. Of this amount the expense for supervision was \$1763.00, for supplies and maintenance \$424.89, and for labor \$37.50. In addition approximately \$400.00 was spent from the treasury of the Somerville Playgrounds Association. This last amount was devoted almost entirely to the furnishing of permanent equipment. A new swing frame for the use of the smaller children was erected on the Bennett School ground, and a similar one was placed on the Kent Street ground. By utilizing the pipe obtained from a portion of the old gymnasium structure on Lincoln Park, the swing apparatus of the Richard Trum playground was augmented by a new section capable of holding eight additional swings, and at the Saxton C. Foss Park eleven new swings were hung in place of the six which had heretofore been in use. Besides the above named improvements, the funds of the Somerville Playgrounds Association supplied twenty additional tilts for use through-

out the city, and a large quantity of swing chains, seats, and fittings.

Due to this financial assistance received from this Association, more new apparatus and equipment was provided during the summer of 1922 than during any previous year since the original construction work was done at the outset of the playground movement in Somerville. In this connection it may be appropriate to state that practically all of the permanent equipment now in use, of the playground system, particularly on those areas not under the control of the City Engineer's Department, has been obtained from the funds supplied by this civic organization.

Supervision.

For the first time in the history of playgrounds in this city the supervisors were put on a Civil Service basis, due to the requirements of the state authorities. Besides the Directors, sixteen persons were employed to supervise the play activities. Of this number, fourteen were assigned to local playgrounds and two acted as special supervisors of handwork and dancing. All but two of the supervisors were residents of Somerville. This statement is made to show that despite the Civil Service restrictions as to qualifications, it was possible to secure from among our own residents efficient supervision. From acquaintance with the conditions in other municipalities like ours, it can be stated that such was not the case in those places. The Director feels that this policy should be continued in Somerville, unless its continuance should in any way handicap the efficiency of the playground organization.

From the results obtained in the two seasons in which special attention has been given to handwork and dancing activities, it is recommended that these two phases of the playground program should be supervised by an individual selected for that purpose.

Attendance.

During the season just closed the total attendance approximated that of the previous year. The most noticeable increase in attendance was at the ground on Central Hill.

A noteworthy fact about the attendance throughout the city was that the larger children were very few in number. This situation necessitates some alteration in the conduct of the grounds, because the program of activities must be varied for children of different ages.

The figures for the attendance on the several grounds are as follows:

Bennett School	7,753
Central Hill Park	5,435
Saxton C. Foss Park	9,976
Hodgkins School	2,253
Kent Street	10,430
Lincoln Park	18,392
Richard Trum Playground	17,703
Perry School	6,154
<hr/>	
General Total for the Season	78,096
Average Weekly Attendance	11,156
Average Daily Attendance	2,231

Games.

The principal portion of a playground program is devoted to active games. Baseball, of course, occupies the leading position among boys during the summer months, and the leagues which were established for both the smaller and larger boys of the city again proved most attractive. The boys from the Kent Street playground succeeded in winning the larger number of games in the junior league and the boys from Lincoln Park were victorious for the senior championship.

There are two outstanding facts in connection with the conduct of baseball on the summer playgrounds which, I think, deserve special mention. The first is that it has been possible during the past summer to organize boys' teams on two of the so-called girls' playgrounds; that is, in spite of the fact that there were no male instructors on Central Hill Park and the Hodgkins School ground, the boys of those playgrounds exhibited sufficient spirit to organize their own teams, enter into the league competition, and fulfill their games on the schedule. The other outstanding feature is that of the ninety games scheduled, all but four were played. When one considers the number of attractions which occur in a boy's life during the summer months, and when there is also taken into consideration the fact that none of the teams which journey from one ground in the city to another is accompanied by supervisors, this situation appears quite remarkable.

In addition, the boys were encouraged to participate in numerous other active contests and athletic events, care being taken to provide instruction and supervision in games suited to the age of the children who were to participate.

Inter-playground competition has also become quite pre-

valent among the girls. Although no schedule was made for such, during the past summer several contests in volley ball, dodge ball, and bat ball were arranged at the bi-weekly meetings of supervisors.

During the final week of the season two teams from one of the playgrounds in the city of Newton visited the Saxton C. Foss Park in our city and demonstrated the game of fist ball which has become quite popular in Newton. If conditions warrant it, this game will undoubtedly be introduced on the Somerville playgrounds in the future.

Handwork.

It can be stated without hesitation that the handwork produced by the children of the Somerville playgrounds during the summer of 1922 far excelled that made during any previous season. Both in the number of articles made and in the quality of the work done, this feature of our undertaking was the recipient of much favorable comment.

During the final week of the playground season a display of the handwork was placed in conspicuous places for the inspection of the residents of the community. This exhibition was located for a period of three days each in the show windows of Jackson Caldwell & Co., in Union Square, Parke Snow, Inc., in Davis Square, and J. E. Lydstone at the corner of Broadway and Walnut Street. Many hundreds of people inspected these exhibitions and expressed considerable praise at the character and finish of the articles made. Included among the finished products were: serving trays, baskets, sewing boxes, desk sets, vases, hammocks, sweaters, dresses, embroidery work and other useful and ornamental articles.

The initial expenditure for the handwork was made from the funds of the Somerville Playgrounds Association and the money obtained from the sale of the materials to the children was in turn used for the purchase of additional supplies. This method of conducting this portion of the playground work seems most desirable because it eliminates the undesirable feature of free distribution to the children at public expense.

Dancing.

As in the case of the handwork the dancing was supervised during the past summer by a young lady employed for that purpose. Experience has shown that this method secures best results, for under the former policy it was impossible to secure uniformity throughout the city. This uniform in-

struction in an activity which occupies so important a place in playground work, shows its results on such occasions as the annual play demonstration at the close of the season.

Notwithstanding the fact that the dancing is greatly handicapped by lack of musical accompaniment on many of the grounds, the results have been most commendable and have been the subject of much comment from the public at large.

Closing Demonstration.

On Tuesday, August 22, a closing demonstration of playground activities was presented on Saxton C. Foss Park. All the playgrounds of the city participated, the number of playground children present being estimated at 1,500.

The exhibition was given at the twilight period in order that a large number of adults might be able to witness the program. The exercises preceded the regularly scheduled band concert which was given at the same place under the auspices of the Metropolitan District Commission.

The program of eighteen events included competitive games for boys and girls, relay races, dances, marches and drills. A large number of citizens witnessed the exhibition and also viewed the handwork display which was placed in a show window near the scene of the demonstration. Among the group of spectators were many of the city officials and playground officials from other communities.

The demonstration each year serves as a fitting closing to the playground season, furnishes a means of exhibiting the results of supervised play to the members of the community, and best of all, provides the opportunity of encouraging the children in their play activities.

Cooperation.

As the Director has remarked previously, one of the most encouraging features of the playground undertaking is the assistance from agencies other than the department in direct charge of supervised recreation. This cooperation manifests itself in various ways. A few instances will be mentioned:

The Somerville Public Library again placed at the disposition of the summer playgrounds a large deposit of books suitable for the children. This furnished the playgrounds with another source of recreation, and at the same time served as a medium of promoting the interest of the children in a very profitable diversion—the reading of good books.

The Fire Department officials were ready and accommo-

dating to send the hose wagons to the playgrounds on extremely warm days to provide shower baths for the children.

The departments conducted by the City Engineer and the Building Commissioner, and others which are closely connected with the playground management rendered courteous and valuable assistance whenever called upon.

The merchants in the several sections of the city cheerfully donated prizes for the picnic contests whenever the individual playgrounds conducted outings during the season. Several of the business men of the city furnished trucks for transportation of the children to and from their picnic grounds.

More than ever before, there was noticed this summer a sort of participation in the play activities by the adult members of the community. As a vivid illustration of this statement I cite many mothers who came for long periods during the afternoon to the Hodgkins, Central Hill, Saxton C. Foss and other grounds to mingle with the children and act almost as if they had been officially assigned as assistants to the supervisor of the ground.

This last and the above instances of cooperation furnish an optimistic outlook for the future. When the playground movement or any other municipal activity succeeds in securing the voluntary interest of the citizens it is sufficiently rooted to insure its growth.

Recommendations.

As a result of close study, and from the experience of dealing with the summer playground situation in Somerville for a number of years, I make the following definite recommendations for the future:

1. The early completion of the playground in the rear of the Western Junior High School.
2. Hastening the erection of a field building on the Richard Trum Playground.
3. The placing of some permanent equipment on the Medford Street side of Central Hill Park.
4. Securing more adequate play space in the districts served by Kent Street and Bennett Playgrounds.
5. Early attention to improving Saxton C. Foss Park with a view to utilizing the lower end of same for athletic purposes.
6. The filling in of the unused sand pit on the Perry School Playground in order to increase the play area of that ground and so make use of the shade trees now fenced off from the rest of the playground.

7. Additional swings on Lincoln Park Playground.

8. The planting of shade trees on some of the playgrounds to provide a natural shelter for the future.

9. The possible widening of the scope of the summer playground undertaking to include such fields as supervised play after school hours, and a closer relationship between school recreation activities and the field now covered by the Public Welfare and Recreation Commission.

Conclusion.

In concluding the report for the season of 1922, I desire to digress somewhat from the field of summer playgrounds and to add a brief comment on the general subject of recreation in Somerville.

From continuous experience in this type of work it is my opinion that in a city as populous as Somerville whose future growth is destined to be confined, the problem of recreation as a municipal activity must soon rise from its present somewhat undefined level to a more definite and comprehensive plane. This statement is made, not in any sense of dictation to your Commission but rather with the feeling that your Commission would expect from its Playground Director a statement of his attitude and his opinions in the field in which he is employed.

I desire to express appreciation to the Chairman and members of your body for the assistance rendered during the season. I feel that thanks is due especially to the Somerville Playgrounds Association for the cooperation and assistance it has rendered, as also to the other municipal departments mentioned elsewhere in this report.

The cooperative and friendly attitude of the playground supervisors is deserving of especial mention, because without such assistance the Director would be handicapped.

While it is somewhat out of the ordinary to make such a statement, the Director would be remiss if at this juncture he failed to add a comment on the attitude of the children of Somerville toward the playgrounds. Appreciating as much as anybody the shortcomings and faults of children in the matter of respect for city property and undertakings, I nevertheless am more confident that Somerville experiences what might be called a minimum of trouble in this regard. From comparison with other communities, from personal observation, and from authoritative reports, I feel that we experience less difficulty in the conduct of the children during the summer months than many other communities of our size. Such

misdemeanors and breaches of conduct as do occur are confined to a very small minority and there have been few demonstrations of the so-called "gang spirit."

There is encouragement in the knowledge that the returns from supervised recreation in our city are being made in the manifestations of orderliness and appreciation given by those upon whom our efforts are expended.

Respectfully submitted,

STEPHEN H. MAHONEY,

Director of Playgrounds.

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

Herewith is submitted a report of the work of the Public Welfare and Recreation Commission for the year 1922. Inasmuch as most of the money under the control of the Commission was expended in two or three general undertakings, it seems advisable to devote most of this report to an account of what was done in these directions. Therefore, the Commission submits detailed reports of these enterprises which have been prepared by the persons having them in charge. These reports give in detail the things which have been done in each of these lines of effort. The Commission believes that all of this work has been well done and that it has served the public interest to a very considerable extent.

Of these three undertakings, the oldest is that of supervised summer playgrounds. For a number of years, the city has appropriated money to pay for the expenses of supervised summer playground work to be conducted during the months of July and August. The benefits of this work are so clearly manifest that the Commission has had no doubt at all about the continuance of this activity. It is convinced that this work should be carried on as a part of permanent public policy and that it affords a nucleus to which should be added expansions of a corresponding nature for the benefit of individuals and for the benefit of adults.

A second line of work which the Commission has carried on has been the garden work for school children. This work was begun during the war and has been conducted with great success during the succeeding years. Although originally a

war measure there has been much in the character of this work to justify it as a policy for the general good of certain children of our city. The lack of areas particularly adapted to this purpose and the legitimate claim upon public park spaces for recreational purposes are reasons which combine to make the conduct of school gardens as a public policy one less obviously the duty of this Commission than are some other activities within the scope of the Commission's power.

The resignation in October, 1922, of William B. Moore, Supervisor of Gardens, caused a loss to this line of work which it would be difficult to over-estimate. Mr. Moore had had charge of the garden work since the early days of the war and through his original methods, his efficient knowledge of garden-making, and his extraordinary facility in dealing with children, had brought to this work a degree of success wholly out of proportion to the means at his disposal.

The Commission is glad to pay this tribute to Mr. Moore and to express in this public way its sense of the loss which must come to the juvenile garden-makers of Somerville through his resignation from this position.

The third line of activity which has been conducted by the Commission during the past year is also one which had its beginning in previous years. This is the one dealing with social and educational opportunities for adults. The main feature of this work has been that taken up in the Neighborhood House on Poplar Street which is described in one of the reports submitted herewith. Another line has been that of social meetings in the Clark Bennett and Bingham Schools.

During the year the Commission has cooperated with organizations having for their purpose the promotion of civic betterment. Among these are the Somerville Playgrounds Association and the Ways and Means Committee, representing the various women's clubs of the city. The Commission wishes to acknowledge the high purpose and the devoted service rendered by both of these organizations. The former, in addition to its general activity in aid of the summer playgrounds, contributed a lump sum of \$475 to be expended by the Commission for the purchase of play material, and the latter has supported in large part the work of the Neighborhood House. The Commission has continued to work as a clearing house in securing cooperation among the various departments of the City Government having recreational or welfare interest. It has sought and has secured cooperation from all of these in promoting its own activities. In all the ways under its control, the Commission has tried to create a healthy public interest in recreation and to increase the

opportunities therefor. It has been conservative in adopting new policies or in making recommendations for the enlargement of its present activities. It has deemed it important to thoroughly study the situation in Somerville for the purpose of finding out in what direction improvements should be made in public-controlled recreation. The Commission firmly believes that public health, safety, and contentment, all require the development under public control of a scheme of recreation which will be adequate to the needs of the whole population. Because it was not ready to choose and start a new undertaking in the line of adult recreation, the Commission did not use all of its appropriation this year but turned over a part of it to be applied to the erection of the Richard Trum Field House.

During the next year the Commission hopes to formulate and announce a definite policy of such a reasonable character as to be adapted to not alone the needs but the financial ability of the city.

Respectfully submitted,

CHARLES S. CLARK,

Chairman.

REPORT OF THE SUPERVISOR OF SCHOOL GARDENS

Somerville, Mass.,

December 7th, 1922.

Members of the Public Welfare and Recreation Commission,
Somerville, Mass.

Gentlemen:

In presenting my annual report of this branch of work under your control, I desire to summarize the accomplishments of the past season, pointing out some of the most prominent features and making some suggestions for the work in the future.

My work as garden supervisor is divided into four different lines of work, namely: (1) The teaching of simple and practical gardening in the public schools; (2) the abso-

lute control and supervision of public and private areas devoted to school gardens; (3) the giving of advice and assistance to every person desiring it in the conduct of a home, vacant lot, or community garden; (4) and the organizing and supervising of canning operations.

1. Your Garden Supervisor has been regularly employed during the winter months by the School Department in teaching classes composed of children who have an opportunity to have a garden at home, who express a desire to have a school garden, or who have an opportunity to pursue agricultural activities during the summer season outside of the city.

This class-room instruction is along simple and practical lines of agricultural gardening. By means of this instruction the children are better prepared to take up this line of work when the time for actual garden activities is at hand in the spring. In the school-yards of four schools your Supervisor built cold-frames last fall and as soon as weather conditions permitted started tomato, radish and cabbage to be transplanted into the garden areas at the proper time. Through this instruction about nine hundred children received some permanent benefit.

2. The same general plan used the past four years in the conduct of school gardens was continued during the season of 1922. Each child cultivated a plot, the area of which was 300 sq. ft. The child paid for the seeds and plants actually used in his plot, and what was raised was the property of the child and could be taken home or disposed of as he saw fit.

One-half day each week was devoted by your Supervisor to each garden area, and the children showed their interest and enthusiasm in this work by their prompt and faithful attendance during the entire garden season. Two hundred and eighty-five children conducted school gardens the past season, the public areas totalling about seven acres. Each child planted twelve different kinds of vegetables in his garden, besides doing his part in the cultivation and care of a piece of land devoted to the raising of sweet corn and winter squash. These two crops were harvested by your Supervisor and distributed equally among the children having school gardens.

Weather conditions the first part of the season of 1922 were not ideal for the carrying on of garden work. Because of excessive rains, it was necessary to replant several of the school garden areas. This involved a large amount of extra work for the boys and girls as well as for the Supervisor, but in spite of adverse conditions the school gardens in the City of Somerville this year were most successful both from

the standpoint of general appearance and the value in dollars and cents of the crops raised and harvested.

The keeping of a garden record book by every school gardener was a part of his regular garden work. In keeping this book, the children are not only taught practical arithmetic and spelling but get some idea of the value of the things they raise and the manner in which they are sold or marketed. The books are all turned in to the Supervisor at the end of the garden season, and from a careful analysis of these books some very interesting facts and figures are obtainable. The total value of the corn and squash alone more than offset the entire expense of this commission for carrying on the garden work for the season of 1922. The value of the vegetables raised in the individual plots was approximately \$7500.00. One-third of that amount represents the value of the vegetables sold by the children, while the other two-thirds were used in the home as fresh vegetables or were canned for use during the winter.

Your Supervisor endeavored this year to devote more time and space on the school garden areas to the cultivation of flowers, and on the different areas this undertaking was highly successful. The flowers grown at Broadway Park attracted a great deal of attention from passersby and brought forth many favorable comments from the general public. It also was an object lesson to the children, and in the cultivation and care of these areas devoted to flowers, I believe, lessons were taught to the children that will be productive of results around their homes in the years to come.

At the end of the garden season, exhibits were made in two different places, first at Boston at the Massachusetts Horticultural Society building where we exhibited products from the school gardens and the canning clubs and received many cash prizes. These prizes were won in competition with many other cities in this part of the State and show the kind of work done and that the results obtained by the children in the City of Somerville compared most favorably with the work in other localities. At the New England fair held at Worcester, your Supervisor made both canning and garden exhibits, and we were awarded prizes totaling \$46.00 in money at this fair which draws entrants from cities and towns from all over New England. One exhibit made up of twenty-four jars of fruit canned by one of our canning clubs not only won first prize of \$10.00 but was awarded a special prize of \$5.00 more because it had the highest score of any collection ever entered for competition in this class at the New England fair.

All of the areas of land devoted to school gardens were this year cleaned up by the children and the refuse carted away. Most of these areas have been fertilized, plowed, and seeded to winter rye with the idea of turning this green crop under in the spring and putting back humus in the ground for use another year.

3. Giving of advice and assistance in the conduct of home gardens and community gardens is a line of work that has greatly increased during the last two or three years. While it may be true that less area is devoted to garden work since the close of the war than during the war, those conducting gardens seem to have met with more serious difficulties and have called upon your Supervisor for more assistance than they did during the war and when garden activities were at their height. Weather conditions, the control of disease, and insects are a constant source of trouble and have been the occasion for repeated calls for advice from your Supervisor as to the best method of control and procedure. Most of the adults conducting gardens in the City of Somerville have gone through the experimental stage and the results obtained are far more satisfactory and more remunerative than ever before. When one considers the small amount of space available for garden work and the poor quality of the soil throughout the entire city, the results obtained are a revelation to agricultural people.

4. This year your Supervisor devoted more time and energy to the forming and carrying on of canning clubs than ever before. One hundred and twenty-six children were enrolled who carried on canning clubs at two centers, one located in the cooking room of the Western Junior High School, the other at the Senior High School. Two instructors were regularly employed five days a week. The work of these clubs was carried on under the direction of the State and County agricultural organizations, the requirements of which are very strict.

Some idea of the volume of work done by these clubs may be obtained by examining the reports submitted by your Supervisor to the State Department of Agriculture. In this report, I stated that each of the one hundred and twenty-six members canned an average of thirty-two jars apiece, or a total of four thousand and thirty-two jars; the average value of each is 40c per jar or a total value of \$1612.80.

Some idea of the quality of the work done by these children may be realized when I state that in every exhibition of canned products that was made this year we won a first prize in every class. These exhibits were made at Boston and

Worcester. In the exhibit at Worcester to which I have referred before, the prize won there was in competition with twenty-six hundred jars of canned products.

Exhibitions of the products of the canning clubs were held in nine different schools this fall at which a judge provided by the State was present and scored five jars exhibited by each one of the one hundred and twenty-six club members. Out of a possible hundred per cent, the average score of all participants was 93.6, which is a very creditable score and one seldom equalled, so I am told by the Department of Agriculture. This useful form of summer work has gained very rapidly during the past few years. Many other cities and towns now carry on canning operations on a larger and more comprehensive scale, and I would recommend that more equipment and better facilities be provided another year for this most useful and productive branch of your work.

In closing, permit me to express my appreciation to all those who have shown an interest and been a help in this work. It is through the co-operation of the members of this Commission and the interest and work of the boys and girls themselves that this work has been a success.

Yours very truly,

WILLIAM B. MOORE,

Garden Supervisor.

Mr. Charles S. Clark

Chairman of the Public Welfare and Recreation Commission
Somerville, Massachusetts.

Report of the Annie E. McCarthy Neighborhood House.

The work of the Annie E. McCarthy Neighborhood House is going on in a live, active way, and the vicinity of Poplar Street is benefiting by it.

A Girls' Club having a membership of sixty makes the House its headquarters. The girls pay fifty cents a year dues, payable in two installments October first and February first. A few are allowed to become members without the fee when it is known that the money is hard for them to get. They meet

for social times and mutual helpfulness, and there is a fine spirit of co-operation growing up among them.

On Monday afternoon a sewing class meets with Mrs. Holland as leader. In this class handkerchiefs are made from old muslin and when finished are sold for a penny apiece. Others made from new lawn or muslin bring two cents apiece.

The gymn classes meet on Tuesday. A class of twenty little girls from seven to ten years of age, and a class of twenty older girls from twelve to fourteen years meet in the afternoon, and two classes of boys meet in the evening. These classes are held in the Bennett School. Most of the boys were a hard, unruly set of individuals, but they now show an improvement in spirit and willingness to work together.

Through the kindness of Miss Alice Fox, four girls are receiving private music lessons from Miss Coleman, who also conducts two kindergarten music classes. These lessons were given free at first, but now a charge of ten cents a lesson is made and the girls buy their own music.

Wednesday evening is spent with games and entertainments at the House. An enthusiastic cooking class of eight girls meets on Thursday with Miss Emily Hood. Also on the same day a class in chorus singing is held under the direction of Miss Margerite Henis and Miss Mary Boika, two Jackson College students.

On Fridays Miss Edith Fox conducts a class in sewing. The girls in this class have been making warm flannel night-gowns for their own use. Miss Hood also has another class in cooking on Fridays.

One of the most important groups at the House is a club of twenty-eight women. They meet once in two weeks and at present their chief interest is a course in Home Nursing, with a Red Cross nurse acting as instructor. At Christmas time they made up seven baskets of food and clothing, which were taken to poor people.

In all, about two hundred people take an active part in the affairs of the House, but the number who receive the good influence which the House broadcasts in the neighborhood is inestimable.

It is around Mrs. W. L. Holland that the machinery of the House revolves. She has reached the hearts of the people and brought them together. And by keeping her faith with them she is gradually teaching them a spirit of kindness, a spirit of truth, and a spirit of co-operation. In other words she is leading them into the ways of good American citizenship.

BERTHA E. KEYES,
Secretary for the Ways and Means Committee.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
City Hall Annex, Somerville, January 1, 1923.

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

The following report of the sealer of weights and measures for the year 1922 is respectfully submitted:—

Work of Weights and Measures Department for 1922.

Scales	Adjusted	Sealed	Non-sealed	Con-demned
Platform over 5000 capacity	1	41	—	—
Platform under 5000 capacity	23	278	15	—
Counter	27	548	5	2
Spring	7	753	7	2
Computing	15	342	3	—
Slot personal	—	62	—	—
Prescription	—	38	—	—
Beam	—	32	—	—
Track	—	—	—	—
Weights,—				
Avoirdupois	48	3262	—	—
Apothecary	—	553	—	—
Metric	—	16	—	—
Capacity Measures,—				
Dry	—	77	—	4
Liquid	—	879	—	15
Gasolene pumps	5	93 and 272 stops	—	—
Oil pumps	18	79	12	—
Molasses pumps	—	31	—	—
Ice cream cans	—	—	—	3
Yard sticks	—	140	—	—
Baskets	—	13	—	—
Leather measuring machine	—	1	—	—
Totals	144	7238	42	26

Fees collected and paid to City Treasurer, \$619.79.

Amount paid City Treasurer for Pedlers' Licenses,
\$959.00.

Trial Weighing in Stores.

Commodity	Number		Incorrect	
	Tested	Correct	Under	Over
Coal in paper bags	36	25	10	1
Coal in wagons	—	—	—	—
Flour in paper bags	—	—	—	—
Butter	30	30	—	—
Dry commodities	207	178	25	4
Bread	12	12	—	—
Totals	285	245	35	5

Inspections: —

Hawkers and Pedlers Licenses	161
Ice dealers' scales	48
Coal certificates	32
Junk scales	25

The decrease in number of capacity measures sealed in 1922 as compared with number sealed in 1921 is due to the fact that ice cream containers are now sealed by the manufacturers under the provisions of Section 10, Chapter 98 of the General Laws.

B. 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, 1922, is as follows:

A bill presented to the legislature by the town of Dover asking to be taken out of the Metropolitan Park District passed both branches of the legislature. At my request the governor gave a hearing on the bill and I secured the presence of representatives of many cities and towns who expressed their opposition to the proposed legislation. The governor vetoed the bill and the legislature failed to pass it over his veto. If it had become a law other municipalities situated like Dover in respect to the district would have asked to be taken out and the result would probably have been a large increase of the contribution by Somerville to the expenses of the district.

A bill was presented to the legislature providing for an extension of the Metropolitan Water District at an estimated cost of more than sixty millions of dollars. If this bill had been passed it would have added several millions of dollars to the obligations of Somerville. Every year of delay means a saving of many thousands of dollars in interest charges. I joined in the opposition and it failed to become a law at that session of the legislature.

An act was passed by the legislature for widening a portion of Bridge street in Cambridge authorizing the work to be done by the County Commissioners of Middlesex County. A hearing was held by the County Commissioners and the act was accepted by them. It does not provide for any special assessment upon Somerville.

An action for personal injuries mentioned in my report for the year 1921 in which there was a verdict of \$9,000 was settled for \$8,000. An action brought by a suspended member of the Fire Department was tried before a jury in the Middlesex Superior Court and a verdict was given in his favor. An action brought by a member of the Fire Department to

test the validity of a regulation under the two-platoon law was argued before the full bench of the Supreme Court and a decision was rendered sustaining the regulation.

A large tract of land was taken for a Junior High School on Marshall street by right of eminent domain, having a frontage of 300 feet and comprising 13 lots. Settlement of claims for damages were made with all the owners and conveyances by them to the city were recorded.

A parcel of land on Marshall street formerly occupied by a fire station was offered for sale by the city and the title being questioned the land was registered in the Land Court and the sale was carried through.

Very respectfully,

FRANK W. KAAN,

City Solicitor.

REPORT OF SOMERVILLE PLANNING BOARD

December 31, 1922.

To His Honor, the Mayor, and Board of Aldermen.
Gentlemen:

As required by the provisions of Chapter 494 of the Acts of 1913 the Planning Board herewith submits its annual report, containing also suggestions and recommendations for the improvement of the City.

During the year 1922 two new members were appointed by His Honor, Mayor Webster, namely, John Williamson and Benjamin J. Surett. 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, John Williamson and Benjamin J. Surett.

During the past year the Planning Board held several meetings and discussed the various matters of public interest for the welfare of the city, which is herein set forth. Some of these matters have been mentioned in previous reports of the planning Board, but no action has as yet been taken in regard to their adoption by the Board of Aldermen.

Fire Districts

Although the importance of the enactment of an ordinance establishing fire districts has been repeatedly called to the attention of the Mayor and Board of Aldermen, nothing has been attempted, and no action taken, nor has the subject been considered during the past year.

The Planning Board again earnestly recommends that some definite action be taken by the Board of Aldermen to provide proper fire protection for the city by establishing some fire districts without further delay. The Planning Board is ready to cooperate in every way with the Board of Aldermen in order to hasten action in this important matter.

Public Parks and Playgrounds

The Board again recommends that more small playgrounds be established in the different sections of the city for the exclusive use of small children. Particular attention is called to the necessity of providing a playground in Ward six, in the Morse School section.

Somerville's only bathing beach at the Wellington Bridge on the Mystic River, although under the direction and

control of the city has been so neglected that its usefulness as a bathing beach is doubtful. The beach needs to be sanded and cleared of mud, so that the children and older people who use the beach can do so in safety and comfort. The city should either improve the beach, or turn its management over to the Metropolitan Park Commission.

Mystic River Development

The subject of the development of the Mystic River for commercial purposes has been discussed frequently in recent years, and efforts have been made from time to time to obtain the assistance of the National Government.

In 1892 the United States government dredged a channel in the Mystic River from the B. & M. Railroad bridge to the head of navigation or Craddock Bridge in Medford. This channel is about one hundred feet in width for about one mile, and gradually narrows in width until it is about fifty feet wide at the Craddock Bridge in Medford. At the Wellington Bridge in Somerville the channel is about fifty feet in width and the natural channel is about eight feet is about eight feet deep at mean low water. From the Boston & Maine Railroad bridge up to Craddock Bridge in Medford the river is very crooked and unsuitable for the navigation of vessels over one hundred fifty feet in length, and is not of sufficient depth to accommodate vessels of a size suitable for commercial purposes.

Somerville has about thirty-six hundred feet of water front on the Mystic River. Part of this is owned by the Boston & Maine Railroad and private parties, and another part of it is controlled by the Metropolitan Park Commission. The only shipping interest on the Mystic River in Somerville at the present time is the Somerville Coal Company, which occupies Dennings Wharf, so called. The river is so winding and the draft so shallow that only barges of light draft can use the river for commercial purposes.

In order to make the Mystic River suitable for ships which would be of sufficient size to be useful for commercial purposes the channel of the river must be widened and dredged, as the existing channel is obviously inadequate.

The United States government has refused to expend any money for this purpose in that part of the Mystic River running through Somerville and Medford for the following reasons:—

1. Difficulty in navigation on account of the many bends in the river.
2. The use of the largest part of the land on both sides of the river for park purposes.
3. The small number of business concerns using the river in their business either in Somerville or Medford.

As a remedy for this condition the Board suggests that your Honorable body urge upon our representative in Congress the necessity of some action towards securing an adequate appropriation so that this water way with the adjoining terminal facilities furnished by the Boston & Maine Railroad may be fully utilized, and the commercial interest of the City improved thereby.

The Board strongly recommends that the city immediately purchase the land north of the Wellington Bridge as the first step in the development of the river front. If the city acquires this land on the river front a bulkhead or pier could be built out into deep water by using the ashes or other filling now being dumped outside the city limits and thereby provide additional dumping facilities which would at the same time be of great value in reclaiming the marsh land and building a suitable wharf for the use of the City and business interests.

Survey of City

The Planning Board has considered the advisability of the enactment of a zoning ordinance which would correct the evils existing today on account of the absence of building regulations or restrictions. The subject is, however, very important, and should only be acted upon after having a comprehensive survey made of the entire city by a city planning engineer who would give an unbiased and disinterested report of conditions and suggest the establishment of zones based upon studies of the whole city.

The comprehensive survey should cover the following subjects:

- (A) Business districts
- (B) Residential districts
- (C) Miscellaneous business and residential districts
- (D) Industrial sites
- (E) Population centres
- (F) Schools, public buildings and parks
- (G) Plan showing valuation of real estate by districts
- (H) Transportation facilities and streets
- (I) Water front
- (J) Building regulations
- (K) Fire Districts

The survey should be illustrated by plans which would be of great assistance in working out a zoning ordinance, and planning for the future development of Somerville.

The draft of a zoning ordinance based on the facts found by the survey should be undertaken only after public hearing, to give all citizens an opportunity to be heard and to make suggestions.

Zoning was discussed in our last year's report, and is fast becoming important to the life of every modern progressive city. Springfield last year spent \$20,000.; Worcester spent about \$28,000. and Newton spent about \$10,000. in making a comprehensive study, and in providing a zoning ordinance to protect the property values and regulate the use of property for the benefit of all the citizens.

Revision of Building Laws

In connection with zoning, and as supplementary thereto a complete revision of our building laws should be undertaken, as both are necessary to accomplish the desired result. The construction of all buildings should be carefully considered at the same time that the use to which the building may be put is determined by the zoning ordinance.

In the opinion of the Planning Board there should be a preliminary survey of the city by an expert city planner, so that both the building laws and zoning ordinance would be framed with facts in the possession of the Board to assist it in framing such ordinances as would be for the best interests of the city for consideration and acceptance by the Board of Aldermen.

Appropriation

Somerville must do its share to provide for the welfare of its citizens, and the Planning Board is anxious to accomplish some definite results by cooperating with the Board of Aldermen in recommending public improvements, but has been seriously handicapped by lack of cooperation on the part of the city government by its failure to provide sufficient appropriation to the Planning Board. If the work of the Planning Board is unnecessary and of no value to the citizens of Somerville, then the Board ought to be abolished, and no appropriation given to it, but if its work is of assistance, and is of value to the city the city government should not put Somerville in the same class as a town of a few thousand inhabitants by appropriating \$50. for the use of the Planning Board. The Planning Board can accomplish nothing with such a small appropriation, and returns it herewith to the Treasury of the City of Somerville.

The Planning Board recommends that the city government appropriate \$5000. for its use during the year 1923, so

that it may proceed along scientific lines, and with the aid of expert assistance submit to the Mayor and Board of Aldermen a comprehensive plan for the future development of Somerville, and also a suitable zoning ordinance, so that Somerville may keep pace with the neighboring City of Cambridge in providing adequate laws for the future growth of the city.

Necessarily the work of the Planning Board must be for the future. The results obtained the Planning Board believes will be for the best interests of Somerville, and will in the long run result in saving money for the city. The appropriation if given will be carefully used in accomplishing the desired results.

Respectfully submitted,

JOHN WILLIAMSON, *Chairman*

GEORGE J. RAUH

BENJAMIN J. SURETT

DAVID J. KELLEY, *Secretary.*

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

School Committee Rooms, December 18, 1922.

Ordered, that the annual report of the Superintendent of Schools 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, 1922.

HERBERT CHOLERTON Chairman
 WALTER I. CHAPMAN Vice-Chairman

Members.
 EX-OFFICIIS.

JOHN M. WEBSTER, Mayor, 76 Boston street.
 ENOCH B. ROBERTSON, 39 Highland road.
 President Board of Aldermen,

WARD ONE.

JULIA A. CROWLEY,
 FRANCIS J. FITZPATRICK, 2 Austin street.

WARD TWO.

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

WARD THREE.

CHARLES W. BOYER, 66 Avon street.
 OSCAR W. CODDING, 59 Vinal avenue.

WARD FOUR.

KATHERINE C. COVENEY, 73 Marshall street
 *RICHARD L. RICE, 296½ Broadway
 †EDWARD I. TRIPP, 21 Wigglesworth street.

WARD FIVE.

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

WARD SIX.

WALTER I. CHAPMAN, 18-A Central street.
 WALTER FRYE TURNER, 15 Highland road.

WARD SEVEN.

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

Superintendent of Schools.
 CHARLES S. CLARK.

Office: City Hall Annex, Highland Avenue.
 Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

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.
 Ruth O. Elliott, 4 Lincoln place.
 Marguerite E. Flanagan, 10 Auburn avenue.

Board Meetings.

January 30. April 24. September 25. December 18.
 February 27. May 29. October 30.
 March 27. June 26. November 27.

8:15 o'clock.

* Resigned September 25.

† Elected November 16.

Standing Committees, 1922.

NOTE.—The member first named is chairman.

District I. — Fitzpatrick, Crowley, Bradley.

PRESCOTT, HANSCOM, BENNETT.

District II. — Muldoon, Bradley, Fitzpatrick.

KNAPP, PERRY, BAXTER.

District III. — Boyer, Coddling, Muldoon.

POPE, CUMMINGS.

District IV. — Rice, Coveney, Coddling.

EDGERLY, GLINES.

District V. — Miss Turner, Stoodley, Coveney.

FORSTER, BINGHAM, PROCTOR.

District VI. — Chapman, Turner, Stoodley.

CARR, MORSE, DURELL, BURNS, BROWN.

District VII. — Curtis, Cholerton, Chapman.

HIGHLAND, CUTLER, LINCOLN, LOWE.

High School — Chairman Bradley, Stoodley, Crowley, Coddling, Coveney, Chapman, Cholerton.

Finance — Chairman Stoodley, Fitzpatrick, Muldoon, Coddling, Rice, Chapman, Cholerton, Webster, Robertson.

Text Books and Courses of Study — Chairman Chapman, Muldoon, Crowley, Boyer, Coveney, Miss Turner, Curtis.

Industrial Education — Chairman Boyer, Miss Turner, Crowley, Muldoon, Rice, Turner, Curtis.

School Accommodations — Chairman Coddling, Rice, Fitzpatrick, Bradley, Stoodley, Turner, Cholerton, Webster, Robertson.

Teachers — Chairman Cholerton, Chapman, Fitzpatrick, Muldoon, Coddling, Rice, Miss Turner.

Health, Physical Training and Athletics — Chairman Curtis, Bradley, Fitzpatrick, Boyer, Coveney, Stoodley, Turner.

