







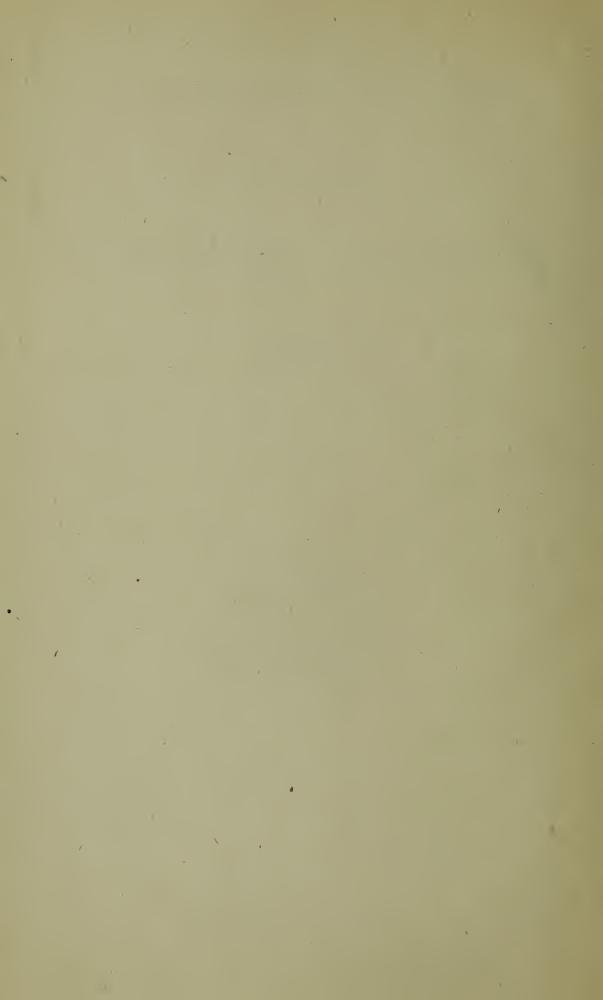
### CITY OF SOMERVILLE

**MASSACHUSETTS** 

### ANNUAL REPORTS

1920





### REPORT OF THE CITY AUDITOR.

Office of the City Auditor, January 26, 1921.

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

Gentlemen: — In accordance with the requirements of Section 3 of Ordinance Number 44, I herewith submit a report of the expenditures and receipts during the year 1920, showing in detail the appropriations and expenditures, and the receipts from each source of income, also a statement of the funded debt and temporary loans together with a balance sheet showing the assets and liabilities at the close of the financial year.

Respectfully submitted,

Howard E. Wemyss,

City Auditor.

## BALANCE SHEET, DECEMBER 31, 1920.

### Revenue Account

\$625,000 00 18,077 58	2,691 19 7,689 58	291 65 90 50	1,016 25	24,809 55	y	\$2,990 71	\$8,246 53 68,453 36	\$759,356 90
Temporary Loans . State Income Tax 1920 Excess .	Income of Trust Funds	Tailings .  Premiums on Bonds .  Revenue from Taxes Sunnle.	=	Departmental Bill Receivable Overlay, Reserved for Abatements:	\$1,819	1,6Vy 01 1917 818 20	Reserve Fund, Surplus and Overlays Excess and Deficiency	
	\$223,307 73						\$485,591 76 181 52 5,916 48 427 30 43,836 48	\$759,356 90
\$223,207 73	00 001	\$399,641 97 1.309 09	353 20 818 20		2,707 78 24,809 55	11,426 75 26,919 79		•
ASSETS Cash: — In Banks and Offices Advance to Poor Deat		Accounts Receivable: Taxes, 1920 Taxes, 1919	Taxes, 1918	Excise Tax . Special Assessments, 1920 .	Special Assessments, 1919 . Departmental Bills Receivable	Benefits, 1920	Real Estate Liens	

### BALANCE SHEET. — Continued.

### Non-Revenue Accounts.

		CITI	AUDITOR.					
\$71,708 70	4	,	<b>\$1,1</b> 24,000 00	24,000 00	\$1,148,000 00			\$27,096 24
Unexpended Balances: Appropriations	Indebtedness.  Loans Within Statutory Debt Limit: City Bonds \$318,000	Municipal Bonds	Loans Outside Statutory Debt Limit: Sewer Bonds \$15,000 00 Met. Park Assessment Bonds 9,000 00			Trust Funds.	Trust Funds:     School Funds	
\$71,708 70	Municipal   \$1,148,000 00				\$1,148,000 90	Trust	\$27,096 24	\$27,096 24
Cash in Banks and Offices	Net Bonded Debt						Investments: Cash and Securities	

### CASH STATEMENT, DECEMBER 31, 1920.

### REVENUE.

			s.

0 1	11000	.p.c				
General:—						
Taxes		•	\$2,622,110	44		
Corporation, Bank and Inco	ome Ta	ixes.	275,070			
Licenses and Permits .			9,656	50		
Fines and Forfeits .	. 20.		4,012	84		
County of Middlesex, Dog	Licens	es .	2,180	85		
Comm. of Mass. Vocationa						
Comm. of Mass. Americania	zation		602			
Smith-Hughes Fund .		•	2,220	09		
State in lieu of taxes.		•	93	66		
			64			
Excise Tax	. 7 .	•	04	09		
					<b>AD 007 100</b>	
					\$2,925,123	42
Special Assessments .					64,441	24
Departmental:—						
General Government .			\$7,692	75		
Protection of Persons and	Prope	rtv .	1,718			
Health and Sanitation			26,018			
•	•	•	<b>5,67</b> 3			
C1 111	•	•	38,864	04		
	•	•	7.045	79		
Schools	•	•	7,245			
Soldiers' Benefits .		•	26,421			
Libraries		•	2,343			
Baths and Bathhouses		•	932			
Miscellaneous		•	596	78		
					117,506	79
					,-	
					•	
Water Department Accounts					258,339	19
Water Department Accounts	• •	•		,		
Interest on deposits, taxes e	ic.	•			23,046	
Temporary Loans .	•				1,883,000	
Premiums on Loans .		•				50
Refunds		•			1,836	56
Total receipts .					\$5,273,384	35
Balance at beginning of p	eriod .				163,241	
	1				\$5,436,625	89
					43,200,020	30

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

### Payments.

Appropriations Temporary Loans State Taxes and Assessments County Tax Trust Funds Income Tax Titles Real Estate Liens Advance to Poor Department Refunds Tellers' Overs and Shorts  Total Payments Transfer to Non-Revenue Balance on hand				\$2,705,047 1,785,000 502,618 107,532 3,386 4,105 10 50 1,337 16	00 80 49 37 17 32 00 14	\$5,109,104 104,313 223,207 \$5,436,625	17 73
NO	N-R	EVEN	IUE	•			
	Red	ceipts.				•	
Extreme Emergency, Bills F Redemption of Tax Titles Funded Debt Loan . Refunds	Recei · ·	vable ·		\$12 2,938 50,000 1,358	64 00		
Total Receipts . Transfer from Revenue Balance at beginning of	perio	d	• '			\$54,309 104,313 37,554	17 23
	Pay	ments				\$196,176	81
Appropriations		• •		\$121,529 2,938			
Total Payments . Balance on hand .						\$124,468 71,708	
						\$196,176	81
Total Revenue Receipts . Total Non-Revenue Receipts	Sun	nmary	•			\$5,273,384 54,309	
Total balance at beginning	ng of	perio	od			\$5,327,693 200,795	
Total Revenue Payments Total Non-Revenue Payments						\$5,528,489 \$5,109,104 124,468	99
Total balance on hand					197	\$5,233,573 294,916	
				1		\$5,528,489	53

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「AXES — SPECIAI

Total \$329,436 81 2,717,925 49	\$3,047,362 30 2,621,108 33 23,818 09	\$2,644,926 42 402,435 88 1t Total	\$936 24	25,795 32 57,868 37	\$84,599 93	64,274 21 325 93	\$64,600 14 19,999 79	2,707 78 17,292 01	\$19,999 79
\$2,717,507 98	\$2,717,507 98 2,298,609 54 19,256 47	\$2,317,866 01 399,641 97 Highway Betterment	\$936 24	13,966 28 8,577 00	\$23,479 52	16,124 59	\$16,124 59 7,354 93		
\$327,503 09 36 00	\$327,539 09 322,122 94 4,107 06	\$326,230 00 1,309 09 Sidewalks		\$5,059 05 4,629 29	\$9,688 34	4,544 14	\$4,544 14 5,144 20		
\$985 92 4 00	\$989 92 252 56 384 16	\$636 72 353 20 Sewer							
\$947 80	\$947 80 59 20 70 40	\$129 60 818 20 Moths		\$234 00	\$234 00	234 00	\$234 00		
Excise Tax \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$377 51 64 09	\$64 09 313 42 Street Sprinkling		\$6,535 99 44,662 08	\$51,198 07	43,371 48 325 93	\$43,697 41 7,500 66		
Uncollected January 1, 1920	Total to collect in 1920 Collections (less refunds)	Total collections and abatements . Uncollected December 31, 1920 .	Assessments levied, 1918, Balance January 1, 1920	Assessments levied 1919, balance Janu- ary 1, 1920	Total to collect	Collections (less refunds)	Collections and Abatements Uncollected	Uncollected 1919 Assessments Uncollected 1920 Assessments	Total Uncollected Assessments