Rules — Chairman Miss Turner, Boyer, Crowley, Bradley, Coveney, Turner, Curtis.

REPORT OF THE SUPERINTENDENT OF SCHOOLS

TO THE SCHOOL COMMITTEE:

Hereby is submitted an annual report upon the condition of the public schools for the municipal year 1922. This is the fifty-first in the series of annual reports and is the fifteenth which I have written. As it is the custom of the School Committee to use this report as its own, I have prepared and present herewith the usual statistical tables, showing facts concerning pupils, teachers, and expenditures.

The first thing to consider is the membership. The number of pupils belonging to the day schools December 5 was 14,419, an increase of 196 pupils over the number belonging at a corresponding time last year. The average membership for the school year ended June, 1922, was 14,004, an increase of 608 over the average membership of the preceding year. These figures, taken with those of the preceding year, represent a steady growth in the membership of the schools. The following table shows distribution of the membership among the large divisions of the school system.

Membership

	High	Junior High	Elementary including Kgn.	Vocational	Total	Increase
Dec. 1922	1962	3493	8878	86	14,419	196
Dec. 1921	1966	3367	8766	124	14,223	

It will be noted that the membership of the High School is practically the same as that of last year at this time. This condition is especially significant when taken in connection with the fact that last year there was a double senior class numbering 631. The present senior class now numbers 437. The present junior class numbers 634, and the present first year class 858. Last year these classes numbered 524 and 794. The present senior class of the four Junior High Schools now numbers 1098, exceeding the membership of last year by 85. These conditions indicate that the Senior High School is still growing. They also show a disposition on the part of the pupils to remain longer in school.

The shrinkage in the Boys' Vocational School is due to the withdrawal of the students in training under the Rehabilitation Act. This withdrawal was due to a change in the policy of the Government in respect to training the veterans.

They are now being taught in a government school and the Boys' Vocational School now has only boys to deal with.

Teachers

	High	Junior High	Elementary including Kgn.	Vocational	Total	Increase
Dec. 1922	71	116	226	9	422	1
Dec. 1921	72	115	224	10	421	

Thirty-three teachers were elected during the last year, and were assigned as follows: High School 7, Junior High Schools 9, Elementary Schools 16, Boys' Vocational School 1. Twenty teachers resigned,—four to be married, twelve to accept better paying positions elsewhere, four from other causes. Two teachers were transferred from the Junior to the Senior High School. Two were transferred from Elementary to Junior High School. There were two deaths and three retirements.

The work of the schools during the past year has been successful to a high degree. With the exception of overcrowding in certain schools there have been no especially unfavorable conditions to meet. A brief review will be presented to show in part what has been attempted and accomplished in the several departments of the school system.

Elementary Schools

Under our present practice the elementary schools comprise the kindergarten and the first six grades. These grades correspond to the years of childhood, stretching from 5 to 12 years of age. During this time the children are characterized by great physical activity, robust health, and retentive memory. It is a period when the forming of habits of obedience to authority, the mastering of details through repetition and drill, and the cultivating of the memory will constitute in a large measure the work of teachers and pupils. During this period the child will be engaged in acquiring the essentials of an education. These are reading, writing, language and spelling, arithmetic, geography, history, civics, hygiene, music, and drawing. Along with these studies goes instruction in morals and conduct. These are the time-honored fundamentals of education. They constitute the foundation upon which the future structure must be built. There must be no skimping on these if the future work is to be solid and substantial.

On the other hand, with so much to be done by pupils and teachers with the wealth of material that is inviting consideration, it is necessary that methods be used which ensure

to the highest degree the efficient and economical use of time and effort. Herein the modern elementary school differs greatly from its predecessors. Much material has been eliminated from the subject matter of the various studies of this period, and improvement has been made in methods of teaching and study. Our teachers have been alive to both of these necessities. They are keeping abreast of the times in both respects.

Among the numerous interesting illustrations which could be given of the present methods of conducting elementary school work the following are cited:

History and Civics in Our Elementary Schools

At my request, Mr. Knight, Supervising Principal of the Cutler, Lincoln, and Highland Schools, has furnished a statement quoted below:

During the past year an effort has been made to improve our teaching of History and Civics. When we stop to think that the problem of democracy is a problem of education and that democracy rests upon education, then the teaching of these subjects becomes a matter of great importance. Since education must be for life and not merely for efficiency, our task is to develop each individual into an intelligent, self-controlled, and sanely-balanced member of society.

“If we want democracy to succeed, we must educate for democracy. It is nothing short of treason to democratic institutions to send forth from our schools young men and women who know nothing of the responsibilities, duties, and privileges of citizens in a democracy, and of social conditions and ideals which are necessary for the success of democratic society.”

History skillfully and truthfully taught is its own preacher. Our object is to awaken interest, encourage reading, present worthy ideals, and thus arouse patriotism. The aim of our teaching of Civics is to make the child see that his future welfare depends upon his possession of certain social virtues which will enable him to function efficiently in his own community. However, care should be taken to give the child a vision beyond Somerville. He should realize that he is also a citizen of the state, and of the United States, and made to understand his responsibilities.

The following course of study was formulated with these ideals in mind. It has been tried out during the past year in some of our schools, and later will be extended to all.

Course of Study in History

FIRST GRADE

1. *The Home*—Members of the family; Their services to the home; Activities in the home; Manners applicable to the home; Dignity of home life.

2. *The Community*—Activities which assist the home
The grocer, baker, milkman, etc.,
in their relation to the home.

3. *Holidays*

The celebration of holidays should bring out our particular qualities of personal character and national ideals as exemplified in the persons involved.

Thanksgiving, Christmas, St. Valentine's, Lincoln, Washington, Arbor and Bird Day.

Others may be added to these at the discretion of the teacher.

4. *Civic Duties*

The training for citizenship will consist largely in training in morals and manners. The object of this work is the building of character. It aims to form habits and should be continuous and cumulative throughout the grades.

Use and abuse of school building and property; Participation in school life: playground, fire drill; Cooperation with classmates; Respect for school regulations.

SECOND GRADE

1. *The Community*

In relation to individual needs—Food, Shelter, Clothing

How these are supplied

In relation to community needs—Protection (policemen, firemen, postmen); Service (water, lighting); Pleasures (parks, playgrounds); Education; Transportation.

2. *Indian and Eskimo life*

Contrast with our mode of living

3. *Holidays*

See First Grade

Add Flag Day

Study of our flag; Colors, Use, Care, Why we should love it, Salute.

4. *Civic Duties*

Respect for the rights of others in the community

Daily walk to and from school; Use of sidewalk; Right and wrong places to play.

Care of school and city property

THIRD GRADE

1. *Local History*

First inhabitants—Indians

First settlers of our city—From Whence; Occupations; Homes; Neighbors; Transportation; Communication; Descendants in school of early settlers.

First buildings and streets

Origin of name

Contrast with present mode of living

2. *Holidays*—Review; Add Memorial Day; Emphasize the story of the Pilgrims.

3. *Civic Duties*—Proper conduct in public places

Stealing rides on vehicles

Visiting library, parks, etc.

How to avoid accidents at home and on the street

Proper treatment of new pupils at school and newcomers in the neighborhood, especially those of foreign birth.

FOURTH GRADE

1. *Local History*—Review and strengthen work of third grade; Historic hills of Somerville, in their relation to its early history; Leading events of Somerville history; Historic landmarks: Powder House, Prospect Hill Tower, French Redoubt, Greene House, Lee House, Ten Hills Farm; Dates: 1842, 1872.

2. *National History*—Story of Columbus in detail.

3. *Holidays*—Review work of previous grades; Add Columbus Day, and such holidays as are closely related to Somerville history.

4. *Civic Duties*—Important city officials and their duties; Special celebration of patriotic days; Relations and duties towards those less fortunate than ourselves: Junior Red Cross activities; Thrift: School Banking.

FIFTH GRADE

1. *Early Explorers*—Review Columbus; Americus Vesputius, naming continent; English: Cabots, Drake, Raleigh; Spanish: Balboa, Magellan, DeSoto; French: Champlain, Joliet and Marquette, La Salle.

2. *Colonization*—Oldest towns: St. Augustine, Santa Fe; Virginia; New York; Massachusetts.

3. *Holidays*—Continue and elaborate work of other grades.

4. *Civics*—Economy in use of water and light; Wise use of leisure time; Fire; Prevention, Conduct in case of fire; Police; Dignity of force, Best ways of assisting them.

SIXTH GRADE

1. *National History*—Spain in America: Results of explorations; England in America: Review colonies taught in fifth grade, take other colonies in story form; France in America: Results of explorations, reasons for conflict with England, leading up to French and Indian Wars; French and Indian Wars, very briefly, in story form; Revolutionary War by biography: emphasize causes and results.

2. *Local History*—Show Somerville's part in important events of national history; Study of Flag.

3. *Holidays*—See fifth grade.

4. *Civics*—Necessity for paying taxes, rent, license fees; Wise use of telephone and telegraph; Significance of election day; Our relations with, and duties toward aliens; Written work in connection with Junior Red Cross; Participation in school government.

Project Method and Socialized Recitation

Another interesting way in which the work of the Elementary Schools has been modified for the purpose of improving the power of the pupils as well as increasing their knowledge, is shown in the use of the Project Method, the Socialized Recitation, Silent Reading, and Opportunity Classes. These methods have definite objectives. They are the means by which certain social values are attained and individual development promoted in connection with the study of regular subjects of the curriculum. How this work is carried on in

some of the Elementary Schools, is shown in the following statement which I have asked Mr. Ryan, Supervising Principal of District 2, to prepare:

Four phases of modern educational practice appear to be worthy of especial mention in the schools of Ward Two:

1. The application of the project method to the teaching of the regularly required subjects with a view to getting pupils into closer rapport with their environment by considering subjects in "wholes" rather than in parts.

For example, through the story of rubber—a project in Geography—worked out by the pupils, with each one making his small though important contribution to the "whole", experiencing thereby the joy of being a real worker in a group wherein his work counts, and finally having his work in English, History, Spelling, etc., motivated unconsciously by the wealth of associations in such an experience, one learns the geography of South America in no uncertain way, and for all time. The pupil works not because of the fiat of the teacher, but by the compelling power of his native curiosity or interest in a story, a "whole".

II. The use of the Socialized Recitation as a means of developing a social consciousness.

Personal responsibility, mutual toleration, a knowledge of the proper meaning and use of freedom are necessary for the individual if he is to be a real democrat within a democracy. Through the Socialized Recitation the pupil has opportunity for the practice of these virtues in their broadest sense. The moment he neglects to practice them he finds himself shut out by his comrades from participation in his class activities. The social consciousness is developed; one must practice the social virtues in order to be recognized by the "Chair" in the Socialized Recitation.

III. The development of Silent Reading as a more effective means of *thought-getting*. This is always accompanied by a time-reaction. Clippings from newspapers and magazines are used here.

IV. Opportunity Classes. There are special classes usually held now from 3:30 to 4 o'clock on certain afternoons. They are composed of small groups of pupils who need drill along some particular line. A pupil is discharged from this educational clinic as soon as he is "cured", but may be re-admitted at any time for further treatment.

I have found that these classes are not only helpful to the pupils as such, but are also helpful to the teachers because they are brought into close rapport with the pupils' actual needs.

Junior High Schools.

The Junior High School or the intermediate school is a transitional school, the function of which is to insure for the pupil a gradual passage from childhood school experience into that of the secondary school stage. In the past strong criticism has been directed at the condition which made this change so sudden and violent. The Junior High School provides gradual changes by means of which the child passes without shock from the elementary to the senior high school. But in addition to this, and more important than this, is the function of the Junior High School to provide differentiations adapted to the varying needs, interests, and aptitudes of children. This variation is given by devoting a portion of the time to studies from which a child may make selection of what is most beneficial to him.

About one fifth of the time is given to electives; the remaining four-fifths are given to the subjects which all the children have in common. The course of study is so arranged as to give force to both of these ideas. Elective subjects begun in the Junior High School are continued in the Senior High School. Required subjects of the Junior High School are presented in ways which go on naturally and progressively into High School.

In order to give unity in all subjects in the work of the Junior and Senior High Schools, the heads of departments of the Senior High School have been placed in supervisory direction over the work in both schools. Frequent conferences are held by heads of departments with the teachers of the Junior High Schools by means of which a common understanding is reached by all of the teachers of the several schools.

In providing electives in the several years of the Junior High School care is taken to offer opportunity to children to change from one choice to another when it has been proven that such change is desirable. Flexibility is maintained to give the children the largest opportunity possible for self-discovery. In this way individual differences are provided for without the sacrifice of thorough work in required subjects. Experience has shown that while most children have made a permanent choice of electives by the beginning of the second year, others do not do so until well on in the Senior High School. While it is desirable to allow the child to cross over from one course to another, even as late as the junior year of the Senior High School, it is unreasonable for him to expect to complete without loss of time a course chosen so late.

In view of the fact that the Junior High School is a recent development in school organization, it is interesting to note that it is being adopted rapidly in all parts of the country. An article in the November number of the "School Review" gives the result of a questionnaire sent out to all cities of the United States of 100,000 or more population; 68 inquiries resulted in 60 replies. These replies showed that 26 cities have Junior High Schools. Of the 34 which replied "no" to this question 20 reported that Junior High Schools would soon be established in their cities. The article concludes with this generalization: "The unanimity about Junior High Schools in the cities which have such schools in actual operation is impressive. * * * * * Summarizing the status of Junior High Schools in cities of more than 100,000 it may be said that both the attitude and the action of the school men in these cities are distinctly in its favor. * * * * * From this evidence it appears * * * * * that the Junior High School is needed in the coming plan of organization for schooling pupils during the period of early adolescence."

Various phases of the work of the Junior High School are shown by the following statements made by Junior High School masters:

"We have continued the efforts set forth in the statement of our intentions last year and we reaffirm them at this time.

Many things have interfered with our attempts at incorporating extra curricula activities and we have now practically decided to set apart for them an hour within the school day each week.

Overtime work necessary because of crowded conditions and afternoon employment of many pupils have made it impossible for many to attend the meetings that have been held thus far.

Another impediment is the scarcity of rooms at our disposal, which tends to make the number of clubs comparatively small and the clubs themselves too large. It is hoped that the new building on Marshall Street will obviate this difficulty.

We have been more successful in organizing classes for self-regulation. Evidences of this are noticeable daily.

With the small appropriation made for encouragement of general sports, very little more than coaching the baseball team has been accomplished. To bring about the desired result, much more must be done on suitably equipped playgrounds."

SAMUEL A. JOHNSON,

Master of the Eastern Junior High School.

"The efficiency of the past year's work in the Southern Junior High School will be measured by the success of its graduates who are now pupils in the Senior High School, and by the industry and faithfulness of those who have taken up some other kind of work. We hope to be able to give even a better equipment to those who go from us this year.

'To give pupils a broad outlook upon the world's work, and to help them to ascertain their own aptitudes, interests, and abilities with reference thereto,' is one of the aims of the Junior High Course. To that end, incidentally 'to develop certain civic qualities, to meet health needs, and to prepare for the worthy use of leisure', perhaps the outstanding feature of this year's work at the Southern Junior High has been carried out along the lines of "extra curricula". Club life under the counselorship of the different teacher directors, develops the pupil along the line of his choice, the effort being made to give the pupil the largest possible freedom as to choice of club. The club-field covers a wide range of subjects, and furnishes territory, often virgin soil, where the pupil works out an interest which later develops into his life's work.

Among our various Junior High activities, one of the most important projects supported by us is our school paper, "The Southern Bell", which is now in the third year of a very active and prosperous existence. Those teachers whose work it is to guide the Staff of pupils who carry on the publication, have found a steady, marked improvement in the standard of manuscript submitted for print. We are able each year to publish, with less effort, an eight-page, cardboard-covered magazine of recognized worth.

Another aid to the growth of culture in our school is our Library, consisting of four hundred twenty non-fiction and two hundred seventy-six fiction, a total of six hundred ninety-six books placed on our shelves by the Public Library. Each class is assigned a Library Day when, accompanied by the Home Room teacher, books for home reading are discussed and taken out by the pupils.

Notwithstanding the large variety of subjects to which the attention of the pupils is called, the Southern Junior High School intends to conserve fully the interest of the three R's.

In the department of Practical Arts, the question of time to be given to shop work has arisen. In the seventh and eighth grades, every pupil is required to take two hours of shop work. There is no doubt that this requirement should be made in the seventh grade, the trying-out year. But after a pupil has been tested and found to have no aptitude for a particu-

lar elective course, why should he be forced to spend two hours a week in it? A possible solution to this question may be found by making the Practical Arts course entirely elective in the eighth grade, as it is in the ninth."

GEO. M. WADSWORTH,

Master of the Southern Junior High School.

"Children entering this year from the sixth grades and private schools have come with minds tuned to the Junior High School ideals. The six-three-three system is so well established that the younger boys and girls are looking forward to differentiated courses and related activities. It is evident that this has led to a better and more regular attendance, for the child is interested and realizes absence will mean retardation in his elected subjects.

We would recommend a summer school conducted by the school department of the city to assist those pupils who, for various reasons, wish to strengthen the work of the year or who are seeking for more rapid advancement. This feature of our school system would in a measure take the place of the teacher-coach, whom so many cities are employing in the Junior High Schools."

FRANK W. SEABURY,

Master of the Northern Junior High School.

"I take pleasure in reporting that the past year has been a happy and prosperous one for the school. The attendance of the pupils for the year ending June 1922 was 95.5% ; for the first quarter of this year it was 97%. This proves that the pupils are greatly interested in their work and school and that the parents, for the most part, realize the importance of regular attendance.

I wish here to express my appreciation of the support which the parents of the pupils in this school have given in all the efforts of the master and the teachers to make this a live junior high school.

One matter which has received attention recently from prominent educators is the time devoted to extra curricula activities. In order to provide for this modern development

the periods of one day in the week have been shortened, thereby allowing for these activities within school time. Twenty-one clubs were formed, namely:

Dramatic	Latin
Debating	Glee
Travel	Orchestra
Science	Scout
Fancy Work	Knitting
Busy Bee	First Aid
Basketry	Story Tellers
French	Bird and Flower
Civics	Radio
Carpentry	Spanish

School Paper

These are carried on by the pupils under the direction of one or more teachers. Each pupil was required to make a choice of the activity in which he was most interested. Though this plan is in the experimental stage, many pupils have already shown an increased interest in school work because of these activities.

A library hour is one of the most valuable periods in a junior high school and, therefore, an hour has been set apart for this purpose in so far as is possible with the limited number of teachers available. I recommend that an experienced teacher for this work be provided.

As an evidence that the junior high school has helped to bridge the chasm formerly existing between the elementary and the high school, I draw your attention to the following:

In June 1921 the Western Junior High School graduated 319 pupils; of this number 310 entered High School in September 1921. In June 1922 the Western Junior High School graduated 306 pupils; of this number 288 entered High School.

As a result of the action of the School Committee in providing a paid coach for the boys and another for the girls, a greater amount of work has been done in the way of physical development of the pupils. Better baseball, football and track teams have been trained, and more girls have taken part in tennis, basket ball, bat-ball, hikes and other interests.

In spite of the noise, confusion, and dirt which necessarily accompany the construction of our new building, pupils and teachers are delighted with the prospect that corridor recitations and other inconveniences will soon be at end. We are to have an auditorium which will enable us to hold assembly periods of all pupils and to extend our physical exercises, thereby giving the school opportunities which now are

impossible. By the fitting up of the space under the hall a lunch room of sufficient size to accommodate all pupils will be provided.

May I say in closing that the marked progress of the school has been due largely to the interest and united effort of the school committee, the superintendent, the parents and the efficient corps of teachers."

ARTHUR L. DOE,

Master of the Western Junior High School.

High School

...

The final division of the school system is the High School now known as the Senior High School. This organization consists of three years, and deals with youth of adolescent age.

The activities of this school are divided into four general groups: college preparatory, commercial, general, and the household arts. Each of these courses is a continuation of work begun in the Junior High School. Each is well organized and affords an opportunity for pupils to secure thorough training in the work best fitted for their needs and aptitudes. The work of the college preparatory department is planned to fit pupils for the varying kinds of higher institutions. Pupils enter colleges, universities, and normal schools, either by certificate or by examination. The record of the High School in these institutions is good. One hundred and thirty-four members of the last class entered the following higher institutions of learning:

Bates College, Boston College, Boston University, Dartmouth College, Emerson College, Harvard University, Jackson College, Lasell Seminary, Lowell Textile School, Massachusetts Agricultural College, Massachusetts Institute of Technology, Mt. Holyoke College, New Hampshire State College, Normal Schools, Northeastern College, Radcliffe College, Simmons College, Smith College, Tufts College, and Wheaton College.

The Somerville High School provides thorough drill for those who wish to prepare for admission to college but this work is done to meet the exactions placed upon the secondary school by the colleges themselves. The nature of these exactions is shown by the following statement furnished by Headmaster Avery:

“The Situation Regarding Preparation for College in a Comprehensive High School such as the Somerville High School

“First, what is a comprehensive High School? This type of High School necessarily varies in different communities owing to the character of the community and the special industry which is found there, but in general a comprehensive High School aims to supply pupils with any and all forms of secondary training for which the young people of the community have use, with the reservation that such a school is not vocational and does not aim to train primarily for special industries and occupations. To explain still further, the comprehensive High School should train young people to continue their studies in higher institutions; to go into business with a fair basic knowledge of business demands and customs; to have for the girls, a knowledge of the various phases of home making; for the boys of manual tendencies, a general fundamental knowledge of manual arts, particularly with reference to the special industries of the community; or to provide a broad fundamental training along general lines. These different types of efforts are in general characterized as courses,—the Preparatory, the Commercial, the Domestic Science, the Manual Arts, and the General. Of these, the Commercial Course comes the nearest to being vocational, since it does send out into business offices stenographers, typists, bookkeepers, and general office workers; yet the aim of the course as a whole is to give to pupils an understanding of stenography or business principles rather than to train for a particular type of business or office.

I shall discuss the first only of these courses, although much can be said about and many improvements suggested in all of them.

Few, outside of those making a special study of the requirements of higher institutions, understand the conditions imposed on secondary schools in training boys and girls to continue their studies in college, scientific schools, normal schools, etc., or the little leeway given the secondary school, once a pupil has selected the particular college for which he wishes to prepare.

If the pupil could always decide *at an early age* that he wanted to continue his education after high school, if he could *definitely select his college and never change*, if he and his parents could be made to know that a high school diploma *does not* insure entrance to college, and if only the brighter pupils desired to attend college, the task of the high school would be simple indeed.

In the eastern states especially, the requirements for entrance to college are very explicit and vary considerably for different colleges. Harvard, Radcliffe, and Wellesley represent one type and perhaps the most exacting; Dartmouth another, Boston University, Brown, and Tufts another; and the Institute of Technology still another. Any pupil of good ability should be able to enter any of these colleges if he makes his choice early enough and works hard. His decision to go to college should be made not later than the beginning of the last year of the Junior High School, as the preparation demands at least four years' work, and his choice of college should be made finally upon entrance to the Senior High School. Pupils who do not decide to go to college until they enter the Senior High School must expect to take an extra year after graduation in order to satisfy the requirements.

Parents often think that a high school diploma is all that is necessary to gain admission to college. This fallacy should be suppressed early in the Junior High School. Pupils in order to satisfy the college must do much better than passing work and must do much more than the amount of work just necessary for securing a High School diploma.

The rigorous and exacting requirements imposed by the colleges make college preparation very difficult and fill the short school day to repletion. Little opportunity is, therefore, granted the college-bound pupil to indulge in the so-called extra-curriculum activities of the high school, such as music, debating, work on the school paper, dramatics, etc. In this respect pupils of the preparatory course are largely deprived from taking part in many of the broader activities of the school and from securing that all-round preparation which gives them the best foundation for valuable citizenship and efficient membership in society. In brief, college preparation is narrowing rather than broadening,—in general, uninspirational.

Even with these limitations, college statistics show that public high school trained young men and women do better work in college than those from private preparatory schools.

What is the solution of this problem? A longer school day would help somewhat and that seems all that one can suggest under present conditions. Even that would be attended with some risk as time would thereby be taken by some from needed physical exercise or home study.

A real solution must come from the colleges through a readjustment of the requirements, a letting up of the grueling and deadening repetition in the languages, the substitution of interesting authors in both ancient and modern lan-

guages, the study of modern history, social sciences, and the problems of citizenship, and a recognition of the value of a real study of music, debating, or art.

May the day soon come when all the courses in a high school may fit for citizenship and a real appreciation of right living."

The Commercial Department. This department provides vocational training in bookkeeping, typewriting, and stenography. A pupil who has taken the regular course in these subjects can easily find employment upon graduation, and can meet all the requirements which it is reasonable to expect a beginner of the age of a high school graduate to have in any of these subjects. Pupils of the commercial department of the graduating class are required to spend one week in office work during the senior year. These pupils by their work in the City offices, have clearly demonstrated their efficiency in stenography and typewriting, and in their ability to meet office requirements usually placed upon a beginner. Some graduates of the high school attend commercial schools, either to specialize in advanced work or to complete the course which they have begun too late to finish before graduation. Such instances in no way reflect upon the work of the school. They are variations of the rule which is that completion of the commercial course of the Somerville High School fits a pupil to begin work in some one of the three branches taught.

The General Course. The general course affords an opportunity for pupils who for any reason plan to defer specializing until after graduation. This course is rich in material and affords a fine opportunity for study and improvement under good conditions.

The Household Arts Course. This department is of recent development in the high school. It is fully explained in the report made by the Director of Household Arts. In this course a girl divides her time equally between a group consisting of dressmaking, millinery, cooking, household economics and other related subjects, and a group of academic studies taken from the general curriculum. It is valuable not alone on account of the special training which it provides but also for the reason that it fits girls to enter a variety of vocations upon graduation, wherein they can be self-supporting until the time for home-making arrives.

Extra Curricula Activities

Personal development of the students of the High School in initiative, self-reliance, executive ability, and social co-

operation, is promoted by certain activities which the students themselves conduct. These are commonly classed as extra curricula activities. What is being done in the High School along this line is shown in the following statement which has been prepared, with the approval of the Headmaster of the High School, by Stephen H. Mahoney, a member of the High School Faculty:

The Extra Curricula Activities of the Somerville High School

Besides the regularly prescribed activities there are many undertakings connected with the High School course which are open to the pupils. These activities are conducted by the pupils themselves, but are under the guidance or supervision of members of the faculty. The administration of the High School fosters and encourages these miscellaneous undertakings as helpful to the pupils from a cultural, recreational, or scientific standpoint.

The Students' Council is the representative organization for the entire membership of the school. The four officers of each class, namely, the president, vice-president, secretary, and treasurer are ex-officiis members of the council. In addition there are six members known as Floor Proctors, each proctor representing the rooms on one floor of each of the High School buildings. The Council in its representative capacity acts for the student body in offering suggestions to the Headmaster and Faculty relative to student cooperation in school affairs. Illustrations of the work of the Council are: planning methods of filing to and from recitations, procuring posters and mottoes for school activities, conducting school assemblies for the promotion of some particular undertaking, acting as ushers at assemblies and public gatherings, and acting as monitors in the fire drill. The projects of the Council are transmitted to the pupils of the school through the medium of Proctors, each home room in the school building being represented by a Proctor selected from the membership of the room.

In addition to the Students' Council, as has been intimated above, each of the three classes in the High School has its own organization for the administration of class affairs. The class officers, namely, a president, vice-president, secretary, treasurer, editor, and assistant editor are elected annually by ballot. Each election is conducted in accordance with the custom of municipal and state elections, the candidates being placed in nomination by the filing of the proper papers and, in the case of the senior class, the election is conducted at a city polling booth under the supervision of

student election officials. Each class conducts its own meetings during the school year as occasion demands, the routine work being attended to by the officers.

Chief among the literary activities of the school is the publication of a school paper, "The Radiator." This paper which is issued monthly is managed entirely by students. This publication serves as a journal for recording school activities, and as a medium for promoting interest and cooperation among the pupils.

The Boys' Debating Society, with an active membership of about fifty pupils, aims to foster practice in public speaking, to train the boys in logical reasoning, and to promote interest in public questions. Meetings are held weekly in the school building, and in addition the society usually competes in one or more contests with other schools.

The Girls' Debating Society serves the same purpose for the girls of the school. This organization is a member of a triangular league, the other members being representatives of the Newton and Brookline High Schools. These three schools meet annually in a triangular contest.

The Somerville High School Players' Club is a recently organized undertaking in the school. With a membership of approximately 125 pupils, its purpose is to promote interest in dramatic activities. Included in its membership are pupils representing the Art Department, the Dressmaking Department, and the Manual Training Department, thus enabling the organization to procure within its own ranks the costumes, scenery, and stage property essential to the presentation of plays.

The Somerville High School Orchestra heads the list of musical activities. Its membership of sixty pieces is drawn from the pupils in the school capable of playing orchestral instruments. Most of the players have already been members of similar organizations in the Junior High School System and accordingly have profited by such experience. The orchestra is under the supervision of the director of music, and aims to teach concert playing for both school affairs and other functions which have the sanction of the School Committee.

The School Band with a membership of approximately thirty-five pupils rehearses weekly and furnishes music for many of the school activities, particularly those of an outdoor nature. The band is also occasionally called upon to render music for parades and other undertakings which have the approval of the school authorities.

The Fife and Drum Corps is a boys' organization which

renders music chiefly for the physical training activities of the school, particularly those of an outdoor character. It is composed of 40 pupils who meet weekly for instruction and rehearsal.

The Fife, Drum and Bugle Corps is a similar organization for girls, and alternates with the boys' organization in furnishing field music. There are at present about 40 members in the corps.

The Mandolin Club is composed of 24 pupils who play the stringed instruments. Its purpose is to provide pleasure for its members in concert playing and also to furnish another type of entertainment at school functions.

The Boys' Glee Club has a membership of 30 and meets weekly for rehearsal. Its objective is socialized concert singing for the purpose of the pleasure it affords those participating, as well as for the purpose of rendering selections in public.

The Girls' Senior Glee Club numbers 80 members from two upper classes in the High School and serves the same purposes as the similar organization among the boys.

The Girls' Junior Glee Club secures its membership from among the first year pupils. Its present membership is approximately 45 girls.

The Somerville High School Athletic Association is the medium through which the pupils support the major athletic activities of the school. An executive committee, on which the students and alumni are represented, conducts the administrative business of the association. Under its supervision Baseball, Football, Hockey, Basket Ball, and Track activities are conducted for the boys of the school. This association conducts its work in cooperation with and under the direction of the School Committee.

The Girls' Athletic Association is a similar organization for the purpose of promoting athletic activities for girls. Its organized undertakings thus far include Tennis, Basket Ball, and Field Hockey, and in addition it has conducted informal hikes, swimming groups, toboggan parties, and similar activities.

The "S" Man's Club is a newly formed society in the school. All athletes who have been awarded letters by the Athletic Association are eligible to membership. The purpose of the club is to cooperate with the school faculty in the conduct of athletic undertakings, to promote a better feeling among those participating in school athletics, and to exert its influence in general school affairs.

The School Bank is the medium through which thrift is encouraged among the pupils. At a stated time in the

week's program a brief period is provided during which the pupils of the school are encouraged to make regular deposits in the bank or its sub-stations which are conveniently located throughout the school.

The French Club was organized to stimulate interest in the French Language, and give opportunity for speaking French in recitations, dialogues, plays, songs, etc., and to help pupils to gain confidence and to become better acquainted with teachers and fellow pupils.

The Chess Club has at present a membership of 25 boys and meets weekly to promote interest in this scientific game. Matches with other schools are occasionally arranged.

The Radio Club is now in the process of organization. Its objective is to instruct pupils who are interested in the subject of Radio to build or improve Receiving Sets and also to provide instructions in the reading of the Radio Code.

The Art Club is the most recent organization in the school and is not yet sufficiently established to report its accomplishments. Its function will be to promote interest in art as an asset to culture and also to assist other school activities by furnishing posters and like material.

Vocational School

Under the State Law any child fourteen years of age or over is entitled to attend a vocational school in his own town or elsewhere in the state, provided his own town does not maintain the type of school which he wishes to attend. In the latter case, the home town must pay the tuition for every such pupil to the town maintaining the school which the pupil attends. Somerville has for a number of years maintained a day Vocational School for Boys. For a number of years it also maintained a day Vocational School for Girls, but in October, 1919, this school was closed and in its place a department of Household Arts was established in the High School as a vocational opportunity for girls. Under present conditions, then, the local youth may choose between attending the vocational school maintained by the City of Somerville or attending some other type of vocational school maintained in other communities. At present, attendance of Somerville youth at day vocational schools is as follows:

In Somerville Day Vocational School.....	90
Household Arts, S. H. S.....	34
In Boston.....	14

Of the number of pupils attending the Boys' Vocational School 52 are residents of Somerville and 38 of other communities.

Five departments are maintained: academic, wood-working, machine-shop, automobile repairing and mechanical drawing. The school is well equipped, has competent instructors, and prepares boys to enter the trades as advanced apprentices. Its course of instruction is three years in length. Under the rules of the Department of Education, fifteen pupils is the maximum number to be taught by a trade instructor. While the present school plant is so occupied that there is no room for additional classes, there is room for additional pupils in a number of the departments.

The possibility of increasing the scope and influence of this school is great. Such development can only come, however, as a result of greater appreciation of this type of school on the part of parents whose boys would find their best careers in industry. In a community where construction is one of the greatest enterprises in which the people are engaged, well-trained tradesmen are essential to its welfare and progress. Honorable careers of usefulness and profit are open to such workers. The Vocational School for Boys gives a chance to learn the elements of a trade and at the same time to advance in academic study. It is possible, of course, to develop this school by the addition of a year to its course of study should the public demand therefor be sufficient. In the same degree, instruction in other trades could be added, thereby increasing the opportunities for boys to prepare to earn a living and to get academic instruction at the same time.

Continuation Schools

In a referendum vote in 1919, the people of Somerville decided to accept the provisions of the law in reference to continuation schools, and in September 1920 such schools were opened by the School Committee. Two kinds were provided, one for girls and one for boys, each having two teachers. The classes were located in the High School building, each using two rooms. The equipment of the two schools was furnished mainly by transfer from the High School. Today both schools are located in the High School building, and improvement has been made in the space provisions made for them. Under the law, all children fourteen to sixteen years of age, who are at work, must attend Continuation School four hours every week, in the town where they are employed. As many of our youth work in other places than Somerville, not all of them are in our Continuation Schools.

The present membership of our schools is as follows: Boys, 88; Girls, 48. Both schools are organized in two general departments, academic and practical arts. The work

in both departments is well organized and holds the attendance and interest of the youth who attend the schools.

One element of difficulty in the management of these schools is the problem of the twenty-hour pupil. Under the law a child fourteen to sixteen years of age who is out of work must attend Continuation School twenty hours a week. As there is a good deal of variability among the individuals of this group, due to the fact that changes of employment and idleness are constantly occurring, it is difficult in schools as small as ours to arrange satisfactory programs for these pupils. The problem, however, has been handled as well as possible under the conditions now obtaining. Future developments may point to ways of improvement in this matter.

Americanization

Classes in English for adults of foreign birth have been conducted in accordance with the general plans which have been developed in the two preceding years. So far as the organization goes, an attempt has been made to provide the most convenient opportunity possible for those who wished to learn the English language. Classes have been conducted in school buildings in the evening, in factories wherever arrangements to that end could be made, and in schoolhouses and homes during the day. A special effort has been made to provide afternoon classes for mothers and interesting results have followed this attempt. A class in citizenship was conducted in the Morse School with an attendance of 22 men, of whom 21 passed the examination for final papers. Two supervisors have visited the homes of many non-English speaking families to spread information about these classes and to create a friendly attitude towards our language and customs. A very eager spirit has been shown by all of those who attend these classes and a strong desire to become acquainted with the English language and identified with our habits and community life. The classes average 67 sessions a year. Generally the attendants of these classes are sorry to have the session come to a close. In looking for a justification for conducting this work at public expense one would have to estimate the following values:

(a.) A considerable number of men have qualified for citizenship through the instruction received in these classes.

(b.) A much larger number have improved their knowledge of English and thereby have increased their value not alone to themselves but also to the other members of the community.

(c.) All of the attendants have gained in knowledge of

and sympathy for our institutions and have thereby become more identified with our interests.

The work in Somerville has been conducted in harmony with the general plans formed by the Department of Education for the carrying on of this work throughout the state. These state plans indicate that the problem of educating the foreign-born in the English language and customs is regarded as of large importance to the future welfare of the state. In connection with the meeting of the N. E. A. in Boston a conference of leaders in Americanization work lasting two days was held. The general state of this undertaking throughout the country was considered. The common opinion was that this work is necessary and should be pushed vigorously among all people of foreign speech residing in this country. This opinion was maintained on grounds of national interest as well as on grounds of the interest of the newcomers themselves. The local work is in harmony then with the purposes, plans of organization, and methods of procedure which are approved by the workers in this field both in the State and the Nation.

Night School

Night schools now include the Evening High School, elementary academic classes, vocational classes for men and women, and Americanization classes. This enumeration shows a change in the character of night school instruction from the type formerly given, which was mainly academic. The Evening High School has been conducted on the general lines followed in previous years. The membership has been somewhat larger than last year, and has been made up of earnest young men and women. Never has there been more interest in the subjects studied or better progress made by the students.

The classes in strictly elementary work were only two in number, one at the Bell School and one at the Western Junior High School. In this department of Evening School undertaking a considerable shrinkage is shown from the numbers of earlier years. It is probable that the local native-born youth advance so far in school before leaving that the kind of night school instruction they desire to obtain will be found in the high school rather than in elementary grade work. This condition is no reflection upon the organization or offering of the Evening Schools, but is an indication of the change of day school conditions.