### DEPARTMENTAL BILLS

Departmental Accounts, Pledged to Revenue.	Balance	Committed	Total to	Collected	Uncollected	
	Jan. 1, 1920	1920	Collect	and Abated		
Police Department	. \$125 72	\$163 62	\$289 34	\$171 03	\$118 31	
Maintenance Police Buildings	•	1,000 00	1,000 00	1,000 00		
Fire Department		5 00	5 00	20 20 20	•	
Health Department	. 319 43	509 60	829 03	269 43	559 60	
Contagious Hospital	. 4,375 41	8,532 30	12,907 71	9.539 35	3.368.36	
Inspection of Milk	. 23 50	245 00	268 50	245 50	23 00	
Sanitary Department	. 920 00	2,381 20	3,301 20	2.924 00	377 20	
Maintenance Sanitary Buildings		14 56	14 56			
Highway Maintenance	. 1,107 47	5,677 76	6,785 23	6,433 46	35.1 77	
Sidewalks Construction		129 53	129 53		129 53	
Maintenance Highway Buildings		240 00	_	240 00		
Poor Department - Miscellaneous	13,397 53	28,776 31	-		12.967 49	
Poor Department City Home	376 75	8,102 16			3 8 1 5 1 4	
School Contingent	502 31	9,175 76	9,678 07		3.049.07	
Maintenance School Buildings	00 96 .	740 55	835 55	785 40	50 15	
						_ (
Outlay Accounts Diadred to Announisticus	\$21,243 12	\$65,693 35	\$86,936 47	\$62,126 92	\$24,809 55	
Extreme Emergency	. \$46.36	• • • • • • • • • • • • • • • • • • •	\$46 36	\$46 36	:	

## WATER DEPARTMENT ACCOUNTS (REVENUE).

Balance	\$26,919 79	\$26,919 79	\$235,746 55 26,919 79	\$262,666 34	\$22,528 96	\$22,528 96
Abatements Collections (Net) Balance	\$188,986 71 39,477 51 1,905 10 4,438 36	\$235,746 55			\$11 64 . 22,517 32	
Abatements	\$339 83 751 99 291 76 359 29	\$1,742 87		*• •		
Commitments	\$216,246 33 40,229 50 1,230 63 1,905 10 4,797 65	\$264,409 21	• •		irter, 1919.	
		~	• •		Metered Rates Last Quarter, 1919.	
			· ;		Metered F	
			r, 1920			
	Metered Rates		Receipts	Water Revenue, 1920 .	Uncollected January 1, 1920 Abated	

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## STATEMENT OF ESTIMATED REVENUE.

32 00	100 50		94 36	267 32
• •	•	30 85 112 24 602 30 77 51	1,077 00	846 24 635 92 
		2,180 85 9,112 24 602 30 377 51	44,405 64 8,577 00 4,629 29	6,146 24 1,535 92 182 68 1,000 00 530 84
	•	2,150 00 9,000 00 300 00	44,500 00 7,500 00 5,000 00	5,300 00 900 00 450 00 1,000 00 50 00 500 09
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Milk Health City Clerk Executive Department Pedlers' License Commi	Electrical Department Building Department Miscellaneous Fines and Forfeits: Court Departmental Penalties	County, Dog Licenses State, Industrial School tate, Americanization Special Excise Tax.	Special Assessments: Street Sprinkling Street Betterments Sidewalks	Treasury Department City Clerk's Department Protection of Persons and Property Police Department Rent of Court Room Fire Department Sealer of Weights and Measures
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	350 00       342 50         100 00       68 00         100 00       68 00         100 00       3,900 00         100 00       160 00         100 00       1150 00         11,250 00       11,737 00         11,200 00       11,737 00         11,200 00       11,099 50         11,200 00       11,099 50         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,200 00       11,724 84         11,724 84       11,724 84	ses  250 00 342 50	Section   Sect

## STATEMENT OF ESTIMATED REVENUE.

Deficit 430 57 4 20			1,414 00		•	61 65	:
Excess 1,955 08 983 20	\$2,733 14	916 33 5,947 71	270 75	2,462 23 283 50	493 61	94 05 7	12,666 34
pts 43 08 80 80 80 80 80 80 80 80 80 80 80 80	14 00	33	00 00	23	61	00 35 05 81	34
Receipts 269 43 8,955 00 295 80 16,483 20	\$5,433 240	9,916 28,947	10,586 720 120	6,462	2,343	500 538 394 118	262,666
ate 00 00 00 00	00	00	000	000	00	00	00
Estimate 700 00 7,000 00 300 01 15,500 00	\$2,700 240	9,000 23,000	12,000 450 600	4,000	1,850	500 600 300	250,000 00
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Vine		ellan					
Health and Sanitation: Health Department. Contagious Hospital Inspection of Milk and Vinegar Sanitary Department.	Highways: Highway Maintenance Highway Buildings .	Charities: City Home Poor Department, Miscellaneous	Soldiers' Benefits: State Aid Military Aid Soldiers' Burials	Education: School Contingent . School Buildings .	Libraries: Library Department	Recreation and Unclassified: Electrolysis	Public Service Enterprises: Water Department .

41 29	\$6,734 14	\$492,840 00 527,652 35	\$34,812 35
3,771 10 .972 75	\$41,546 49		
$\begin{array}{c} 10,771 \ 10\\ 10,972 \ 75\\ 158 \ 71 \end{array}$	\$527,652 35		
7,000 00 10,000 00 200 00	\$492,840 00		
			•
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terest: Bank Deposits Deferred Taxes Deferred Assessments	, Totals	stimate	Excess

7.4											A	ND	٧U	Al	يا	R	EF	(0)	KT)	S.									
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Excess and	Deficiency			48 60				11 45	17 97		149 80			86 85		73 13		3 14		1 05	90 L		81 80	547 76		0 00 1	1 04	
,		Expenditures				7,540 77		20,967 54		32 03		550 20			12,074 60			2,893 47	16,735 86		8,338 95			18 20				1,124 96	
NUE).	Total	_		\$1,300 00	3,000 00	7,825 00		21,092 66		20 00		200 00			12,161 45		3,000 00	2,895 00	16,739 00		8,340 00			100 00	2,060 00		5,755 00 4 070 00	1,126 00	
1920 (REVE	Receipts and	Service Trans.			•	•		\$107 66		•					1,611 45		:		24 00		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14.00	14 03				:		
PRIATIONS,	Appropriation	Trans. to			•	• • • • • • • • • • • • • • • • • • • •	•	•	\$850 00					:				20 00	00 088		200 00	410.00	410 00			3	2,455 00	200 002	
OF APPROF	Annronriation Annronriation	tion Trans, from		•		•	•	•	\$50 00												•		• • • • • • • • • • • • • • • • • • • •				n T	00 66	
STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).		; ppropriation		\$1,300 00		7,825 00				20 00		200 00		300 00	10,550 00		3,000 00		15,835 00		8,140 00				2,060 00		3,300 1)0		(
			General Government	Board of Aldermen	Clerk of Committees	Executive Department	Auditing Department	Treasury Department	Assessons' Department .	Pedlers' License Commission	Board of License Commis-	sioners	Certification of Notes and	Bonds	City Clerk's Department .	Registration City Laborers .	Law Department	City Messenger's Department	Engineering Department .	Commissioner of Public Build-	ings	Maintenance Municipal Build-	ıngs	City Planning Board	Election Expenses, City Clerk	Election Expenses, Registrars	of Voters	Fay of Election Officers . Maintenance Polling Places .	

# STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).

	Appropriation	Appropriation Trans. from	Appropriation Appropriation Trans. from Trans. to	Receipts and Service Trans.	Total . Credit	Expenditures	Balance to Excess and Deficiency
Protection of Persons and Property.					•		
Police Department		3,000 00	•		183,990 00	183,974 40	15 60
Maintenance Police Buildings	4,389 00						88 66
Fire Department			20 00	1,928 43	-		
Maintenance Fire Bundings.		260 00		•		10,318 94	49 06
Wolfings and Measures.	19.069.00	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00 99	1 1		2,295 54	
Maintenance Electrical De-		00 646	:	45164	18,975 31	18,820 94	154 37
	1,457 00				1.457 00		176 44
Suppression of Moths	5,000 00	97 58					EE OIT
Care of Trees	3,275 00		97 58	• • •	3,372 58	3,372 34	24
H 0 1 4 4 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1							İ
Dealth Dengation.			;				
nealth Department Vital Citatiation	17,180 00	•	950 00	•	$18,130^{\circ}00$	18,127 34	2 66
Vital Stanistics	<b>.</b>				1,30000	1,220 36	79 64
Contagious Hospital	24,415 00	1,310 00	•	184 29	23,289 29		188 56
Manifellance Contagious Hos-							
Inspection Animals and Dro	4,510 00	•	•		4,510 00	4,204 05	305 95
visions	2 135 00						
Insuportion Mills and Vinogen					_		3 27
Inspection Milk and Villegar			350 00		_		5 09
mspection school Children .	1,700 00	:	10 00		1,710 00		59
School Nurses Salaries					_		150 03
Meintenance		1,390 00	• • • • • • • • • • • • • • • • • • • •	79 79	23,514 79	23,514 26	
Mailitellance Sewer Buildings	N			•	772 00		129 22
Sanitary Department	173,397 00		4,450 00	•	177,847 00	177,846 99	01