The vocational evening classes have been conducted for men and women. Those for the men have been located in

the Vocational School for Boys, and consisted of classes in machine shop practice and automobile mechanics. The Vocational School for Women consists of classes conducted in the High School building, and in the Western Junior High School. The subjects offered are dressmaking and millinery. These classes are well attended and are meeting a very positive demand. All vocational classes, whether held in the day or evening, are conducted in co-operation with the State Department of Education under the plan by which the State pays one-half of maintenance cost.

Atypical Classes

Section 46, Chapter 71, General Laws of Massachusetts is as follows:

"The school committee of every town shall annually ascertain, under regulations prescribed by the department and the commissioner of mental diseases, the number of children three years or more retarded in mental development in attendance upon its public schools, or of school age and resident therein. At the beginning of each school year, the committee of every town where there are ten or more such children shall establish special classes for their instruction according to their mental attainments, under regulations prescribed by the department."

Before the enactment of this law Somerville already had established three classes for such children. These have always been full but have taken care of only a fraction of the number of children for whom such classes are intended. During the summer of 1921 a psychological clinic began work in Somerville under the direction of the Department of Education and has continued in operation ever since. As the members of this clinic devote only part-time to this city, the progress of the work is necessarily slow.

It has, however, completed the examination of a number of children and has made definite report upon them. At the present time the situation is as follows:

Thirty-seven additional children have been declared to be eligible for this type of school. One hundred thirty-nine more children have been reported for and are waiting examination. Without doubt a large part of these children will be found to be three years or more retarded. It is apparent from this review of the matter that a considerable problem must be met and solved in the near future. With fifteen pupils to a class there are now enough of these children to make two additional classes. This number will be increased as the examination progresses. Consequently we shall be

called upon to provide additional classes, probably at least four or five in number. With an undertaking of this size to be handled, methods of organization will necessarily have to be considered. At present the three classes are placed separately in different parts of the city, each conducted as an independent unit. Each receives and teaches pupils of various ages and stages of physical and mental development. This arrangement has, in the past, been necessary for various reasons. The classes have done the work for which they were established as well as possible under such conditions, but with the larger undertaking to be managed a different scheme of organization should be followed, and very much more should be done for these children. As soon as circumstances will permit, all of these classes should be gathered in one building, the work should be graded by age or capacity, and more adequate provision of handwork equipment should be provided. Such an arrangement would be more economical so far as the needed equipment is concerned and it would provide opportunities for older children of this type which they do not now have.

Sight Saving Class

In accordance with plans disclosed in the last annual report the sight saving class was established by the School Committee last June. This class is located in the Highland School and is properly equipped and has at present an attendance of ten pupils.

As the children who ought to attend this class are scattered about the city, it becomes with some of them a problem how to get to the school. Parents of some who attend are asking for transportation because they are not able to meet the daily expense for carfare. It is the practice in other communities where such classes are conducted to provide carfares. In order that this school may fully meet the purposes for which it is established, it is desirable that carfares be provided for those pupils who live at a long distance from the school.

Attendance

For the first quarter of the present school year, the percentage of attendance for all the day schools of the city, without the Continuation Schools, was 95.9%. The percent of average attendance for the school year ended June 30, 1922, was 94.2%. This is the highest annual percent since 1915, when it was 94.5%. The percent of average attendance since

that year is as follows: 1916, 93.4; 1917, 93.7; 1918, 92.2; 1919, 91.2; 1920, 91.9; 1921, 93.6; 1922, 94.2.

The low rate of attendance during the war and shortly after may have been caused by the general unrest or by the fact that many children had part-time jobs after school taking their attention in a large part, away from the thoughts of school obligations. The present rate shows an improvement over former conditions. Apart from the change in the times, various other reasons contribute to better attendance. Teachers are making extra exertions to secure good attendance and they are having greater success than attended similar movements during the years just passed. One of the important lessons to be learned during childhood is the value of constant and sustained response to duty. School offenders of all sorts are usually found among those whose attendance is poor. Most juvenile court cases are those of children who are out of school either through truancy or irregular attendance. Most successful scholarship is found among children whose attendance is constant. These facts indicate clearly the importance of regular attendance. The schools cannot train the child who is absent nor can the home make up to the child the loss which absence causes. There is, therefore, the strongest reason for the closest cooperation between home and school in the matter of insuring the regular attendance of all children.

Thrift

Instruction in thrift has been given in all the schools even more vigorously this year than at any other time. The results of this work are gratifying. The methods employed and the amounts deposited in the school savings bank are shown in the following statement prepared by George I. Bowden, Chairman of a Committee of Supervising Principals on *Thrift*:

I submit the following report for the Committee on School banks for the year of 1922. The present year has been, on the whole, a year of progress.

School banking is now carried on in all of our schools and its value to the children is better appreciated by the teachers than ever before. At first this undertaking was looked upon by many of us as a troublesome interruption in an already over-crowded day. It is now regarded as a very important and helpful aid in forming the valuable habit of thrift in our pupils.

The fact that so many of our people are spending their money as fast and in many cases faster than they are earning

it is looked upon by many of our most thoughtful men as a danger to the very foundations of our social and economic order.

The schools have a very important duty to the rising generation in this matter. It is not enough to give them the power to earn more money, for it is known beyond a doubt that the better the children are educated the greater will be their earning power. We must teach them the value of money, how to spend it wisely, how to save and safely invest a part of it.

That \$38,934.10 has been deposited in the Somerville Institution For Savings by 4400 children is a very convincing fact to show that thrift is being taught in our schools.

We are sure that a means of depositing the children's savings at frequent periods, such as is afforded by the school banks, is essential to this instruction, for the amount saved during the summer vacation is much less than that saved in the same length of time when the school banks are in operation.

The number of children in our schools who are depositors is not as large as it is in many communities that have school banks.

Is not the number of children who are learning to save of greater importance than the total amount saved? Cannot this number be increased during the coming year?

Health

The health of public school children is the joint concern of the School Committee and the Board of Health. More remotely, it is a concern also of the Commissioner of Public Buildings, who has charge of the school buildings including sanitary conditions, heating, lighting, and furniture. The Board of Health employs and directs the school physicians. It also employs two school nurses. The direction of the school nurses, however, is through the courtesy of the Board of Health exercised by the Superintendent of Schools. The School Committee has charge of all the school activities designed to promote the health of pupils through instruction, physical training, and general care. Health instructions are given in accordance with a course in hygiene extending through the elementary schools, and the first two years of the Junior High. Physical training exercises are conducted for the purpose of promoting physical development and health. These exercises are conducted under the direction of a Director, Assistant Physical Director, and two cadet teachers. The Assistant Physical Director has charge of the

extension work in games and athletics designed to promote participation by pupils in outdoor games after school. The plan for this work which was adopted by the School Board at the January meeting has been carried on during the year. Many obstacles have prevented the rapid and successful development of this plan. None of them have been of a nature, however, permanently to retard the work. With the experience of this year to guide us it ought to be possible for those in control of this matter to make a larger showing next year. Health work in the schools has received emphasis by the entrance into this field, this year, of the State Department of Education. This department has appointed officers whose function it will be to promote the interests of this work throughout the state. Without going further into details of this matter, I wish to report that much interesting and successful effort is being put into this part of the school undertaking, and that the importance of the physical development and health needs of the pupils of the public schools is likely to grow in importance and the amount of attention demanded for it. There are some important questions now requiring consideration and answer. These will, doubtless, be considered by the School Committee during the coming year.

Credits for Music

In 1919 the School Committee authorized the giving of diploma credits in the High School for outside study of music. A method of procedure was carefully prepared and the plan was put into operation in the following September. As this work has been going on now for two years, some idea can be obtained of the interest which pupils have taken in this opportunity and of the extent and character of the work in music which has been fostered thereby. Therefore, I have asked Wesley A. Maynard, High School Instructor in Band Music, an enthusiastic believer in the value of the study of music, to write a statement about the present status of this work. His statement follows:

Credited Music in the Senior High School

Since the School Committee, in the summer of 1919, authorized the giving of credit for music in the High Schools, there has been a constant growth of interest, yearly increase in the number of pupils enrolling for credit, and steady improvement in results attained.

This year 75 pupils have been entered by their parents

or guardians for the two points of credit allowed for work under private teachers outside of school. The number of pupils, though not much in excess of last year, includes a greater diversity of musical activity, the voice and 8 instruments being comprehended. Instruction on piano is being taken by 47; violin by 18; voice by 5; drums and xylophone 2; clarinet, trumpet, cornet and alto horn, 1 each.

The music teachers of Somerville are not organized into an association, such as exists in many other communities and while such associations have advocated and endorsed and cooperated with the system of credit for applied music realizing that it furthers the cause of music, the talent of the pupils and the standards of the music teaching profession, some of the Somerville teachers unfortunately have not looked with favor upon the movement, and have not encouraged their pupils to enroll for credit. If some means could be found of securing the united interest of the local private teachers the opportunity offered by the school would be taken more advantage of.

There are 385 pupils enrolled for the one point of credit given for membership and satisfactory performance in the different musical organizations of the school which include orchestra, band, girls' fife, drum and bugle corps, boys' fife and drum corps, mandolin club, senior-junior girls' glee club, sophomore girls' glee club and boys' glee club. These organizations take a prominent part in the functions of the school and in such other public affairs as are authorized. They are an important factor in the strengthening of the school spirit and the upbuilding of loyalty to the school and the community. The band and drum corps especially have an important part in the physical training program and in the outdoor activities of the school. The other organizations, by their nature, are associated more particularly with the indoor functions.

The school orchestra numbers upwards of 60 players including, but not in the right proportion, all the instruments of the modern orchestra. Some thought has been given to the proposition of dividing the orchestral players into two groups, the first of which would be a balanced team of the most competent performers playing music suitable for any occasion where their presence might be desired, the second being a training group from which the most proficient players would be transferred to the first group as opportunity offered or need arose.

The school band, numbering some 30 members, and the two drum corps, numbering about as many players in each,

are composed of pupils able to play upon the necessary instruments. A knowledge of music and an ability to perform is required of members of the band, as also of the orchestra. The experience gained by pupils who are members of these organizations is chiefly in ensemble playing and an increased knowledge of musical literature. Instruction on fife or drum is given to such members of the drum corps as are in need of it, the pupils so instructed being added to those organizations as soon as their musical ability warrants.

There are at present 47 girls, either playing or learning to play fife, drum, or bugle and 67 boys who can either play fife or drum or are learning to play the fife. In addition there are 48 boys who have enrolled for instruction on the drum who have as yet received no attention owing to the fact that the instructor of field music is employed for only two days a week, and that amount of time is more than filled by the amount of work now being carried on.

The mandolin club, which has a membership of 24, is the newest of the musical activities, having been started for the first time in the Fall of 1921.

Interest in singing among the girls has increased to such an extent recently that this year, as last, it was found expedient to organize two glee clubs, one of senior and junior girls and another of members of the sophomore class. The boys who sing, though less numerous, are fully as much interested in that art as are the girls. Their organization numbers 157 voices.

The musical activities fostered by the school, besides promoting a greater general interest in music, have awakened in a considerable number of pupils a desire to give expression to their musical sense and have in some individual instances promoted a proficiency in music which has brought not only pleasure but profit to its possessors.

Interest in, and knowledge of, music, in one form or another, has never been as general as now, and while the musical opportunities afforded at the Senior High School are not as broad or extensive as in some more fortunate communities, they have developed to such an extent as to justify their further extension.

The further extension and development of musical opportunities that might well be considered, and which have been found to give satisfactory results where introduced, include the organization of instrumental units, such as bands and drum corps, in the junior high schools, and the establishing of classes in ear training, theory, perhaps harmony, and music appreciation, the giving of musical memory tests,

and the providing of instruction on piano, violin, and other instruments either gratuitously or at a nominal cost in either the junior or senior high schools.
paid in full to this office by

I shall institute

Accommodations

In last year's report a detailed statement was made concerning school accommodations. No material change has occurred since then to modify the application of that statement to present conditions. A vacant room in the Proctor School has been occupied by an additional class but in other respects conditions are the same as last year at this time. While this statement is true now, very important action has been taken during the present municipal year which will soon change these conditions very materially. Upon recommendation of Mayor John M. Webster, the Board of Aldermen in April of this year passed an order making provisions for a very important addition to the school accommodations of the City of Somerville. These provisions as a whole constitute the largest, the most comprehensive, and the most far-reaching building program ever recommended by a mayor and authorized by a Board of Aldermen in a single year in the City of Somerville. It is responsive to the needs of the situation as they have been expressed by the School Committee in recommendations made to the Mayor and Board of Aldermen.

This building program consists of a new Junior High School building to be located on Marshall Street and of additions to the Western and Southern Junior High Schools. Work began on all of these projects in the early summer and has continued vigorously ever since. The corner stone of the new school on Marshall Street was laid with due ceremony on November 21, 1922. It is expected that this building will be finished in November, 1923. It is expected that the additions to the Southern and Western Junior High schools will be finished early in 1923 so that the over-crowding in both those places will then be relieved. When these two additions are completed the conditions at the Western and Southern Junior High Schools will be very greatly improved. At the Western, an assembly room capable of seating about 1,000 pupils and convertible into an exercise room, and lockers and showers for boys and girls have been provided. The new building on Marshall Street when completed will be a model in design and adaptation to use, and will be a source of pride to the city. When these improvements are all completed, the junior high schools, which have so far been conducted under very adverse circumstances, will have an oppor-

tunity to demonstrate plainly the efficiency which they have already attained, and will be able to add others which will be made possible by these improved accommodations.

Teachers' Council

One of the important developments in the field of school management in recent years is the Teachers' Council. As the relation of the Somerville teachers with the School Board has always been cordial and cooperative, the forming of a Teachers' Council was the natural thing to do when once it became clear that such an organization was worth while. Accordingly, the School Board in June, 1921, authorized our teachers to establish and maintain a Teachers' Council. An account of this undertaking is given in the following statement which has been prepared at my request by George M. Hosmer, Chairman of the Teachers' Council.

Report of the Chairman of the Somerville Teachers' Council

Somerville, Massachusetts
December 12, 1922.

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

Dear Mr. Clark:

The Teachers' Council is an outgrowth of the need for greater co-operation of the teachers with the School Board. Two years ago a tentative constitution was presented by a committee chosen by the School Board. This constitution was not accepted, and further action was postponed.

In the fall of 1921 a committee was appointed of four representatives from each of the following groups: Kindergarten, Primary and Elementary grades, Special and Vocational school teachers, Junior High, Senior High, Americanization and Continuation Schools, masters and masters' assistants.

From this representative group, five were appointed to revise the tentative constitution. * * * * * As revised by this committee the constitution was presented for approval by the various representatives to their respective groups. After

their acceptance, the School Board approved the constitution at the meeting in April, 1922.

A ballot was made of twenty nominees, two chosen by each of ten groups. The election occurred May 10, 1922; and the Somerville Teachers' Council was organized into an active body.

The first meeting called to organize was held on June 6, 1922. The following officers were elected by ballot:

Chairman, George M. Hosmer
Vice-Chairman, Frank W. Seabury
Secretary, Mary L. Bryant
Treasurer, Mary H. Joyce

It was voted to hold the meetings of the Council in the High School Library at 4 P. M., on the Monday preceding the last Monday of each month from September to June. The running expenses of the Council are met by an annual assessment of ten cents from each Somerville teacher.

At the first regular meeting held on September 18, as Superintendent, you accepted our invitation to be present, congratulating the Council on its organization, and asking its co-operation in dealing with the many educational problems demanding solution. The Council pledged its loyal support and readiness to help in all ways affecting the welfare of the schools.

At the October meeting Miss Hazelton gave a full account of the origin of the curfew ordinance, and explained the difficulties in the way of its present enforcement. It was voted to promote the observance of American Education Week, December 3 to 9. The Council, therefore, at its November meeting made definite plans for a constructive program to interest the public in the needs of our schools. The Somerville Post of the American Legion co-operated with the Council and invited the chairman to address them, December 7, on the need of Physical Education. A letter was sent to all the ministers of the city, urging them to preach upon the subject of Education, December 3. The local papers, at the request of the Council, gave good publicity to American Education Week. The different schools introduced special features, carrying out the purposes of the observance.

At the November meeting of the School Board the Council offered some recommendations from a report of First Grade Teachers, concerning the admission of children to the first grade: 1. To admit into Grade 1, on or before the Monday following the opening of school, all children who are six, or who will be

- before December 31, and those only.
2. To limit the number of pupils to a class in Grade 1 to forty; and the seating capacity in each room to forty; all desks and chairs in excess of that number to be removed, in order to allow more room for schoolroom activities.

The Council desires to be of real service in the affairs of our schools, and hopes it may bring to bear upon the problems of the future the experience and judgment of the different groups which it represents. It also wishes to acknowledge your willing co-operation in every way, especially in circulating with official bulletins a record of the Council's proceedings.

Respectfully submitted,
(signed) GEORGE M. HOSMER,
Chairman.

Professional Improvement of Teachers

The professional improvement of teachers in service is one of the most important influences affecting the character of school instruction. It is the element which, added to professional training before entering the service, determines the character of a teacher's work. Last year an inquiry taken at this time showed that a large number of our teachers were engaged during the school year on some kind of professional study. This condition is repeated again this year as shown by recent reports. More than 190 are engaged in some form of educational study. Such continued interest by our teachers in efforts for self-improvement cannot fail to be beneficial to our schools. Inasmuch as this is all done without expectation of material reward greater credit is due them.

Cooperating Agencies

During the year the work of the schools has been helped by cooperation of a number of interested agencies. First of all among these should be mentioned the work which teachers have done outside of their classroom teaching. In committees and as individuals working with the Superintendent they have furnished substantial help in the selection of text-books, in the improvement of courses of study, and in the study of problems of educational procedure. This work

is still going on in respect to some very important problems of school organization and procedure.

A substantial gift of money was one of the outstanding contributions from outside sources. In June 1922 a group known as the "Women of Somerville" gave the School Committee \$429.59 to be expended in improvements of the Dental Dispensary. From this gift it has been possible to provide a new chair and motor.

Impetus to the study of history has been given through offers of medals and money for prize essays on historical subjects. The organizations which offered such prizes were: Major John A. Cummings, Camp 3, Sons of Veterans; American Legion, Post No. 19; Anne Adams Tufts Chapter, D. A. R. The Women's Christian Temperance Union offered prizes for compositions upon the "evil effects of alcohol and tobacco."

Summary

This review has dealt briefly with many things which are being done in our schools but more have been passed over without comment lest this report exceed proper limits. The selection, however, has been made for the purpose of showing the larger parts of the undertaking and what each is doing. The dominant note of the whole story is the highest development of the individual, both for his own sake and for the sake of the social order of which he is a part. This note is dominant today more than at any other time in the history of public education in this country. The right of every child to have a chance for making the most of himself is conceded. It is a proud boast that the public schools are for "all the children of all the people." It is recognized that children differ from one another in interests, aptitudes, and abilities. It is no longer attempted to conduct schools as though pupils were all alike. The child is the center of interest in whose behalf books, studies, equipment, and all other agencies of education are used to the end that he may attain his highest possible destiny. As children differ from one another so must agencies used and opportunities offered differ. As children are alike so must agencies used and opportunities offered be common to all. Account has been given in this report of the different opportunities which are now provided for our children. These are in the main different types of schools or courses of study. They are provided and

maintained to meet the most outstanding differences in the needs of children. Much more can and should be done in this direction when means permit. As the dominant note dictates these provisions for the development of the individual as such, so it compels the use of these provisions for the social welfare of the individual and of the society of which he is now a ward, but of which he will soon be an active participant to contribute his share in determining its nature and destiny. What the children in the public schools become, so will society be. Manifestly the schools must train the pupils in qualities which will make them capable of maintaining the institutions of a democracy. The schools must consciously visualize these qualities and consciously and constantly strive to develop them in all pupils. The means for doing this is instruction. Instruction is the function of teachers. In all types of schools or courses, in all grades of all schools, instruction is the means and teachers instruct. It is then through instruction from teachers that the pupil must be made fit for the duties which he must assume as a member of society, an equal of every other member under the law. As demand for this social training is more insistent now than ever before, so now, more than ever before, the school must find ways and means for performing this service. As this can only be done through instruction, the materials of instruction must be consciously and constantly used to this end. The statements which have been made by my associates and included in this report all bear testimony to the fact that the work of our schools is consciously motivated by these ideals and that the work is being vigorously and successfully carried on.

Conclusion

I want to acknowledge again the courtesy and consideration shown to me by all members of the School Committee and to express my appreciation of the loyalty and cooperative spirit of our teachers and principals. These have been the means of a year of success and progress. The end crowns the work.

Respectfully submitted,

CHARLES S. CLARK,

Superintendent of Schools.

REPORT OF THE
PRINCIPAL OF THE VOCATIONAL SCHOOL FOR BOYS

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

Dear Sir:

I submit the following report for the Department of Manual Arts and for the Vocational Work for the year 1922.

The free-hand drawing of the six grades continues as in past years with instruction by the room teachers under the direct supervision of Miss Gale. This method is the most satisfactory one yet devised and is in vogue throughout the country.

The free-hand drawing in the Junior High Schools is now in charge of a special teacher in each school as in the Senior High School. There is great need of special and additional equipment for the free-hand drawing work in the Junior High Schools, as these schools now seem to be able to accomplish more intensive work than was formerly attained by pupils from the 7th, 8th and 9th grades.

The drawing of the boys of the Junior High Schools covers more ground than heretofore and is more closely related to the hand work. A special room would be of great advantage and would enable us to achieve better results in this work.

The shops of the Junior High Schools need to be more fully equipped in order to provide adequate facilities for the work. Educators are still debating the question as to the advisability of providing a varied number of activities for Junior High Schools. However, our present activities are of a basic nature and therefore are the most important ones for any school to have. In my opinion, if one or two activities are provided, these should be fully and adequately equipped in order to obtain good results.

The Rehabilitation of the Ex-Service men, which was maintained for three years, has been discontinued and the Boys' Vocational School is now devoting its whole effort to

the training of boys in Wood Work, Machine and Auto Mechanics.

The school has been unable to accept all applicants because of lack of room. If the school were enlarged to provide instruction in other trades such as Printing, Electrical Work, and possibly sheet metal and laboratory work in connection with the auto department, much more could be accomplished in trade lines.

The State Report on Productivity for the past year presents the following audited report:

Value of all products	\$5,834 79
Cash received and turned back to City and School	1,568 83
Value of products for School and City Departments	1,374 35
Value of products increasing value of school plant	1,549 01
Value of material furnished by customers	1,172 45

Financial Statement, 1921-1922

Gross maintenance	\$27,265 87	
Income from		
Smith-Hughes Fund	1,699 46	
Non-resident tuition	3,576 16	
Veterans' Bureau	9,885 58	
Cash from products	2,219 24	
Credits		
Total	17,380 44	
Net maintenance cost	9,885 43	
Net cost per capita		\$83.213
State Reimbursement	4,942 72	
Net cost to City	4,942 71	
Net cost per capita to City		41.61
Labor and value of products on work for School and City Departments for which no charge was made	930 67	
Net Cost to City	4,012 04	
Net Cost per Capita to City		33.77

Respectfully submitted,

HARRY L. JONES.

January, 1923.

REPORT OF THE DIRECTOR OF THE CONTINUATION SCHOOLS
AND AMERICANIZATION WORK

January 1, 1923.

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

Dear Mr. Clark:

I herewith submit a report of the Continuation Schools and Americanization classes for the year 1922.

Continuation Schools

The Continuation Schools, opened in September 1920, have completed their second full year and have begun the third with the same organization, equipment and accommodations with which they started. In small schools like ours, which are organized in two general departments, academic and practical, it is a considerable problem to offer a desirable variety of practical activities for the students. In September 1920 the schools offered Household Arts for the girls and Woodworking for the boys. During the past year an intensive course of twelve lessons in Home Nursing was given for all the girls. Arrangements were made with the Somerville Hospital for the use of the instruction room of that institution and the lessons were given by the instructor of Training Nurses.

Some new equipment has been purchased and soon the activities for the boys will include sheet metal work and electric wiring. No increase in the cost of instruction, however, will accrue for the woodworking instructor will carry on this proposed new work.

In woodworking new and more advanced projects have been added to the already large list, without in the least reducing the high standard of workmanship. By this and other means interest and attendance of the youth is held in the various departments.

Our productivity returns to the State Department of Education for the year to June 1922 show a market value of products made in the school of \$745.34. Material accom-

plishment, however, does not show the whole or real value of the school. That is shown by the inspiration and strength given most of the students to see and follow the path of duty as it comes to them in future years. Pupils are guided to positions of better remuneration and opportunity whenever possible, thirteen having been thus aided during the year. An attempt is made to teach them how and why to conduct themselves that they may become better citizens of our city, state and country. We realize that these youths will, some in five and some in seven years, be voters and directors of the policies and actions of this great country of ours. Is it any wonder then, that we are vitally interested in these fourteen to sixteen year old minors, and do what we can to show them the path toward a better and more successful citizenship? Various cases might be cited to show that the teachers, who teach boys and girls rather than subjects, and guide the progress of the employed adolescent youth, are getting at least within sight of the road toward success.

It is important that the students realize that, although they have left the regular schools, their education is not complete, and that they must cultivate the habit of learning and earning at the same time. To accomplish our aims we must do more than simply teach a subject in a classroom, and we solicit and (with few exceptions) receive the hearty cooperation of parents and employers through the medium of follow-up visits to the homes and places of employment. The teacher, sympathetic and desirous of helping the student, becomes a friend and advisor with the result that attendance is improved, interest increased, and discipline made easier. The employer sees that the school can be an asset to him inasmuch as it provides that which will make the worker a more industrious and competent citizen.

The country-wide depression in business, which followed the apparent closing of the World War has made itself felt to a considerable degree in the matter of enrollment in these schools. Minors under sixteen must remain in the regular schools unless they are fourteen, have completed the sixth grade and have a written promise of employment. The scarcity of jobs makes it impossible for many of the under-sixteen group to leave the regular schools and fill the places in the Continuation Schools vacated by those who become sixteen and automatically leave our jurisdiction. The number of eligible students, therefore, steadily decreased, reaching its low limit about September 1922. Since that time, however, the employed groups have been very slowly increasing in size, but it has been found that employers are refusing

to employ minors under sixteen because they can now find minors over sixteen who are permitted by law to work nine hours a day, and who will work for the same wages as would be paid to those under sixteen. As business improves, the over-sixteen group will find better opportunities, thus leaving jobs open for those now in the regular schools, which will tend to normalize the enrolment in the Continuation Schools. The enrolment will undoubtedly be substantially increased in case legislation, now pending, concerning the compulsory school and Continuation School ages, and an amendment to the Continuation School tuition bill, is passed.

The following tabular statement of the educational accomplishment of the fourteen to sixteen year old residents in Somerville, employed here or elsewhere, will, without doubt, show the need for a longer compulsory school attendance period for the youth who will in from five to seven years be called on as intelligent citizens to consider the problems of this democracy.

Table Showing Distribution of 14-16 Year Old Holders of Employment Certificates by Grade Completed in Regular Schools

Grade	Below									Total
	Completed	4	5	6	7	8	9	10	11	
Girls	2	2	12	39	69	55	28	6	4	267
Boys	6	4	26	128	90	32	46	10	2	394
Total	8	6	38	217	159	137	74	16	6	661

Some Pertinent Facts Shown by the Table:

- 39.3% of the employed girls)
- 41.7% of the employed boys) Complete Grade VI or less
- 40.7% of both)

- 60.7% of the employed girls)
- 58.3% of the employed boys) Complete Grade VII or better
- 59.3% of both)

- 33.3% of all employed girls)
- 32.5% of all employed boys) Complete Grade VI

- 25.8% of all employed girls)
- 22.8% of all employed boys) Complete Grade VII

Americanization

Four years after the Legislature of Massachusetts discovered the need for teaching the English language to adult foreigners, the term "Americanization" is still rather elastic and has been stretched to cover all sorts of movements and

activities. It still means, however, making good American citizens of both native and foreign-born. It also means service, equal opportunity and the awakening of loyalty of the foreign-born.

Desirous of leading normal lives, they must overcome certain obstacles, the greatest of which are ignorance of our language and ignorance of our laws.

Many people still consider the work of Americanization a war activity, since such an enormous problem of illiteracy was brought to light by the operation of the draft legislation. Such is not the case, for our State for thirty years has compelled the attendance of illiterate minors in Evening Schools for the purpose of learning English, and voluntary classes for illiterate adults have been carried on for over twenty years.

Our city and state are jointly providing means to overcome the obstacles confronting the foreign-born, who readily grasp the opportunity and appreciate the value of the undertaking to themselves as well as to our country.

As evidence of this joint undertaking on the part of the city and state may be cited the twenty-three classes we are now conducting. The membership of 356 includes Italians, Greeks, Swedes, Danes, Portuguese, Germans, Hebrews, Poles, Armenians, Chinese, and others. The ages of the attendants on these classes range from sixteen to sixty years, and the periods of residence in this country vary at date of enrolment from two days to thirty years. Some are well educated in their native tongue while a large majority are illiterate in any language. The locations and numbers of the various racial groups have not changed to any material degree during the year.

The organization, as last year, consists of a Director, two full-time organizers (who also supervise and teach) and twelve teachers. The supervisors, who rank very high among the teachers of the State, have done excellent work in organization and instruction. In addition to the time spent in teaching and supervisory work in their respective districts, many hours during mornings and between classes are used in making visitations to the students in their homes, for the purpose of following up absentees and assisting in solving household and other problems. Confidential problems of all kinds, and entanglements of various sorts concerning Naturalization papers, insurance, money exchange, et cetera are solved by them. An exceptional personality is a necessary requisite in obtaining such excellent results and attaining

the respect, appreciation and affection of the non-English speaking people.

Each year, the Anne Adams Tufts Chapter, D. A. R. offers a \$50 scholarship to the International College at Springfield for a deserving, reliable, and ambitious student of our classes. The ladies of this organization have been greatly interested and have assisted materially in our work. Through their efforts, girls in the Social Service Course of Jackson College have given freely of their services in caring for the children who must accompany the mothers to the afternoon classes. Other cities find it necessary to hire persons for the care of such children.

The appended table shows the scope of Americanization work in operation when the schools were closed for the Christmas recess.

The results of the work in Americanization and the Continuation Schools during the year have been gratifying to me and I wish to express my appreciation to all who have shown interest and have aided in making the work successful.

Very truly yours,

EVERETT W. IRELAND,

Director.

Table Showing Location of Centers, Types of Classes, and Time Elements of Americanization Classes

LOCATION OF CENTER	TYPE OF CLASS										TIME			TEACHERS
	No. of Classes	Beginners	Inter-mediate	Mixed	Citizen-ship	Mothers' Afternoon	Factory	Days	Hours P. M.	Sessions per Week	Length of Ses. in hrs.	Hours per Week		
Glines* School	3	1						M.W.Th.	7.30-9.30	3	2	6	Monira Gregory	
			1					M.W.Th.	7.30-9.30	3	2	6	Harriet F. Ward	
Morse School	4	1				1		M.W.	2.00-3.30	2	1½	3	Mrs. Etta D. Ellsworth	
			1					M.W.Th.	7.30-9.30	3	2	6	Alice M. Hayes	
				1				M.	7.30-9.30	1	2	2	Mary A. Whitney	
Knapp School	2	1				1		Tu.Th.	2.00-3.30	2	1½	3	Mary A. Whitney	
			1					M.W.Th.	7.30-9.30	3	2	6	Etta Holden	
Bennett School	3	1						M.W.Th.	7.30-9.30	3	2	6	Eleanor Nolan	
			1					M.Tu.Th.	7.30-9.30	3	2	6	Carrie Frost	
								M.Tu.Th.	7.30-9.30	3	2	6	Minnie Holden	
Bell School	2	1				1		W.F.	2.00-3.30	2	1½	3	Mrs. Etta D. Ellsworth	
			1					M.Tu.Th.F.	7.30-9.30	4	2	8	Sara S. Coyne	
W. J. H. S.	2			1				M.Tu.Th.F.	7.30-9.30	4	2	8	Mary A. Macklin	
								M.Tu.Th.F.	7.30-9.30	4	2	8	Myrtle I. Martin	
Bingham School	2					1		M.F.	2.00-4.00	2	2	4	Mary A. Whitney	
				1				M.W.Th.	7.30-9.30	3	2	6	Elisabeth S. Webster	
Carr School	1					1		Tu.Th.	2.00-3.30	2	1½	3	Mrs. Etta D. Ellsworth	
Hinckley Rendering Co.	1					1		W.	2.00-4.00	1	2	2	Mary A. Whitney	
H. M. Hillson Co.	1						1	Tu.Th.	12.00-1.00	2	1	2	Mrs. Etta D. Ellsworth	
M. W. Carr Co.	2					1		M.W.	5.00-6.30	2	1½	3	Mrs. Etta D. Ellsworth	
						1		M.W.F.	12.00-1.00	3	1	3	Mary A. Whitney	
						1		Tu.Th.	12.00-1.00	2	1	2	Mary A. Whitney	
	23	5	5	2	1	6	4			60	40½	108		

REPORT OF THE PRINCIPAL OF THE EVENING HIGH SCHOOL

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

Dear Mr. Clark:

The Evening High School has registered seven hundred and sixteen pupils during the fall term of 1922. They vary in age from fourteen to fifty-eight years, the average being twenty years. They range in previous school training from non-graduates of elementary schools to graduates of colleges. They may be grouped as follows:

From elementary schools	212
From junior high schools	133
From senior high schools	347
From colleges	19
	716

Attendance in the school is voluntary. All subjects, including English, are elective. The following table gives the number of pupils electing each subject:

Typewriting	259
Shorthand	230
Business English	115
General Course	110
Salesmanship	84
Bookkeeping	69
Mechanical Drawing	51
Algebra	37
Freehand Drawing and Arts and Crafts	34
Geometry	32
Chemistry	28

A brief outline of the courses offered is given below.

Shorthand and Typewriting. Pupils are graded into beginning, intermediate, advanced and speed classes. Necessary instruction is given in English grammar, spelling, and punctuation. The speed classes, composed largely of professional stenographers, aim for the highest degree of business efficiency.

Business English. This course provides opportunity for a study of spoken and written English as needed in business communications, in advertising and in salesmanship. It correlates closely with the stenography and the salesmanship courses.

General Course. English, arithmetic, and penmanship are

the principal subjects. In addition, each pupil has a choice of civics, United States history, or debating. Preparation is given in this course for civil service examinations. The classes include many persons of mature age who see the need for review or further study of the fundamentals of education. *Salesmanship.* A study of the general principles and ethics of selling goods. Class discussions and practice sales tend to develop self-confidence. Talks by practical salesmen and the free use of books and magazine articles on commercial subjects are features of the course.

Bookkeeping. Arithmetic and penmanship are studied with the bookkeeping. Pupils are fitted for office positions and clerical work and prepared for the further study of accountancy in other institutions.

Mechanical Drawing. The beginning class is taught the use of instruments, geometry, projection, inking and blue printing. In the advanced class instruction is given in machine and architectural drawing and in special work as desired by pupils.

Freehand Drawing. This subject includes work in fine and practical arts. Individual instruction is given in designing for fabrics, costumes, posters, and wall papers and in craft work in metal, leather, and basketry.

Chemistry. This is a practical course for prospective druggists and nurses and for persons interested in industries such as the manufacture of soap, rubber goods, drugs and paper. It teaches the composition of substances, their combinations and reactions.

A questionnaire recently submitted to the pupils required answers to the following two questions:

I. What benefit, financial or otherwise, do you expect to obtain from attending the Somerville Evening High School?

II. If your attendance here has already been of value to you, state in what way.

A summary of replies received may be of interest.

First question, benefits expected

Better positions. Factory and bundle girls wish to become clerks and typists. Sales and filing clerks want general office or shorthand positions. One boy writes, "I am an office boy and was offered a higher position if I learned bookkeeping."

Advancement in present positions. Pupils hope to increase their economic efficiency through a more confident use of English, through greater speed and accuracy in mathematics and through a better knowledge of the theory and underlying principles of their work.

Improvement in general education. One writes, "I know that any knowledge will help me wherever I may be." Another writes, "I expect broadening of mind."

Assistance in preparation for higher institutions, as Trif's College, Northeastern College, Lowell Institute.

Preparation for Civil Service Examinations, federal, state, and municipal.

Second question, benefits already obtained

Advancement and new positions. One young woman states that she secured her present position at the State House through her training at the Somerville Evening High School. Wage increases and more desirable employment are mentioned by others.

Increased working ability. Pupils write of making daily use of their evening school training in their occupations. They claim a better understanding of their duties. One writes, "I have been taught to take an interest in my work."

General Education extended. "I have proved to myself that I can get an education and training for business at the same time." "It (the school) has given me a higher standing among people." "I have learned to talk when I have an idea so that I can be easily understood." "I think my attendance here is time well spent; it brightens up my English and my pronunciation." A desire for knowledge has been developed. One class has studied the history and civil government of Somerville and shown great interest in these subjects.

Graduation and Diplomas

The commercial value of a diploma is recognized by the pupils. There is also a sentimental value which appeals particularly to those who were obliged to leave the day high school before graduation. Members of the evening school senior class find pleasure and social profit in their class activities. About sixty pupils will graduate in March, 1923.