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The leader 45	Excess and Deficiency	46 39	21 24 05 1 48	301 41	792 93	9 71	653 49	36 59 3 50 999 00 162 94 480 00	629 96 427 03 262 44 7 66 59 00
	Expenditures	753 61 28,597 14	94,691 05 8,484 91 43,328 52 72,075 00	1,038 28	77,456 57	17,308 29	3,486 51	1,351 41 1,341 50 10,624 00 21,908 06 120 00	47,222 79 676,417 97 56,971 28 54,384 71 47,664 60
.(1).	Total s. Credit	800 00 28,600 00	94,712 29 8,484 96 43,330 00 72,075 00	1,339 69	78,249 50	17,318 00	4,140 00	1,388 00 1,345 00 11,623 00 22,071 00 600 00	47,852 75 676,845 00. 57,233 72 54,392 37 47,723 60
1250 (111-11)	Receipts and Service Trans		28,659 29 384 96	49 69	289 50	53 00		30 00 38 00 71 00	15 75 13 72 4,342 37 586 60
	Appropriation Trans. to		515 00 100 00 30 00	•		20 00	:	415 00	1,625 00 1,530 00
	Appropriation Trans, from	200 00 100 00		•	1,500 00			415 00	3.155 00
	Appropriation Appropriation Trans, from	1,000 00 28,700 00	\$65,538 00 8,000 00 43,300 00 72,075 00	1,290 00	\$79,460 00	17,215 00	4,140 00	1,388 00 900 00 12,000 00 22,000 00 600 00	\$47,837 00 680,000 00 57,220 00 48,425 00 45,607 00
		Maintenance Sanitary Bulldings Street Cleaning	Highways. Highway Maintenance . Sidewalks Maintenance . Street Sprinkling Street Lighting	Maintenance Highway Build- ings	iers' B 	F00r Department — City Home	S City	ធ	Education and Libraries School Contingent School Teachers' Salaries School Janitors' Services Fuel and Light Buildings and Grounds

# STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).

Balance to

Excess and	Deficiency	∞ ∞ • •••	4 77		0.1	212 19		4 99	158 84			138 62		, 11	148 76	31			1 76	2,696 48		103 99	2 91	10,000 00	97 17			2,996 75
	Expenditures	27.684 99	5,989 23		8,088 37	2,450 81		4,792 03	1 634 16	4,970 60		1,754 38		11,299 89	1,490 24			5,000 00	2,361 24	803 52	413 61	1,756 01	162 09	•	3,780 83	24,729 83		2,003 25
Total	Credit	27,693 36	5,994 00	10000	8,088 47	2,663 00	000	4,797 02	1.793 00	4,971 00		1,893 00		11,300 00	1,639 00	5,310 13		5,000 00				1,860 00			3,878 00	24,800 00		2,000 00
Receipts and	Service Trans.	476 36			134 47	:	60	41 02							:	150 13		•	:	:	:		15 00		18 00	,		
Appropriation	Trans. to		220 00			:		:				*		800 00	325 00	•		•				:						
Appropriation Appropriation	Trans. from					:			200 00	:		220 00		:	:		,		200 00	:		:			1,140 00	200 00		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Appropriation	27,217 00	5,774 00	00 700 7		2,663 00	00 324 7	4,750 00	1.993 00	4,971 00		2,113 00			314	5,160 00		000	563	3,500 00		1,860 00	150	000	000	25,000 00		5,000 00
		Central Library	Maintenance Central Library	west Somervine Branch Li-	Maintenance West Somerville	Branch Library	East Somerville Branch Li-	Maintenance Mast Comermille	Branch Library	Union Square Branch Library	Maintenance Union Square	Branch Library	Recreation and Unclassified	Parks Maintenance	Maintenance Park Buildings	Playgrounds Maintenance	Recreation and Playground	Commission	Maintenance Bathhouse	Celebrations	Memorial Day	Municipal Documents .	Maintenance Bandstand	Contingent Fund	Workmen's Compensation .	Pensions	Damage to persons and Per-	sonal Property

STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).

Balance to Excess and Deficiency	† 7,689 58	154 87	$148 60 \\ 165 36$		1,884 76	\$34,489 33
Expenditures	109,870 34 209,500 00		6,051 40 $986 64$	80 00 2,000 00	127,505 74	\$2,743,518 76
d Total 1s. Credit	117,559 92 209,500 00		$6,200\ 00$ $1,152\ 00$	80 00 $2,000 00$	129,390 50	\$46,067 09 \$2,778,008 09 \$2,743,518 76
Receipts and Service Trans.	510 42 132 00	5,594 79				\$46,067 09 \$
Appropriation Trans, to	2,909 50	3,400 00				\$23,697 08
Appropriation Appropriation Receipts and Trans. from Trans, to Service Trans	•		5,800 00 $125 00$		509 50	1
Appropriation	*\$114,140 00 209,368 00	\$62,500 00	12,000 00 $1,277 00$	80 00 $2,000 00$	129,900 00	\$2,728,716 00 \$20,472 08
	Municipal Indebtedness Interest Reduction of Funded Debt .	Water Works Water Maintenance	Water Works Extension . Maintenance Water Buildings	Interest on Water Bonds . Reduction of Water Debt	Metropolitan Water Assess- ment	Total Appropriations .

\* Including balance of \$1,215.00 from 1919. † Reserved for 1921, \$7,689 58.

# STATEMENT OF APPROPRIATIONS, 1920 (REVENUE).

	Balance to	\$521 \$521 43			14 62	176 59							207 07									:				7000	\$2,691 19 37,180 52	
1	T	\$186 18	2,139 85		28 41	233 80			310 21	18 67	•			1,785,000 00	502,618 80	107,532 49		4,105 17		16 83		1,068 51	167 03	87 55	14 05	1	5,147,575 88	
	Total	\$707 61	3,562 94			410 39		202 77		74 19	86 9		207 07	1,785,000 00	502,618 80	107,532 49		4,105 17		16 83			167 03	87 55	14 05	5	5,184,756 40	,
	Dogota	\$214 50	2,220 09				495.29		171 32	42 82	4 50		75 05				•	1									06.000,00	
	Balance	\$493 11				312 89	3 55	202 77		31 37	2 48		132 02	:		•			•	•						90 710 61	42,119 01	
	•		. •		•					•			•		•													
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		•	•		•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•	•	•			
		•	•		•	•	•	•	•	•	•		•	•	•	ı •	•	•	•	•		•	•	•	•			
		•	•		•	•	٠	-	•	•	•		•	•	•	•	•	•	•	•		•	•	•				
Other Accounts.	Income of Trust Funds:—	S. Newton Cutler .	Smith-Hughes	Library:	S. Newton Cutler	Martha R. Hunt, Art .	Martha R. Hunt, Book	Hunt Fund for Expenses	Isaac Pitman, Art	Isaac Pitman, Poetry.	Frances A. Wilder .	Poor:	Olive C. Cummings .	'Yemporary Loans	State Taxes and Assessments	County Tax	Advance to Poor Department	Tax Titles	Real Estate Liens	Tellers' Overs and Shorts.	Refunds:—	Taxes	Special Assessments .	Water	National Bank Tax .	Totol Othor A source	Revenue Totals	

# STATEMENT OF APPROPRIATIONS, 1920 (NON-REVENUE).

,
\$1,650 00
\$1,650 00
100 00

# STATEMENT OF APPROPRIATIONS, 1920 (NON-REVENUE).

	Balance from 1919	Appro- priation	Appropriation Appropriation Transfer from Transfers to	C	Receipts and Service Trans	Total Credit	Expenditures	Balance to 1921
New School Building, East Somerville . Schoolhouses,	1,046 70		:	•		1,046 70	:	1,046 70
Sprinkler Systems	3,539 88			:	•	3,539 88		3,539 88
School Addi- dition, No. 2.	353 35	4				353 35		353 35
School Repairs				1,926 66	1,358 34	3,285 00	3,285 00	
Recreation. Field House, Somerville Field	3,538 41					3,538 41		3,538 41
Unclassified. Building Public Buildings .	548 11					548 11		548 11
Total Appropriation Accounts	\$37,554 23	\$158,400 00	\$1,750 00	\$3,576 66	\$1,813 37	\$199,594 26	\$127,885 56	\$71,708 70
Other Accounts Redemption Tax Liens					2,938 64	2,938 64	2,938 64	
Non-Revenue Totals .	\$37,554 23	\$158,400 00	\$1,750 00	\$3,576 66	\$4,752 01	\$202,532 90	\$130,824 20	\$71,708 70

### COMMONWEALTH OF MASSACHUSETTS.

### Payments.

State Tax Special State Tax State Highway Tax Non-Resident Bank Tax Metropolitan Sewer Assessme Metropolitan Park Assessme Wellington Bridge Assessmen Wellington Bridge Special A Grade Crossings Assessment Charles River Basin Assessm Alewife Brook Assessment	nt nt ssessm ent	: : : : : : : : :		\$245,420 0 11,569 8 481 5 3,820 6 89,939 2 57,509 5 1,977 4 1,543 3 9,171 8 9,693 8 1,140 6	30 56 31 226 59 40 30 30 39		
Abatement of Smoke Assess Fire Prevention Assessment Soldiers' Exemption Assessm Poll Taxes, Chap. 283, Acts Refund National Bank Tax 19	ent 1919	· · · ·	:	400 7 1,290 8 304 3 68,355 0 14 0	32 37 00	<b>\$502,632</b>	85
	•	•	•			ψ002,00 <u>2</u>	
	Rece	ipts.					
State Aid	•			\$25,901 4 225 0 295 2 154,770 2 52,590 0 2,394 0 1,995 0 13,699 5 6,136 3 1,466 1 2,220 0 39,963 4 6,286 5 10,651 5 6,419 7 93 6 3,127 1	00 27 23 00 00 00 66 36 12 09 42 52 54 70		
Total	•	•	• -		_	\$328,235	07
COUNT	Y OF	MIDDI	LES	EX.			
County Tax						<b>\$107</b> ,532	40
County Tax	•					φ101,002	10

### STATEMENT OF REVENUE AND EXPENSES.

### Revenue.

Total amount a Less State Ta Poll Taxes, County Tax Overlay .	axes for		•	comn	•	ents :	\$261,291 71,415 107,532 17,079	00 49	\$2,715,691	05
		1							457,319	24
Amount raised Other Revenue Commonwealth	<b>:</b>				ses				\$2,258,371	81
Income Tax,				•	•	•	\$1,995		,	
Income Tax,				•	•	•	2,394			
Income Tax,						•	46,175			
Income Tax,				•	•	•	136,692	65		
Revenue from					$\mathbf{y} \mathbf{W}$	ar-				
rants .					•	•	1,372			
Reserve Fund,					•	•	5,151			
Foreign Corpo			ise		•	•	50,000	00		
Estimated Reve			•		2,840		,			
Excess .		•	•	3	4,812	35				
		1		•			527,652			
Transfer from 1	Exces	s and	Defi	ciency	•		20,000	00		
									791,432	74
Total .	•	•	•	•	•	•			\$3,049,804	55
				Expen	ses.					
General Appropriately Appropriately Appropriately Metropolitan and	riatior	ıs	ssess	ments	•		\$2,703,826 110,326 172,971	66	0.007.104	<i>[7 A</i>
									2,987,124	
Excess of	Reven	ue			• `				\$62,679	81

### TEMPORARY LOANS, 1920.

Amount -	00	0 50,000 00 Nov. 3,	00 Nov.	0 50,000 00 Nov. 3,	50,000 00 Nov.	50,000 00 Nov.	100,000 00 Nov.	50,000 00 Nov.	20,000 00 June	8,000 00 June	30,000 00 Nov.	20,000 00	100,000 00	50,000 00 Sept.	50,000 00 Dec.	100,000 00	25,000	100,000 00 Nov.	100,000 00 Dec.	50,000 00 Nov.	0 50,000 00 Dec. 20,	50,000 00 Nov.	100,000 00 Oct.	0 50,000 00	0 20,000 00
Rate	4 9	5 2	5 2	5 2	5 2	5 20	5 8	5 8	5 0	5 0		5 2	5 65	5 6	5 6	ರ	ರ	50	5 8	6 1	6 1	6 1	0 9	0 9	0 9
Due	17,	က်	<del>ن</del> ى	<u>ښ</u>	က်	က်	17,	17,	15,	15,	17,	15,	21,	17,	15,	1,	10,	က်	15,	30,	20,	23,	14,	Sept. 1, 1921	15,
Issued	2,	18,	18,	18,	18,	18,	9,	9,	12,	12,	19,	15,	15,	14,	14,	1,	10,	14,	14,	4,	4,	4,	1,	Sept. 1, 1920	1,
Nos.	748 @ 754	755 @ 759	760 @ 765	222 @ 992	774 @ 778	779 @ 783	784 @ 788	789 @ 793	794	795	196 @ 797	C-78 @ C82	798 @ 799	800	801 @ 803	C-83 @ C86	C-87	804 @ 807	808 @ 811	812 @ 813	814 @ 815	816 @ 817	818 @ 820	C-88 @ C97	821 @ 822
Taken By	Grafton Co	Somerville National Bank.	Old Colony Trust Company.	National Security Bank .	Somerville Trust Company.	Highland Trust Company .	Old Colony Trust Company.	Old Colony Trust Company.	Harris, Forbes & Co	Harris, Forbes & Co	Harris, Forbes & Co	*Curtis & Sanger	Old Colony Trust Company.	Harris, Forbes & Co	F. S. Moseley & Co	*Old Colony Trust Company.	*Old Colony Trust Company.	Solomon Bros. & Hutzler .	Solomon Bros. & Hutzler .	Harris, Forbes & Co	Harris, Forbes & Co	Old Colony Trust Company.	Old Colony Trust Company.	*Qld Colony Trust Company.	Blodgett & Co

6 00 125,000 00 5 99 100,000 00 5 90 75,000 00 5 90 50,000 00	\$1,883,000 00 527,000 00	\$2,410,000 00 1,785,000 00	\$625,000 00
Jan. 31, 1921 April 14, 1921 Feb. 10, 1921 June 15, 1921	· · ·		
Sept. 10, 1920 Sept. 27, 1920 Oct. 8, 1920 Oct. 8, 1920			
Old Colony Trust Company       823 @ 824         F. S. Moseley & Co.       825 @ 833         Estabrook & Co.       834 @ 841         Estabrook & Co.       842 @ 846	Total amount of 1920 loans . Outstanding January 1, 1920 .	Payments 1920	Outstanding December 31, 1920

\* Coupon Notes, Interest Payable Semi-Annually.

Highway Loan .

Emergency Loan

Sewer Loan .

Water Loan

Total inside limit

Metropolitan Park Loan.

Total outside limit

Total Reduction .

Bridge Loan

### FUNDED DEBT.

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

### Classified Debt January 1, 1920.

City Loan				\$397,500	00		
Municipal Loan .				31,000	00		
Sewer Loan	•	•		239,000	00		
Public Building Loan				278,000	00		
Highway Loan .				289,000	00		
Bridge Loan				30,000	00		
Emergency Loan .				15,000	00		
Total within limit					\$1	,279,500	00
Sewer Loan		•		\$18,000	00		
Metropolitan Park Loan				10,000	00		
Water Loan				2,000	00		
Total outside limit		•				30,000	00
Total Funded Debt		•	•		\$1	,309,500	00
~ L	oan I	ncreas	ing the	e Debt.			
Permanent Pavement (H	Highw	ay Loa	an)			\$50,000	00
	J		,			, ,	
D-1-4 14:	1./		٠,	e 11			
Debt reductions	by m	aturi	ties w	vere as follo	ws:-	-	
City Loan				\$79,500	00		
Municipal Loan			•	8,000			
Sewer Loan	•			20,000			
Public Building Loan	•	•	•	24,000		. (	
Table Dallalle Doal		•	•	24,000	00		

68,000 00

1,000 00

5,000 00

\$3,000 00

1,000 00

2,000 00

\$205,500 00

\$6,000 00

\$211,500 00

### Classified Debt December 31, 1920.

City Bonds, 3½% .			•	\$33,000	00		
City Bonds, 4% .				255,000			
City Bonds, 41/4%.				30,000		·	
Municipal Bonds, 4½%			•	23,000			
Sewer Bonds, 3½%	•			62,000			
Sewer Bonds, 4%			•	134,000			
· · ·	•			_ ,			
Sewer Bonds, 41/4%.	•		•	23,000			
Public Building Bonds, 4%	-	•	•	179,000			
Public Building Bonds, 41/2	2%		•	75,000	00		
Highway Bonds, 41/2%			•	40,000	00		
Highway Bonds, 4%			•	127,000			
Highway Bonds, 3½%			•	54,000			
Highway Bonds, 5%.				50,000			
	•		•				
Bridge Bonds, 3½%	•	•	•	29,000			
Emergency Bonds, 4½%	•	•	•	10,000	00		
Total inside debt limit	t		•		,	<b>\$1,124,000</b>	00
Sewer Bonds, 4% .			•	\$15,000	00		
Metropolitan Park Bonds,		,	•	9,000			
Metropolitan 1 and Bonds,	0 /2//0	,	•				
FD 4-7	• 1					04.000	0.0
Total ouside debt lim	11	•	• ,			24,000	00
Total Fundad Daht						<b>\$1 1/9 000</b>	00
Total Funded Debt	•	•	•			<b>\$1,148,000</b>	00

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

1920.
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	Total	Matur-			\$194,500	164,5	125,5	101.5	88,000	74,000	64,0	56,0	54,0	47,0	38,0	33,0	23,0	23,0	16,0	11,0	11,0	5,0	4,0	3,0	2,0	2,000	2,0	1,0	1,0	<b>1</b> ,0	1,0	1,0	1,0	\$1,148,000
	_		Emergency	2 Loan	\$5,000	5,000	`						1				:																•	\$10,000
	Metropolitan	Park Assess-	, ment Loan	Chap. 325, 1902	. \$1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000				:		•										•				•	\$9,000
o.	Sewer		Chap. 357,	1895 C	\$3,000	3,000	3,000	3,000	3,000					•					•															\$15,000
ER 31, 192	Lowell	Street	Bridge	Loan	\$1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1.000	1,000	1,000	1,000	1,000	1,000	\$29,000
, DECEMBER 31, 1920.			Highway	Loan	\$64,000	55,000	36,000	36,000	25,000	20,0,00	12,000	9,000	9,000	5,000																				\$271,000
FUNDED DEBT		Public	Building	Loan	\$24,000	, 19,000	18,000	18,000	18,000	18,000	17,000	16,000	16,000	16,000	15,000	15,000	14,000	14,000	8,000	4,000	4,000						•		•	•				\$254,000
FUND				Loan	\$20,000	20,000	18,000	17,000	17,000	15,000	14,000	12,000	11,000	10,000	10,000	8,000	8,000	8,000	7,000	6,000	6,000	4,000	3,000	2,000	1,000	1,000	1,000					•		\$219,000
			Municipal	Loan	\$8,000	8,000	7,000																			•								\$23,000
			City	Loan	\$68,500	52,500	41,500	25,500	23,000	19,000	19,000	17,000	16,000	15,000	12,000	000'6							•			•	•							\$318,000
											,																•							

Mature 1921 1922 1923 1924 1925 1926 1926 1937 1933 1933 1933 1934 1935 1938 1938 1941 1944 1944 1945 1946 1946 1946