Membership and Attendance

Many who register drop from membership after a few days or weeks. The reasons so far as they are known include late working hours, fatigue, ill health, and the pressure of social engagements. Doubtless, also there is the faint heart, the lack of determination to follow the undertaking through. On the other hand, it is encouraging to note that of seven hundred and sixteen registrants about four hundred and fifty earnest pupils are now enrolled and, if we may believe the

evidence of the questionnaire, are making substantial progress in their work.

The Teachers

Many factors contribute to the making of the successful evening school teacher. There should be the professional training of the day school teacher. There should be also the personality, the tact, the interest in the individual pupil sufficient to insure his continued voluntary attendance. On the teachers rests in a large degree the responsibility for maintaining the membership and interest of their respective groups of pupils, and to them should be given the credit for success. The principal desires here to record his appreciation of the good results due to the ability, experience, and faithful service of the teachers in the Evening High School.

Respectfully submitted,

EVERETT W. TUTTLE,

Principal.

January, 1923.

REPORT OF THE DIRECTOR OF HOUSEHOLD ARTS

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

Dear Sir:

Following is a summary of the development of Household Arts instruction, showing its growth since it was inaugurated ten years ago.

Household Arts in the High School

THE 50-50 PLAN OF ORGANIZATION AUTHORIZED by the STATE BOARD FOR VOCATIONAL EDUCATION

This course offers sufficient variety of subject matter to make a wide choice. The number electing this course has grown steadily since it was established three years ago; twice as many enrolled this year as last, and with definite ideas as to what training to select after graduation.

The course of study is so planned that half of the school day is given to the regular subjects required each year in the general high school course, and the other half to household arts and the related studies. The major subjects are cooking, household management, nursing, dressmaking, and millinery.

A part of this household arts education is the close correlation made between the school and the home in the form of projects. These projects are planned after visits to the homes, and conferences with the mothers as to what each girl needs to gain initiative and responsibility in caring for her home. Most of the problems are definitely related to the individual. In one case the mother works in town and the daughter does all the housework and cooking, so projects of planning meals, buying supplies, and the care of the house, were given this girl for a certain time until a satisfactory report should be made by the mother. In another case the mother is an invalid and much of the care falls upon the daughter, so projects in the care of a sick person are given as well as projects in the preparation of meals. When interest in mending needs to be encouraged projects are given in that for a limited time. In all cases reports are made by the mother to the director by means of report cards and home visits.

This project work covers approximately 200 hours a year, and as there are no home studies it is the equivalent of the time used by students in other courses for home study, and is credited to each girl, who must complete each year 1400 hours of school and project time. Until a visit is made to the home, there are certain projects that are general for all girls. They include the preparation of foods, the care of household linens, the repair of clothing, the care of house equipment, the making of dresses or hats for some member of the family, the making of underwear, personal expense accounts, and preserving.

Through the interest of a member of the School Committee arrangements were made last year with the trustees of the Somerville Hospital to hold classes in home nursing at the hospital. These classes were held once a week for three months, the nurse in charge of the training class there giving the lessons to the different school groups. The lessons were of the most practical kind, dealing with the care of the patient in the home, and covering the twelve parts of the modified Red Cross course; the cause and prevention of disease, personal hygiene, equipment of a sick room, care of bed and bedding, bed-making with and without the patient,

baths of different kinds, utensils and methods used in a sick room, hot and cold appliances, child care, emergencies, and first aid. In three cases where there was illness the lessons were put to immediate use at home. Great enthusiasm was shown by all the girls for this course, and by some of their mothers as well, who were interested enough to send in questions, and one even volunteered to take her baby for the demonstration of bathing the baby.

New courses have been added this year for the senior class, one in the study of occupations open to the high school graduate. This is a short course covering half a year and deals with the types of employment, the preparation, skill, and knowledge needed by each, and the qualifications necessary for each type. The questions of unemployment, seasonal occupations, and "blind alley jobs" are also studied. We feel this to be an important study for pupils who are to earn their living and who take ignorantly anything that offers without knowing what the demands of a position are or whether they are fitted for it especially.

Another half-year course is the study and care of clothing. This covers the following points: the making of personal expense accounts, personal clothing budgets, study of textile fabrics from the standpoint of the individual wardrobe in renovating garments, how to purchase clothing, renovating and remodelling clothing, and care and repair of clothing. The making of a clothing budget is the basis for this study.

Closely related to this is the course in household accounts which deals with the family budget and the planning and furnishing of a home, with emphasis on the costs and the appropriate selection of furniture and furnishings. The girls have little or no knowledge of the family finances, so a teaching base is made from data collected of the actual experiences of families in the seven problems that are studied.

These problems are:

The school girl's account book which is kept daily by each pupil.

A personal account kept by those girls who are earning money outside of school hours, and a simple budget planned on these experiences.

A budget of time for girls working at home after school hours.

A budget of household expenses for the girl in charge of the home.

The problem of the young couple who before marriage are working and who are keeping an individual expense

account in order to save a certain amount to begin house-keeping.

Problem of what can be bought with these savings.

Problem of housekeeping budget after marriage.

Graduates from the Household Arts Course have various opportunities for employment and an idea of what higher institutions offer in the way of advanced training. The classes are small and one learns to know the girls intimately so that it is possible to advise and suggest what is the best course to follow after graduation. Catalogues of different training schools are studied. Some schools recognize the Household Arts Course in a high school and give credit for time spent on this vocational work.

There are innumerable positions for the graduates as dressmakers' assistants. There are opportunities for girls working into business for themselves; also by keeping the trade contact, and with professional improvement, taking positions as instructors of vocational subjects in evening schools, where there are more positions offered than applicants to fill them.

Although millinery is seasonal, opportunities are many in first class shops if a girl is willing to begin at the bottom and work to gain speed.

Tea rooms offer positions as waitresses, where hours are short, pay excellent, and the conditions good; but except for a few there is no advancement. They offer excellent training for girls who wish to open their own tea rooms, where there is little expense but much profit.

The study and preparation of foods helps in positions resulting from hospital training and public health nursing. Framingham is also offering a special course for training teachers for vocational subjects.

Household Arts as an Elective in the High School

The number selecting dressmaking this year is about the same as last year—170. One important change has been made by the elimination of cotton dresses from the Sophomore year, and the substitution of the making of woollen dresses, except in cases where pupils have not had two years of dressmaking in the junior high schools. This means that advanced work can be done, and the waste of repetition removed as far as possible.

Last year the approximate cost of all material used in the elective course was \$1805.12 and the estimated market value of the garments \$3895.00. Following is a list of the garments made: 96 voile and organdy dresses including 40

graduation dresses; 98 gingham dresses; 46 serge dresses; 52 silk dresses; 29 separate skirts, wool and satin; 3 polo coats, 24 separate blouses, including voile and satin; 10 coat suits including 3 linen and 1 velvet; 3 velvet dresses.

Sixty have elected cooking this year. The class work is planned as last year, the pupils preparing the food served at lunch time to the teachers.

Household Arts in the Junior High Schools

Sewing is taught in the first year, continuing progressively from the graded schools, and in the second and third years cotton dresses are made. If dressmaking is elected the third year, woolen dresses are made when entering the High School, otherwise a cotton dress must be completed first.

Each junior high school had a most creditable fashion show last year when the pupils exhibited the dresses they had made by wearing them to a meeting of the Parents' Association.

Preparing a lunch for the teachers supplies a practical outlet for lessons in cooking. The food is prepared and cooked by the different classes, served to teachers, and when conditions permit, to pupils. While it is felt that this meal preparation is the best way to teach cooking because it is of immediate benefit to girls who are obliged to prepare meals at home without any assistance, it has its disadvantages when first and third year pupils are in the same class, and where advanced pupils who ought to have the experience of preparing lunch, are sometimes obliged to have lessons after lunch when there is nothing but the cleaning to be done.

At the Western Junior High School a lunch room was opened two years ago for the pupils, in charge of a competent woman, where hot food at a low price could be purchased. The extra food prepared by the regular cooking classes is also served here, and it is hoped that when the new lunch room is properly equipped for cooking, a greater variety of foods can be served, and a greater number accommodated.

Household Arts in the Graded Schools

The teachers remain the same for the sewing classes, except for one part-time teacher who takes the place of a teacher regularly appointed to another position.

The course of study has not been changed, but again emphasis has been placed on the proper implements to use in sewing, and the correct position for sewing and for light,

rather than the completion of a definite number of articles. The required articles made in the 5th grade are a sewing bag, needle book, and pincushion, with an optional list which the teachers may use at their discretion.

In the 6th grade a cooking apron, uniform in style for all schools, is made, the material and ornamentation varying to suit individual preferences. Other sewing is optional when this has been completed. The aprons are used through the junior high schools where caps are made in the special style adopted by that school. The course of sewing develops through grades, junior high school, and senior high school, and covers the best processes of sewing accepted by the best training schools.

Household Arts in Evening Schools

The registration for dressmaking and millinery classes this year exceeded the accommodations or the number of available teachers. Those registering at the High School numbered 130 when 100 could be accommodated; those at the Western Junior High School 71 with an accommodation for 60. Waiting lists were formed at both schools, and the classes were filled in from these as pupils dropped out.

The classes are organized on the "unit" system, each unit of twenty lessons being complete in itself, and yet so arranged that the complete instruction in either dressmaking or millinery covers two years. These short units have been arranged because evening school attendance through the whole winter has not always been possible with the homemaker who is often absent because of illness, church, and social engagements. This lack of attendance because of outside interests is the biggest problem of evening schools, for when a social engagement conflicts with school, the school suffers, and it is difficult to keep the attendance above 85%. Last year the attendance for the eight classes was 81.3%.

Even with this irregularity of attendance there has always been the greatest interest shown by those in the evening classes, and appreciation of all that the teachers have given in the way of instruction. The standard of workmanship is as high as any in the State-aided evening schools. Last year 350 hats were finished at a cost of \$1508.08 and a market valuation of \$5789.50.

There were three dressmaking classes where 94 dresses were made at a cost of \$532.88 and a valuation of \$1751.75. Besides these there were a number of dresses and hats not brought in for examination, the pupils dropping out of the course as soon as they had completed one article.

For the most part the working conditions are good. The rooms are large and well lighted, and tables take the place of school desks.

This year the first unit offered was the making of a woolen dress instead of a cotton one, as cotton dresses are so simply made with a good pattern and instruction guide, and it was felt that the interest would be held better by offering instruction on woolen materials. The second unit offers instruction in sport clothes, and the third and fourth units remain the same as last year.

In the first unit of millinery, construction and processes of making were considered in making small model hats of buckram. We tried to have the essential thing the millinery principles that could be applied to all kinds of hats, rather than the making of many hats. In all classes a regular order of progressive steps has been carried on; the selection of hats to suit the individual, the construction of a frame, the stitches used for different parts, the making of ornaments and flowers, and the completion of two hats for application.

High School Lunch Room

In the management of the lunch room the aim has always been to have wholesome food prepared in our own kitchens and sold at a reasonable price. This year it was found possible to lower the selling price in spite of the fact that all overhead expenses except for gas and electricity are covered in the selling price of food. These include the salaries paid manager, helpers and pupils, new equipment necessary each year, and the maintenance cost of paper towels and napkins, lunch checks, and kitchen supplies.

The menu offers a variety each day. There are served three kinds of sandwiches, two to three hot dishes, two desserts, besides ice cream, individual bottles of milk, and chocolate bars.

There is no way of estimating the number of pupils served a day; but an average would be between 700 and 800 with considerably more on stormy days. As we have an open recess it is encouraging to see how many use the lunch room.

In the teachers' lunch room sixty are served a day in two periods. The food is prepared in the morning preceding the lunch period by the pupils electing this course.

For the year closing last June the receipts were \$7725.70 for the two lunch rooms, and the expenses \$7723.11.

It is hoped that before another year the large lunch room

can be made more attractive by having the walls whitened, and the dangers resulting from a wet concrete floor eliminated.

In submitting my report I should like to add that the activities in all these departments are being carried out successfully, owing to the interest of the pupils and the ready cooperation of the teachers.

Very truly yours,

MARY HENLEIGH BROWN,

Director.

December, 1922.

Statement Showing Distribution of High School Pupils by Subjects

Subject	DECEMBER 1922	Total
English		1961
Elocution		718
History		1245
Latin		383
French		828
German		29
Spanish		412
Greek		23
Algebra		429
Geometry		1261
Trigonometry		42
Chemistry		336
Physics		274
Astronomy and Geology		33
Biology		84
Physiology		393
Bookkeeping		372
Stenography		643
Typewriting		652
Penmanship		770
Commerce and Industry		339
Salesmanship		171
Arithmetic		149
Commercial Law		106
Manual Training		176
Mechanical Drawing		324
Freehand Drawing		155
Cooking		65
Sewing		169
Arts and Crafts		26
Household Arts		65

HIGH SCHOOL.

Number of Graduates Entering Higher Institutions.

September, 1922

Bates College	1	Normal Schools	
Boston College	6	Bridgewater	4
Boston University		Framingham	2
Business Administration	4	Lowell	1
Liberal Arts	3	Normal Art	9
Secretarial Science	9	Salem	9
Law	2	Northeastern College	6
Dartmouth College	4	Radcliffe College	7
Emerson College	2	Simmons College	7
Harvard University	6	Smith College	2
Jackson College	6	Tufts	
Lasell Seminary	1	College	17
Lowell Textile School	2	Pre-Medical	4
Mass. Agricultural College	2	Pre-Dental	2
Mass. Institute of Technology....	10	Wheaton College	2
Mt. Holyoke College	1		
N. H. State College	1	Total	132

"FOLLOW-UP" INFORMATION REGARDING
GRADUATES OF CLASS OF 1921

(Compiled March 1922)

BY COURSES

Continuing at College	Com- mercial	Col- lege	Nor- mal	Gen- eral	Scien- tific	Total
Amherst College					1	1
Boston College		4			1	5
Boston University	8	9			1	18
Dartmouth College		2			2	4
Emerson College of Oratory		2				2
Harvard College		10				10
Holy Angels College		1				1
Jackson College				1		1
Mass. Inst. of Technology					8	8
New Hampshire State College	1				1	2
Northeastern College				1	5	6
Radcliffe		3				3
Rhode Island State College	1	1				2
St. Charles College					1	1
St. Francis Xavier College					1	1
Simmons College		3				3
Tufts College		2			7	9
Tufts Pre-Medical School		2			2	4
University of Vermont		1				1
Wheaton College		1				1
Continuing at Special Schools						
Gordon College		1				1
Mass. School of Osteopathy				1		1
Mass. College of Pharmacy		2			2	4
N. E. Conservatory of Music		2				2

Continuing at Normal Schools

	Com- mercial	Col- lege	Nor- mal	Gen- eral	Scien- tific	Total
Boston Normal School		1				1
Bridgewater Normal School			2			2
Framingham Normal School			1	1		2
Lesley Kindergarten School		1				1
Lowell Normal School			1			1
Salem Normal School	2	7	2	1		12
Sargent School of Phy. Educa.	3	1		3		7

Continuing at Art Schools

Mass. Normal Art School		3	1	2		6
Museum Art School		1				1

Continuing at Secondary Schools

Brown & Nichols School		1				1
Tabor Academy		1				1
Other Secondary Schools	3	6		4	2	15

Continuing at Commercial Schools

Bentley School of Accounting					1	1
Bryant & Stratton School	1					1
Burdett Commercial School	2	1	1			4
Chandler Secretarial School	8	1		3		12
Comptometer School				2		2
Farnsworth Business School		1				1
Fisher Business School	1					1

In Gainful Occupations

Bookkeeper	6					6
Chemist					1	1
Elliott-Fisher Billing Mach. Oper.	1					1
Bond Recorder					1	1
Clerk	22			3	1	26
Cornetist		1				1
Dentist's Assistant	1					1
Electrician					1	1
Hairdresser	1					1
Milkman		1				1
Newspaper Reporter					1	1
Organist	1					1
Pianist	1					1
Printer				1		1
Public Librarian	1					1
Salesgirl	1					1
Salesman	4	1		3	2	10
Salesmanager				1		1
Stenographer	35			1		36
Telephone Operator	6			1		7
Teacher		1				1

	Com- mercial	Col- lege	Nor- mal	Gen- eral	Scien- tific	Total
Teacher (music)		2				2
Typist	4			1		5
Working (unknown)	3			2		5
Y. M. C. A. Worker	1					1
At home	17	3		1		21
Not heard from	7	4	1	7	4	23
Total	142	84	9	40	46	321

	Highest Salary Received	Lowest Salary Received	Average Salary
Boys	\$23.00	\$12.00	\$17.00
Girls	22.50	10.00	14.63

SOMERVILLE TEACHERS' ASSOCIATION
1922—1923

President, Joseph S. Hawthorne
 Vice-Presidents, } George M. Hosmer
 } Eleanor W. Nolan
 Secretary-Treasurer, Annie G. Merrill

Executive Committee

Charles S. Clark, Ex-Officio

Bernice O. Newborg, High	Alice B. Frye, Pope
Elizabeth J. Mooney, Eastern Jr.	Eleanor W. Nolan, Edgerly
Arthur E. Gordon, Southern Jr.	Monira C. Gregory, Glines
Anna R. Walsh, Northern Jr.	Elizabeth J. O'Neil, Bingham
Florence M. Hopkins, Western Jr.	Susie L. Luce, Carr
Philip J. Heffernan, Boys' Voca.	Helen T. Smith, Morse
Everett W. Ireland, Continuation	Mary Winslow, Durell
Grace E. Allen, Prescott	Alice E. Morang, Burns
Nellie W. McPheters, Hanscom	Ethel F. Morang, Proctor
Kate B. Gifford, Bennett	Helen L. Galvin, Brown
Sue A. Fitzpatrick, Baxter	Eva M. Barrows, Highland
Mary T. McCarthy, Knapp	Clara G. Hegan, Lowe
Mary A. Mullin, Perry	Alice A. Libbey, Cutler
Katherine M. Fox, Cummings	Lillian M. Wentworth, Lincoln

The meetings held under the auspices of this association in the year 1922 were as follows:

- February 8, 1922—Dr. Teyhi Hsieh, representative from the Arms Conference. Subject: "The Spirit of New China and Her Aspirations at Washington." Musical program by Apollo Quartette.
- April 20, 1922—Informal Social. Entertainment by the MacDowell Quartette, assisted by Mrs. Bailey Hicks, Reader.
- November 21, 1922—Donald B. MacMillan, Lecturer. Subject: "In Unknown Baffin Land," illustrated by moving pictures.

SOMERVILLE TEACHERS' CLUB

Officers, 1922—1923

President, Miss Clara G. Hegan
 Vice-Presidents,) Mrs. Mary B. Soule
) Miss Harriet E. Tuell
 Recording Secretary, Miss Irene Vincent
 Corresponding Secretary, Miss Bernice Newborg
 Treasurer, Mrs. Bertha M. Morton
 Auditor, Miss Mary H. Joyce

Object

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

Program

January 9—Operalogue "Lohengrin." Mr. Havrah Hubbard.
 January 18—Open Meeting. Lecture by David Vaughan, D. D. Music, Madame Florence Ferrell, Soprano.
 January 23—Operalogue "Monna Vanna." Mr. Havrah Hubbard.
 February 15—Club Dramatics.
 March 15—Open Meeting—Lecture "100% Man." Mr. T. Franklin Babb.
 May 10—Annual Meeting. Speaker, Margaret Slattery.
 October 11—Dramatics. Social Evening.
 November 8—Illustrated Lecture "South America." Albert Leonard Squier.
 December 8, 9—Christmas Market.

SOMERVILLE HIGH SCHOOL ATHLETIC ASSOCIATION

The Annual Report of Treasurer Jan. 1, 1923

Receipts:

Balance on hand Jan. 1, 1922	\$1,231 63
Baseball games	1,583 37
Football games	5,966 05
Membership fees	158 50
Interest on bank deposit	18 12
Miscellaneous	116 30
	<hr/>

\$9,073 97

Expenditures:

Athletic supplies	2,204 96	
Medical supplies and services	306 73	
Paid to visiting teams	1,520 43	
Officials	361 00	
Police	577 00	
Assistance at games	140 00	
Printing	136 68	
Postage	9 50	
Telephone calls	8 70	
Transportation	207 85	
Coaching	200 00	
Treasurer's salary	400 00	
Dues to Athletic Associations	19 00	
Special expenses	281 70	
Miscellaneous expenses	119 83	
		\$6,493 38
Balance on hand Jan. 1, 1923		\$2,580 59

GEORGE E. PEARSON,

Treasurer.

CONSTITUTION AND BY-LAWS
of the
SOMERVILLE TEACHERS' COUNCIL
1922

Article I

Name

The Organization shall be called the Somerville Teachers' Council.

Article II

Purpose

To provide a means of recording the expression of opinion of teachers on problems affecting the schools, the children, and the teachers.

To furnish information and opinions of the teaching staff upon questions submitted by the School Board, the Superintendent of Schools, or initiated by the Council.

For the introduction of recommendations concerning any of the problems affecting the welfare of the schools.

To establish and expedite means of communication between the teaching body, the Superintendent of Schools, and the School Board.

To secure a more active participation of the teachers in the professional direction of the schools.

To foster a spirit of dignity and responsibility in the teaching staff by employing its experience and judgment in school affairs.

Article III

The Council shall be allowed absolute freedom in its debates and deliberations.

Article IV

The organization of the Council as set forth in this constitution shall be sanctioned by the Superintendent of Schools and the School Board.

Article V

The Superintendent of Schools may attend the meetings of the Council.

Article VI

All recommendations or communications from the Council to the School Board shall be presented to the Board through the Secretary of that Board.

Article VII

The membership of the Council shall consist of ten representatives:

- | | | |
|---|----------|---|
| 1 | from the | Senior High School |
| 1 | “ | “ Junior High School |
| 1 | “ | “ Vocational Schools |
| 1 | “ | “ Kindergarten School |
| | | (First Grade |
| 1 | “ | “ (Second Grade |
| | | (Third Grade |
| | | (Fourth Grade |
| 1 | “ | “ (Fifth Grade |
| | | (Sixth Grade |
| 1 | “ | “ Continuation School and Americanization |
| 1 | “ | “ Supervisors and Special Teachers |
| 1 | “ | “ All Masters and Supervising Principals |
| 1 | “ | “ Masters' Assistants |

Article VIII

Each group shall elect its own representative to the Council. No teacher shall be eligible for election as representative in more than one group.

Any group may recall its representative by a majority vote of that group.

Article IX

Representatives shall keep in touch with their groups and when instructed must always voice the wishes of their groups.

Article X

The running expenses of the Teachers' Council shall be met by an annual assessment of ten cents (10c) per capita upon each Somerville teacher. The representative from each group shall be responsible for collecting the assessments and paying them to the Treasurer of the Council on or before October first of each record year.

Article XI

The official and financial year shall begin September first.

Article XII

Section I—Nominations

Yearly the Chairman of the Council shall call within the second week of May a meeting of each group according to Article VII for the purpose of nominating the members of the Council. Each group shall choose a Chairman and a Secretary, and shall nominate by ballot twice the number of nominees to be voted on. Candidates receiving the highest number of votes shall be the nominees.

Section II—Preparation of the Ballot

Immediately after the meeting noted in Section I or within two days thereafter, the different chairmen and secretaries noted in Section I shall meet and prepare a ballot of the nominees, stating on each ballot how many are to be elected and shall send a sufficient number of ballots to each Principal and Special Teacher. They shall send their own names to the Chairman of the Council, with a list of the nominees.

Section III--Election

The Chairman of the Council during the fourth week of May shall call meetings of the teachers for the purpose of electing Members of the Council.

Section IV

The chairmen and secretaries noted in Section I are by virtue of their office tellers, to collect and count all the ballots, and to send the ballots and results to the Chairman of the Council, certifying to him the names of those elected and the number of votes for each candidate.

Section V

The candidates receiving the largest number of votes shall be elected.

Article XIII

Term of Office

The term of office of the Members of the Council shall be for two years. No member of the Council shall serve for more than two consecutive terms.

Article XIV

Meetings

The regular meeting shall be held once every school month at such time and place as the Council shall direct. Special meetings may be called by the Chairman on a written request of six members or by the Superintendent of Schools.

An abstract of the minutes of each meeting of the Council shall be prepared under the direction of the Secretary of the Council and a copy shall be mailed to each member of the Council to be circulated among the teachers of each group.

Article XV

Quorum

At any meeting of the Council six members shall constitute a quorum for the transaction of business.

Article XVI

Vacancies

Vacancies in the Council occurring on account of death, recall, resignation, or by reason of promotion or transfer to another group, shall be filled by members of the groups in which the vacancies occur.

Article XVII

Officers

The officers of the Council shall be a chairman, a vice-chairman, a secretary, and a treasurer, elected from its own members.

Article XVIII

Standing Committees

The standing Committees of the Council shall be:

1. Committee on Educational Progress
2. Committee on Legislation

Article XIX

Executive Committee

The Executive Committee shall consist of the Officers of the Council and chairmen of the Standing Committees.

Article XX

This constitution may be amended after a written notice of ten days has been given, by a two-thirds vote of the entire teaching body.

**LAYING OF THE CORNER STONE OF THE NEW JUNIOR HIGH
SCHOOL ON MARSHALL STREET, NOVEMBER 21, 1922**

Ceremonies in connection with the laying of the corner stone of the new junior high school building on Marshall street were conducted on the afternoon of Tuesday, November 21, 1922, His Honor, Mayor John M. Webster, presiding. Short addresses were made by John M. Webster, Mayor of Somerville, by Enoch B. Robertson, President of the Board of Aldermen, and by Dr. Herbert Cholerton, Chairman of the School Committee. Oscar W. Coddington, Chairman of the Committee on School Accommodations, read a record of the School Committee taken from the meeting of January 31, 1921, recommending the construction of a large building to accommodate the junior high schools known as the Northern Junior High School and the Eastern Junior High School. Music was furnished by a chorus of singers from the Northern Junior High School under the leadership of Miss Anna R.

appropriate that this splendid provision for the education of the youth of the pre-adolescent age should be made in the neighborhood where this type of educational work was first begun.

In 1914 under the name of intermediate school this organization of instruction was established in the Forster School. Two years later it was definitely adopted by the School Committee as the policy to be followed throughout the city as soon as ways and means could be provided therefor. It was at that time decided to provide four schools to be known as Junior High Schools, one for each of the major geographical divisions of the city. In September 1916 the Northern Junior High School was established in the Forster and Folsom buildings, a continuation of the Forster Intermediate school, and the Eastern Junior High was opened in the Prescott and Southworth schoolhouses. In September 1917 the Western Junior High School was opened in the new building on Holland Street, the first schoolhouse in Somerville planned and provided for this special purpose, and in September 1918 the Southern Junior High School was opened in the Bell Schoolhouse which had been enlarged by an addition provided for use as a Junior High School. These provisions were recognized as beginnings only of an undertaking which would require subsequent additions of a nature and size to meet the needs of its proper development. Nearly three years later on January 31, 1921 the School Committee adopted the following resolution which was presented by Oscar W. Coddington, Chairman of the Standing Committee on School Accommodations.

“That in its judgment suitable additions should be made to the Western and Southern Junior High School buildings, each to include an auditorium, gymnasium, and swimming pool; and, further, that a new junior high school building, to provide for the needs of the district now cared for by the Northern and Eastern junior high schools should be erected at a point accessible to both the districts, thus releasing for elementary purposes the present buildings in the Northern and Eastern districts used for junior high school purposes. In the opinion of the Committee, Broadway Park would make an admirable location for the proposed new building. The Committee further recommends that the Public Property Committee of the Board of Aldermen be invited to arrange a conference with the Committee on School Accommodations of this Board.”

This recommendation was supported in substance by the Board of Aldermen in accepting on June 9, 1921 the report submitted by Aldermen Almon F. Heald, Chairman of the Committee on Public Property, and later adopting an order of the same tenor.

Now Mr. Mayor, through your initiative, supported and made effective by the Board of Aldermen, this schoolhouse, imposing in size and architecture, adapted to the use to which it is to be put, modern in all of its parts and conspicuous for the extent to which it shows consideration for practical utility and practical economy in connection therewith, has been provided. It will give a maximum of service. It will be an ornament and an honor to this city. For years to come it will be a great public instrumentality devoted to preparing youth for the struggles of life.

Mr. Mayor, on behalf of the School Committee, on behalf of the citizens of Somerville whose representatives we all are, and on behalf of the countless children whose education will be received in part in this spacious and beautiful building, and whose interests are to us all alike dear and sacred, I express profound satisfaction and gratitude in this ceremony which witnesses the will of the city acting through its responsible agents in the promotion of a public enterprise of the greatest importance.

And now Mr. Mayor, as a further participation of the School Committee in these ceremonies I hand to you these documents, to be placed among the records which will be preserved in the corner stone of this building through the limitless years while it shall endure.

STATEMENT OF WORK OF SCHOOL NURSES.
For Year Ending June 30, 1922.

DATE	School or Hospital	Total No. of Pupils seen	Notices sent to Guardian	Consultation with Teachers	Consultation with Med. Inspector	Treatment in School	INSPECTIONS						PUPILS ESCORTED TO CLINICS												Optician	Corrected Vision	Corrected Hearing	Operations		Contagion found in*		Home Visits		Hygiene Talks		REMARKS			
							Dental		Ped		Un-clean		Eye		Ear		Nose and Throat		*Medi-cal		Surgical		Skin					Dental		Tonsils	Adenoids	School	Home	New	Old		School	Home	
							×New	+Old	×New	+Old	×New	+Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old				New	Old	New	Old	School	Home	New	Old		School	Home	
September.....	Schools Hospitals	75 5	743	20	50	4	81	115	18	14	6	2																											September: Received temporary dental reservations at Boston Dispensary. Assisted in general medical inspections. Two cases taken to Psychopathic Hospital. Hygiene talks given in classes.
October.....	Schools Hospitals	96 7	5313	540	115	11	67	1402	24	95	129	91	30	6	4	1																						October: Assisted doctors in medical inspections. Child taken to Somerville Hospital for suture in lacerated finger. Appointment made for operation at Boston Dispensary. Conference held with school nurse in Medford, and with social workers at Boston Dispensary. Hygiene talks given in classes.	
November.....	Schools Hospitals	96 12	2170	118	146	9	110	1020	35	58	162	35	62	10	6																							November: Assisted doctors in medical inspections. Children referred to School Dentist, Mass. General Hospital, Tufts Dental Clinic, Forsythe Dental Clinic. Conference held with social worker at Boston Dispensary. Orthopedic case at Boston Dispensary. X-ray case at Boston Dispensary. Consultation held with church worker concerning family. Conference of school nurses attended at Boston. Two pair of glasses provided through the Junior Red Cross. 108 children taken to Forsythe Dental Clinic. Hygiene talks given in classes.	
December.....	Schools Hospitals	79 12	1388	65	143	3	62	445	78	7	71	6	3	2	3																							December: Clothing obtained for child in Bennett district. Consultations held with Forsythe Dental regarding reservations. Consultation with S. P. C. C. Assisted doctors in medical inspections. Arranged for two tonsils and adenoids operations. Children chosen for Xmas party at one of the churches. Two Xmas dinners provided by school for families. Contagion found in school, impetigo. 262 children taken to clinics at Forsythe Dental and Boston Dispensary for cleansings and treatments. Hygiene talks in several classes.	
January.....	Schools Hospitals	116 23	1995	72	210	35	112	874	194	20	221	47	57	3	2	2	4	5	1	2	1																		January: Children recommended to School Dentist for treatment. 141 children taken to Forsythe and Boston Dispensary for cleansings. Hygiene talks in classes. Consultation with social workers at Boston Dispensary and Forsythe Dental.
February.....	Schools Hospitals	74 22	1179	26	162	5	55	316	116	48	73	8	13	6	6																							February: Aid given children by Junior Red Cross and Red Cross. Children referred to School Dentist. Child entered as house patient at Boston Dispensary for congenital hip operation. Junior Red Cross to help pay expenses. Glasses provided by Junior Red Cross. Hygiene talks in several classes. 338 children taken to Forsythe Dental and Boston Dispensary for treatment.	
March.....	Schools Hospitals	104 23	2250	112	219	10	87	903	285	23	117	34	22	4	4																							March: Children referred to School Doctor for inspection and to School Dentist for treatment. Consultations held with social workers at Mass. General Hospital and Boston Dispensary. Assisted doctors in medical inspection. Sent notices of defects to parents. Special case examined at Boston Dispensary for tuberculosis. Visted Horace Mann school, Boston, for conference concerning Somerville children. Arranged to have boy examined at Psychopathic Hospital. Children referred to Tufts Dental for treatment. Arranged for two tonsils operations. Hygiene talks given. 316 children taken to Forsythe Dental and Boston Dispensary for treatments and cleansings.	
April.....	Schools Hospitals	84 21	1452	73	166	7	77	305	613	14	175	15	41	6	2	1																							April: Consultation with Psychopathic Hospital concerning two children. Expense of tonsil and adenoid operation taken over by Junior Red Cross. Arranged for children to visit school dentist. Hygiene talks in several classes. Mirror-writer found in school, taken to Children's Clinic, to eye clinic, and to Neurological clinic; case discharged as a proficiency rather than a deficiency. 262 children taken to Boston Dispensary and Forsythe Dental for cleansings and treatment.
May.....	Schools Hospitals	83 15	1806	82	189	6	83	354	400	21	166	13	10	5	3																								May: Consulted with Children's Hospital concerning child to be operated on during the month. Children referred to School Dentist for treatment. Assisted doctors in medical inspections. Frames for new glasses provided by Junior Red Cross. New glasses provided by Junior Red Cross. Consulted with social worker at Boston Dispensary. Hygiene talks in classes. 189 children taken to Forsythe Dental and Boston Dispensary for treatment and cleansings.
June.....	Schools Hospitals	73 13	1082	32	155	4	102	287	362	35	84	9	30	3	2																								June: Glasses paid for by Junior Red Cross. Tonsils and adenoids operation paid for by Junior Red Cross. Hygiene talks in several classes. Assisted school doctors. 34 children taken to dental clinics for treatment. Arrangements made for summer treatments at Forsythe Dental.
Total.....	Schools Hospitals	880 153	19378	1140	1555	94	836	6021	2167	339	1212	264	270	45	32	4	4	31	9	5	11	3	2	2	2	569	242	35	20	2	25	25	7	3	285	287	3906	175	

*Treated by family physician or dentist.

×New: Seen first time during the school year.
+Old: Cases followed up.

Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890
Population	100	100	100	100	100	100	100	100	100	100	100
...

The following table shows the population of the United States in 1890, as compared with the population in 1880. The population in 1890 was 62,622,250, an increase of 25,000,000 over the population in 1880. This increase was due to a number of causes, including immigration, natural increase, and the annexation of new territory.

The population of the United States in 1890 was 62,622,250, an increase of 25,000,000 over the population in 1880. This increase was due to a number of causes, including immigration, natural increase, and the annexation of new territory.

In Memoriam**MARTHA A. JENCKS**

Lowe School

Died March 10, 1922

ELLA P. MCLEOD

Proctor School

Died May 3, 1922

MATHILDA C. WRIGHT

High School

Died September 24, 1922

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SUMMARY OF STATISTICS

1.—POPULATION AND SCHOOL CENSUS

Population, state census, 1895	52,200
Population, United States census, 1900	61,643
Population, state census, 1905	69,272
Population, United States census, 1910	77,236
Population, state census, 1915	86,854
Population, United States census, 1920	93,033
Children between five and sixteen years of age, April, 1922, by school census	16,717

2.—SCHOOL BUILDINGS

Number of school buildings in June	30
Number of classrooms in use in June	380
Valuation of school property	\$2,284,000

3.—TEACHERS

	*1921	*1922	Change
In high schools	75	72	—3
In junior high schools	116	114	—2
In elementary schools	211	211	0
In kindergartens	13	13	0
Total in elementary schools	224	224	0
Vocational school for boys	9	8	—1
Independent Household Arts	2	1	—1
Atypical classes	3	3	0
Sight Saving		1	+1
Cadet teachers	5	10	+5
Special	11	9	—2
Continuation	5	5	0
Americanization	2	2	0
Total	452	449	—3

4.—ATTENDANCE FOR YEAR

	*1921	*1922	Change
Entire enrollment for the year....	14,500	15,225	+725
Average number belonging.....	13,396	14,004	+608
Average number attending.....	12,533	13,160	+627
Per cent. of daily attendance.....	93.6	94.0	+0.4
High school graduates	316	613	+297
Junior High school graduates....	877	952	+75

5.—COST OF SCHOOL MAINTENANCE

	*1921	*1922	Change
Salaries of teachers	\$700,975.75	\$734,752.79	+\$33,777.03
Salaries of officers	13,883.66	13,152.17	—731.49
Cost of books and supplies....	26,328.84	42,682.31	+16,353.47
Cost of light	12,162.57	10,531.27	—1,631.30
Cost of janitors' services.....	61,435.42	61,987.24	+551.82
Cost of fuel	63,016.60	26,520.98	—36,495.62

* School year

Rent of Armory	350 00	250 00	—100 00
Total cost of day and evening schools	878,152 85	889,876 76	+11,723 91
Per capita cost	66 55	59 18	—7 37
Cost of high school instruction	125,319 48	137,088 15	+11,768 67
Per capita cost	75 77	71 54	—4 23

6.—MISCELLANEOUS

	*1921	*1922	Change
Paid for new school buildings	\$3,285 00	\$7,575 86	+\$4,290 86
Repairs and permanent improvements	39,573 47	36,628 82	—2,944 65
Total school expenditures	921,011 32	934,081 44	+13,070 12
Number of dollars spent to maintain schools out of every \$1,000 of valuation	10 12	10 09	—0 03
Valuation of city	86,718,289 60	88,158,139 27	+1,439,849 67
Number of dollars spent for all school purposes out of every \$1,000 of valuation	10 62	10 59	—0 03

* School year.