### MATURITIES ON FUNDED. DEBT, 1921.

\$68,500 00 23,000 00 24,000 00 1,000 00 1,000 00 1,000 00 1,000 00 5,000 00 5,000 00	\$194,500 00  Total \$11,767 50 1,035 00 8,856 25 10,315 00 10,095 00 315 00 425 00	\$43,806 25
\$2,000 00	\$2,000 00 \$2,495 00 \$2,867 50 1,260 00 3,445 00 490 00	00 /00',01¢
\$23,500 00 \$20,000 00 10,000 00 13,000 00 5,000 00 5,000 00	\$65,500 00  T, 1921.  July 1, 1921  \$2,957 50 517 50 1,435 00 3,787 50 1,015 00 1,015 00 212 50 212 50	\$10,00¢
\$34,000 00 10,000 00 5,000 00 43,000 00 1,000 00	EREST REQUIREMENTS ON FUNDED DEBT, 1921.  Jan. 1, 1921 April 1, 1921 July 1, \$3,137 50 \$3,177 50 \$2,95 517 50 \$3,978 61,430 00 3,063 75 1,43 3,907 50 1,360 00 3,78 1,295 00 4,340 00 1,01 157 50 819 75 1,50 810 08 1,50 810 75 810 08 8	\$12,440 ib
\$9,000 00 3,000 00 6,000 00 16,000 00	\$34,000 00  Lan. 1, 1921 \$3,137 50 517 50 1,490 00 3,907 50 1,295 00 1,295 00 1,295 00 212 50 212 50	010,111 00
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City	Total  Class of Loan City  Municipal  Sewer  Public Buildings Highway  Bridge  Metropolitan Park Extreme Emergency	• 1000

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Total 96,000 00 52,000 00 34,000 00 23,000 00 6,000 00 6,000 00 21,000 00 20,000 00	00 000	Total 25,206 25 11,880 00 65,795 00 64,390 00 71,610 00 6,510 00 2,415 00 2,240 00 2,240 00 2,375 00
3 11 8	\$1,339,000	
000 000	00 0	25 00 5 00 5 00 5 00 5 00 5 00 5 00 5 00
\$68,500 8,000 23,000 24,000 64,000 1,000 1,000	\$194,500	\$11,767 1,035 8,856 10,315 10,095 997 315 425
000000000000000000000000000000000000000	00 6	75 75 75 75 75 75 75 75 75 75 75 75 75 7
\$79,500 8,000 23,000 24,000 68,000 1,000 1,000 2,000	\$211,500 00 (SIX YEARS)	\$14,757 1,395 9,748 11,300 11,457 1,032 350 80 637
000000000000000000000000000000000000000	1 —	75   000 000 000 75   000
1919 8,000 8,000 23,000 24,000 1,000 1,000 4,000 5,000	3,500 0 DEBT	1919 11,755 1,755 10,641 12,285 12,162 1,067 385 240 850 850
\$92,500 8,000 23,000 24,000 78,000 1,000 1,000 4,000	0 00 \$236,500 FUNDED DEB	\$18,162 1,755 1,755 10,641 12,285 1,067 385 240 850 857,548
000000000	00 N	75 00 00 00 00 00 50 50
\$105,500 8,000 23,000 24,000 79,000 1,000 1,000 5,000	51,50 ON	\$22,143 \$21,143 \$2,115 \$1,1533 \$13,270 \$1,102 \$420 \$440 \$1,062 \$1
000000000000000000000000000000000000000	00 MEN	25 25 000 000 000 000 000 000 000 000 00
\$118,500 10,000 22,000 19,000 56,000 1,000 1,000 5,000	\$232,500 00 \$28	\$26,606 2,565 12,306 9,980 13,822 1,137 455 640 \$67,512
000000000000000000000000000000000000000	18 F	75 75 00 00 00 00 20 20 20 20 20 20 20 20 20
\$131,500 10,000 20,000 8,000 36,000 1,000 1,000 5,000	\$212,500 INTERES	\$31,768 \$3,015 \$3,015 12,708 7,240 9,747 1,172 490 840
	. =	
Class of Loan City Municipal Sewer Public Buildings Highway Bridge Metropolitan Park Water		rk
oan ings Par	•	ings:  i Pa  i Pa  ierge
of I uild itan Em	1	of I lifan itan lifan lifan
Class of Loan nicipal rer lic Buildings hway stee ropolitan Pa ter	Total	Class of Loan  nicipal  rer  lic Building;  hway  lge  ropolitan Pa  ter  reme Emerg
Class of Loan City Municipal Sewer Public Buildings Highway Bridge Metropolitan Park Water		Class of Loan City Municipal Sewer Public Buildings Highway Bridge Metropolitan Park Water Extreme Emergency
ONGHUMANA		

### BORROWING CAPACITY DECEMBER 31,-1920.

Valuation, 1918 Supplementary	•	•			Š.	\$84,639,280 24,700		\$84,663,980 00
Valuation, 1919 Supplementary					•.	\$87,353,424 39,300		87,392,724 09
Valuation, 1920 Supplementary	•	· -	•	• '	•	\$83,910,855 17,700		83,928,555 60
Abatements, 1918 Abatements, 1919 Abatements, 1920		•				\$377,189 331,375 389,950	00 00	\$255,985,259 60
. Average valuation			year	s				1,098,514 00 \$254,886,745 60 \$84,962,248 53
Two and one-half present debt with	in lii	mit	•				, -	2,124,056 21 1,124,000 00
Borrowing capacity Maturities:—  January 1, 192  April 1, 1921  July 1, 1921  Less outside li	21 ·	cembe	· • \$68	5,500 4,000		\$34,000 93,000	00	\$1,000,056 21
October 1, 192			•		•	2,000		
Maturities	\$190,500 00 \$1,190,556 21							
Total mate	ıritie	s on	funde	d del	bt,	1921 .		\$194,500 00

### ABATEMENTS SPECIAL ASSESSMENTS PRIOR YEARS.

Charges: Street Sprinklinig, 1919			,			<b>\$6</b> 9	49							
Credit: Excess and Deficiency .						<b>\$6</b> 9	49							
REFUNDS TAXE	s, cı	НАРТ	ER 49	, ACTS	1918.									
Charges: Taxes 1918 Refunded.						<b>\$</b> 2	31							
Credit: Excess and Deficiency.						\$2	31							
WATER CHARGES	19 <b>19</b>	REF	UNDE	OR A	BATED									
Charges:														
Metered Credit:	•	•	•			\$23	64							
Excess and Deficiency.	•	•	•			\$23	64							
TELLERS'	TELLERS' OVERS AND SHORTS.													
Charges: Shortages						- \$16	83							
Credit: Excess and Deficiency.					*	\$16	83							
STATE	INCO	ME .	TAX,	1917.										
Charges:			ŕ		.:									
To Revenue 1920 . Credit:	•	•	•			\$1,995	00							
Cash from Commonwealth	•	•	•			\$1,995	00							
STATE	INCC	ME.	TAX, 1	918.										
Charges: To Revenue 1920 .			•			\$2,394	00							
Credit: Cash from Commonwealth						\$2,394	00							
STATE	INCO	ME -	ΓΑΧ, 1	919.										
Charges: Balance due from Common	rweal	th		\$6,415										
To Revenue 1920 .			•	46,175	00	52,590	0.0							
Credit: Cash from Commonwealth		•				52,590								
STATE	INCC	MF T	ΓΑΧ. 19	920		-								
Charges:						•								
Estimate Account General Estimate Account General			ıd •	\$75,250 61,442	65									
Credit:					\$1	.36,692	65							
Cash from Commonwealth		٠	٠		1	54,770	23							
Balance to 1921 accou	int		•		\$	18,077	58							

# TAX TITLES

	-0.
Charges: Balance from 1919 account. Titles purchased, 1919 taxes Land Court Fees.	\$2,079 29 3,955 17 150 00 \$6,184 46
Credit: Cash	\$96 78 . 171 20 267 98
Balance to 1921 account .	. \$5,916 48
REAL ESTATE	LIENS.
Charges: Transfer from Tax Titles account Taxes, 1919	\$171 20 10 32
Balance to 1921 account .	\$181 52
GRADE CROSSINGS	ADVANCES.
Debit: Balance from 1919 account.	. \$427 30
TAILING	s.
Credit: Balance from 1919 account.	. \$291 65
PREMIUMS ON	BONDS.
Credit: Balance from 1919 account Premium, Loan of April 1, 1920 .	. \$132 00 . 90 50 
Charges: Transfer to General Appropriations	. 132 00
Balance to 1921 account .	. \$90 50
ACCRUED INTERES	T ON BONDS.
Credit: Cash, Loan of April 1, 1920.	. \$437 50
Cash, Temporary Loan	. 72 92 \$510 42
Charges: Transfer to General Appropriations	. \$510 42
REVENUE FROM TAXES, SUPPL	EMENTARY WARRANTS.
Balance from 1919 account	. \$1,403 94
Supplementary Warrant, No. 3, 1919 Supplementary Warrants 1920, Po	
Nos. 6 and 7 Supplementary Warrant 1920, Perso	. 1,270 00
al No. 1	546 93
Abated Polls	·· 57 00
	\$3,311 87

Charges: Abatements Credit to Commonwealth	A ccour	•	<b>\$161</b>	54.		
Polls	Accour	•	762	00		
To Revenue 1920	•	•	1,372		2,295	62
Balance to 1921 account				_	\$1,016	25
REDEMPTION	OF T	AX TI	TLES.			
Credit: Cash Received					\$2,938	64
Titles redeemed, cash paid.		•			\$2,938	64
OVERLAN Over	ACCC					
Balance from 1919 account.		•			\$947	80
Charges: Abatements			\$70	40		
Transferred to Reserve Fund	•	•	59	20	129	60
					129	<del></del>
Balance to 1921 account	•	•			\$818	20
	·lay, 19	18.				
Credit: Balance from 1919 account. Recommitment Taxes.			\$985 4	92 00	_	
					\$989	92
Charges: Abatements			\$384			
Transferred to Reserve Fund	• •	•	252	<u>56</u>	636	72
Balance to 1921 account				-	\$353	
Qver	lay, 19	19				
Credit:	1ay, 13	13.				
Balance from 1919 account Recommitment Taxes .	•		\$2,955 2	89 00	,	
Transferred from Reserve Fundament	d.		1,000	00	***	00
Charges: Abatements		-			\$3,957 4,053	
	•	•				
Debit Balance to 1921 accou		•			\$95	63
Over Credit:	lay, 192	20.				
Taxes, 1920		. ` \$	17,079	78		
Charged to Commonwealth Polls	Accoun	ıt	3,888	00 .		
		-		•	\$20,967	78
Charges: Abatements	•				19,148	47
Balance to 1921 account					\$1,819	31

CITY AUDI	TOR. 35
RESERVE FUND, SURPLU	JS FROM OVERLAY.
Credit: Balance from 1919 account Transferred from Overlay, 1917 Overlay, 1918	. \$14,086 43 . 59 20 . 252 56
Charges:	\$14,398 19
Transferred to Overlay, 1919 . Revenue, 1920 .	. \$1,000 00 . 5,151 66 
Balance to 1921 account .	. \$8,246 53
EXCESS AND D	EFICIENCY.
Credit: Balance from 1919 account Refunds accounts of previous years Adjustment Military Aid 1919.	. \$25,796 97 . 233 85 . 22 50
Revenue 1920, Excess	. 62,679 81 \$88,733 13
Charges: Transfers to reduce tax levy Adjustment State Aid 1919. Abatement Special Assessments Pr Years	. 69 49
Refund Taxes Chap. 49, 1918 . Water Charges 1919 Abated . Tellers' Overs and Shorts	. 2 31 . 23 64 . 16 83
•	20,279 77
Balance to 1921 account · .	\$68,453 36
CLASSIFICATION OF RECEIPT	
General Revenue.	s.
Taxes:—	,
Taxes, 1920	\$2,299,590 84 \$322,195 84
Taxes, 1918	. 322,193 84
Taxes, 1917	63 20
From State:—	
Domestic corporation	. 39,963 42
Foreign corporation	6,286 52

Taxes	1918	8.						260	56
Taxes			·	Ţ	•	Ĭ	•		20
From			•	•	•	•	•	00	20
		corp	orotio	2				20.062	49
				1.	•	•	•	39,963	
	_	corpor		•	•	•	•	6,286	
		Bank	-		•	•	•	6,419	70
		ailway				•		10,651	54
Inco	me ?	Гах, 19	920					154,770	23
Inco	me ?	Гах, 19	919					52,590	
		Гах, 1						2,394	
		Γax, 19		•		•		1,995	
		Ship		•	•		•		
EXCISE	Tax	., ошр	Owne	ers	•	•	•	04	09
Licenses		Perm	nits.						
Licenses	s:—								
Amus	emen	t.						910	00
Dealer	rs in	Motor	· Vehi	cles				690	00
Junk								980	00
Milk	·	·	·	·		Ť	•	342	
2,21111	•	•	•	•	•	•	•	J12	90
Carried	forw	ard						\$2,900,167	44
			•	•	•	•		Ψ=,000,101	- X

Brought forward				•	\$2,900,167	44		
Pool and billiards					- 326	00		
Sunday .					570	00		
Innholders and Vic	ctuallers	s .			98			
Pedlers .					765			
Pedlers . All other . Permits:—			• '	•	262	50		
Marriage					1 904	00		
Marriage .	•	•	•	•	1,294	50		
Buildings . Garages .			•	•	1,099 492	90		
Garages . Electrical .	•	•	•	•	1,737	00		
Electrical .					1,131	00		
All other		•	•	•	90	00		
Fines and Forfeits.						,		
Court Fines .					3,724	84		
Departmental Pena	alties .	•	•		288	00		
Departmental Lena	arcies .	•	•	•	200	00		
Grants and Gifts.								
From State, — Voc Smi	ational	Schools			9,112	24		
Smi	th-Hugh	ies Fur	nd		2,220			
Ame	ricaniza							
From County, — Do			•		2,180			
From County, De	og mico	abob	•	•	2,100	00		
All Other General Ro	evenue.							
State, In Lieu of T	Taxes				93	66		
Madal Classes	. 1. D					<b>←</b>	0007 100	
Total Genera	ıı Revei	nue.	•	•		4	32,925,123	42
Commercial Payanus	Snor	sial Ass	0000	onts	•			
Commercial Revenue	— Spec	cial <b>Ass</b>	essm	ents.	•			
For Expenses:—		cial <b>Ass</b>	essm	ents.		n.e		
For Expenses:— Street Sprinkling,	1920	cial <b>Ass</b>	essm	ents.	\$37,029			
For Expenses:— Street Sprinkling, Street Sprinkling,	1920 1919	cial Ass	essm	ents.	\$37,029 6,509	45		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919	1920 1919	cial Ass	essm	ents.	\$37,029	45		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919 For Outlays:—	1920 1919	cial Ass	essm	ents.	\$37,029 6,509	45		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919 For Outlays:—	1920 1919	•		:	\$37,029 6,509 234	45 00 94		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919 For Outlays:—	1920 1919	•		:	\$37,029 6,509 234	45 00 94		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919	1920 1919	: : : :	•	:	\$37,029 6,509 234 559 3,984	45 00 94 20		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments	1920 1919 		•		\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919	1920 1919 		•		\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments	1920 1919 	and 1918			\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00		
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments Total Comme	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·	: :	\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00	0.04.441	9.4
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·	: :	\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments Total Comme	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269	45 00 94 20 00	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855	45 00 94 20 00	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comme	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269	45 00 94 20 00 59	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comme	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269 rtmental.	45 00 94 20 00 59	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comm General Government. Treasurer and Coll Assessors	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269 rtmental.	45 00 94 20 00 59 	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comm General Government. Treasurer and Coll Assessors City Clerk	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269 rtmental. 6,146 2 1,535	45 00 94 20 00 59 ————————————————————————————————	\$64,441	21
Street Sprinkling, Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comm General Government. Treasurer and Coll Assessors City Clerk Engineering	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269 rtmental. 6,146 2 1,535	45 00 94 20 00 59 — 24 50 92 42	\$64,441	21
For Expenses:— Street Sprinkling, Street Sprinkling, Moths, 1919  For Outlays:— Sidewalks, 1920 Sidewalks, 1919 Street Betterments Street Betterments  Total Comme cial Assess  Comm General Government. Treasurer and Coll Assessors City Clerk	1920 1919 	and 1918	· · · · · · · · · · · · · · · · · · ·		\$37,029 6,509 234 559 3,984 2,855 13,269 rtmental. 6,146 2 1,535	45 00 94 20 00 59 ————————————————————————————————	\$64,441	21

#### CITY AUDITOR.

Brought forward				\$7,692	75 \$	2,989,564	66
Protection of Persons and Pr	operty						
Police Department:— Service of Officers .			•	175	27		
	i			_			
Rent of Court Room .				1,000	00		
Fire Department		•		5	00		
Fire Department Sealer of Weights and Meas	sures			530	84		
Health and Sanitation.				,			
Contagious Hospital .				8,955	08		
Health Department .		·		269			
Inspection		•		295	80		
Sanitary Department:—							
Garbage			•	16,083			
Incinerator		•	•	400	00		
Sanitary Buildings				. 14	56		
Highways.							
Labor and Materials .				5,433	14		
Rent of Tenements .				240	00	1	
Ob - wikin-						*	
Charities. Almshouse:—						/	
Sale of produce, etc			•	5,317	21		^
Roard	•	•		4,599			
Board Outside Relief:—	•	•	•	1,000	02		
Individuals				495	10		
Individuals Cities and Towns .		,		8,616			
State				6,136			
Mothers' Aid:—							
State				13,699	56		
Soldiers' Benefits.							
State Aid				25,901	48		
Military Aid	•		•	225			
Soldiers' Burials			•	295			
			·				
Education.			,				
Tuition State Wards . Other Tuition	•	•	•	1,466 4,923	12		
Sale of Books and Supplie		•	•				
Rent High School Hall .	S .	•	•	$\begin{array}{c} 50 \\ 625 \end{array}$			
Miscellaneous, School Buildi	ngs	•	•	160			
All other			•	19			
			·		-		
Libraries.							
Fines, etc	•	•	•	2,343	61		
Recreation.							
Bathhouse				538	35		
Shower Baths				394			
Uncloseified							
Unclassified. Electrolysis				500	0.0		
Miscellaneous	•	•	•	500			
infloction	•	•	•	96	10		
Total Commercial F	Revenu	e — 1	De-				
partmental .						\$117,506	79
					_		
Carried forward					\$	3,107,071	45
	J						

Brought forward .		•			•				
Commercial Revenue -	– Pu	blic	Servi	ce E	Enter	prises.			
Brought forward Water Department:—		•		•	•			\$3,107,071	45
Sale of Water:— Metered, 1920 Metered, 1919		•		• 0	:	189,027 22,517			
Annual Additional		•				39,512 938	75 87		
Service Assessments Maintenance Bills .		•		•	•	1,905 4,438			
Total Commerci					blic -		_		
Service Ente	erpri	ses	•	•	•			\$258,339	<b>4</b> 2
Commercial Revenue -		eres	t.			10 771	10		
Deposits	•	•	•	•	•	10,771 $10,972$			-
Special Assessments.		•	•	•	•	158			
Trust Funds:—		•	•	•	·	200	• •		
School			•		•	214	50		
Library		•				854	31		
Poor Department .						75	05		
Total Commercia	l Re	venu	ie — I	nter	rest			\$23,046	42
Municipal Indebtedness	s.								
Temporary Loans:— Anticipation of Revergemental Loans:—	nue	•				1,883,000	00		
Highway						50,000	00		
Premiums on Loans .	•		•	•	•		50		
Total Municipal			ness	•			- \$	<b>1,933 09</b> 0	50
Agency, Trust and Inve Redemption of Tax			•					<b>\$2,</b> 938	64
Refunds. Soldiers' Benefits .						139	00	-	
General Appropriation	าทธ				•	1,411			
Outlay Appropriation			•		•	1,370			
Miscellaneous .					•	285			
			•	•					
· Total Refunds		1	•	•	•			\$3,207	33
Total Receipts .				•	•			\$5,327,693	76