Cost of the Schools

The total amount spent for the maintenance of the schools of Somerville for the school year ending June 30, 1922, is \$889,876.76.

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

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

The amount paid for janitors is	\$61,987 24
The cost of fuel is	26,520 98
The cost of light is	10,531 27
Rental of Armory	250 00
<hr/>	
A total cost of	\$99,289 49
The cost per capita	7 03
Cost of repairs	36,628 82

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

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.		CONTINUATION SCHOOLS AND AMERICANIZATION WORK
		High and Vocational	Elementary	High and Vocational	Elementary	
Officers' Salaries.....	\$13,152.17					
Office Expenses.....	2,974.05					
Textbooks.....	9,615.05	\$4,409.63	\$5,137.99	\$31.50		\$35.93
Stationery and Supplies and Other Expenses of Instruction.....	25,345.17	13,345.73	10,975.62	\$633.25	\$42.80	347.77
Miscellaneous (Tuition, etc.)	4,748.04	2,354.58	2,207.91	136.10	8.00	41.45
Total	\$55,834.48	\$20,109.94	\$18,321.52	\$800.85	\$50.80	\$425.15

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

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

Expenditures.	Total.	DAY SCHOOLS.		EVENING SCHOOLS.		CONTINUATION SCHOOLS AND AMERICANIZATION WORK
		High and Vocational	Elementary	High and Vocational	Elementary	
Supervisors	\$11,523.00	\$2,003.46	\$8,944.54			\$575.00
Principals.....	53,305.00	13,325.00	35,364.00	\$892.00	\$924.00	2,800.00
Teachers	669,924.79	208,997.57	443,391.47	6,058.75	987.00	10,490.00
Total	\$734,752.79	\$224,326.03	\$487,700.01	\$6,950.75	\$1,911.00	\$13,865.00

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, 1922, is as follows:—

Care	\$99,289 49
Contingent	42,682 31
Salaries	747,904 96
Total for school maintenance	\$889,876 76
Paid for repairs	36,628 82
Paid for new buildings	7,575 86
Total for all school purposes	\$934,081 44

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

CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES

SCHOOL	TEACHERS					Adminis- tration	Books	Bookpg. Blanks	Bookbinding and Supplies	Maps Charts	White Paper	Manila Paper	Blank Books	Pencils, Pens, etc.	Stationery	Domestic Science Supplies	Drawing Supplies	Seat Work and Kindergarten Supplies		Laboratory Supplies	Eq
	Regular	Substitute	Special	Kindergarten	Total													Kindergarten	Supplies		
High	\$134,373 05	\$171.00	\$2,682 04	.....	\$137,226 09	.....	\$2,949 67	\$615 55	\$610 32	\$40 42	\$1,018 11	\$325 10	\$424 31	\$380 38	\$367 93	.....	\$276 60	.....	\$927 55	\$
Eastern Jr.	38,725 86	204 00	1,087 43	.....	40,017 29	.....	452 52	.....	112 51	.....	235 52	93 05	40 95	69 95	12 06	\$4 20	39 66	.....	.....	.....
Southern Jr.	54,874 70	157 00	1,087 32	.....	56,119 02	.....	829 32	.....	142 02	9 83	324 27	134 45	58 80	94 68	17 83	23 66	27 46	.....	.....	.....
Northern Jr.	40,781 72	155 00	1,087 39	.....	42,024 11	.....	746 08	.....	.....	.....	352 31	88 42	23 63	78 93	10 21	9 38	31 58	.....	.....	.....
Western Jr.	58,662 40	273 00	1,087 37	.....	60,022 77	.....	1,464 72	.....	56 03	.....	406 37	126 33	42 00	78 94	12 93	11 39	32 20	.....	.....	.....
Prescott	10,534 75	90 00	243 45	.....	10,868 20	.....	262 73	.....	.....	1 24	39 63	42 46	1 05	22 58	3 50	.....	9 20	11 33	.....	.....
Hanscom	16,068 50	192 00	337 20	\$2,608 75	19,206 45	.....	175 05	.....	2 31	96	70 20	61 48	4 73	30 26	7 18	.....	12 09	41 47	.....	.....
Bennett	16,956 00	285 50	500 40	2,316 50	20,058 40	.....	211 13	.....	.....	39	51 65	66 92	3 68	68 14	7 16	.....	30 05	61 10	.....	.....
Baxter	7,960 00	113 00	319 36	1,400 00	9,792 36	.....	54 64	.....	.....	1 11	18 52	15 11	2 10	20 05	2 20	.....	6 57	19 60	.....	.....
Knapp	15,664 13	221 00	600 75	.....	16,485 88	.....	299 04	.....	29 32	1 14	113 67	53 49	6 30	34 20	10 65	.....	15 90	10 29	.....	.....
Perry	8,114 00	185 00	378 44	.....	8,677 44	.....	126 34	.....	.....	.....	34 28	28 42	2 63	28 37	2 22	.....	7 48	4 22	.....	.....
Pope	18,366 50	229 00	728 99	.....	19,324 49	.....	313 83	.....	12 60	9 96	98 56	78 58	5 25	40 00	3 46	.....	14 52	13 50	.....	.....
Cummings	7,377 50	.....	213 94	.....	7,591 44	.....	98 71	.....	.....	.....	16 99	19 01	1 05	17 60	2 03	.....	4 15	11 35	.....	.....
Edgerly	20,185 50	76 00	878 51	.....	21,140 01	.....	262 00	.....	44 27	25	99 66	77 97	10 50	69 39	10 00	.....	21 76	5 13	.....	.....
Glines	20,043 00	179 00	747 36	2,325 00	23,294 36	.....	290 84	.....	51 96	9 24	103 64	78 20	7 88	58 00	5 78	.....	16 93	31 61	.....	.....
Forster	6,460 00	10 00	226 09	.....	6,696 09	.....	195 71	.....	.....	.....	35 24	18 40	2 10	26 78	1 90	.....	5 60	2 35	.....	.....
Bingham	23,687 38	324 00	807 36	2,280 00	27,098 74	.....	255 19	.....	23 62	.....	103 92	80 68	4 73	58 41	5 48	.....	22 41	56 27	.....	.....
Carr	23,949 00	215 00	871 10	.....	25,035 10	.....	341 71	.....	.....	6 99	124 26	67 27	6 32	35 18	4 20	.....	18 74	17 27	.....	.....
Morse	16,060 00	111 00	536 89	2,135 00	18,842 89	.....	172 40	.....	12 21	9 86	31 61	43 16	3 15	36 45	7 71	.....	8 83	59 43	.....	.....
Proctor	11,862 00	190 00	466 17	.....	12,518 17	.....	222 96	.....	14 52	2 98	44 18	29 58	4 20	27 27	1 93	.....	9 76	4 70	.....	.....
Durell	6,610 50	35 00	194 10	.....	6,839 60	.....	91 94	.....	.....	.....	17 42	23 96	1 58	20 55	76	.....	4 63	4 35	.....	.....
Burns	13,528 00	72 00	299 00	.....	13,899 00	.....	191 35	.....	8 58	18 65	55 66	55 77	3 16	26 76	2 64	.....	5 50	28 36	.....	.....
Brown	16,699 00	55 00	540 31	.....	17,294 31	.....	213 36	.....	52 22	9 82	66 28	37 69	2 94	53 25	4 56	.....	15 58	26 58	.....	.....
Highland	12,150 50	206 00	859 17	.....	13,215 67	.....	186 22	.....	.....	1 78	41 18	33 08	6 83	45 91	4 17	.....	17 30	.....	.....	.....
Cutler	29,425 50	358 00	897 19	2,358 50	33,039 19	.....	297 20	.....	.....	17 48	133 76	79 43	11 03	63 04	16 69	.....	25 23	74 81	.....	.....
Lincoln	6,474 50	53 00	194 04	.....	6,721 54	.....	156 39	.....	.....	90	25 36	19 01	5 52	20 49	4 45	.....	4 15	11 64	.....	.....
Lowe	13,217 00	154 50	270 38	.....	13,641 88	.....	165 23	.....	.....	.....	52 84	39 52	3 15	48 62	2 24	.....	16 24	32 10	.....	.....
Atypical	4,850 00	12 00	.....	.....	4,862 00	.....	10 68	.....	.....	.....	6 13	5 80	1 04	5 65	56	2 16	.....	32 26	.....	.....
Sight Saving	759 50	.....	.....	.....	759 50	.....	16 19	.....	.....	12 44	.....	1 35	.....	2 50	.....	.....	2 52	46 34	.....	.....
Boys' Vocational	18,720 50	65 00	.....	.....	18,785 50	.....	.....	.....	.....	.....	75 76	10 20	16 80	31 60	.....	.....	215 27	.....	.....	.....
Independent Househ'd Arts..	2,285 50	.....	.....	.....	2,285 50	.....	7 50	.....	.....	.....	.....	.....	.....	1 38	.....	.....	.....	.....	.....	.....
Evening High	4,560 00	.....	.....	.....	4,560 00	.....	.....	.....	.....	1 08	33 22	15 36	15 75	25 88	21 52	.....	58 10	.....	.....	.....
Evening, Bell	1,080 00	.....	.....	.....	1,080 00	.....	.....	.....	.....	.....	3 95	6 56	3 15	9 67	1 26	.....	2 42	.....	.....	.....
Evening, Western	693 00	.....	.....	.....	693 00	.....	.....	.....	.....	.....	3 66	3 45	1 05	6 40	.....	.....	.....	.....	.....	.....
Evening, Vocational	997 25	.....	.....	.....	997 25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Americanization	7,227 00	.....	.....	.....	7,227 00	.....	1 00	.....	.....	.....	11 30	1 08	8 40	20 04	.....	.....	.....	.....	.....	.....
Evening, Practical Arts.....	1,128 00	.....	.....	.....	1,128 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Continuation	7,095 50	.....	.....	.....	7,095 50	.....	2 68	.....	.....	.....	11 88	4 67	6 30	8 95	3 31	26 96	.....	.....	.....	.....
Dental	1,534 00	.....	.....	.....	1,534 00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administration .....	.....	.....	.....	.....	.....	.....	.....	\$13,527 18	.....	.....	63 97	.....	.....	6 21	255 21	.....	.....	.....	.....	.....
Miscellaneous .....	.....	.....	.....	.....	.....	.....	8 21	.....	.....	.....	188 27	34 97	6 05	.....	23 88	8 42	128 23	10 00	.....	.....
Total	\$699,741 24	\$4,391 00	\$18,141 75	\$15,423 75	\$737,697 74	\$13,527 18	\$11,116 77	\$615 55	\$1,172 49	\$156 52	\$4,113 23	\$1,899 98	\$743 61	\$1,671 08	\$848 64	\$86 17	\$1,106 66	\$616 06	\$927 55	\$4	

RES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1922.

Equipment	Lumber	Hardware	Metal	Typewriter Supplies and Repairs	Piano Tuning	Gradua- tion Expenses	Tuition	Printing	Postage	Electric Power	Telephone	Express	Baths	Auto Maintenance	Travel	Catering	Miscel- laneous	Total	
\$1,378 67	\$350 83	\$227 85	\$6 77	\$81 79		\$614 94		\$332 08	\$32 00	\$259 00	\$67 69	\$52 05			\$10 25		\$56 95	\$11,906 81	High
371 64	148 89	41 37		28 70	\$8 25	38 65		5 34			46 18	7 35			36 59		11 57	1,804 95	Eastern Jr.
118 91	169 51	31 44	32 81	15 18		60 78		5 35	2 00		63 92	60			6 05		3 43	2,172 30	Southern Jr.
104 80	398 26	44 15		4 73	4 00	43 93		28 60	2 00		56 23	6 30			11 33		5 59	2,050 46	Northern Jr.
697 62	644 42	127 08	45 22	23 32	9 50	66 34		5 35	8 50		89 51	5 15			12 61		10 80	3,976 33	Western Jr.
															8 32		24	402 28	Prescott
4 00					3 00						24 15	1 00					6 99	444 87	Hanscom
					7 00						38 95	2 10	\$232 40		12 15		16 83	809 65	Bennett
									3 46		35 55	1 60			7 00		5 01	144 91	Baxter
16 66																	25 34	663 61	Knapp
											28 02						9 67	243 63	Perry
																	5 61	623 89	Pope
																	1 80	172 69	Cummings
2 76											29 65	50					5 05	638 89	Ederiy
											33 33	50					5 37	693 28	Gilnes
																	1 16	289 24	Forster
											24 43	1 60			20 35		8 01	665 10	Bingham
											25 12				3 10		8 46	659 12	Carr
1 18											23 47				1 10		12 30	422 86	Morse
											27 38	25					5 32	395 03	Proctor
												25					6 14	171 58	Durell
												60					2 81	399 84	Burns
					3 50				1 16		39 81	60			8 60		4 35	540 30	Brown
1 18											33 92	25					11 47	383 29	Highland
2 35									2 75		27 78	9 48			11 85		10 68	783 56	Cutler
2 35												50					1 41	247 17	Lincoln
4 14											11 87	60					6 58	383 13	Lowe
1 55	7 69	4 17															2 74	80 43	Atypical
19 16												50			12 30		4 73	118 08	Sight Saving
1,217 69	322 66	225 14	180 30			20 14		8 41	9 00	527 09	79 68	8 35			21 10		35 32	3,014 16	Boys' Vocational
9 96									4 00		25 37							48 21	Independent Household Arts
99 95				1 00		27 82		87 84	14 20			50					10 62	412 84	Evening High
						21 42		8 58	2 16								1 02	60 19	Evening, Bell
								4 08										18 64	Evening, Western
192 26								4 08										197 34	Evening, Vocational
								8 59	3 37		1 05				5 00			59 83	Americanization
3 15								4 08	2 45									9 68	Evening, Practical Arts
95 43	36 79	22 57							11 90		20	50			14 25		20 37	266 76	Continuation
																			Dental
75 22				15 81				918 35	246 37		283 96	1 55		406 17	207 45	\$154 65	106 40	2,785 55	Administration
				9 59			\$2,822 92	426 36	10			33 84			6 65		130 14	3,837 63	Miscellaneous
\$4,920 63	\$2,079 05	\$723 77	\$265 10	\$180 12	\$35 25	\$894 02	\$2,822 92	\$1,847 09	\$345 42	\$786 09	\$1,117 22	\$197 52	\$232 40	\$406 17	\$416 05	\$154 65	\$560 33	\$42,998 11	

REVUE

ANNUAIRE

1887

ANNEE	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	

Imprimerie de la Revue, 1887

	1917	1918	1919	1920	1921	1922
Janitors' salaries	\$0.076	\$0.079	\$0.097	\$0.074	\$0.070	\$0.070
Heat and light	0.066	0.081	0.057	0.063	0.085	0.042
Administration	0.018	0.017	0.017	0.020	0.015	0.015
School supplies	0.062	0.064	0.067	0.053	0.030	0.048
Teachers' salaries	0.778	0.759	0.762	0.790	0.800	0.825
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 1921 AND 1922

	High School.			Junior High Schools.			Elementary Schools.			All Day Schools.		
	1921.	1922.	Change	1921.	1922.	Change	1921.	1922.	Change	1921.	1922.	Change
Instruction	\$77.20	\$72.87	-\$4.33	\$61.47	\$61.29	-\$0.18	\$41.70	\$41.84	+\$0.14	\$50.73	\$50.62	-\$0.11
Supplies	4.86	6.97	+2.11	2.09	3.08	+0.99	.84	1.67	+0.83	1.63	2.73	+1.10
Care	13.96	9.11	-4.85	8.97	6.12	-2.85	9.08	6.35	-2.73	9.62	6.62	-3.00
Total	\$96.02	\$88.95	-\$7.07	\$72.53	\$70.49	-\$2.04	\$51.62	\$49.86	-\$1.76	\$61.98	\$59.97	-\$2.01

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

	1918	1919	1920	1921	1922
Cost of Instruction	\$29 58	\$31 82	\$44 34	\$50 07	\$50 90
Cost of Supplies	2 40	2 45	2 80	1 60	2 77
Cost of Care	6 09	6 43	7 45	9 62	6 73
Total	<u>\$38 07</u>	<u>\$40 70</u>	<u>\$54 59</u>	<u>\$61 29</u>	<u>\$60 40</u>

An examination of these tables shows that we have paid \$4.33 less for the instruction of each pupil in the High School than in 1921, and \$2.11 more per pupil for supplies.

The elementary schools have cost 14 cents more per pupil for instruction, and 83 cents more for supplies.

The amount spent for the school year 1922 was \$10.09, or 3 cents less than was spent in 1921. The amount yielded for each child in the average membership of the schools for 1922, not including the vocational schools, was \$60.40.

Teachers' Salaries

The salaries paid to teachers in January, 1923, are as follows:—

1 man	\$4,100	1 man, 3 women	\$1,700
1 man	3,300	25 women	1,650
4 men	3,100	2 men, 16 women	1,600
7 men, 1 woman	3,000	1 woman	1,575
1 man	2,900	*1 man, 4 women	1,550
1 man, 1 woman	2,800	1 man, 221 women	1,500
3 men	2,700	20 women	1,450
4 men	2,500	24 women	1,400
5 men	2,300	1 woman	1,350
3 men, 1 woman	2,200	11 women	1,300
6 men, 2 women	2,100	1 woman	1,250
4 men	2,000	13 women	1,200
9 men, 6 women	1,900	4 women	1,100
1 man	1,800	1 man*, 5 women	1,000
18 women	1,750		

*Part time.

SIGHT AND HEARING

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

Eyes

	1922	1921	Change
Tested	13,948	12,833	+1,115
Defective	1,567	1,669	—102
Per cent. defective	11%	13%	—2%
Notices sent to parents	1,135	1,089	+46
Professionally treated	193	173	+20

Ears

	1922	1921	Change
Tested	13,989	13,711	+278
Defective	161	206	—45
Per cent. defective	1.2%	1.5%	—0.3%
Notices sent to parents	101	139	—38
Professionally treated	20	26	—6

Table 1.—Schoolhouses, January, 1923

NAME	†No. of Classrooms	No. of Sittings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
High } West	†74	1,733	*	Brick	Steam	Fan	*\$426,000	1895	8 rooms added 1906
School } East				Brick	Steam	Fan		1871	30 rooms added 1913
Prescott }	13	518		Brick	Steam	Fan		1867	
Southworth }	11	356	49,310	Brick	Steam	Fan	139,200	1916	
Knapp	13	464	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	861	29,860	Brick	Steam	Fan	147,000	1874	13 rooms added 1918
Ederly	12	571	24,000	Brick	Steam	Gravity	48,000	1871	{ 4 rooms added 1882 4 rooms added 1892
Glines	14	679	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						1899	
Bingham	16	771	35,586	Brick	Steam	Gravity	82,000	1886	{ 4 rooms added 1894 8 rooms added 1904
Carr	15	705	20,450	Brick	Steam	Gravity	68,100	1898	
Morse	12	503	29,000	Brick	Furnace	Furnace	59,000	1869	6 rooms added 1890
Highland	†12	355	23,260	Brick	Steam	Gravity	71,600	1880	4 rooms added 1891
Carried forward	254	8,963					\$1,401,400	.....

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

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

‡2 rooms converted into a hall.

‡3 rooms not in use.

Table 1. — (Concluded). — Schoolhouses, January, 1923

NAME	No. of Classrooms	No. of Seatings	Size of Lot, including Space Occupied by Building	Material	How Heated	How Ventilated	Valuation, including Furniture	When Built	Enlargements
Brought forward.....	254	8,963	.....	.....	.....	.....	\$1,401,400	.....	.....
Hodgkins	14	568	35,034	Brick	Steam	Gravity	103,700	1896	.....
Western	15	475	†.....	Brick	Steam	Fan	†84,000	1917	.....
Outler	20	911	53,729	Brick	Steam	Fan	108,800	1912	6 rooms added 1915
Bennett	12	508	21,964	Brick	Steam	Gravity	58,000	1902	.....
Hanscom.....	10	482	16,767	Brick	Steam	Fan	70,500	1897	4 rooms added 1907
Brown	10	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	291	46,080	Brick	Steam	Gravity	53,500	1899	.....
‡Girls' Vocational	8	.....	8,850	Wood	Furnace	Furnace	4,000	1911	Machine shop added 1917 Automobile shop added 1918
Boys' Vocational { Machine Shop 2 Automobile Shop 2	4	.....	30,155	Wood	Furnace	Furnace	71,000	1884	.....
Cummings	4	196	11,300	Wood	Furnace	Furnace	19,900	1884	.....
Durell.....	4	184	13,883	Brick	Steam	Gravity	22,900	1894	.....
Lincoln	4	168	17,662	Wood	Steam	Gravity	21,000	1885	.....
Total.....	392	14,639	.....	.....	.....	.....	\$2,284,000	.....	.....

*State property. †Land included in City Ledge property. ‡Not in use. †One room used for Dental Dispensary.

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1921-22.

SCHOOLS.	FROM SCHOOL APPROPRIATION.		SPENT BY CITY GOVERNMENT.	
	Instruction and Supervision.	Supplies.	Care.	Total
High	\$138,819.70	\$13,355.16	\$17,447.85	\$169,622.71
Eastern Jr.	40,941.68	2,100.08	4,716.02	47,757.78
Southern Jr.	57,154.07	3,019.20	5,083.15	65,256.42
Northern Jr.	42,232.94	2,151.57	4,774.16	49,158.67
Western Jr.	61,035.96	2,800.77	4,887.44	68,724.17
Prescott	10,982.69	371.25	1,241.07	12,595.01
Hanscom	19,214.69	690.44	2,346.95	22,252.08
Bennett	21,072.84	1,136.70	2,958.49	25,168.03
Baxter	10,788.52	289.61	1,829.36	12,907.49
Knapp	16,407.46	617.16	3,232.91	20,257.53
Perry	8,859.42	374.35	1,829.36	11,063.13
Pope	19,630.73	692.96	2,978.54	23,302.23
Cummings	7,695.85	312.69	1,531.57	9,540.11
Edgerly	21,905.67	755.99	2,978.52	25,640.18
Glines	23,819.88	994.90	2,864.97	27,679.75
Forster	6,922.80	281.40	1,531.58	8,735.78
Bingham	26,866.23	1,325.77	3,162.38	31,354.38
Carr	25,489.54	878.33	3,723.17	30,091.04
Morse	18,916.01	929.39	2,978.54	22,823.94
Proctor	12,296.31	535.17	2,101.17	14,932.65
Durell	7,003.38	226.38	1,531.57	8,761.33
Burns	14,229.48	425.39	2,101.17	16,756.04
Brown	17,690.78	683.91	2,482.12	20,856.81
Highland	14,087.67	539.94	2,565.11	17,192.72
Cutler	32,931.21	1,623.71	4,694.16	39,249.08
Lincoln	6,893.39	264.01	1,531.57	8,688.97
Lowe	14,121.86	440.00	2,101.16	16,663.02
Atypical	4,643.58	69.05	726.14	5,438.77
Sight Saving	145.82	56.44	20.18	222.44
Boys' Vocational	19,458.20	3,412.95	2,261.43	25,132.58
Independent House- hold Arts	2,434.85	49.04	855.46	3,339.35
Evening	9,052.55	778.65	1,972.40	11,803.60
Continuation	7,359.45	410.63	1,009.24	8,779.32
Americanization	6,799.75	89.32	1,240.58	8,129.65
Total	\$747,904.96	\$42,682.31	\$99,289.49	\$889,876.76

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1921-22.

SCHOOLS.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$72.87	\$6.97	\$9.11	\$88.95
Eastern Jr.	64.58	3.31	7.44	75.33
Southern Jr.	57.50	3.04	5.11	65.65
Northern Jr.	62.85	3.20	7.10	73.15
Western Jr.	60.25	2.76	4.82	67.83
Prescott	38.13	1.29	4.31	43.73
Hanscom	40.54	1.46	4.95	46.95
Bennett	44.65	2.41	6.27	53.33
Baxter	54.21	1.46	9.19	64.86
Knapp	42.28	1.59	8.33	52.20
Perry	46.38	1.96	9.58	57.92
Pope	37.39	1.32	5.67	44.38
Cummings	42.05	1.71	8.37	52.13
Edgerly	38.59	1.34	5.27	45.20
Glines	37.57	1.57	4.52	43.66
Forster	37.02	1.50	8.19	46.71
Bingham	41.02	2.02	4.83	47.87
Carr	41.85	1.43	6.11	49.39
Morse	42.41	2.08	6.68	51.17
Proctor	39.54	1.72	6.76	48.02
Durell	40.72	1.32	8.90	50.94
Burns	44.19	1.32	6.53	52.04
Brown	46.93	1.81	6.58	55.32
Highland	43.89	1.68	7.99	53.56
Cutler	42.00	2.07	5.99	50.06
Lincoln	47.54	1.82	10.56	59.92
Lowe	39.78	1.24	5.92	46.94
Atypical	100.95	1.50	15.79	118.24
Sight Saving	20.83	8.06	2.88	31.77
Evening	13.59	1.17	2.96	17.72
Continuation	70.09	3.91	9.61	83.61
Americanization	26.05	.34	4.75	31.14
Elementary	41.84	1.67	6.35	49.86
All schools (without state-aided schools)	50.90	2.77	6.73	60.40
Boys' Vocational	163.51	28.68	19.00	211.19
Ind. Household Arts	122.60	1.29	22.51	156.40

Table 4.—Annual Cost of Maintaining the Schools.

FOR A SERIES OF YEARS.

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

YEAR.	Average Membership.	FROM SCHOOL APPROPRIATION.		SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.				Total.
		Instruction and Supervision.	School Supplies.	Light.	Heating.	Janitors.	School Tele-phones.	
1912	11,710	\$306,709	\$30,319	\$5,995	\$15,676	\$30,219	\$512	\$389,431
1913	11,856	320,744	25,877	5,842	16,055	32,939	542	402,092†
1914	12,320	338,587	26,843	6,448	18,952	33,711	624	425,165
1915	12,903	357,581	29,389	5,755	18,366	32,674	213	443,978
1916	13,191	363,948	26,098	6,233	20,197	34,667	.....	451,143
1917	12,770	376,138	29,221	5,429	25,487	35,718	.....	471,993
1918	12,656	410,589	33,587	6,966	35,839	42,063	18	529,062
1919	12,733	437,730	33,225	8,821	22,960	55,710	.....	*559,328
1920	12,836	613,294	40,079	10,092	37,083	56,381	.....	*757,679
1921	13,396	714,859	26,329	12,163	63,017	61,435	.....	*878,153
1922	14,109	747,905	42,682	10,531	26,521	59,566	.....	*889,877

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

* Includes \$882.50, rent of Armory, in 1919.

* " 750.00, " " in 1920.

* " 350.00, " " in 1921.

* " 250.00, " " in 1922.

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

FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Maintenance to Valuation.
1912	\$23 61	\$2 12	\$3 99	\$29 72	\$69,632,540	\$.00556
1913	24 54	1 91	4 18	30 63	71,848,811	.00559
1914	24 55	1 89	4 27	30 71	74,887,800	.00568
1915	24 90	2 03	3 92	30 85	77,153,500	.00575
1916	26 25	1 88	4 41	32 54	79,304,329	.00569
1917	26 72	2 05	4 61	33 38	78,921,472	.00595
1918	29 58	2 40	6 09	38 07	84,639,280	.00625
1919	31 82	2 45	6 43	40 70	87,353,424	.00643
1920	44 34	2 80	7 45	54 59	83,910,855	.00903
1921	50 07	1 60	9 62	61 29	86,718,290	.01012
1922	50 90	2 77	6 73	60 40	88,158,139	.01009

Table 8. — Attendance of the Public Schools for the School Year
1921-1922

Rooms used for Classrooms in June	SCHOOLS.	Annual Enrollment.	Average Membership.	Average Attendance.	Per cent. of Attendance.	No. Attending in October.	No. Attending in June.	No. of Days in Session
72	High	2037	1916	1774	92.5	1978	1877	176
19	Eastern Jr. High	686	634	588	93.0	650	615	175
26	Southern Jr. High	1084	994	930	93.5	1023	938	174
22	Northern Jr. High	715	672	633	94.1	691	660	176
31	Western Jr. High	1058	1013	963	94.8	1021	982	175
5	Prescott	340	288	264	91.0	306	273	174
10	Hanscom	511	474	436	92.0	482	465	175
11	Bennett	512	472	443	93.8	497	461	174
6	Baxter	217	199	189	95.0	188	203	174
10	Knapp	413	388	365	94.0	388	385	174
5	Perry	254	191	180	94.1	192	196	174
12	Pope	588	525	490	93.3	537	527	174
4	Cummings	198	183	170	93.0	187	165	175
12	Edgerly	629	565	521	92.2	575	553	175
14	Glines	697	634	591	93.2	635	643	174
4	Forster	210	187	177	94.5	185	188	175
16	Bingham	704	655	611	93.2	616	663	175
15	Carr	704	609	648	93.9	653	633	174
11	Morse	474	446	416	94.2	397	449	175
7	Proctor	333	311	291	93.8	308	313	175
4	Durell	183	172	162	94.3	177	168	174
8	Burns	345	322	299	92.7	330	316	175
10	Brown	409	377	353	93.6	382	372	174
8	Highland	337	321	306	95.3	319	319	174
20	Cutler	847	784	731	93.2	748	771	174
4	Lincoln	157	145	136	93.8	150	141	175
8	Lowe	388	355	329	92.6	357	359	174
3	Atypical	50	46	42	91.3	46	46	175
1	Sight Saving	1	7	6	93.5	.....	7	9
	Boys' Vocational	144	119	116	97.3	126	104	182
2	Continuation	269	105	141	75.3	115	105	180
380	Total	15,494	14,109	13,301	94.2	14,259	13,897	
375	Total for 1920-21	14,772	13,686	12,760	93.2	13,607	13,163	

Table 9.—Statistics of High School for School Year September 14, 1921
to June 22, 1922

Number of teachers, including head master	72
Number of days school kept	176
Number enrolled	2037
Average number belonging	1916
Average daily attendance	1774
Tardinesses	4879
Dismissals	566
In Class 1924, September	822
June	752
Per cent. of loss	8.5
In Class 1923, September	536
June	492
Per cent. of loss	8.2
In Class 1922, September	637
June	618
Per cent. of loss	2.9
Special students, September	12
June	15
Per cent. of gain	25
Total, September	2007
June	1877
Per cent. of loss	6.5
Number of graduates, male	227
Number of graduates, female	387
Total	614
Average age, male graduates	18 yrs. 1 mo.
Average age, female graduates	18 yrs. 2 mos.
Number entering college	83
Number of graduates entering scientific schools	52
Number of graduates entering normal schools	34
Cost of instruction	\$137,088 15
Cost of supplies	12,514 04
Total cost	\$149,602 19
Per capita cost of instruction	71 54
Per capita cost of supplies	6 53
Total cost per capita	78 07

Table 10.—Pupils by Grades, June, 1922

SCHOOL.	GRADE.	TEACHERS.			PUPILS.			Never in First Grade Before.
		Men.	Women.		Boys.	Girls.	Total.	
			Regular.	Assistants.				
High	Special				6	9	15	
	Twelfth				272	389	661	
	Eleventh				244	248	492	
	Tenth				338	414	752	
	Total	18	54		817	1,060	1,877	
Junior High	Ninth				498	484	982	
	Eighth				460	579	1,039	
	Seventh				567	607	1,174	
	Total	16	98	1	1,525	1,670	3,195	
Elementary	Sixth	6	34		637	666	1,303	
	Fifth		33		658	667	1,325	
	Fourth		32		632	642	1,274	
	Third		31		617	650	1,267	
	Second		36		705	773	1,478	
	First		37	1	822	729	1,551	1,416
	Total	6	203	1	4,071	4,127	8,198	
Kindergarten			7	6	194	150	344	
	Special	4	8		13	8	21	
	Cadets		7					
	Atypical		3		27	19	46	
	Boys' Vocational Independent	9			104		104	
	Household Arts Continuation	3	1		40	65	105	
	Sight Saving		2		4	3	7	
			1					
	Grand Total	56	384	8	6,795	7,102	13,897	

Table 11. — Pupils in High, Junior High, Elementary, Vocational, and Continuation Schools, 1921-1922.

	High School.	Junior High Schools.	Elementary Schools.	Kindergartens.	Vocational School for Boys.	Atypical Schools.	Sight Saving Class	Continuation Schools	Total.
Annual enrollment	2037	3543	9076	374	144	50	1	269	15,494
Average membership	1916	3313	8268	335	119	46	7	105	14,109
Average attendance	1774	3114	7810	298	116	42	6	141	13,301
Per cent. of attendance	92.5	94.0	94.5	80.9	97.3	91.3	93.5	75.3	94.3
Number cases of tardiness	4879	2277	4449	.....	15	.....	.....	.....	11,620
Number cases of dismissal	566	1017	1894	.....	16	.....	.....	.....	3,493
Membership, October, 1921	1978	3385	8411	198	126	46	.....	115	14,259
Membership, June, 1922	1877	3195	8219	344	104	7	7	105	13,897
No. cases corp. punishment .....	.....	8	68	.....	.....	.....	.....	.....	76

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

SCHOOL.	1918	1919	1920	1921
Prescott	46	32	66	78
Hanscom	114	153	126	78
Bennett.....	67	104	96	117
Baxter.....	31	34	34	26
Knapp.....	30	53	47	74
Perry.....	42	38	40	37
Pope.....	55	50	71	79
Cummings	35	47	47	48
Edgerly.....	43	43	54	53
Glines	86	92	110	79
Forster	21	25	31	25
Bingham.....	65	86	95	91
Carr.....	79	75	81	74
Morse	82	69	78	69
Proctor	48	43	36	42
Durell.....	28	34	30	37
Burns	65	83	77	58
Brown.....	63	76	72	72
Cutler	136	86	116	168
Lincoln.....	60	42	32	32
Lowe	82	74	72	79
Total	1,278	1,339	1,411	1,416

Table 13. — Eighth Grade Promotions — Junior High Schools — June, 1922

Promotion from the eighth 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	Number in Class in June	No. Promoted to Grade 9	No. Entering Grade 9	No. Entering Schools Outside City	No. Going to Work	No. Not Located	No. Entering Vocational School	No. Entering Other Junior High Schools In City
Eastern Junior High School...	210	203	191	3	2	3	3	1
Southern Junior High School..	321	316	266	9	27	12	1	1
Northern Junior High School	206	183	162	11	3	3	2	2
Western Junior High School ..	342	326	304	10	9	2	.....	1
Total	1079	1028	923	33	41	20	6	5

Table 13A. — Ninth Grade Promotions — Junior High Schools — June, 1922

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	Number in Class in June	No. Promoted to High School	No. Entering Somerville High School	No. Entering Other Schools, Public or Private	No. Going to Work	No. Not Located	No. Entering Boy's Vocational School
Eastern Junior High.....	187	171	137	6	2	24	2
Southern "	293	276	231	5	16	24	.....
Northern "	201	193	165	9	14	5	.....
Western "	325	306	275	13	12	6	.....
Total	1006	946	808	33	44	59	2

Table 14. — Comparative Statistics of the Attendance Department for the School Year 1921. — 1922

	1921	1922	Change
Number of visits to the schools	442	354	—88
Number of visits to the homes	1,347	781	—566
Number of cases investigated	1,459	884	—575
Number of cases found to be truancy or absenteeism	362	341	—21
Number of different pupils who were truants or habitual absentees	279	255	—24
Number who were truants for the first time	227	198	—29
Number who were truants for the second time	35	46	+11
Number who were truants for three or more times	17	11	—6
Number of girls who were truants or absentees	72	61	—11
Number of cases of parental neglect of children found and reported to charitable institutions	1	1	0
Number of cases of removal of children from the custody of parents by order of the court	1	1	0
Number of visits to mercantile or manufacturing establishments	43	46	+3
Number of minors found to be working without employment certificates	59	46	—13
Number of employment certificates issued to boys	200	229	+29
Number of employment certificates reissued to boys	92	156	+64
Number of employment certificates issued to girls	162	152	—10
Number of employment certificates reissued to girls	48	86	+38
Number of educational literate certificates issued to minors over 16 years of age (first issue)	883	1,247	+364
Number of newspaper licenses issued to boys 12 to 16 years of age	111	95	—16
Number of transfer cards investigated	1,954	1,299	—655
Number of truants in the County Training school at the close of the year	10	9	—1
Amount paid for board of truants	\$1,004.15	\$908.14	—\$96.01

Table 14. — (Concluded). — Comparative Statistics of the Attendance Department for the School Year 1921-1922

Disposition of truancy and habitual absentee cases:—		
Warned and returned to school		146
Transferred to other schools		12
Obtained certificates (14 to 16 years)		31
Left school (over 16 years)		8
Removed from city		34
Brought before court and returned to school		8
Brought before court and sent to Training School		7
Returned to Training School (violating parole)		1
Parents brought before court for keeping children out of school (convicted)		1
Sent to Lyman School		7
Sent to Shirley		1
Sent to Home For Little Wanderers		1
		257

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

GRADES.	BY AGES.											Total.
	6	7	8	9	10	11	12	13	14	15	16 or Over	
I.....	2	7	3	1	.....	.....	.....	.....	.....	.....	.....	13
II.....	2	4	5	1	.....	.....	.....	.....	.....	.....	12
III.....	2	4	3	5	.....	.....	1	.....	.....	15
IV.....	1	1	2	3	.....	2	2	.....	.....	11
V.....	6	7	7	4	5	2	1	32
VI.....	1	8	15	12	11	1	48
VII.....	2	3	20	23	17	3	68
VIII.....	4	11	7	2	24
IX.....	7	9	5	21
X.....	2	.....	2
XI.....
XII.....
Boys' Voc'l	3	.....	.....	3
Ungraded..	1	.....	2	.....	3	.....	6
Total.....	2	9	10	11	12	19	18	47	64	51	12	255

Table 15-A.—Evening High School—Season 1921-1922.