# EXPENDITURES. GENERAL GOVERNMENT.

		Expenses	Outlays
Board of Aldermen Expenses.			
Books, postage and supplies	\$62 89		
Printing and advertising.	168 75		
Binding	8 50		
Auto hire, etc	6 00	,	
Refreshments	775 77 88 20		
Badges Short-hand reporter	137 20		
A 11 - 4h	9 80		
All other	<del></del>	\$1,257 11	
Olark of Committees Description		42,201 12	
Clerk of Committees Departmen	τ.	ı	
Salaries and Wages:—	@0.100.00		
Clerk	\$2,100 00 700 00		
Assistant Clerk Other Expenses:—	100 00		
Books, postage and sup-			
plies	40 55		
Telephone	89 35		
All other	21 50	•	
		2,951 40	
Executive Department.		,	
•			
Salaries and Wages:—	<b>04 000 00</b>		
Mayor	\$4,000 00 1,500 00		
Clerks	1,041 25		
Other Expenses:—	1,041 25		
Books, postage and sup-			
plies	210 99		
Printing and advertising	42 50		
Inaugural expenses .	200 30		
Telephone	141 40		
Auto hire	12 00		Ψ.
Contingent expenses .	382 28		
All other	10 05		
		7,540 77	
Auditing Department.			
Salaries and Wages:			
Auditor	\$3,100 00		
Clerks . *	2,276 17		
Other Expenses:—			
Books, postage and sup-			
plies Printing and advertising	65 15		
D: 1:	635 70		
Binding	52 00		
Telephone Numbering machine .	$\begin{array}{cc} 42 & 56 \\ 16 & 00 \end{array}$		
All other	20 59		
	20 00	6,208 17	
Carried forward		\$17,957 45	

	Expenses	Outlays
Brought forward	\$17,957 45	
Treasury Department.		
Salaries and Wages:—		
Treasurer and Collector \$4,000 00		
Deputy Collector . 2,000 00		
Cashiers 2,549 40 Clerks 7,726 04		
Other Expenses:—		
Books, postage and sup-		
plies 2,497 21		
Printing and advertising 1,090 39		
Telephone 145 03		
Bonds 241 00		
Carfares 32 40 Convention expenses . 139 77 New typewriters 154 75		
New typewriters 154 75		,
All other 283 89		
	20,859 88	
Assessors' Department.		
Salaries and Wages:—		
Chairman \$2,800 00		
Assessors 4,800 00		
Assistant Assessors . 1,800 00		
Clerks (Office) 6,807 08		
Clerks (Street) 500 00		
Other Expenses:—		
Books, postage and sup-		
plies		
Printing and advertising 1,282 32		
Carfares, auto hire etc 41 90		
Telephone 39 01		
All other 94 58	10.004 ==	
Beaut of Linear Commissioners	19,094 55	
Board of License Commissioners. Salaries and Wages:—		
Inspector \$160 00		
01.1		
Clerk		
D4 11: 07 07		
Drinting 59.95		
Carfares		
Carrares	550 20	
Pedlers' License Commission.	000 20	
Books, postage and sup-		
plies \$32 03		
φου σο	32 03	
Certification of Notes and Bonds.	32 00	
Certifying \$280 00		
Postage 3 16		
	283 16	
City Clerk's Department.		
Salaries and Wages:—		
City Clerk \$4,000 00		
Assistant City Clerk . 2,100 00		
Clerks 3,654 20		
Carried forward \$9,754 20	\$58,777 27	

				Expenses	Outlays
Brought forward .		\$9,754	20	_	O dellay is
	•	φυ, ιυτ	20	ψυο, ττι 21	
Other Expenses:— Books, postage and	sun.				
plies		338	46		
Printing and advert	tising		60		
Binding	•		00		
Telephone	•	165			
Badges	•		$\frac{25}{50}$		
All other .			<del></del>	10,463 15	
				10,100 10	
Registration City Laborates and Wages:—					
Registration Clerk	_	\$400	0.0		
Other Expenses:—	•	Ψ100	00		
Books and postage.	•	5	00		
Printing	•	5	50		
Law Danastmant				410 50	
Law Department. Salaries and Wages:—	_				
City Solicitor .		\$2,700	00		
Other Expenses:—		<b>,</b> ,,,,,,,,			
Books, postage and	sup-				
plies			75		
Recording deeds . Clerical hire	•		$\frac{25}{00}$		
Witness fees, etc.	•		75		
Telephone .			00		
All other	•		<b>1</b> 2		
	-			2,926 87	
City Messenger's Depa		•			
Salaries and Wages:— Messenger	-	\$2,200	00		
Messenger Other Expenses:—	•	ψ2,200	00	,	
Auto maintenance.		651	01		
Telephone			46		
Carfares	•	19	00		`
Engineering Donartmon	- ^+			2,893 47	
Engineering Department Salaries and Wages:—					
City Engineer .		\$4,000	00		
Assistants	•	7,544	68		
Clerks	•	1,099	00		
Other Expenses:—	to ==0				
Books, printing, post supplies, etc.	tage,	83	40		
Telephone	•	107			-,
Auto maintenance.		2,001			
Instruments and ed	quip-				
ment	100		64		
Carfares	•	248			
New auto Use of auto	•	1,500 $105$			
All other			00		
	-		_	16,711 86	
~			٠		
Carried forward .	•			<b>\$</b> 92, <b>1</b> 83 <b>12</b>	

	,	Expenses	Outlays
Brought forward		\$92, <b>1</b> 83 <b>1</b> 2	•
	0	, , , , , , , , , , , , , , , , , , ,	
Public Buildings Department, sioner of Public Buildings.	Commis-		
Salaries and Wages:—			
Commissioner	\$3,100 00		
Inspector of Plumbing .	1,900 00		
Clerks Other Expenses:—	1,986 23		
Other Expenses:—			
Books, postage and sup-	208 34		
plies Printing and advertising	34 75		
Telephone	178 01		
Auto maintenance	757 27		
All other	24 65	•	
		8,189 25	
Maintenance Municipal Buildin	nas. City		
Hall and City Hall Annex.	.gc, C.c,		
Salaries and Wages:—			
Janitors	\$5,024 28		
Labor	752 32		
Other Expenses:—	0.555.05		
Fuel and light	3,577 97		
Furniture and furnishings	1,036 27		
Janitors' supplies	323 88		
Repairs to buildings .	334 19		
Heating apparatus and	332 20		
equipment	265 83		
Plumbing and supplies.	76 15		
Hardware and materials	194 71		
Ice	226 29		
All other	3 85	44.045.54	-
City Planning Board		11,815 74	
City Planning Board. Clerical hire	\$10 00		
Books, postage and supplies	8 20		
books, postage and supplies	0 20	18 20	
Election Expenses, City Clerk.		-0 -0	
Salaries and Wages:			
Clerks	\$600 00		
Other Expenses:—			
Equipment and supplies	99 44		
Printing and advertising	462 51	l .	
Carfares and auto hire . Ballot boxes and repairs	157 63 40 00		
Refreshments	151 30		
All other	1 36		
		1,512 24	
	•		
Election Expenses, Registrars o	f Voters.		
Salaries and Wages:— Registrars	\$1,989 50		
Clerks	583 97		
Clerical hire	1,000 00		
Carried forward	\$3,573 47	\$113,718 55	

•		Expenses	Outlays
Brought forward	\$3,573 47	<b>\$113,718</b> 55	r
Other Expenses:—	r .		
Stationery and Postage .	126 70		
Printing and advertising	1,907 52		
Refreshments	25 77	1	
Car hire	38 25		•
Registers	77 00 . 44		
All other	, 44	5.749 15	
Election Expenses, Pay of Ele	ction Of-	0,140 10	
ficers.	· · · · · · · · · · · · · · · · · · ·		
Salaries and Wages:—			
Wardens and clerks .	\$1,360 00		
Inspectors	2,718 00	4.070.00	
		4,078 00	1.
Public Buildings Department,	Mainte-		+ : -
nance Polling Places.			Tr.
Labor	<b>\$</b> 308 30		
Teaming	127 25		
Rent	52 50		
Lumber	280 97		•
Hardware and materials .	55 16		
Fuel and light	33 73		
Repairs to buildings All other	$\begin{array}{ccc}247&05\\20&00\end{array}$		
All other	20 00	1.124 96	
		1,124 90	

## PROTECTION OF PERSONS AND PROPERTY.

Extreme Emergency, Health Salaries and Wages:—	and Safety.	Expenses	Outlays
Clerk	<b>\$1</b> 67 37		
Investigator	3 50		
Other Expenses:—			
Telephone	4 38		
Emergency hospital .	3,600 00		
State Guard	18 00		
			\$3,793 25
Police Department.			, ,
Salaries and Wages:			
Chief	\$3,000 00		
Captains and Lieutenants	13,712 14		
Sergeants and Inspectors	12,282 60		
Patrolmen	142,868 99		
Special police	345 17		
Matrons	991 52		
Other employees	4,947 75		
Horses and Care of Same:-			
Hay, grain and straw .	273 62		
Shoeing	59 25		
All other	11 25		\
Carried forward	<b>\$178,492</b> 29	\$124,670 66	\$3,793 25