	Male	Female	Total
Enrolled	289	282	571
Average membership	161	186	347
Average attendance	111	129	240
Number of teachers		17	
Number of sessions		58	
Cost of Instruction		\$4,737 00	
Cost of janitor, fuel, light, and supplies		1,323 57	
Total cost		\$6,060 57	
Cost per pupil per evening		0 301	
Average attendance: October, 309; November, 289; December, 235; January, 249; February, 181; March, 191.			

Table 15-B.—Evening Elementary Schools—Season of 1921-1922.

	Male	Female	Total
Enrolled	122	38	165
Average membership	70	26	96
Average Attendance	56	21	77
Number of teachers	2	4	6
Number of sessions		77	
Cost of instruction		\$1,911 00	
Cost of janitor, fuel, light, and supplies		795 95	
Total Cost		\$2,706 95	
Cost per pupil per evening		0 366	

Table 15-C.—Evening Vocational Classes—Season 1921-1922.

	Men	Women
Enrolled	77	229
Average Membership	58	171
Average Attendance	48	139
Number of teachers	4	10
Number of sessions	40	39
Cost of instruction	\$1,070 75	\$1,149 00
Cost of janitors, fuel, and light, and supplies	387 26	254 90
Total expenditure	\$1,458 01	\$1,403 90
Income from sources other than local tax- ation	141 07	255 28
Net expenditure	\$1,306 94	\$1,148 62
Reimbursement from State	596 90	574 31
Net cost	\$710 04	\$574 31
Net cost per pupil per eve.	0 306	0 086

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

	1919	1920	1921	1922
Knapp.	62	107	83	91
Perry.	34	32	39	.....
Pope.	139	127	136	129
Edgerly.	136	171	171	168
Glines.	88	83	94	91
Forster.	35	31	29	35
Bingham.	66	66	95	87
Carr.	106	96	113	142
Morse.	46	61	43	68
Proctor.	44	59	44	53
Brown.	43	70	43	69
Highland.	143	178	155	161
Cutler.	126	120	115	154
Total.	1068	1201	1160	1248
Average Membership of Elementary Schools.	8345	8334	8270	8268
Per cent. of Average Membership Promoted	12.79	14.41	14.03	15.09

Table 17. — Attendance Statistics.

FOR A SERIES OF YEARS.

JUNE	ENROLLMENT	Average Membership	Average Attendance	Per cent. of Attendance	Number of Tardinesses	Ratio of Tardiness to Average Attendance
1912	13,272	11,710	11,083	94.6	6,307	0.569
1913	13,491	11,903	11,216	94.2	7,354	0.655
1914	13,932	12,320	11,610	94.2	7,380	0.635
1915	14,505	12,903	12,189	94.5	8,000	0.656
1916	14,647	13,191	12,323	93.4	9,373	0.761
1917	13,967	12,770	11,933	93.7	7,325	0.613
1918	14,256	12,656	11,798	93.2	8,970	0.760
1919	14,039	12,733	11,609	91.2	9,744	0.839
1920	14,091	12,836	11,807	91.9	11,628	0.993
1921	14,500	13,396	12,533	93.6	11,337	0.904
1922	15,225	14,004	13,160	94.0	11,620	0.883

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

FOR A SERIES OF YEARS.

YEAR.	Average Membership all Schools.	Largest Number in High School.	Per cent. of Average Membership of all Schools.	Number of Graduates of High School.	Per cent. of Average Membership of all Schools.
1912	11,710	2,023	17.28	296	2.53
1913	11,903	2,081	17.48	296	2.48
1914	11,610	2,111	18.18	273	2.35
1915	12,903	2,258	17.50	311	2.41
1916	13,191	2,288	17.35	348	2.64
1917	12,770	1,973	15.45	340	2.66
1918	12,656	1,520	12.01	332	2.62
1919	12,733	1,854	14.56	310	2.43
1920	12,836	1,714	13.35	241	1.87
1921	13,396	1,762	13.15	316	2.36
1922	14,004	2,037	14.55	613	4.38

For years prior to 1912 see School Report of 1917.

Table 19.—Promotions for School Year Ending June 22, 1922.
Junior High Schools.

GRADE.	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded	Promoted more than One Grade	Special Promotions during Year	Promotees Dropped Back after Two Months' Trial
I	1,157	959	114	84		1	1
II	1,078	888	131	59			4
III	996	918	28	50			1
Total.....	3,231	2,765	273	193		1	6

Percentage of Promotions for School Year Ending June 22, 1922.
Junior High Schools.

GRADE.	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded	Promoted more than One Grade	Special Promotions during Year	Promotees Dropped Back after Two Months' Trial
I	100	82.9	9.9	7.2		0.008	0.008
II	100	82.4	12.1	5.5			0.03
III	100	92.2	2.8	5.0			0.01
Average	100	85.8	8.3	5.9		0.008	0.01

Table 19-A.—Promotions for School Year Ending June 22, 1922.

Elementary Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	1,593	1,253	88	246	6	5	4
II	1,492	1,245	111	116	20	11	6
III	1,285	1,093	108	67	17	13	2
IV	1,288	1,102	109	70	7	9	4
V	1,341	1,078	171	87	5	6	4
VI	1,309	1,117	131	53	8	8	4
Total.....	8,308	6,888	718	639	63	52	24

Percentage of Promotions for School Year Ending June 22, 1922.

Elementary Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promotions during Year.	Promotees Dropped Back after Three Months' Trial.
I	100	78.7	5.5	15.4	0.4	0.3	0.2
II	100	83.4	7.5	7.8	1.3	0.7	0.4
III	100	85.1	8.4	5.2	1.3	1.0	0.1
IV	100	85.6	8.5	5.4	0.5	0.6	0.3
V	100	80.4	12.7	6.5	0.4	0.4	0.2
VI	100	85.3	10.0	4.0	0.6	0.6	0.3
Average...	100	83.1	8.7	7.4	0.8	0.6	0.2

TABLE 20.—RESIGNATIONS OF TEACHERS, 1922.

School	Teacher	Resignation took effect	In Service
High	Ruby W. Davison	March 31, 1922	3½ months
High	John M. Jaynes	May 22, 1922	20 yrs., 9 months
High	Ruth A. Davis	June 30, 1922	8 yrs.
High	Mathilda C. Wright, (matron)	*Sept. 24, 1922	3 yrs.
Eastern Junior High	Theresa E. Morrison	June 30, 1922	10 yrs., 3 mos.
Eastern Junior High	Doris B. Cresto	June 30, 1922	3 yrs.
Southern Junior High	E. Marie Kelley	January 30, 1922	3 yrs., 5 mos.
Southern Junior High	Anna E. McCully	June 30, 1922	6 yrs.
Northern Junior High	Katherine Briggs	Oct. 27, 1922	1 yr., 2 mos.
Northern Junior High	Helen F. Lyon	Oct. 20, 1922	2 mos.
Western Junior High	Isabel M. Brunton	June 30, 1922	13 yrs.
Western Junior High	†Flora A. Burgess	June 30, 1922	28 yrs., 3 mos.
Western Junior High	Helen C. Jackson	June 30, 1922	Did not accept
Western Junior High	Vernie T. Neily	June 30, 1922	5 yrs., 9 mos.
Western Junior High	James S. Thistle	April 7, 1922	4 yrs., 8 mos.
Western Junior High	Mabel C. Whitaker	April 14, 1922	4 yrs., 8 mos.
Western Junior High	†Clara Taylor	June 30, 1922	51 yrs., 3 mos.
Prescott	Helen V. Hurley	March 24, 1922	7 mos.
Pope	†Lillian Nealley	June 30, 1922	39 yrs., 9 mos.
Edgerly	Ella P. McLeod	*May 3, 1922	33 yrs., 6 mos.
Proctor	Ruth S. Coldwell	June 30, 1922	8 mos.
Cutler	Edith M. Thornquist	June 30, 1922	15 yrs., 9 mos.
Lowe	Martha A. Jencks	*March 10, 1922	23 yrs., 6 mos.
Boys' Vocational	Percy A. Brigham	June 30, 1922	2 yrs., 9 mos.
Physical Instructor	Alma Porter	June 30, 1922	4 yrs., 3 mos.
Supervisor School Gardens	William B. Moore	November 4, 1922	3 yrs., 7 mos.

† Retired

* Died

TABLE 21.—TEACHERS ELECTED IN 1922.

School	Teacher	Coming From	Salary	Service Began
High	Phebe R. Boole	Rockland, Mass.	\$1,750	Sept., 1922
High	Ruby W. Davison	New Britain, Ct.	1,600	Dec., 1921
High	Laura W. Lewis	Medford	1,400	Sept., 1922
High	Ruth C. MacDuffie	Somerville	1,400	Sept., 1921
High	Carmen Solano	New York City	1,500	Sept., 1922
High	Ruby F. Sutherland	Milford	1,400	Sept., 1922
High	*Edna C. Woodbury	Somerville	1,300	Nov., 1921
Eastern Jr. High	Doris B. Cresto	"	1,400	Sept., 1919
Eastern Jr. High	Rachel M. Pratt	"	1,400	Sept., 1921
Eastern Jr. High	Katherine M. Quigley	"	1,500	Oct., 1921
Southern Jr. High	Beulah M. Newell	W. Bridgewater	1,200	June, 1922
Northern Jr. High	Helen F. Lyon	Somerville	1,500	Jan., 1922
Western Jr. High	†Walter P. Sweet	"	2,100	Sept., 1919
Western Jr. High	E. Bella Weisman	"	1,300	September, 1921
Western Jr. High	Ruth O. Allen	Rye, N. H.	1,300	September, 1922
Western Jr. High	Helen O. Jackson	"	1,200	Did not accept.
Boys' Vocational	Charles A. Perry	Not teaching	2,100	Sept., 1922
Prescott	Edith C. Polechio	Attleboro	1,500	"
Prescott	Hazel A. Steele	Medford	1,500	"
Bennett	Marie Wiczorek	Revere	1,500	"
Bennett	Eugenia Carver	"	1,400	"
Bennett	Ruth B. Brown	Vinalhaven, Me.	1,200	"
Bennett	Elvira Badaracco	Somerville	1,000	"
Bennett	Sarah L. Wolfe	"	1,000	"
Knapp	Mary E. Keefe	Revere	1,400	"
Knapp	Marguerite G. Stanton	Bedford	1,300	"

Table 21. — (Concluded.) — Teachers Elected in 1922.

School	Teacher	Coming From	Salary	Service Began
Pope	Josephine Lacy	Somerville	1,300	May, 1921
Pope	Margaret V. Lamb	Lynnfield	1,300	Sept., 1922
Egerly	Harriette W. Bridges	Oakland, Cal.	1,500	"
Bingham	Frances E. Fisher	Methuen	1,500	Dec., 1921
Bingham	Helen F. Wiseman	Maynard	1,400	Feb., 1922
Morse	Edna M. Scriven	Somerville	1,000	Sept., 1920
Cutler	Minnie E. Rumley	East Orange, N. J.	1,500	Sept., 1922
Lowe	Selena Wilson	Everett	1,200	Mar., 1922

†Transferred from some other school in Somerville at higher salary.
 * Elected to full time.

Table 22.—Leave of Absence of Teachers

Sarah E. Murphy, from March 1 to the end of the school year.
 June 30, 1922
 Berta M. Burnett, for school year ending June 30, 1923
 M. Edna Merrill, for school year ending June 30, 1923
 Edith L. Hurd, for school year ending June 30, 1923

Cadets.

Barbara E. Brainard	Mildred M. Harkins	Ida Paly
M. Helen Campbell	Alice M. McFarland	Hazel L. Smith
Margaret Burke	Eleanor D. Nemser	Gladys M. H. Sullivan
Mildred Dewire	Mary E. O'Shaughnessy	

Table 23.—Transfers of Teachers.

Teacher	From	To
Helen B. Ryan	Eastern Junior High	Senior High
Rena S. Hezelton	Southern Junior High	Senior High
Clara B. Donlon	Knapp	Eastern Jr. High
Lillias T. Lawton	Non-English Speaking Class	Western Jr. High
Eleanor W. Nolan	Bennett	Edgerly
Nettie L. Fay	Bennett	Proctor
Amy F. Woodbury	Bennett	Sight Saving Class
Walter P. Sweet	Northern Junior	Western Jr.

Table 24.—Number of Teachers.

FOR A SERIES OF YEARS.

YEAR.	High School.	Junior High Schools.	Elementary Schools.	Special Teachers.	Assistants not in Charge of Room.	Contin.	Amer.	Men.	Women	Total.
1912	66†	.....	252*	22	9	.....	.....	40	309	349
1913	68†	.....	257*	28	12	.....	.....	39	326	365
1914	75†	.....	266*	30	20	.....	.....	44	347	391
1915	76†	.....	272*	31	15	.....	.....	45	349	394
1916	77†	.....	290*	30	15	.....	.....	46	366	412
1917	70†	65	238*	33	17	.....	.....	49	374	423
1918	70†	108	207*	28	5	.....	.....	49	369	418
1919	70°	106	207*	26	9	.....	.....	48	370	418
1920	69°	113	212*	23	8	.....	.....	54	371	425
1921	75°	115	216†	25	14	5	2	60	392	452
1922	72†	114	216†	22	16	5	2	57	390	447

†Including a secretary.

*Including four kindergartners.

†Including seven kindergartners.

°Including a secretary and a matron

Table 25.—Books Authorized for Use, 1922.

For High and Junior High schools,—

As Text Books,—

Household Arithmetic, Ball and West—J. B. Lippincott Co.

Elements of Latin, D'Ooge—Ginn & Co.

Second Course in Algebra, Hawkes, Luby, Touton—Ginn & Co.

The Book of Modern Verse, British and American, Forbes—

Henry Holt & Co.

Scientific Typewriting, Depew—Allyn & Bacon

For High School,—

As Text Books,—

Selections from Ovid, Kelsey and Scudder—Allyn & Bacon

For Junior High schools,—

As Text Books,—

Junior High school Mathematics, Three-Book Series, Vosburgh and Gentleman—Macmillan Co.

Vital English, Book 2, Taylor-Morss—F. M. Ambrose Co.

The Junior Song and Chorus Book, Giddings and Newton—Ginn & Co.

For Elementary Schools,—

As Text Books,—

Aldine Speller, Parts One, Two, Three, and Manual for Teachers, Bryce and Sherman—Newson & Co.

Eleanor Smith Music Course, Book I—American Book Co.

As Supplementary Readers,—

A Day in a Colonial Home, Prescott—Marshall Jones Co.

For.....Evening High School,—

As Text Books,—

The Business Man's English, Bartholomew and Hurlburt—Macmillan Co.

Table 26—HIGH SCHOOL GRADUATION

The graduation exercises of the High School occurred Thursday, June 15, 1922.

ORDER OF EXERCISES

HERBERT CHOLERTON, Chairman of the School
Committee, Presiding.

1. OVERTURE—"Sarabande" Bohm
High School Orchestra, Lawrence L. Daggett, Leader
2. SINGING—
"And the Glory of the Lord" (Messiah).....Handel
Graduating Class
3. PRAYER—Rev. William H. Dyas
Pastor, Grace Baptist Church
4. SINGING—"The Lost Chord"Sullivan
Boys' Chorus

ORDER OF EXERCISES

Continued.

5. ADDRESS TO GRADUATES
 Hon. Channing H. Cox
 Governor of Massachusetts
6. SINGING—"The Miller's Wooing"Faning
 Graduating Class
7. PRESENTATION OF DIPLOMAS TO GIRLS
8. "VALSE LENTE"Coerne
 Orchestra
9. PRESENTATION OF DIPLOMAS TO BOYS
10. POSTLUDE—"Marche Lorraine"Ganne
 Orchestra

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

SOMERVILLE HIGH SCHOOL

LIST OF GRADUATES

June, 1922

*Graduated with honor.

Lois Augusta Abells	Gladys Edna Dick
Isabel Josephine Ahern	Irene Elizabeth Dingwell
Hilda Margaret Aikins	*Marian Louise Dodge
Elizabeth Jean Allen	Mary Edwina Doheney
Mary Christina Andersen	Helen Nora Dolan
Ruth Evelyn Anderson	*Margaret Anna Donahue
Lillian Andrews	Helen Theresa Donovan
Elizabeth Merie Armstrong	Alice Elizabeth Doris
*Elizabeth Carter Ashton	Jane Ann Doyle
Edith Sara Babino	Ruth Marie Drew
Aileen Elizabeth Backus	Rosamond Lillian Duffey
*Iva Rogers Baker	Marguerite Catherine Duffy
Mary Carmelita Barden	Alice Wentworth Dunlap
Goldie Emma Barton	Gwendolyn Dunn
Mary Agnes Beaver	Ethel Louise Dunne
Eleanor Beedle	Marion Gertrude Dunning
Florence Josephine Bellizia	Ellen Inez Durgin
*Angelina Berman	Edna Frances Durning
Bessie Anna Berman	Ruth Dyas
*Elsie Bertelsen	Doris Marjorie Edgar
Rena Ersilla Bertucci	Edna Mae Ederly
Helen Beatrice Bingham	Mildred Esther Burleigh
Irene Albena Birchdale	Rachel Evangeline Burns
Alice Lucinda Blake	Hazel May Burton
Irene Evelyn Borges	Isabelle Beatrice Calderoni
*Mildred Louise Bradshaw	Irene Marie Callahan
Helen Claire Bratton	*Ada Anna Calzolari
Ethel Catherine Brennan	Doris Dillingham Cameron
Gladys Mills Briggs	Marion Anna Cannon
Ida Bronstein	Edith Putnam Carleton
Mary Bryson Brown	Alice Violet Carlson
Olive Agnes Buckley	Eleanor Brown Casey
Esther Burke	Evelyn Marie Casey
Florence Edna Crowe	Jennie Mable Casey
Mary Esther Crowley	Frances Josephine Catanzano
Leila Alice Cuneo	Marion Louise Chapin
*Helen Cunningham	Florence Louise Clark
Mabel Elizabeth Cutler	*Frances Clark
Ruth Alchorn Cutler	Anna Marie Clifford
*Marie Burnett Damery	Veneta Maud Clouther
Natalie Davis	Ruth Eleanor Coakley
Emily Atkins Day	Margaret Bernadette Coleman
Mildred Viola Dearborn	Bertina Morona Congdon
Olivia Mae Dearborn	Elizabeth Mae Conley
Doris Mary Delany	Marguerite Connolly
Mary Beulah DeMita	Bertha Margaret Connor
Frances Emma Dempsey	Lauretta Agnes Connors
Mary Antonia Desmond	Dorothy May Conrad
Marion Lucille DeWitt	Anna Luella Cook
Mary Lenore Diamond	Esther Mary Corcoran

- Dorothy Helen Cowan
 Catherine Gertrude Coyne
 Dorothea Crosby
 Paula Quintard Crosby
 Sarah Ellison
 Edith Emery
 Grace Teske Engelhardt
 Doris Louise Englund
 Marion Gladys Erb
 Elsie Louise Estabrook
 Irma Celeste Farrington
 Doris May Ferguson
 Janet Alexander Field
 Frances Anne Filippone
 Eva Fishlin
 Loretto Anita Flanagan
 Maude Waddell Flanagan
 Lillian Florence Flinn
 Anna Margaret Flynn
 Grace Frances Fogarty
 Mary Eva Fontana
 Olive Whitney Frazee
 Laura May Freeman
 Gladys French
 *Mildred Ever French
 Grace Howard Fuller
 Ina May Gassett
 Eleanor Packer Geer
 Apolline Gelinus
 *Lois Pearl Gibson
 Annie Gilman
 Hazel Davis Gilmore
 Arline Girard
 *Dorothy Stockwell Glazier
 Marion Winona Goff
 Dorothy Gordon
 Dorothy Gordon
 Marion Eva Gore
 Orrie Belle Grant
 Honora Marie Grattan
 June Augusta Gray
 Adelaide Greene
 Louise Jeanette Gullion
 *Mildred Edith Gunning
 Natalie Cecile Hailwood
 Muriel Gladys Hale
 Helen Elizabeth Hamilton
 Florence Gilmore Hanna
 Josephine Louise Harer
 *Edith May Harmon
 Helen Gertrude Hatchett
 Nora Louise Havican
 Paula Dorothy Heald
 Katherine Elizabeth Henchey
 Marian Juliet Hesse
 Lillian Margaret Hill
 Elsie Ruth Hill
 Alice Mary Hodgkins
 Urana Belle Hogle
 *Olive Elizabeth Holmes
 Helen Gertrude Hoole
 Agnes Marcella Horne
 Helen Jane Howard
 Marjorie Estelle Howard
 Florence Marie Hubert
 Inez Blaisdell Hunter
 Marjorie Alice Hurford
 Ruth Marie Hurwitz
 Doris Marie Irwin
 Mildred Josephine Ivaska
 Lillian Frances Jaques
 Axelina Victoria Johanson
 Genevieve Elizabeth Johnson
 Irene Elizabeth Johnson
 Ruth Miriam Johnson
 Dorothy Andrews Jones
 Edith Hamilton Jones
 Thelma Anna Jones
 Haru Alice Kamemori
 Victoria Ann Kavooghian
 Florence Olive MacFadyen
 Lois Evelyn MacFadyen
 Catherine MacKenzie
 Laura Ruth MacKenzie
 Josephine Elizabeth MacLellan
 Mildred Louise MacPhee
 Anna Matilda Magnusson
 Ruth Jessie Matilda Main
 Mary Louise Malvey
 Bernice Anastatia Manley
 Helen Catharine Marshall
 Elinor Pendleton Martin
 Helen Winifred Martin
 Lydia Clementina Marvin
 Ida Dorothy Mauch
 Kathleen Comey McCabe
 Mary Agnes McCann
 Edith Marie McCarthy
 Theresa Anna McCarthy
 Myrtle May McCloud
 Dorothy Beryl McConnell
 Helen Elizabeth McDermott
 Gertrude Louise McGlinchy
 Florence Elizabeth McGoldrick
 Margaret Regina McGoldrick
 Alice Loretta McGrath
 Margaret Louise McKenna
 Muriel Marie McKinnon
 Mary Electa McLain
 Mary Rose McLaughlin
 *Barbara Cushing McCloud
 Mary Agnes McNamara
 *Margaret Mary McSweeney
 Katherine Columba Meskill
 Alice Sanborn Meyer
 Mary Harriette Milano

- Anna Frances Miller
 *Isabel Marie Miller
 *Magdaline Louise Miller
 Anna Emeline Keating
 Roma Blanche Keddy
 Helen Margaret Keefe
 Mildred Warner Keith
 Catherine Constance Kelleher
 Josephine Agatha Kelly
 *Ruth Anna Kelter
 Dorothy Carolyn Kennedy
 Grace Edith Kennedy
 Marie Elizabeth Kenney
 Marie Patricia Kenney
 Lillian Kerner
 Annie Irena Kimball
 Mary Cecilia King
 Adelaide Wheeler Kinney
 Elsie Lovering Knox
 Kathryn Marcella Knox
 Dorothea Winnifred Kopf
 Carolyn Ambrose Kyte
 Leah Murrta Lally
 Angelina Anna Lamborghini
 Helen Agnes Lane
 Edith Elvira Larsson
 Ruth Elizabeth Leavitt
 Hanna Lebovich
 Grace Dorothy Lee
 Bertha Mary Lewis
 *Helen Catherine Lewis
 Mary Louise Lewis
 Helena Rich Lincoln
 *Helen Louise Linderholm
 Ella Margaret Linehan
 Marion Pearl Linfield
 Edith Regina W. Lofgren
 Alice Gertrude Lombard
 *Alice Lynd
 Mary Frances Lyon
 Marion Louise Lyons
 *Mildred Louise Milliken
 Myrtle Irene Minzner
 Sarah Esther Moody
 Doris Valentine Moore
 *Edith Constance Moore
 Edith Louise Moore
 Eleanor Mae Moore
 Kathryn Hazel Morgan
 Kathryn Marie Motherway
 Gladys Lillian Murley
 Alice Margaret Murphy
 Frances Hazel Murphy
 Frances Margaret Murphy
 Lucy Elizabeth Murphy
 *Margaret Florence Murray
 Anna Gertrude Naiman
 Lillian Veronica Nangle
 Sadye Betty Needel
 Ina Genevieve Nevins
 Elizabeth Ann Newton
 *Mildred Eleanor Nickerson
 Irene Caroline Nilson
 Eleanor Mae Ninde
 Agnes Margaret Norton
 *Elvira Frances Notaro
 Mary Patricia O'Brien
 Catherine Rose O'Lalor
 Anna Theresa O'Leary
 Helen Gertrude O'Laughlin
 Evelyn Smith Osgood
 Mary Lillian Palmer
 Bernice Frances Parker
 *Marjorie Weston Parker
 Genevieve Howard Peak
 Esther Louise Peakes
 *Vera Lucille Pearson
 Josephine PenDell
 Mary Elizabeth Pendleton
 Lila Gladys Perry
 Ethel Estelle Phillips
 Gertrude Clara Phillips
 Marion Arline Phillips
 *Mildred Alice Pickernell
 Elizabeth Brown Pike
 Inez Vivian Plummer
 *Margaret Mary Pomphrett
 Agnes Mildred Powell
 Irene Emma Powell
 Margaret Teresa Powers
 Frances Beatrice Preble
 Helen Melba Price
 *Alice Whittemore Pride
 Dorothy Frances Purnell
 Hazel Mae Ralston
 Anne Claire Reardon
 Ethel Rosamond Ricker
 Martha Kingsbury Risdon
 Marjorie Loretta Robinson
 Helen Frances Rodwell
 Julia Agnes Ronan
 Mary Olive Rood
 Jennette Rouffa
 Margaret Eileen Rush
 Alice Charlotte Russell
 Madeline Dorothy Ryan
 Margaret Honora Ryan
 Lucia Mendall Ryder
 Mary Louise Sadlier
 Nellie Catherine Sadlier
 Elsie Esther Sandberg
 Olive Dorothy Savary
 Mary Alice Scanlan
 Agnes Lyell Schutte
 Esther DeLyon Scott
 Olive Sears

- Mary Alice Sliney
 Edith Hazel Small
 Katherine Mary Smith
 Ruth Smith
 *Arline Snow
 *Georgiana Spencer
 Fanny Spivack
 Dorothy May Sprague
 Mabel Christine Starck
 Evelyn Gage Stern
 *Helen Frances Stevens
 Edena Leola Strout
 Anna Veronica Sullivan
 *Frances Elizabeth Symonds
 Edith Taylor
 Florence Mary A. Terozowski
 Grace Louise Thompson
 Anastasia Thornton
 *Marion Evelyn Todd
 Gertrude Helena Tracey
 Marjorie Mae Trask
 Ruth Greenwell Truesdale
 Evelyn Agnes Turnbull
 Virginia Emery Twitchell
 Sada May Tyler
 Olive Mitchell Upton
 Edna May Walker
 Ethel Gladys Walker
 Catherine Ann Walsh
 Harriet Holmes Walton
 Dorothy Mae Weeks
 Ruth Weinberger
 Gladys May Wellington
 Doris Hulda Westlund
 Mildred Louise Westlund
 Annie Agnes Whalen
 Vera Hawthorne Whitman
 Corinne Ray Wiggin
 Catherine Elizabeth Wiggins
 Florence Wilbur
 *Florence Evelyn Wilkins
 Dorothy Williams
 Gladys Edna Williams
 Regina Donalene Wilson
 Lillian Emma Witham
 Emily Rebecca Wright
 Mary Elmyra Yavner
 Eleanor May Youlden
 Anna Christine Young
 Doris Rose Young
 Florence Ednah Young
 Florence Elizabeth Young
 Lilla Marion Young
 Louise Augusta Young
 Kathleen Vernetta Zwicker
 Henry Hall Adams
 Paul Flanders Albertini
 Wallace Bruce Alexander
 Bernard Allen
 *George Edward Apel
 Leo Aronson
 Alexander Joseph Austin, Jr.
 Edward John Bacigaiupo
 Samuel Backer
 Bernard LeRoy Bacon
 Chester Thomas Bell
 James Perkins Bird
 Frederick James Blacker
 Maurice Bloom
 John Joseph Bloomer
 *Walter Nelson Breckenridge
 Leonard Chandler Breen
 John Aloysius Brennan
 Joseph Thomas Brennan
 William Robert Bryans
 Edward Buchinsky
 Robert Farrell Buckley
 Chandler Harding Burckes
 Joseph John Caldarone
 Charles Anthony Campbell
 William Joseph Canniff
 Carl Henry Carison
 Clarence Wilhelm Carlson
 Kenneth William Chase
 Herbert Randolph Clark
 James Joseph Cole
 Chester Daniel Connell
 Charles Brewster Conwell
 John Elliott Cox
 Theodore Russell Coyle
 Frank James Crandell
 Ernest Milton Crocker
 William Joseph Crotty
 Archie Warren Crouse
 Daniel Crowley
 Reynold Arthur Currier
 William Clarke Custer
 *Lawrence Luce Daggett
 Marshall Sanger Danforth
 Charles Gordon Daniels
 Charles James Davidson
 Alfred Joseph DePadua
 Russell Kilbourne Dewar
 Arland Augustus Dirlam
 Joseph DiSilva
 Harold Robert Dixon
 Leonard Fitch Dodge
 *Alfred Howland Dolben
 John Edward Doris
 Francis Joseph Downey
 Herbert Arthur Dresser
 John Martin Dunleavy
 Charles Thomas Durgin
 *Alvin Lloyd Earle
 Edwin Earle
 Walter Crocker Ellis

John Henry Ellison
 Ralph Webster Ells
 Albert Chambers Emerson
 Edward Albert Falvey
 Joseph Lawrence Fannon
 James Sinnett Farr
 James Edward Ferris
 Lawrence Edward A. Finnegan
 Sanford Fisher
 John Joseph Flynn
 *Albert Gardner Forbes
 George Leon Forest
 Chester Sullivan Francis
 *Harold Perley Freeman
 Malcolm Reid Fuller
 Richard Kane Gannon
 William Henry Gilliatt
 Israel Goldstein
 Walter Hill Gonia
 Whitman Garton Goodwin
 Gostan Gostanian
 Hugh Haliday Graham
 Ernest Allison Grant
 Donald Curtis Grinnell
 Kenneth Frederick Grinnell
 Joseph Laurence Grue
 Russell Benjamin Grush
 Edward Richardson Hakesley
 Otis Henry Hanslick
 Foster Graves Hardin
 Charles Crockett Harding, Jr.
 Murray Brown Hart
 John William Hassett
 Alf Nore Hedberg
 William Phelan Heffernan
 Carlton Seavey Hicks
 Lincoln Cushing Higgins
 Carroll Scott Hill
 Stephen Joseph Hopkins
 Alfred William Hurwitz
 John Philip Jackson
 Vano John Johnson
 Peter Johnston
 James Henry Keane
 James Everett Keely
 Wentworth Kennard
 Joseph Kernzkoski
 Melvin Crowe King
 Elmir Lewis Littlefield
 Sanford Litwin
 George Alexander Macdonald
 Robert Bruce MacPhail
 Joseph John Manning
 Alvin Clifton Marchant
 James Lawrence Marmaud
 Edwin Lindsay Marston
 Edward Albert Martin
 *Willard Edgar Martin, Jr.
 Winthrop Reynolds Martin
 Norman Albert Matheson
 Justin David McCarthy
 Paul Leonard McCarthy
 William Timothy McCarthy
 Charles Francis McElroy
 Donald Charles McGilvray
 Joseph Thomas C. McGlone
 Robert Edward McKelvey
 Stephen Joseph Meaney
 Maurice Mekkelsen
 Clinton Everett Miner
 John Stuart Morris
 David William Morse
 Romeo Joseph Mucci
 Ralph William Murley
 *Harold Joseph Murphy
 John Christopher Murphy
 Charles Gerry Nichols
 Edmund Thomas Norris
 George Edward Novack
 Carl Bracy Nowell
 Maurice Joseph O'Brien
 *Henry Joseph O'Connell, Jr.
 James O'Connell
 *Bernard Vincent O'Connor
 John Joseph O'Connor
 Nishan O'Hanian
 Jeremiah Leonard O'Neill
 John Joseph O'Neill
 Joseph Leo Owens
 Paul Eastman Parker
 Charles Chandler Parkhurst
 Carroll Otto Peacor
 Hilding Richard Pearson
 Leslie Joseph Peters
 Henry Woodman Phillips
 Albert Elliot Pillsbury
 Clifford Francis Pitts
 Herbert Everett Pollack
 James William Powers
 Ronald Channing Prescott
 Herman Price
 Joseph Benedict Purtell
 Harold Charles Quail
 James William Quigley
 Robert David Rauh
 Richard Peabody Reavis
 Harry Edward Rice, Jr.
 Gerald Ring
 Morris Roberts
 Benjamin Robert Robinson
 Charles Robinson
 Walter Vincent Robinson
 Lemuel James Rogers
 Augustus Charles Romani
 Merritt Knowlton Ross
 Homer Austin Rowe

Francis Edward Runey	Martin Harry Tashjian
Carl Evert Sahlin	Charles Baird Teague
Ernest William Sandstrom	Alvin Roy Ticehurst
Joseph Arthur Scully	Samuel Tick
*Robert Austin Shea	*Frank Martin Towle
Alfred Elton Sibley	Joseph John Tremblay
Louis Siegel	Donald Byron Tribe
Frederick Burge Simmons	Francis Lynwood Tribou
Edwin Warren Spear	Aldus Stone Trowbridge
Edward Francis Spering, Jr.	Warren Tutein
Herbert Bailey Sprague	Raymond Henry Wallace
Arthur Edward Stack	*Arthur Edward Watkins, Jr.
Irving Leo Stackpole	Irving Dearborn Wells
Wilbur Gardiner Stanley	Irving George Wessman
*Robert Nichols Stevens	Chester Glover Whyte
James Salisbury Stewart	Stuart Allan Wickerson
Williston Finlay Stodder	Austin Horatio Wilkins
Roy Alfred Strobeck	Malcolm Clement Wilkins
George Alvin Strom	Daniel Francis Williams
Daniel Francis Sullivan	Ernest Herbert Wilson
Arthur Sigvard Swenson	Kenneth Ingersoll Wilson
Robert Warren Sylvester	Richard Trenholm Wilson
Henry Allen Tadgell	Kenneth John Wolf
Charles Stuart Tarbell	Arthur Wellington Woodworth
Thomas Joseph Tarpey	Levon Mardrois Yacubian

Total number of graduates, 613; Boys, 227; Girls, 386.

Junior High School graduations occurred in the school buildings on June 20, 1922.

LIST OF GRADUATES

Eastern.

Marguerite B. Abbott	Walter W. Dunn
Edith Craig Allison	Mary A. Durant
John E. Amlaw	Ruth Elizabeth Farrell
Leroy A. Anderson	Charles Feink
Helen May Arnold	Ella W. Fisher
Mildred Allan Ayers	Louis Fisher
Robert H. Arnold	Alice B. Fitzgerald
Alberta R. Babcock	James W. Flanagan
Ciscely O. Barnes	Catherine C. Ford
John A. Bellamacina	Hilda E. Forsyth
Haskell C. Billings	Catherine Josephine Fortune
Eleanor Teasdale Binford	Mary Veronica Fraser
Christine Agnes Black	James Joseph Galvin, Jr.
Vera G. Blakeney	Eleanor May Gay
John Blanche	Alberta Getchell
Edward Blumsack	Philomena Mary Gianettia
Emma Malverne Boardman	Gerald M. Gipple
Josephine Bonanno	Edmund Francis Giroux
Geraldine M. Bowen	Celia Goldstein
Frederick W. Brown	Esther Helena Gostanian
John Joseph Brady	Louise Elizabeth Goulette
Clifton R. Campbell	Clara Helen Gray
Harris R. Bullerwell	Minnie Greenberg
Marvin O. Campbell	C. Lester Gregor
Mary Agnes Burns	Mina U. Haas
Jennie Pauline Canniff	William Hanlon
Mabel Louise Chapman	Alice May Hamilton
Mary Susie Capobianco	Sarah E. Harrington
Brooks E. Carpenter	Walter M. Harrington
Joseph Albert Chartrand	Daniel F. Henchey
Ruth Emily Chambers	Sarah Theodora Holmes
Earl Clouse	Winthrop C. Horton
John Lawrence Collins	Vivian May Hunnewell
Joseph P. Collins	Evelyn Marion Hutchinson
John L. Connolly	George J. Ingalls
George William Cook	Mary E. Jackson
James Edward Cotter	Frances Eleanor Johnson
Ruth Annazetta Covert	Gertrude Alexandria Johnson
Henry Francis Cox	Joanna E. Johnson
John Joseph Cox	Evelyn M. Kinch
Margaret L. Cremins	Harold A. Kirkness
Frederick W. Crimins	Dorothy Edith Knox
Albert F. Daley	Jacob Kowetz
Lillian M. Dacey	Angelina Louise Langone
Maud Annie A. Daley	Roscoe C. Larkin
Roger Lawrence DaPrato	Teresa M. LaTerza
Esther Elizabeth Davis	Myra A. Lawson
Harry Dickson	Edwin F. Leary
Ruth R. Dickson	Francis Leo Leary
Evelyn Dill	Harry Lebovich

Elsie K. Leslie
 Dorothy Alice Lee
 Howard A. Lincoln
 Alice Margaret Legere
 Helen Rose Linnehan
 John A. Lowney
 Margaret Frances Lynch
 Alfred J. Lyons
 Margaret R. McGahan
 Roland O. MacNuge
 Katherine Agnes McGrath
 Walter L. McKillop
 Arthur F. McMahan
 John Thomas Mahoney
 Isabel A. McMullen
 Alma E. Maxfield
 Christopher Leo Manley
 Grace K. Manning
 Ralph J. Mattola
 Audrey Sargent Merrow
 Charles J. Miers
 Inez M. Milano
 Keelan S. Milbury
 Hugh J. Montague
 Thomas J. Montague
 Edmund G. Moriarty
 Herbert Morrill
 Esther Charlotte Nelson
 Sara M. Nissenbaum
 Ellen Catherine O'Donnell
 John O'Donnell
 Florence M. O'Leary
 Catherine F. O'Neil
 Thomas W. Orpen
 Della Maron Patriquin
 Hazel M. Perry

Ethel D. Peterson
 J. Lawrence Phalan
 Lillian Alice Porter
 Anna M. Powers
 Louis Price
 Lillian Mildred Redmond
 Francis L. Rogers
 Charlotte Dorothea Rosen
 Annie Mary Rossetta
 T. Lewis Rowe
 Helen Dorothy Royal
 Anne Rudge
 Helen Catherine Ryan
 Henry L. Ryan
 John R. Shepherd
 Adeline Marie Sanford
 Helen C. Shea
 Henry J. Skelly
 Francis Joseph Smith
 Gladys Evelyn Snow
 Stanley Stewart
 Isabelle Swarbrick
 Hazel Mae Thomson
 H. Wesley Toothaker
 Clyde M. Tuck
 Viola Irene Turner
 James Edmund Walsh
 John F. Walsh
 Lillian Corrinne Wardell
 David H. Warsowe
 Arthur Joseph Wilson
 Joseph B. Weinberger
 Helen M. White
 Rachel Young
 Joseph Vincent Zambelli

Southern

Grace Lillian Frances Appelfoff
 Alfred F. August
 Ruth Emily Baird
 Alfred Amerigo Baratta
 Alice M. Baratta
 Donald Lawrence Belden
 Hugo George Anthony Bellengi
 Esther Berger
 Dante E. Bertolami
 George Russell Beyer
 Josephine M. Biagione
 Dorothy Margaret Bigelow
 Evelyne M. Blake
 Robert Francis Bloomer
 Alfred C. Brennan
 Albert Francis Bryant, Jr.
 Daniel J. J. Buckley
 Edward George Buckley
 Frances Burgess

Joseph Burke
 Frank Xavier Calandrella
 Frank Xavier Joseph Calandrella
 Cornelius Richard Callahan
 Angelo J. Capone
 Robert James Cardillo
 Julia Agnes Carey
 Joseph Paul Carr
 Dominic Carra
 Ralph Sewell Carvill
 John R. Casey
 Mary Elizabeth Cashman
 Frances Lillian Chandler
 Maude Leone Chandler
 Guido Ciapponi
 William Charles Clancy
 Alice Louise Clark
 Leslie M. Cleaves
 Norman H. Clements

Leona Mae Clifford
 Anna Marie Collins
 Timothy B. Collins
 Thelma Withrow Colwell
 Edward W. Conboy
 Evelyn Dorothy Condon
 Harold Franklin Cooke
 James Joseph Corcoran
 J. Leslie Corrigan
 Thomas W. Cosgrove
 Eugene Leo Courtney
 Marie Paule L. Couturier
 James Patrick Curtin
 Warren Joseph Curtin
 Frank Peter Dagnino
 John F. Dardis
 Irene M. DeBay
 Celia Rose Dempsey
 Mary Edith Desmond
 Antonio Joseph DiGirolamo
 Alice Jennie Dinelli
 Leo Christopher Donahue
 John Joseph Donahue
 James F. Donegan
 Francis X. Donnelly
 William J. Donovan
 Anastasia C. Drinan
 Francis Leo Driscoll
 Francis Joseph Duffy
 Edward Edwards, Jr.
 Thurston H. Edwards
 Arthur W. Eklof
 Theodora Anna Eldredge
 John Joseph Enos
 Gunhild A. Erlandson
 Ivan E. Fales
 Mary Fecas
 Margaret Agnes Feeley
 Rose Veronica Feeley
 Roy Joseph Ferretti
 Anna Fishlin
 Eileen A. Foley
 Mary E. Forrest
 Stanley H. Foskett
 Myrtle Viola Fralick
 Albert William Francis Fuchs
 Obelina Helen Gallant
 Mary Theresa Gately
 John Gaudet
 Irene Gilliatt
 Annette Dorothy Glazer
 Frances Goldenberg
 Sadie Lillian Goldstein
 William Gardiner Goss
 Mario Govoni
 Harlan F. Grant
 Evelyn Phyllis Grant
 George R. Greene
 John Arthur Grieneeks
 Thomas Alexander Griffin
 Charles V. Grue
 Alice E. Guazzaloca
 Thomas William Guilderson
 Mabel June Gunning
 Marie Adelaide Harney
 Gertrude Viola Havican
 Emily F. Haviland
 Ashley C. Hedberg
 James Francis Hogan
 Alice L. Holland
 Hazel Agnes Holland
 Mary Helen Holloran
 John Wilfred Holmes
 Carl C. Howard
 Joseph R. Howard
 Edith Caroline Howell
 E. Ruth Howell
 Albert Edward Irving
 Helen Josephine Joyce
 Joseph M. Kelleher
 William Joseph Kelleher
 George Francis Kelley
 Charles F. Kelly
 Thomas Joseph Kennedy, Jr.
 Catherine Constance Kenney
 George J. Kerrigan
 Anna Elizabeth Kiley
 Nino O. Kiilam
 John Kingston
 Fannie Mary Klayman
 Thomas A. Koen
 Louis Kratman
 William Kratman
 Richard George John Landini
 Josephine Catherine Lanigan
 James Joseph Leahy
 Jessie Margaret Leahy
 Margaret V. Lee
 George A. Lenzi
 Ruth E. Lerman
 Diulinda L. Linhares
 Florence Louise Lloyd
 James Carter MacDonald
 Ida MacDougall
 Orpha MacFadyen
 Elizabeth Agnes MacIver
 Isabella Leslie MacKenzie
 Sara Adaline Magwood
 Francis A. Malsbenden
 Antonio Mancini
 Francesca Mannino
 Edgar Arthur Marble
 Edith Mary Marvin
 Albert F. McAuliffe
 Kathryn A. McAuley
 George Thomas McAvoy

Mary E. McAvoy	Anne Virginia Quinn
Edna Myrtle McCarthy	Lillian A. Ranaghan
Mary Edna McCully	Arthur L. Reidy
Hugh McCusker	Edith Aileene Ring
Mary Veronica McDermott	Agnes Rita Roche
Katherine Eleanor McGann	Dorothy Ada Ross
Margaret V. McKay	John Rossetti
Charles Hugh McKinnon	Joseph Vincenzo Ruccio
Mary McNamara	Philip Lowry Rusden
Winifred R. McNamara	Ronald Francis Russell
John Francis McSweeney	George McKenna Ryan
Claire McTiernan	Guy Joseph Salani
Earle Howe Melville	Osgood William Lorimer Sargeant
Robert Arthur Mercer	Constance Beatrice Sargent
Josephine A. Mercia	Sarkis Sarkesian
Louisa D. Meyer	Ronald W. Savage
Olive Beatrice Miller	Julia Rose Savani
James D. Mohan	Bernard William Savilonis
Albert W. Molan	Mabel Irene Sawyer
Marguerite M. Mollet	Francis Vincent Scanlan
Charlotte Louise Moody	William M. Scanlon
Margaret M. Morgan	Mary Ruth Schofield
Jeannie Elizabeth Morrison	Helen C. Sherman
Thomas Redmond Francis Mullins	Rosalyne Silbert
Walter H. Munroe	William David Sliney
James Francis Murphy	John Robert Smith
John J. Murphy	Blanche Gertrude Spooner
Gerald J. Murphy	Ruth Evelyn Sprague
Helene Elizabeth Murphy	Lilly Marie Stromme
H. Joseph Murphy	Edmund M. Stymeist
Henry F. Murphy	Agnes Julia Sullivan
Loretta H. Murray	Porter Eugene Swan
Lillian Z. Naiman	Martin John Tashjian
George Neville	Fortunata J. Testa
Cornelius Francis Noonan	Mary T. Thomas
Thomas P. Noone	Edna Louise Thompson
James J. O'Brien	Ella Virginia Thornton
Patrick F. O'Brien	Harold Nesbitt Thornton
Edith E. O'Connor	George Edward Toomey
Joseph A. O'Connor	Eric Arthur Trask
Helen Mary O'Malley	Gertrude Mary Travers
Lillian May O'Neil	Alice Jeannette Underwood
Henry C. Panzer	George Roger Van Iderstine
Aaron Franklin Parsons	Florence E. Van Ummersen
Clarabelle Payne	Frank X. Veneri
William John Peebalg	Lillian E. Vergnani
Mary E. Pendergast	Matthew M. Vitiello
William James Pero	Cecilia Viveiros
Lally Pirani	Helen Louise Vorce
John L. Perkins	Harold James Wallace
May C. Perron	Mildred Watts
Mary Perry	Charles E. Weeden
Charles Francis Pollard	Walter Wardwell Weeden
Frances Ellen Pomphrett	John J. Whealen
Margaret Rosemary Puppo	Edna May White
Daniel Joseph Purtell	Muriel Gertrude Wilcox
Cornelius Francis Quinlan	Laura Gertrude Williams
William Joseph Quinlan	Belvin Franklin Williston

Leslie Franklin Winchenbaugh, Jr. Bertha M. Wood
 Helen Gladys Winchester Edith Winifred Wood
 Edward Lowell Wisewell, Jr. Lucy Mary Zammarchi

Northern

George William Alexander	Anthony Filippone
Albert Amadei	Josephine Arelia Finneran
Wendell Frederick Anderson	Ruth M. Finin
Dorothy Aronson	Esther Marion Fisher
Ida Mary Bagni	Chester Gordon Fitzgerald
Henry C. Barr	Warren Joseph Foley
Elizabeth Frances Bean	Howard W. Foss
Sylvia Emlee Bellizia	Virginia L. Foss
Henry William Bergin	Hazelle Foster
George William Bielis	Anna Mary Friel
Arthur Michael Boland	Guy E. Gage
Vivian Frances Bond	John H. Gage
Kathrynn F. Badford	Rosemary Gallagher
Marjorie Brown	Primo S. Galleni
Ruth Evelyn Brown	Helen Beatrice Galvin
Irene Frances Bullock	John A. Garland
Edith Catharine Burke	Rena Evelyn Gattoni
Francis Edward Burke	Mary J. Gaudette
Tasia Sara Caffanges	Myron C. Gerrish
Muriel Gladys Callow	Charles Patrick Gillespie
Robert Harold Cammick	Marion Christina Givan
Ina E. Cannon	Ethel Lillian Gonia
Arthur Carlson	Eileen Margaret Goode
Katherine Belle Carter	Leo Joseph Gormley
Roy Martin Cheney	Kenneth R. Graham
Gladys Arlene Coe	Ruth M. Graham
Joseph Coit	Alton Perley Greene
Evelyn Mary Coit	Ruth Greenleaf
Chester Harold Colburn	George William Griffis
Cornelius Corcoran	Elizabeth Hall
Lillian M. B. Corrieri	Elizabeth Jeanette Hall
George Vincent Cox	Erwyn Henry Harriman
Clarence Charles Crocker	Josephine M. Heafey
Marjorie Cross	George Joseph Hebert
Nora Mae Crowley	Catherine G. Heiser
Doris A. Cummings	Helen Beatrice Henchey
Louise Dalio	Robert Arnold Hight
Jane C. Day	Austin Winchester Holmes
Dorothy A. Delouchery	Dorothy Martha Holmes
Gabriel Harry Del Rossi	Christena Irvine Hunter
Elizabeth F. Dennehy	John W. Irving
Frederick E. Dodge	John Johnston
James Joseph Doherty	Helen Eleanor Johnson
Lovina Eleanor Donegan	Frank Leon Jones
Mary Louise Donovan	Melbourne Ralph Jones
Emily Catherine Dugan	James G. Kane
Mary Eleanor Duggan	William J. Kane
William Douglas Ekstrom	James Arthur Keefe
Arthur Faberman	John Joseph Keefe
Ruth Geraldine Farrar	Norman E. Keene
Thelma Jewel Ferguson	Arthur N. Kelliher
Gordon Hubert Field	Natalie Bonsalle King

Margaret Emily Kingston
 Sara Louise Kinneen
 Marion Lamb Knight
 Annie R. Krant
 Gertrude Annabell Lamb
 Concetta Frances Lauro
 Jennie Dorothea Lauro
 Franklin R. Leavitt
 Alice Lees
 Gertrude Levine
 Ruth Azalia Libby
 Frances Marion Lilly
 Etta Dorothy Lima
 Michael James Lodico
 Laurence Edward Lovering
 Fenton Matthew Lyons
 Flora Mary MacQuarrie
 Edmund Joseph Mahony
Beatrice Ethelyn Mann
Mary V. Marotta
 Charles George Martignetti
 Frank Achille Martignette
 Anna Teresa Martin
 William Massello
 Kathleen R. McAteer
 Margaret Mary McCarthy
 Mildred McCarthy
 Ruth McCarthy
 Catherine McCormack
 Mary J. McKane
 Daniel K. McKinnon
 Mary Velma McKinnon
 Ellen T. McSweeney
 Anna C. Meaney
 Louis Mellor
 Gertrude Elise Millett
 Anna V. Mocogni
Mary Elizabeth Morrissey
 Elaine Ruby Morse
 James Francis Mulligan
 Evelyn Mary Murphy
 Gertrude Gwendolyn Murphy
 William John Newton
 Mildred Alice Nugent
 Geraldine F. O'Brien
 William F. O'Donnell
 Anna E. O'Lalor
 Doris May Osborne
 William H. Parker, Jr.
 Winifred Jean Pember
 Frances Louise Phillips
 Viola Bernice Phillips
 Alfred Edward Plude
 Harry Marshall Prescott
 Ernest Richard Priebe
 Ira A. Prime
 John Edward Pynn
 Burgess Parker Reed
 James Luther Reid
 William Francis Repetto
 Margaret Mary Reppucci
 Mildred C. Rideout
 Albertina Rose Rigali
 June Marie Rogers
 Florence Rose
 Sara Mayvilla Ruffino
 Harry G. Russell
 Frank Russo
 Alice Rose Ryan
 Everett J. A. Ryan
 Ruth M. Sanderson
 Ruth Dearborn Schofield
 Edson Vinton Sears
 Margaret Elizabeth Shea
 Raymond James Shea
 Ruth E. Slotnick
 William Elliott Small
 Helen G. Smith
 Catherine Florence Sonia
 Lillian Rita Sousa
 Edith Gertrude Sykes
 Raymond L. Taylor
Jean M. Thomson
 Grace Eloise Thornton
 John Henry Tomfohrde
 Adelia Belle Voss
 Mary Gertrude Walsh
 Helen Hay Wattie
 Ruth Catherine Wattie
 Esther Preble Way
 Mabel M. Westlund
 George Steuart Whitcomb
Mabel Moulton White
 Henry Ambrose Williamson
 Floris H. Woolner
 Nelson Wright
 Gladys P. Young

Western

Charles Q. Adams
 Regis Margaret Ahern
 Dorcas M. Ames
 Charles Theodore Anderson
 Ruth Elizabeth Anderson
 Phyllis Ardelle Applin
 Louisa Yolanda Arzillo
 Mildred Claire Atkinson
 Mary Elizabeth Attridge
 Violette C. Babcock
 Archie G. Barron
 John Francis Bartlett

Evelyn N. Bassett
 Hazel May Bearce
 Phyllis W. Beatty
 Francis Leonard Beaver
 Dorothy E. Bedighian
 Forrest Theodore Benton, Jr.
 Evelyn Marie Berry
 Vera Elizabeth Berry
 George Herbert Birtwell
 John Blamire
 Doris H. Booth
 Mabel Frances Bond
 Beatrice L. Boudreau
 Gretchen A. Bowers
 L. Raymond Bowlby
 Mabel C. Breen
 Paul Larkin Broderick
 Alice H. Brooks
 Philip Thomas Buchert
 Florence Louise Burk
 Harry G. Burnett
 Anna M. Burns
 Marion Lovell Burrell
 Frances Catherine Burton
 Clara Phyllis Butterfield
 George Chester Byam
 Albert Francis Byrnes
 Earl Francis Cahalan
 Elëna Calamara
 Mary K. Callahan
 Thelma G. Calkin
 Blanche Mae Canavan
 Margaret Ellen Canney
 Bertha Marie Carlson
 Erma Muriel Carman
 Joseph Francis Carnes
 Lucile E. Carpenter
 Phyllis F. Capodanno
Louis William Chicarello
 Helena S. Chittenden
 Edward Wallace Clark
 W. Lewis Clark
 Muriel Helen Clark
 Ruth Alma Clements
 Frances M. Coates
 Gertrude Elizabeth Condon
 Robert P. Coffey
 Isabelle M. Colletti
 Chester James Collins
 Emma Copithorne
 Alfred John Corbett
 David Gordon Crockett
 Ainslie M. Crooks
 Margaret Crowley
 Irene Y. Cummings
Gladys L. Danforth
 Elmer Norman Daniels
 George S. Dawson
 Harvey P. Davis
 Frances Marie Decost
 Doris Derusha
 Viola May Dibblee
 Gertrude Anna Dinan
 Wendell Joseph Dion
 Ralph Gilbert Ditmars
 James Robert Dobson
 Warren Hughs Dolben
 Agnes Mary Donahue
 James Arthur Donovan
 Helen Gertrude Doucet
 Louise Agnes Downes
 Eleanor B. Drew
 Milton Haggett Duclos
 Thomas Bartlett Dudley
 Grace Louise Dunning
 Joseph L. Dwyer
 Elisabeth Dorothea Easton
 Margaret Eggleston
 Eleanor Etta Ellis
 Frank Mason Elwell
 Doris Emery
 Muriel Estes
 Helen L. Farnam
 Hazel Felt
 Charles Joseph Finn
 Charles Albert Finney
 Eleanor M. Flemming
 Walter H. Flett
 Ernest Henry Flint
 Margaret Frances Ford
 Winnifred Marie Ford
 Mary Elizabeth Foster
 Shirley T. Foster
 Florence Alice Fowler
 Donald Lamprey Fraser
 Dorothy Evelyn Freeman
 Vernon B. Fuller
 Sherwood Edward Fuller
 Grace Frances Gaffney
 Russell E. Gaskill
 Dorothy Geraghty
 William Joseph Goguen
 Jeanette Goodman
 Charles Andrew Goodwin
 Curtis Edmond Goodwin
 Dorothy Grant
 Grace Janet Grant
Hugo Alexander Greco
 Leslie Hammond Griffin
 Elizabeth S. J. Gurney
 Theodore Denteth Hale
 Frederick H. Hanna
 Eleanor Harmon
 Frederick Tapley Hawes
 Dorothea M. Hayes
Kathryn Elder Heater

Hope Laurence Heiser
 Gladys Wilhelmina Herderhurst
 Eugene Edmund Herlihy
 Lawrence Stewart Hesse
 Vera Hilberg
 Edith H. Hilton
 Margaret Holden
 Thomas J. Horne
 Doris Houghton
 Daniel P. Hurley
 Ruth Agnes Hussey
 Clarence Frazer Ingalls
 Arthur H. Jacobsen
 Frances Elizabeth Jardine
 Gertrude Martha Jaycock
 Charles E. Jellison
 Edmund I. Jellison
 Anna Lucy Jodice
 Arshaloos Johnian
 Estelle May Jones
 Harold F. Jones
 William R. Keeley
 A. Aileen Keith
 Eleanor Marie Kelliher
 Mary Agnes Kelley
 Walter Coe Kelley
 James Lewis Kenney
 Beatrice Minerva Kenny
 Edward Kehew, Jr.
 Pauline King
 Walter King
 Leah F. Kingman
 Francis A. Kingston
Charles H. Koechling
 Dorothy Johnson Lane
 John B. Latoraca
 Nora Theresa Lawless
 Mildred A. Leslie
 Tobias Levinson
 Adele Levy
 James W. Libby
 Gracie Naomi Lingley
 Evangeline Lippincott
 Veda Elizabeth Lohnes
 Elsa H. Lundstrom
 Blanche M. Lord
 Arthur T. Luedtke
 Edward James MacClane
 Lloyd MacGillivray
 Donald A. MacKay
 Esther Graham MacKenzie
 Annie C. MacKinnon
 Mary Gertrude Maguire
 Alice Marguerite Malcolm
 Charles Frederick Manning
 Elizabeth Muriel Martin
 Freda Kathleen Mathews
 Elinore Lyon Mattern
 Albert Henry May
 Lawrence J. McCahey
 Henry Joseph McCarthy
 James Edward McGowan
 William Alfred McGray
 Katherine Leslie McKown
 Russell W. McKinley
 Ainslee L. McPhail
 Edith C. McPhail
 Leo M. McSweeney
 Hilton F. Mears
 Harry L. Meltzer
 Alice S. Melville
 Zoraida Meyrelles
 Stanley Forsyth Miller
 Mabelle G. Mitchell
 Margaret Eleanor Moran
 Irving F. Moulton, Jr.
Aram K. Movsessian
 Inga Ellenore Muchere
 John Francis Murley
 Catherine Rita Murphy
 Lillian Elizabeth Murray
 Stanley F. Murray
 Esther Irene Newcombe
 Edith Catherine Newell
 Philip Aldrich Newton
 Elsa Evelyn Nilson
 Carl A. O'Gren
 Astrid Viola Olson
 Dorothy O'Neill
 Helen Mary Ormond
 William C. Osborn
 Albert William Owens
 Albert James Oxenham
 Eleanor Packard
 John Campbell Patterson, Jr.
 Evelyn Elizabeth Payne
 Howard W. Pearce
 Emily Grace Pearson
 Alice Elizabeth Pearson
 Priscilla L. Pennock
 Gladys Virginia Perkins
 Russell Harding Perry
 Frederick Irving Peters
 Elizabeth Louise Peterson
 Isabel H. Pickard
 Adelaide Amanda Pierce
 Ronald W. Porter
 Leonard E. Preble
 Robert Stanley Pride
 Donald T. Pring
 E. Everett Proudfoot
 John Joseph Quinn
 Thelma Rawding
 Charles L. Reed
 George Artemas Reed
 Dorothy Elizabeth Reilly

Donald L. Remick
Edmund John Repetto
Warren Elsworth Rich
Ethel May Rideout
Alvin A. Robinson
Samuel H. Robinson
Winnifred Mae Roy
Evelyn Gertrude Saunders
Louise M. Scannell
Chester H. Scoyne, Jr.
Raymond W. Searle
Dallas Lillian Seavey
Elizabeth Marie Seckendorf
Ruth Virginia Seckendorf
Joshua Seidman
Marjorie Seymour
Hester Marie Shaw
Anna Connell Sheridan
Frederick O. Sime
Frances Elizabeth Simpson
Melvina Allan Smillie
Frank Pellman Smith
Gertrude May Smith
Lawrence B. Smith
Marguerite Pamela Smith
Walter C. Smith
Warren Daniels Smith
Stanley Fitzson Snell
Mildred B. J. Soderberg
John Edward Stafford
Beulah Carolyn Staples
Ethel Anna Starck

Blanche Sterling
Bartlett H. Stoodley
Gladys Munroe Surles
John Sussenberger
Dean C. Swan, Jr.
John Louis Taapken
Arthur William Thibault
Theodore A. Throensen
Ellen Margaret Thyne
George Joseph Tracey
George William Trask
Marie G. Vladica
Vera L. Wakefield
Herbert Joseph Wallace
Richard Carter Warren
Hazel M. Waugh
Eileen Agnes Whall
Ethel M. White
Ellen Marjorie Whitman
Ruth Evangeline Whitmore
Harriet Gilrie Whittemore
Alice Ola Whittier
Annie H. Wolfe
Alta Florence Wood
Herbert G. Worters
Marguerite R. Worthy
Arthur I. Wright
Doris Janette Young
Edith Catherine Young
Ella Frances Young
Evelyn Elizabeth Zink

TABLE 27.—VOCATIONAL SCHOOL GRADUATES.
Vocational School for Boys.

James J. Burton	Arthur L. Lockhart
William J. Chisholm	William F. Lutz
Silvio J. Fuccione	Rudolf E. Reiss
Philip L. Galley	Francis Scott Whitney

Table 28.— Organization of School Board, 1923.
School Committee.

OSCAR W. CODDING	Chairman
WALTER I. CHAPMAN	Vice-Chairman

Members.

EX-OFFICIIS.

JOHN M. WEBSTER, Mayor	....	. 76 Boston street.
WALDO D. PHELPS, President Board of Aldermen,		64 Flint Street.

WARD ONE.

JULIA A. CROWLEY,		. 34 Pinckney street.
FRANCIS J. FITZPATRICK,		. 2 Austin street.

WARD TWO.

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

WARD THREE.

CHARLES W. BOYER,		. 66 Avon street.
OSCAR W. CODDING,		. 59 Vinal avenue.

WARD FOUR.

KATHERINE C. COVENEY,		. 73 Marshall street
EDWARD I. TRIPP,		. 21 Wigglesworth Street

WARD FIVE.

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

WARD SIX.

WALTER I. CHAPMAN,		. 18-A Central street.
WALTER FRYE TURNER,		. 15 Highland road.

WARD SEVEN.

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

Superintendent of Schools

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue.

Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

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.

Ruth O. Elliott, 4 Lincoln Place.

Beatrice Hersom, 142 Lowell street.

Board Meetings.

January 29.	April 30.	September 24.	December 31.
February 26.	May 28.	October 29.	
March 26.	June 25.	November 26.	

8:15 o'clock.

Standing Committees.

Note.—The member first named is chairman.

District I. — Crowley, Fitzpatrick, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Bradley, Muldoon, Crowley.

KNAPP, PERRY, BAXTER.

District III. — Coddling, Boyer, Bradley.

POPE, CUMMINGS.

District IV. — Coveney, Tripp, Boyer.

EDGERLY, GLINES.

District V. — Stoodley, Miss Turner, Tripp.

FORSTER, BINGHAM, PROCTOR.

District VI. — Turner, Chapman, Miss Turner.

CARR, MORSE, DURELL, BURNS, BROWN.

District VII. — Cholerton, Curtis, Turner.

HIGHLAND, CUTLER, LINCOLN, LOWE.

High Schools — Chairman Cholerton, Bradley, Stoodley, Crowley, Coddling, Coveney, Chapman.

Finance — Chairman Stoodley, Fitzpatrick, Tripp, Muldoon, Coddling, Chapman, Cholerton, Webster, Phelps.

Text Books and Courses of Study — Chairman Chapman, Muldoon, Crowley, Boyer, Coveney, Miss Turner, Curtis.

Industrial Education — Chairman Tripp, Turner, Crowley, Muldoon, Boyer, Miss Turner, Curtis.

School Accommodations — Chairman Boyer, Cholerton, Fitzpatrick, Bradley, Tripp, Stoodley, Turner, Webster, Phelps.

Teachers — Chairman Miss Turner, Chapman, Fitzpatrick, Muldoon, Coddling, Coveney, Cholerton.

Health, Physical Training, and Athletics — Chairman Curtis, Boyer, Fitzpatrick, Bradley, Tripp, Miss Turner, Turner.

Rules and Regulations — Chairman Turner, Crowley, Bradley, Coddling, Coveney, Stoodley, Curtis.

TABLE 29—TEACHERS IN SERVICE, JANUARY, 1923

Name and Residence			
HIGH SCHOOL			
Central Hill		Salary	Began Service
John A. Avery, Head Master, 22 Dartmouth Street		\$4100	1895
Everett W. Tuttle, Vice-Head Master, 62 Highland Avenue		2900	1895
Frank H. Wilkins, Master, 73 Foster Street, Arlington		2700	1906
John L. Hayward, Master, 242 School Street		2500	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands		2700	1901
William W. Obear, Master, 83 Belmont Street		2700	1906
George M. Hosmer, Sub-Master, 31 Adams Street		2500	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton		2300	1906
Arthur N. Small, Sub-Master, 81 Avon Street		2300	1910
Fred W. Carrier, Sub-Master, 14 Lloyd Street, Winchester		2300	1915
Wallace S. Hall, 37 Perkins Street, West Newton		2100	1919
Irving P. Colman, Sub-Master, Greenbush		1900	1915
Stephen H. Mahoney, Sub-Master, 10 Oxford Street		2300	1914
Albert O. Plantinga, Sub-Master, 83 Park Street, Melrose		2100	1913
George E. Pearson, Sub-Master, 325 Highland Avenue		2300	1914
Forrest S. Miller, Sub-Master, 8 Hudson Street		1900	1920
L. Thomas DeCelles, 46 Ware Street		1900	1919
A. Marion Merrill, Sub-Master, 2 Madison Street		2100	1895
Helen L. Follansbee, Sub-Master, 17 Pleasant Avenue		2100	1900
Harriet E. Tuell, 17 Pleasant Avenue		1900	1899
Elizabeth Campbell, 39 Greenville Street		1900	1902
A. Laura Batt, 2 Madison Street		1900	1895
M. Helen Teele, 11 Jason Street Arlington		1900	1895
Clara A. Johnson, 177 Central Street		1750	1897
Blanche S. Bradford, 163 Summer Street		1750	1903
Grace E. W. Sprague, 888 Mass. Avenue, Cambridge		1750	1908
Mrs. Lucy I. Topliff, 69 Cypress Street, Brookline		1750	1914
Ella D. Gray, 147 Walnut Street		1750	1901
Grace Gatchell, 9 Hamlet Street		1750	1906
A. Marguerite Browne, 27 Everett Street, Cambridge		1750	1908
*Edith L. Hurd, 125 Central Street		1700	1910
Esther Parmenter, 16 Mystic Lake Drive, Arlington		1600	1911
Annie C. Woodward, 2 Madison Street		1750	1906
Alice A. Todd, 82 Munroe Street		1750	1913
Ella W. Bowker, 2 Hillside Avenue		1750	1911
Florence L. McAllister, 23 Wallace Street		1750	1913
Laura R. Cunningham, 62 Highland Avenue		1750	1914
Julia A. Haley, 88 Prospect Street		1600	1913
Mary C. Smith, 117 Prospect Street		1750	1915
Gladys L. Swallow, 15 Pleasant Avenue		1650	1913
Alfreda Veazie, 193 Linden Street, Everett		1650	1916
Mrs. Phebe E. Mathews, 159 Morrison Avenue		1750	1913
B. Phoebe Abbott, 67 Perrin Street, Roxbury		1600	1916
Mrs. Ruth L. Card, 62 Central Street		1750	1913
Irene C. Ritchie, 15 Willoughby Street		1750	1912
Ella W. Burnham, 58 Walnut Street		1600	1919
Mrs. Cornelia D. Pratt, 112-A Glenwood Road		1650	1918
Bernice O. Newborg, 12 Hale Avenue, Medford		1600	1918
Louise M. Saunders, 1 Waterhouse Street, Cambridge		1650	1919
Gertrude W. Chaffin, 10 Copeland Terrace, Malden		1650	1916

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.	Salary	Began Service
Mrs. Ruth L. Strand, 299 Central Avenue, Needham Heights	1600	1919
Elizabeth M. Welch, 3 Washington Ave., Arlington Heights	1650	1919
Harriet M. Bell, 62 Highland Avenue	1750	1904
Dorothy E. Harvey, 61 Pennsylvania Avenue	1600	1920
Margery Moore, 58 Walnut Street	1500	1920
Edith M. Joel, 105 Rogers Avenue	1650	1920
Harriet C. Whitaker, 75 Walnut Street	1650	1921
Ruth C. MacDuffie, 30 Wadsworth Street, Allston	1400	1921
Ruth E. Arrington, 37 Walnut Street	1400	1921
Margaret Cochran, 34 Hancock Street, Medford	1500	1921
Elizabeth I. Fury, 11 East Newton Street, Boston	1500	1921
Sadie M. Lyle, 25 Lowden Avenue	1400	1921
Laura W. Lewis, 44 Kidder Avenue	1400	1922
Virginia M. O'Connor, 56 Parsons Street, Brighton	1300	1922
Carmen Solano, 1135 Commonwealth Avenue, Allston	1500	1922
Phebe R. Boole, 21 Sacramento Street, Cambridge	1750	1922
Ruby F. Sutherland, 95 Central Street	1400	1922
Helen B. Ryan, 35 Columbus Avenue	1600	1918
Sophia C. Mague, 1766 Washington Street, Auburndale	1600	1921
Rena S. Hezelton, 23 Preston Road	1600	1909
Edna C. Woodbury, 202 School Street	1300	1921
Mabell M. Ham, Clerk, 41 Boston Street	1400	1906
†Wesley A. Maynard, 40 Vinal Avenue	840	1913
Mrs. Minne T. Wyman, Matron, 71 Boston Street	1200	1923

* leave of absence

† part time

EASTERN JUNIOR HIGH SCHOOL

Pearl Street

Samuel A. Johnson, Master, 5 Gardner Terrace, Allston	\$3100	1893
Francis J. Mahoney, Vice-Principal, 16 Parker Street	2200	1919
Walter W. Newcombe, Sub-Master, 172 Central Street	1900	1917
Elizabeth M. Warren, 109 Highland Avenue	1575	1897
Sarah H. Christie, 4 Fordham Ct., Jamaica Plain	1500	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	1500	1909
Pertie I. Gray, 23 Melvin Street	1500	1917
Edith L. Laycock, 92 Summer Street, Everett	1500	1913
Elizabeth J. Mooney, 41 Vinal Avenue	1500	1904
Catherine L. Heagney, 32 Sewall Street	1500	1912
Mary A. Hickey, 90 Myrtle Street	1500	1918
Elma Isaac, 32 Richardson Street, Brighton	1450	1918
Velma B. Strout, 36 Francesca Avenue	1500	1918
Mrs. Constance H. Scherer, 25 Falmouth Street, Belmont	1500	1917
Kathinka Fessman, 1126 Boylston Street, Boston	1650	1912
Olive E. Whittier, 4 Fordham Ct., Jamaica Plain	1500	1918
Mrs. Amelia M. Gray, 70 Lawrence Street, Medford	1400	1920
Adela L. Balch, 223 Mountain Avenue, Arlington	1500	1921
Rachel M. Pratt, 114 Newbury Street, Boston	1400	1921
Katherine Quigley, 580 Adams Street, E. Milton	1500	1921
Lucy Dorr, 37a Central Street	1500	1919
†Benjamin Q. Belonga, 316 Lincoln Avenue, Cliftondale	1800	1922
Hazel L. Smith, 15 Victoria Street	600	1922
Mrs. Clara B. Donlon, 37 Washington Street, Ayer	1500	1914

† temporary teacher

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.			
SOUTHERN JUNIOR HIGH SCHOOL			
Vinal Avenue		Salary	Began Service
George M. Wadsworth, Master,	Whitman	\$3100	1891
Raymond E. Sheperd, Vice-Principal,	16 Grand View Avenue	2200	1919
Arthur E. Gordon, Sub-Master,	116 School Street	2000	1918
Melvin T. Carver, Sub-Master,	247 Winthrop Street, Winthrop	1900	1917
Alice L. Davis,	13 Pleasant Avenue	1650	1895
Clara B. Sackett,	16 Madison Street	1500	1891
Mrs. Blanche G. North,	25 Columbus Avenue	1500	1893
Mrs. Gertrude W. Leighton,	31 Vinal Avenue	1500	1895
Grace T. Merritt,	10 Charnwood Road	1500	1897
Marie T. Smith-Brandt,	64 Vinal Avenue	1500	1898
Lilla E. Mann,	17 Summit Street	1500	1902
Mrs. Mary B. Soule,	39 Walnut Street	1500	1902
Leila L. Rand,	184 Pleasant Street, Arlington	1500	1906
Mrs. N. Theresa Hennessey,	15 Rock Avenue, Lynn	1500	1909
Nona E. Blackwell,	45 Ibbetson Street	1500	1906
Edith L. French,	52 Prescott Street	1500	1912
Emma J. Kennedy,	15 Pleasant Avenue	1500	1912
Maude M. Cunningham,	15 Pleasant Avenue	1500	1913
Charlie M. Frost,	18 Grand View Avenue	1500	1920
Charlotte A. Holmes,	24 Cambria Street	1500	1899
Ada G. Macdonald,	43 Babcock Street, Brookline	1500	1914
Anna J. Coll,	65 Newton Street	1500	1916
F. Antoinette Pratt,	31 Vinal Avenue	1500	1918
Olive M. Brownell,	62 Simpson Avenue	1500	1919
Ruth H. Connor,	13 Pleasant Avenue	1500	1921
Mildred E. Blaisdell,	Wamesit, Mass.	1500	1921
Edith V. Blood,	99 Summer Street	1500	1921
†Mabel H. Eddy,	68 St. Stephens Street, Boston	1500	1922
Beulah M. Newell,	65 Hudson Street	1200	1922
†Eleanor Campbell,	169 Highland Avenue	1200	1922
Ida Paly,	82 Concord Avenue	600	1922

† temporary teacher

NORTHERN JUNIOR HIGH SCHOOL

Sycamore Street and Evergreen Avenue

Frank W. Seabury, Master,	18 Winslow Avenue	\$3100	1911
Joseph S. Hawthorne, Vice-Principal,	233 School Street	2200	1915
Arthur J. Marchant, Sub-Master,	60 Bartlett Street	2000	1914
Mary I. Bradish,	63 Dudley Street, Medford	1500	1899
Emma G. Blanchard,	146 Massachusetts Avenue, Boston	1600	1902
Mrs. Mina P. Bickford,	36 Emerson Street, Medford	1500	1903
Mary F. Mead,	22 Kidder Avenue	1500	1905
*M. Edna Merrill,	228 Broadway	1500	1909
Anna R. Walsh,	27 Avon Street	1500	1914
Dorothy A. Chapin,	11 Mystic Street	1500	1917
Ruth C. Harrington,	3 Moulton Avenue, Stoneham	1500	1913
Mary C. Fox,	28 Linden Street	1450	1918
Florence R. Gallagher,	16 Otis Street, Medford	1500	1918
May B. Thompson,	120 Peterboro Street, Boston	1500	1918
Minnie A. Holden,	29 Warren Avenue	1500	1906
Alice M. Patterson,	108 Glenwood Road	1500	1919
Mrs. Gladys M. Sheldon,	55 Liberty Street, Everett	1450	1919
Annie G. Merrill,	33 Stuart Street, Everett	1500	1919
Marie Clifford,	1648 Mass. Avenue, Cambridge	1500	1907
Mary Donoghue,	80 Porter Road, Cambridge	1500	1911
Grace M. Driscoll,	25 Arthur Street	1200	1920
†Mrs. Delsey Ellsworth,	34 Francesca Avenue	1400	1921
†Laura E. Gustafson,	10 Hollis Street, Cambridge	1300	1922
†Berthe DeL. Dion,	85 Broadway, Norwood	1200	1922
†Margaret McLeod,	14a Ware Street	1200	1922
†William Colleran,	395 Highland Street, W. Newton	1500	1922

* leave of absence

† temporary teacher

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.			Began
WESTERN JUNIOR HIGH SCHOOL			Salary Service
Holland Street			
Arthur L. Doe, Master, 27 Spruce Street, Malden		\$3100	1896
Walter P. Sweet, Vice-Principal, 40 Teele Avenue		2100	1919
John J. McLaughlin, Sub-Master, 84 Inman Street, Cambridge		2000	1916
Ralph E. Farnsworth, Sub-Master, 43 Chelsea Street, Everett		1900	1918
Prescott E. Whitfield, 33 Walnut Street		1600	1921
Sarah E. Pray, 58 Liberty Avenue		1500	1877
Clara B. Parkhurst, 146 Highland Avenue		1500	1889
Alice S. Hall, 51 Avon Street		1500	1896
Edith F. Hersey, 287 Medford Street		1500	1899
Annie G. Smith, 59 Maple Street, Malden		1500	1901
Mary L. Bryant, 41 Mason Street		1500	1903
Florence M. Hopkins, 288 Mass. Avenue, Arlington		1500	1907
Elsie M. Ross, 120 Peterboro Street, Boston		1500	1908
Katherine A. Breen, 7 Cambria Street		1500	1912
L. Alice Grady, 19 Billings Avenue, Medford		1500	1912
Elizabeth R. Henderson, 152 Curtis Street		1500	1912
Marion F. Orne, 43 Fairmount Avenue		1500	1912
Helen I. Stearns, 106 College Avenue		1500	1916
Mrs. Mae W. Conant, 25 Crescent Hill Ave., Arlington Hgts.		1500	1917
Marcella M. Garrick, 295 Lowell Street		1450	1917
Blanche Preston, 84 Packard Avenue		1500	1917
Miriam E. Priest, 6 Hudson Street		1500	1917
Mrs. Geneva C. Farnsworth, 43 Chelsea Street, Everett		1500	1917
Jessie M. Howard, 108 Hemenway Street, Boston		1400	1919
Helen A. Moran, 483 Medford Street		1450	1919
Emma M. Damon, 170 Central Street		1500	1908
Catherine E. Giles, 5 Bradley Avenue, Wellington		1500	1918
Mrs. Augusta H. Bergin, 55 Fenwood Road, Boston		1500	1920
Ellen L. Bellamy, 41 Bay State Avenue		1500	1921
Helen M. Stone, 146 Curtis Street		1500	1921
Ethel M. Park, 48 Electric Avenue		1500	1916
E. Bella Weisman, 17a Melvin Street		1500	1921
Mrs. Lillias T. Lawton, 136 Neponset Avenue, Dorchester		1500	1913
Mrs. Ruth A. Maxwell, 15 Munroe Street		1300	1922
†Ethel G. Beal, 206 Washington Street, Quincy		1400	1922
†Lillian Dunlap, 98 Electric Avenue		1200	1922
Eleanor V. Nemser, 25 Walker Street		600	1922

† temporary teacher

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.			Began
VOCATIONAL SCHOOL FOR BOYS (Day)		Salary	Service
Davis Building, Tufts Street			
Harry L. Jones, Principal, 137 Powder House Blvd.		\$3300	1896
Nehemiah E. Gillespie, 81 Worcester Square, Boston		2100	1911
Charles A. Kirpatrick, 27 Sewall Street		2000	1913
H. Ralph Aubin, 6 Oxford Street		2100	1917
Roy R. King, 18 Landers Street		1900	1913
Phillip J. Heffernan, 356a Broadway		1900	1918
Benjamin C. Bowman, 18 Michigan Avenue		1700	1919
Charles A. Perry, 4 Bulfinch Place, Boston		2100	1922
Mrs. Ethel M. Smith, Clerk, 20 Langmaid Avenue		\$17.50 per wk.	1921
INDEPENDENT HOUSEHOLD ARTS SCHOOL			
High School Building			
Mary Henleigh Brown, Director, 162 Highland Avenue		\$2200	1911
CONTINUATION SCHOOL			
High School Building			
Everett W. Ireland, Principal, 57 Packard Avenue		\$2800	1920
Lawrence E. Landahl, 99 Summer Street		1900	1920
Kells S. Boland, 1200 Mass. Avenue, Cambridge		1700	1920
Estelle Crowe, 55 Cedar Street		1200	1920
‡Martha S. Walker, 80 Brookside Avenue, Newtonville		1100	1921
‡ part time			
(WILLIAM H.) PRESCOTT SCHOOL			
Pearl and Myrtle Streets.			
Grade.			
	Samuel A. Johnson, Master, 5 Gardner Ter., Allston		1893
4	Edith C. Polechio, 450 Moody Street, Waltham	1500	1922
4:3	Mrs. Hazel S. Ashman, 42 Bay State Avenue	1500	1922
3	Elizabeth L. Marvin, 17 Summit Street	1500	1898
2	Louise E. Pratt, 11 Prospect Hill Avenue	1500	1839
2	Mrs. Grace E. Allen, 107 Pennsylvania Avenue	1450	1913
1	Jeannette M. Hannabell, 44 Benton Road	1500	1917
1	Dorothea Shay, 68 Mt. Pleasant Street	1200	1920
SANFORD HANSCOM SCHOOL			
Webster and Rush Streets			
	Florence A. Chaney, Master, 49 Boston Street		1919
4	Mrs. Agnes M. Travis, 66 Bartlett Street, Malden	\$1650	1908
4	Maude A. Nichols, 78 Oxford Street	1500	1906
3	Jennie M. Twiss, 67 Berkeley Street	1500	1903
3	Frances E. Robinson, 97 Glen Street	1500	1908
3	Mrs. Nellie W. McPheters, 163 Summer Street	1500	1914
2	Martha L. Littlefield, 163 Summer Street	1500	1897
2	Florence M. Shaw, 58 Central Street	1500	1909
1	Ethel H. Werner, 59 Cedar Street	1300	1919
1	Marion A. Viets, 122 Dale Street, Waltham	1500	1912
1	Alice M. Saben, 11 Prospect Hill Avenue	1500	1903
Kdgn.	Elizabeth J. Baker, 19 West Cedar Street, Boston	1400	1907
Asst.	Mrs. Dorothy C. Huddy, 41 Hillside Ter., Belmont	1250	1921

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.			Began
CLARK BENNETT SCHOOL			Service
Grade.	Poplar and Maple Streets	Salary	
	John Sherburne Emerson, Master, 3 Preston Road	\$3000	1894
5	Kate B. Gifford, 125 Pleasant Street, Arlington	1650	1902
5	Ruth B. Brown, 110 Perkins Street	1200	1922
4	Eliza I. Patterson, 110 Perkins Street	1500	1919
4:3	Eugenia Carver, 110 Perkins Street	1400	1922
3	Mrs. Katherine D. Millen, 22 Lovell Street	1400	1920
2	Marie L. Wiczorek, 65 Mt. Auburn St., Cambridge	1500	1922
2	Sarah L. Wolfe, 121 Morrison Avenue	1000	1922
1	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	1500	1906
1	Alice M. Hayes, 81 Benton Road	1500	1913
1	Elvira Badaracco, 1874 Beacon Street, Brookline	1000	1922
Kdgn.	Helen E. Harrington, 1675 Mass. Ave., Cambridge	1400	1912
Asst.	Mary B. White, 13 Day Street, Cambridge	1000	1921

GEORGE L. BAXTER SCHOOL

Bolton Street

	Francis A. Ryan, Master, 12 Bowdoin St., Arlington		1919
4	Mary G. Blackwell, 45 Ibbetson Street	\$1600	1900
3	Margaret M. Breen, 461 Somerville Avenue	1500	1916
2	Sue A. Fitzpatrick, 451-A Somerville Avenue	1500	1912
1	Maria D. McLeod, 78 Larchwood Drive, Cambridge	1500	1906
Kdgn.	Eleanor A. Connor, 86 Belmont Street	1400	1903
Asst.	Margaret McCarthy, 38 Highland Avenue	900	1922

OREN S. KNAPP SCHOOL

Concord Avenue

	Francis A. Ryan, Master, 12 Bowdoin St., Arlington	\$3000	1913
6	Winifred I. Macdonald, 43 Babcock Street, Brookline	1500	1917
6	Ellen C. Moynihan, 67 Avon Street	1500	1919
6	Mary T. McCarthy, 246 School Street	1450	1919
5	Etta R. Holden, 29 Warren Avenue	1500	1908
5	Eleanor M. Lundgren, 93 Lowden Avenue	1500	1919
4	Marguerite G. Stanton, 60 Ossipee Road	1300	1922
3	Agnes C. Riley, 451 Somerville Avenue	1500	1918
3:2	Mary E. Keefe, 99 Summer Street	1400	1922
2	Alice A. Tassinari, 94 Beacon Street	1450	1919
1	M. Edith Callahan, Woburn	1500	1911

ALBION A. PERRY SCHOOL

Washington Street, near Dane Street

	Francis A. Ryan, Master, 12 Bowdoin St., Arlington		1919
5	Catherine E. Sweeney, 48 Everett Street, Arlington	\$1600	1901
4	Mary A. Mullin, Canton, Mass.	1500	1910
3	Irene Vincent, 47 Vinal Avenue	1500	1903
2	Mrs. Sarah E. Murphy, 87 Bristol Road	1500	1906
1	Grace R. O'Neil, 347 Washington Street	1500	1913

TABLE 29. — Teachers in Service January, 1923. — Continued.

Name and Residence.			
CHARLES G. POPE SCHOOL			
Washington and Boston Streets			
Grade.		Salary	Began Service
	Florence A. Chaney, Master, 49 Boston Street	\$2800	1892
6	M. Abbie Tarbett, 11 Washington Street, Stoneham	1650	1906
6	Harriet M. Clark, 10 Vernon Street, West Medford	1500	1893
6	Margaret V. Lamb, 34 Crescent Street	1300	1922
5	Eva E. Perkins, 16 Buckminster Street, Allston	1500	1911
5:4	Annie G. Sheridan, 43 Highland Road	1500	1886
4	Lizzie W. Parkhurst, 146 Highland Avenue	1500	1885
†3	Irma J. Knight, 175 Pearl Street	1200	1922
3:2	M. Katherine Davis, 243-A Highland Avenue	1500	1904
2	Eunice S. Higgins, 25 Berkeley Street	1100	1921
2	Florence E. Locke, 34 Dana Street, Cambridge	1500	1899
1	Josephine Lacy, 63 Cherry Street	1300	1921
1	Alice B. Frye, 105 Summer Street, Malden	1500	1904

† Temporary Teacher

(JOHN A.) CUMMINGS SCHOOL
School Street, near Highland Avenue

	Charles G. Ham, Master, Watertown	\$.....	1919
4	Fannie L. Gwynne, 65 School Street	1600	1886
3	Katherine M. Fox, 150 Franklin Street, Stoneham	1500	1896
2	Elizabeth L. Hersey, 96 Oxford Street	1500	1896
1	Mrs. Stella M. Hadley, 11 Greene Street	1500	1914

(JOHN G.) EDGERLY SCHOOL
Cross and Bonair Streets

	Charles E. Brainard, Master, 82 Munroe Street	\$3000	1889
6	Edith M. Snell, 4 Vine Street, Melrose	1650	1900
6	Mary E. Richardson, 26 Oxford Street	1500	1893
6	Annie L. Dimpsey, Hotel Woodbridge	1500	1891
6	Isabelle M. Gray, 25 Webster Street	1500	1897
5	Mabel C. Mansfield, 26 Oxford Street	1500	1893
5	G. Hortense Pentecost, 157 Walnut Street	1500	1905
•5	Berta M. Burnett, 51 Fresh Pond Park'y, Cambridge	1500	1915
5	Mrs. Harriette W. Bridges, 8 Plympton St., Cam.	1500	1922
5	Mrs. Myrtle I. Martin, 41 Putnam Street	1500	1916
4	Mrs. Louise S. Weare, 65 Hancock Street, Boston	1500	1896
3	Eleanor W. Nolan, 16 Farrington Avenue, Allston	1500	1922
2	Alice W. Cunningham, 62 Highland Avenue	1500	1901
1	Martha M. Power, 37 Gleason Street, W. Medford	1500	1890

• leave of absence

(JACOB T.) GLINES SCHOOL
Jaques Street, near Grant Street

	Charles E. Brainard, Master, 82 Munroe Street	\$.....	1919
6	Margaret A. Orr, 146 Massachusetts Avenue, Boston	1650	1890
6	Harriet F. Ward, Weymouth	1500	1895
5	Alice C. Blodgett, Hotel Hemenway, Boston	1500	1917
5	Monira C. Gregory, 110 Perkins Street	1400	1921
4	Laura M. Flynn, 57 Franklin Street	1200	1920
4	Mrs. Carrie Armitage, 57 Madison Street	1500	1899
3	Florence E. Baxter, 42 Highland Avenue	1500	1891
3	Cora J. Demond, 146 Massachusetts Avenue, Boston	1500	1900
2	Elizabeth C. Sullivan, 74 Ossipee Road	1200	1920
2	Mrs. Florence S. Fowler, 109 Highland Avenue	1500	1915
2, 1	Editha A. Sharkey, 7 Wesley Park	1450	1919
1	Helen P. Colley, 872 Broadway	1400	1921
1	Isabel J. Tift, 109 Highland Avenue	1500	1892
Kdgn.	Ida M. Kane, 28 Fellsway West	1400	1905
Asst.	Marjorie Gustin, 3 Virginia Street	1000	1921

TABLE 29. — Teachers in Service January, 1923. — Continued.

		Name and Residence.		Began
		(CHARLES) FORSTER SCHOOL		Service
Grade.		Sycamore Street and Evergreen Avenue	Salary	
		Frank W. Seabury, Master, 18 Winslow Avenue	\$.....	1911
6, 5		Elizabeth F. Clement, 29 Kidder Avenue	1500	1884
5, 4		Annie S. Gage, 32 Marshall Street	1500	1881
3, 2		Carrie T. Lincoln, 65 Ashland Street, Medford	1500	1892
2, 1		Grace Shorey, 23 Forster Street	1500	1894
(NORMAN W.) BINGHAM SCHOOL				
Lowell Street, near Vernon Street				
		Harry F. Hathaway, Master, 29 Albion Street	\$3000	1890
6		Elizabeth J. O'Neil, 82 Benton Road	1650	1894
6		Anna G. Molloy, 82 Benton Road	1400	1921
6, 5		Jane Batson, 12 Washington Place, Malden	1500	1900
5		Clara L. Griffiths, 39 Ames Street	1500	1902
5		Helen F. Wiseman, Groton, Mass.	1400	1922
4		Anna R. Canfield, 205 Cedar Street	1500	1914
4		Alice A. Griffiths, 39 Ames Street	1500	1920
4, 3		Barbara E. Drummey, 43 Short St., Marlboro	1500	1918
3		Lillian F. Commins, 16 Buena Vista Park, Cam.	1500	1914
3		Lynda V. Merrill, 26 Brastow Avenue	1500	1912
2		† Mrs. Elizabeth K. Miller, 78 Liberty Avenue	1200	1921
2		M. Gertrude McCarthy, 36 Brastow Avenue	1450	1917
2, 1		Ethel F. Rudd, 46-A Franklin Street	1100	1921
1		Mabel E. Mansir, 77 Albion Street	1500	1894
1		Frances Fisher, 176 Williams Avenue, East Lynn	1500	1921
Kdgn.		M. Regina Desmond, 3 Oak Street, Charlestown	1350	1918
Asst.		Marguerite Driscoll, 396 Medford Street	1100	1921

† Temporary Teacher

MARTIN W. CARR SCHOOL

Atherton Street

		Chas. G. Ham, Master, 20 Washburn St., Watertown	\$3000	1898
6		Eva S. Bent, 6 Steeves Circle	1650	1915
6		Susie L. Luce, 22 Francesca Avenue	1500	1891
6, 5		Mrs. Hazel F. Quinn, 981 Main St., Winchester	1500	1915
6		Mrs. Helen M. Mason, 62 Ibbetson Street	1450	1920
5		Lillian E. Haskell, 41 Putnam Street	1500	1913
5		Elizabeth S. Foster, 53 Laurel Street	1500	1895
5		Dorothy Lundgren, 93 Lowden Avenue	1450	1915
4		Alice M. Cumming, 117 School Street	1450	1917
4		Mrs. Ada C. Mawhinney, 25 Walnut Street	1500	1919
3		Margaret M. Brennan, 30 School Street	1450	1917
3		Bessie I. Berry, 38 Wyllis Avenue, Everett	1500	1915
2		Annie B. Russell, 14 Kidder Avenue	1500	1901
2		Mary E. Flanley, 9 Avon Street, Wakefield	1500	1915
1		Frances E. Welch, 303 Highland Avenue	1500	1908
1		Mabel R. Ingham, 62 Central Street	1500	1912

TABLE 29. — Teachers in Service January, 1923. — Continued.

		Name and Residence.			
		(ENOCH R.) MORSE SCHOOL			
		Summer and Craigie Streets		Began	
Grade.				Salary	Service
		Mina J. Wendell, Master, 211-A Summer Street	\$3000	1882	
6		Mrs. Harriette C. Hamilton, 36 Meacham Road	1650	1900	
5		Lennie W. Bartlett, 49 Laurel Street	1500	1893	
5		Blanche E. Thompson, 33 Hudson Street	1500	1906	
4		*Mrs. Sarah K. Lake, 199 Prospect St., Cambridge	1400	1921	
4, 3		Eva A. Wilson, 153 Lowell Street	1500	1917	
3		Mrs. Agnes C. Rice, 34 Highland Avenue	1500	1900	
2		Edna M. Scriven, 108 Summer Street	1000	1922	
2		Lena Munroe, 211-A Summer Street	1500	1913	
1		Mrs. Helen T. Smith, 43 Paulina Street	1500	1912	
1		Louise F. Deady, 84 Bay State Avenue	1450	1917	
Kdgn.		Gertrude Prichard, 5 Webster Street	1300	1920	
Asst.		Elizabeth White, 6 Boxford Street, Lawrence	1000	1921	

* Temporary Teacher.

GEORGE O. PROCTOR SCHOOL

Hudson Street

		Harry F. Hathaway, Master, 29 Albion St.	\$.....	1912	
6		Nora F. Byard, 27 College Avenue	1650	1884	
6, 5		Alice G. Hosmer, 42 Boston Street	1500	1906	
5, 4		Ethel F. Morang, 18 Curtis Avenue	1450	1920	
4		Mrs. Nettie L. Fay, 15 Pleasant Avenue	1500	1901	
3		Edith L. Hunnewell, 41 Mason Street	1500	1894	
3, 2		*Mrs. E. Laurette Johnston, 25 Tufts Street	1400	1922	
2		Mary S. Richardson, 347 Boston Avenue, Medford	1500	1906	
1		Lucia Alger, 163 Summer Street	1500	1889	

* Temporary Teacher.

GEORGE W. DURELL SCHOOL

Beacon and Kent Streets

		Charles G. Ham, Master, Watertown	\$.....	1919	
4		Abigail P. Hazelton, 14 Billingham Street	1600	1902	
3		Grace E. Packard, 12 Carlisle Street, Roxbury	1500	1912	
2		Mary Winslow, 106 Hammond Street, Cambridge	1500	1887	
1		Alice M. Dicker, 82 Marion Street, East Boston	1500	1912	

MARK F. BURNS SCHOOL

Cherry Street, near Highland Avenue

		Mina J. Wendell, Master, 211-A Summer Street	\$.....	1919	
4		Mrs. Margaret D. Quarrie, 21 Bay State Avenue	1650	1909	
4		Lizzie E. Hill, 121 St. Stephen St., Boston	1500	1890	
3		Annie L. Brown, 4 Saginaw Avenue, N. Cambridge	1500	1885	
3		Margaret Beattie, 401 Washington Street	1500	1914	
2		Mary E. Lacy, 63 Cherry Street	1500	1890	
2		Ardelle Abbott, 71 Craigie Street	1500	1896	
1		Alice E. Morang, 18 Curtis Avenue	1500	1893	
1		Ruth E. Andrews, 113 North Street	1500	1917	

TABLE 29. — Teachers in Service January, 1923. — Continued.

		Name and Residence.			
		BENJAMIN G. BROWN SCHOOL			
		Willow Avenue and Josephine Avenue		Salary	Began Service
Grade.					
		Geo. I. Bowden, Master, 92 Monument St., W. Med.	\$3000	1908	
6		Mrs. Maud A. Bottomley, 10 Avon St., Cambridge	1650	1913	
5		Mary T. Ford, 32 Central Road	1500	1911	
5		Annie Sanburn, 11 East Newton Street, Boston	1500	1906	
4		Anna N. Johnson, 33 Everett Avenue	1500	1913	
4		Martha R. Taylor, 26 Simpson Avenue	1500	1914	
3		Helen L. Galvin, 1185 Commonwealth Ave., Allston	1500	1903	
2		Alice M. Dorman, 159 Morrison Avenue	1500	1903	
2		Mrs. Grace H. Bliss, 33 Whitfield Road	1500	1900	
1		Mrs. Bessie T. MacCutcheon, 72 Mt. Vernon St.	1500	1915	
1		Olivia H. Norcross, Wilmington	1500	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	1650	1893	
6		Mary H. Joyce, 62 Highland Avenue	1500	1891	
6		Eva M. Barrows, 1 Glover Circle	1500	1903	
6		Marion Allen, 74 Collins Street, Danvers	1500	1911	
5		Catherine A. Burden, 50 College Avenue	1500	1902	
5		Hazel M. Stone, 12 Henry Avenue	1500	1919	
5		Beatrice Waterhouse, 153 Lowell Street	1500	1921	
S. NEWTON CUTLER SCHOOL					
Powder House Boulevard, near Raymond Avenue					
		Harlan P. Knight, Master, 22 Hamilton Road	\$3000	1897	
6		Bernice J. Andrews, 10 Locke Street, No. Camb.	1650	1914	
6		Mrs. Minnie R. Lougee, 125 Walnut Street	1500	1922	
6		Ella H. Bucknam, 170 Powder House Boulevard	1500	1897	
6		Mrs. Mabel T. Totman, 163 Summer Street	1500	1893	
5		Mildred A. Whitman, 16 Chester Street, Danvers	1500	1920	
5		Bessie J. Baker, 19 Mills Street, Malden	1500	1905	
5		Mabel Worcester, 24 Brastow Avenue	1450	1919	
5		Alice A. Libbey, 20 Chandler Street	1450	1919	
4		Mrs. Elva A. Cutler, 36 Powder House Blvd.	1500	1911	
4		Mrs. M. Eunice Byrne, 6 Myrtle Street, Winchester	1500	1912	
4		Mrs. Katie L. Harmon, 1092 Broadway	1500	1916	
3		Mrs. Elsie M. Guthrie, 50 Bromfield Road	1500	1919	
3		E. Mildred Milner, 2 Billingham Street	1450	1920	
3, 2		Mrs. Nettie M. Humiston, 43 Fairmount Avenue	1450	1920	
2		Almena J. Mansir, 77 Albion Street	1500	1899	
2		Stella Bucknam, 319 Highland Avenue	1200	1917	
1		Annie H. Hall, 170 Powder House Boulevard	1500	1906	
1		Mary L. McKenna, 294 Lowell Street	1500	1915	
1		Eleanor E. Waldron, 135 Powder House Boulevard	1200	1919	
Kdgn.		Mrs. Dorothea G. Lamb, 20 Curtis Street	1450	1921	
Asst.		Willa E. Wingate, 92 Brooks Street, Brighton	900	1922	
LINCOLN SCHOOL					
Broadway near Teele Square					
		Harlan P. Knight, Master, 22 Hamilton Road	\$.....	1914	
3		Eliza H. Lunt, 50 Curtis Street	1600	1889	
4		Mrs. Lillian M. Wentworth, 248 Highland Avenue	1500	1911	
2		Olevia M. Woods, 116 Powder House Boulevard	1500	1908	
1		Hortense F. Small, 91 Electric Avenue	1500	1912	

TABLE 29. — Teachers in Service January, 1923. — Continued.

MARTHA PERRY LOWE SCHOOL

Morrison Avenue near Grove Street

	Geo. I. Bowden, Master, 92 Monument St., W. Med. \$.....		1917
4	May E. Small, 104 Orchard Street	1650	1900
4	Stella M. Holland, 34 Francesca Avenue	1500	1903
3	Maude C. Valentine, 1098 Broadway	1500	1901
3	Mrs. Jane M. Taaffe, 159 Morrison Avenue	1500	1888
2	Katherine E. Hourahan, 94 College Avenue	1500	1892
2	Clara G. Hegan, 100 School Street	1500	1897
1	Octavia A. Stewart, 15 Kenwood Street	1500	1917
1	Selena G. Wilson, 11 Irving Street	1200	1922

EVENING SCHOOL PRINCIPALS

	Everett W. Tuttle, High	\$7.00	
	John S. Emerson, Bell	6.00	
	Charles E. Brainard, Western	6.00	

CADET TEACHERS

	Alice M. McFarland, 19 Prospect Street	\$600	1922
	Mildred M. Harkins, 318 Beacon Street	600	"
	Gladys M. H. Sullivan, 40 Pearson Avenue	600	"
	Hazel L. Smith, 15 Victoria Street	600	"
	Mildred Dewire, 384 Washington Street	600	"
	Ida Paly, 82 Concord Avenue	600	"
	Margaret Burke, 1 Pearl Street	600	"
	M. Helen Campbell, 22 Barton Street	600	"
	Eleanor V. Nemser, 25 Walker Street	600	"
	Mary E. O'Shaughnessy, 76 Derby Street	600	"

SUPERVISORS AND SPECIAL TEACHERS

Music

12, 7	James P. McVey, 5 Linnaean Street, Cambridge	\$2500	1915
6, 1	Mrs. Charlotte D. Lawton, 121 St. Stephen St., Boston	1900	1898

Drawing

6, 1	Clara M. Gale, 21 Willoughby Street	\$1900	1911
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Sewing

	Mary H. Brown, Supervisor, 162 Highland Avenue	*200	1913
6, 5	Mary L. Boyd, 74 Heath Street	1500	1888
6, 5	Mrs. Emma J. Ellis, 54 Marshall Street	1500	1900
6, 5	‡Martha S. Walker, 80 Brookside Ave., Newtonville	‡1100	1921

Penmanship

9, 1	Ruth L. Whitehouse, 21 College Avenue	1700	1915
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Manual Training

	Harry L. Jones, Supervisor, 137 Powder Hse. Blvd.	‡200	1911
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Physical Instruction

12, 1	‡Ernst Hermann, 12 Columbus Place, W. Newton	1550	1914
12, 7	Arthur R. Ayer, 48 Highland Avenue	2500	1921

TABLE 29. — Teachers in Service January, 1923. — Continued.

Atypical			
Mary A. Holt, 13 Pleasant Avenue	1550	1910	
Mrs. Bertha M. Morton, 62 Highland Avenue	1550	1913	
Julia M. Riordan, 165 Albion Street	1550	1914	

Sight Saving			
Mrs. Amy F. Woodbury	1550	1917	

* Additional to salary as Director of Household Arts Courses
 † Additional to salary as Principal of Boys' Vocational School
 ‡ Part time

Table 30—OFFICERS, ETC., IN SERVICE JANUARY, 1923

Name and Address		Salary
SUPERINTENDENT AND SECRETARY		
Charles S. Clark, 75 Munroe Street		\$5000
CLERKS		
Mary A. Clark, 42 Highland Avenue		1400
Mildred A. Merrill, 26 Cambria Street		1250
H. Madeline Kodad, 104 Sharon Street, W. Medford		1150
Marlon E. Marshall, 30 Gilman Street		\$19.00 per week
Ruth O. Elliott, 4 Lincoln Place		17.50 per week
Beatrice M. Hersom, 142 Lowell Street		14.00 per week
ATTENDANCE OFFICER		
Benjamin R. Jones, 25 Loring Street		1800

TABLE 31.—SCHOOL JANITORS, JANUARY, 1923

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	Joseph McCormack	206 Washington St.	25.00
High 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
Præscott	Thomas E. Dickinson	5 Berkeley St.	28.50
Hanscom	Charles F. Rose	15 Brastow Ave.	26.50
Boys' Vocational	Charles B. Kelley	25 Clark St.	26.00
Bennett	Michael Mullaney	Greene St.	28.00
Baxter	Jeremiah Sullivan	60 Newton St.	24.00
Knapp	Maurice T. Mullins	13 Fremont Ave.	28.50
Perry	Dan'l E. Cunningham	15 Leland St.	24.00
Pope	John J. Kilty	9 Morton St.	28.00
Southern Junior High	William Meskill	19 Aldersey St.	30.00
Southern Junior High	Nicholas J. Lacey	327 Washington St.	30.00
Cummings	Lewis G. Keene	1 Prescott St.	22.00
Edgerly	Charles P. Horton	26 Everett Ave	28.00
Glines	Roy C. Burckes	20 Jaques St.	29.00
Forster	George W. Coombs	216 Pearl St.	28.00
Northern Junior High	Michael A. Mullin	16 Bowdoin St.	27.50
Bingham	John F. O'Brien	335 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	93 Lowden Ave.	22.00
Burns	Charles J. Elkins	14 Holyoke Road	25.50
Brown	James J. Cooper	105 Willow Ave.	26.50
Highland	Frank C. Martis	79 Flint St.	28.00
Hodgkins	George A. Givan	17 Henry Ave.	29.00
Western Junior High	James T. Eddy	34 Wallace St.	34.00
Cutler	Daniel Campbell	22 Barton St.	28.00
Cutler	Walter F. Burns	23 Avon St.	25.00
Lincoln	John T. Morey	1 Weston Ave.	22.00
Lowe	Frank H. Flagg	22 Clyde St.	25.50

REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

Somerville, Mass.,
January 1, 1923.

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

Gentlemen: —

I most respectfully submit my fourteenth annual report as Commissioner of Electric Lines and Lights for the year ending December 31, 1922.

Inspection of Wiring in Buildings.

This year has been the busiest in the history of this department as the number of installations of electric work and inspections of the same have greatly increased over any previous year.

The large number of old houses and the increased number of new buildings which have been wired for light and power has made the past year one of unusual activity.

A thorough inspection of all new work has been made and the work as a whole shows improvement.

The inspection of old installations which should be followed up more closely has been neglected to a certain extent owing to lack of time and assistance.

A number of old installations have been found defective and have been repaired or re-wired to conform to present day requirements.

No doubt there are a great many old buildings where the wiring is not up to the standard and should be overhauled.

Considerable of this unapproved wiring has been found put in by unauthorized persons and notifications have been sent to the owners of the premises to have same removed, which has been done in most cases.

Appliances of all kinds both approved and unapproved appear on the market from time to time and are bought and attached to house wiring by the consumer without any thought as to the danger resulting from the use of such de-

vices. Not only is the building wiring overloaded but the protective fuses are often changed from the original ones to those of larger capacity, and which endangers the entire installation.

Flat irons, washing machines, stoves and heaters should be run on separate circuits and not attached to lighting fixtures.

Number of notifications of new work	2400
Number of inspections of new work	3458
Number of re-inspections of new work	227
Number of inspections of old work	50
Number of defective installations of old work	8
Number of defective installations remedied	7
Number of re-inspections of old work	10
	<hr/>
Total number of inspections	3745
Number of permits issued to the Edison Electric Illuminating Co. for installing meters, lamps, etc.	3742
Number of permits issued to the Malden Electric Co.	1

Fire Alarm System.

The Fire Alarm System is in excellent condition. Owing to the absence of heavy ice storms like those of last year the overhead wires of the system have suffered very little damage.

Most of the old storage batteries have been replaced by new and the balance will be changed this year.

278 bell alarms have been received and transmitted during the year.

678 telephone calls for fire were received and fire department sent.

5 A. D. T. alarms were received and transmitted.

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 — 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 the central office consists of the following :

- 131 signal boxes.
- 7 tower strikers.
- 45 gongs.
- 10 punching registers.
- 20 Tappers.
- 1 automatic steam whistle.
- 8 private telephones.
- About 60 miles of overhead wires.
- About 78 miles of underground wires.

2800 feet of new overhead wire has been run and 2386 feet of underground cable was installed in Cross Street.

Police Signal System.

The Police Signal System which was installed 10 years ago begins to show signs of wear and some of the apparatus will have to be replaced. Very little trouble has been found with signal boxes and service has not often been interrupted.

The system consists of the following :

- 1 — 4 circuit police desk.
- 59 street signal boxes.
- 4 special boxes.
- About 19½ miles of overhead wires.
- About 13 miles of underground wires.

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 same.

New poles have been placed in locations granted for the purpose of applying lighting and telephone service and abandoned poles have been removed.

	New poles	Re-placed	Re-moved	Re-set
New England Telephone & Telegraph Company	6	21	1	6
Edison Electric Illuminating Company	56	56	13	
Boston Elevated Railway Company		21		
Postal Telegraph Company		1		
Permits given to the New England Tel. & Tel. Co., for attachments to the Edison Company's poles	310			
Permits given to the Edison Electric Ill. Co. for attachments to the New England Tel. & Tel. Company's poles	89			

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.

Additional spot lights have been installed at places where traffic officers are posted and are of great assistance to them.

The new "white way" system of lights has been installed in Union Square and vicinity.

The number of Street lights January 1, 1923 are as follows:

152 Magnetite lights.
380 — 600 C. P. lights.
128 — 125 C. P. lights.
946 — 60 C. P. lights.

Recommendation.

I respectfully recommend that an assistant inspector be employed to enable the department to more thoroughly cover all new and old installations of electrical wiring in the City. This is imperative as the work cannot be done by one man.

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 THE LICENSE COMMISSION.

To His Honor the Mayor ,

Dear Sir: —

The License Commission respectfully begs leave to submit the following report to you and the people of our city of its engagements and activities during the year 1922. Nearly three years of close contact with the licensees of our city have brought to the members of the Commission a personal knowledge of our applicants and their locations.

As a result of the vote at the last municipal election, all licenses, except Lord's Day and Licenses to sell Firearms reverted to the Board of Aldermen in June, 1922.

The Commission has carried out its policy this year as in the preceding two years of endeavoring to grant licenses that would be for the best interests of the community, and to prevent as far as possible an increase of licenses that might be questionable.

It is impossible for this commission to grant all the Lord's Day licenses applied for without throwing our city wide open on Sunday and thus producing a situation not desired by our citizens. It would be advisable for those considering the leasing of stores and spending a considerable amount of money in fitting them up, largely in expectation of getting a Lord's Day License to consult with the commission before doing so.

Applications for Common Victualers, Lord's Day, Lodging House, Inn Holders, Druggist and Automobile Dealers Licenses were received and acted upon by the Commission as herein set forth:

Common Victuallers.

62 Applications Received.
 57 Licenses Granted.
 5 Applications Transferred.
 Licenses Transferred.
 2 Licenses Revoked.

Lord's Day.

236 Applications Received.
 216 Licenses Granted.
 20 Applications Rejected.
 4 Licenses Transferred (Location)

Lodging House.

37 Applications Received.
 35 Licenses Granted.
 2 Applications Rejected.

Inn Holders.

2 Licenses Granted.

Automobile Dealers' Licenses.

34 Applications Received.
 34 Licenses Granted.
 Applications Rejected.
 Applications Transferred.
 Licenses Revoked.

Third Class Liquor Licenses.

15 Licenses Granted.

The following is the financial statement of the receipts and expenditures of the Commission for the year 1922.

Receipts.			
Appropriation from City Government		\$500 00	
Fees from Licenses Issued		2,133 00	
		<hr/>	
			\$2,633 00
Expenditures.			
Salaries of Assistants	\$400 00		
Supplies and Postage	71 85		
	<hr/>		
		\$471 85	471 85
			<hr/>
Balance			\$2,161 15
Net Revenue.			
Fees Received		\$2,133 00	
Cost of Administration		471 85	
		<hr/>	
Net Revenue			\$1,661 15

Respectfully submitted,

EUGENE M. CARMAN
 WM. H. SMITH
 WM. J. SHANAHAN

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