		Expenses .	Outlays
Brought forward	\$178,492 29	\$124,670 66	\$3,793 25
Equipment and Repairs:—			
Motor cycle and auto			
maintenance	2,170 83		
New Motor equipment .	1,517 00		
Equipment for men .	663 39		
All other	25 59		
Other Expenses:—			
Books, printing, postage	051 05		
and supplies	251 87		
Care of prisoners Telephone	$\begin{array}{c} 62 & 09 \\ 288 & 60 \end{array}$		
T / 1	61 75		
Bedding	33 00		
Travel and disbursements	195 94		
Convention Expenses .	104 76		
All other	107 29		
		183,974 40	
Public Buildings Department	t Mainte-	,	
nance Police Buildings.	c, manico-		
Salaries and Wages:—			
Janitors	\$1,934 42		
Labor	φ1,334 42 87 40		
Maintenance of Buildings:—	0. 10		
Fuel and light	1,554 37		
Janitors' supplies	105 05		
Furniture and furnishings	178 42		
Repairs to buildings .	138 53		
Heating apparatus and			
equipment	168 33		
Plumbing and supplies :	58 29		
Hardware and materials.	19 15	•	
All other	45 16		
		4,289 12	
Fire Department.			
Salaries and Wages:—			
Chief Engineer	\$3,000 00		
Assistant Engineers .	4,900 00		
Firemen	188,235 94		
Callmen	1,425 87		
Temporary and Emer-			
gency men	1,428 00		
Horses and Care of Same:	~=~ ^^		
Horses	575 00		
Hay, grain and straw.	5,077 48		
Shoeing	1,157 55		
Medicine and veterinary	78 91		
Harnesses, etc	42 45		1
Horse hire	372 50		
Equipment and Repairs:—	3,244 75		
Apparatus and equipment New car for District Chief	2,214 $53$		
THEW CAI TOI DISTINCT CHIEF	2,217 00		
Connied forward	0911 7E9 00	\$312,934 18	\$3,793 25
Carried forward	\$211,752 98	φυ12,004 10	ψυ, 100 20

				,		
,			Expen	ses	Out	lays
Brought forward		\$211,752 98	\$312,934	18	\$3,793	3 25
Hose		653 75				
Equipment for men .		125 57				
Power		9 91				
Hardware, tools, etc		209 98				
All other Other Expenses:—		2 00				
Books, printing, postage						
and supplies		104 92			·	
Telephone		500 53				
Janitors' supplies		279 58				
Furnishings		554 95				
Laundry work		335 51				
All other		270 66				
Supplies:—		200 02				
Grease and oil Gasoline		309 92 860 29				
Gasoline Fuel		4 50				
Ice		136 82				
Soda and acid		149 27				
All other		214 70				
			216,475	84		
Public Buildings Departm	ent,	Mainte-				
nance Fire Buildings.						
Salaries and Wages:—						
Labor		\$425 28				
Other Expenses:—		# F 4 F F 0				
Fuel and light		7,545 52				
Furniture and furnishings Janitors' supplies		584 57 34 30				
Janitors' supplies Repairs to buildings .		219 45				
Heating apparatus and		210 10				
equipment		302 14				
Plumbing and supplies.		322 59				
Lumber and materials .		351 53				
Putting in concrete floor		522 45				
All other		11 11				
,			10,318	94		
Weights and Measures Dep	artm	ent.				
Salaries and Wages:—		#1 000 00				
Sealer		\$1,600 00				
Labor Other Expenses:—		65 00				
Books, postage and sup-						
plies		30 51				
Printing and advertising		14 50				
Equipment and supplies.		54 75				
Telephone		29 07				
Auto maintenance		501 71				
			2,295	54		
Electrical Department.						
Salaries and Wages:—						
Commissioner		\$2,600 00				
•						
Carried forward		\$2,600 00	\$542,024	50	\$3,793	25

		Expenses	Outlays
Brought forward	\$2,600 00	\$542,024 50	<b>\$</b> 3,793 25
Clerk	994 33		
Labor	13,074 90		
Other Expenses:—			
Fire Alarm System .	321 48		
Police Signal System .	$452 \ 30$		
Auto maintenance	599 16		
Telephone	148 59		`
Books, printing, postage			
and supplies	164 29		
All other	14 58		
		18,369 63	
Public Buildings Department,	Mainte-		
nance Electrical Department			
Labor	\$753 00		
Fuel	400 12		
Light	104 41		
Furniture and furnishings.	15 75		
Heating apparatus and			
equipment	7 28		
		1,280 56	
Suppression of Moths.			
Labor	<b>\$3,63</b> 3 93		
Books, printing, postage			
and supplies	16 00		
Hired teams and trucks .	245 08		
Hardware, tools and equip-	222		
ment	620 51		
Insecticides	337 30		
Other materials and sup-	40.00		
plies	49 60	4.000.40	
		4,902 42	
Care of Trees.			
Labor	2,742 47		
Teams and trucks	462 94		
Equipment, hardware and			
tools	76 01		
Lumber and materials .	43 01		
Use of steam roller	31 50		
All other	16 41		
		3,372 34	

# HEALTH AND SANITATION.

## Health Department.

General Administration:—		-
Agent	\$1,600 00	
Clerks	2,641 83	
Medical Inspector and Bacteriologist	2,500 00	
Carried forward	\$6,741 83 \$569,949 45	\$3,793 25

		Expenses	Outlays
Brought forward	\$6,741 83	\$569,949 45	<b>\$</b> 3,793 <b>25</b>
Acting Medical Inspector Acting Bacteriologist .	179 85 89 93		,
Health Nurses	2,100 00		
Books, printing, and	2,100 00		
postage	405 62		
Carfares, etc	287 15		
Telephone	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$		
Quarantine and Contagious	10 99		
Diseases:—			
Board and Treatment:—			
Cities and towns.	519 50		
Other Institutions . Tuberculosis:—	576 80		
Board and Treatment:—			
Cities and towns	1,011 18		
State	3,069 10		
Other Institutions .	242 50	,	
Groceries and provi-	1 001 54		
sions	1,261 54		
Other Expenses:—			
Equipment and supplies.	122 61		
Auto maintenance Burying dead animals .	$\begin{array}{c} 886 \ 47 \\ 102 \ 33 \end{array}$		
All other	186 90		
		18,127 34	
City Clerk's Department, Vita	al Statistics.		
Canvassing and reporting births	\$728 00		
Reporting deaths	149 50		
Printing and advertising.	$\begin{array}{ccc} 116 & 05 \\ 126 & 25 \end{array}$		
Books and supplies	148 11		
Binding	19 50		
All other	49 00	1,220 36	
		1,220 30	
Contagious Hospital.			
Salaries and Wages:—			
Matron	\$1,200 00		
Nurses and other help.	10,005 91		
Other Expenses:—	0.4.0.00		
Drugs and medicines .  Medical attendance .	$\begin{array}{c} 246 & 02 \\ 128 & 00 \end{array}$		
Bedding, dry goods and	120 00		
clothing	388 26		
Groceries and provisions	9,096 02		
Equipment and supplies .	1,602 40		1
Telephone Electric power	77 51 129 39		
All other	42 93		
		22,916 44	
Carried forward	_	\$612,213 59	\$3,793 25

Brought forward		Expenses \$612,213 59	Outlays \$3,793 25
Public Buildings Department, nance Contagious Hospital.	Mainte-		
Salaries and Wages:—			
Janitor and labor Other Expenses:—	\$544 96		
Fuel	1,766 59		
Light	677 76		
Janitors' supplies	40 20		
Furniture and furnishings	611 87		
Repairs to buildings .	315 90		
Heating apparatus and			
equipment	129 62		
Plumbing and supplies.	56 74		
Hardware and materials.	53 66		
All other	6 75	4 904 05	
		4,204 05	
Inspection of Animals and Pr	ovisions.		
Salaries and Wages:—			
Inspector	\$2,100 00		
Other Expenses:—	04 #0		
Telephone	31 73	0 1 0 1 7 0	
		2,131 73	
Inspection of Milk and Vinegar.			
Salaries and Wages:—			
Inspector	\$2,300 85		
Milk Collector	1,500 00		
Other Expenses:—			
Books, printing and post-	115 00		
age	115 08		
Auto maintenance	815 85 950 00		
Equipment and supplies	236 48		
Telephone	38 86		
All other	42 79		
		5,999 91	
Inspection of School Children.			
Salaries and Wages:—			
Inspectors	<b>\$1,583</b> 26		
Other Expenses:—	Ψ1,000 20		
Books, printing and sup-			
plies	28 25		
Carfares	97 90		
		1,709 41	
School Nurses' Salaries.			
Salaries and Wages:—			
Nurses	\$1,749 97		
		1,749 97	
Sewers Construction.			
Salaries and Wages:—			,
Inspector	\$74 02		
Labor	2,407 62		
Other Expenses:—			
Carried forward	\$2,481 64	\$628,008 66	\$3,793 25
Carried forward	φ2, <del>1</del> 01 04	ψυ <u>2</u> 0,000 00	ψυ, ισυ Δυ

. 7		Expenses	Outlays
Brought forward	\$2,481 64	\$628,008 66	\$3,793 25
Teaming	625 60		
Pipe and fittings	54 61		
Brick and cement .	13 25		
Castings	60876 $1,00027$		
Contract work			4,784 13
Engineering Department, Sewe tenance.	rs Main-	•	
Salaries and Wages:—			
Inspector	<b>\$1,048</b> 30	~	
Labor	13,756 29	ı	94
Other Expenses:— Teaming	7,859 75		
Tools and equipment .	290 71		
Pipe and fittings	23 26		
Castings	40 40		
Other materials and sup-	18 32		
plies	10 02	/	
pump	96 77		,
Telephone	53 05		*
Repairs storm drain .	237 89		
All other	41 33		
	23,466 07		
Less service transfers for			
materials furnished other departments	31 60		
dopartimonts	<del></del>	23,434 47	
B.11: B.11: B.			
Public Building Department, nance Sewer Buildings.	Mainte-		
Salaries and Wages:—	<b>00.01</b> 40		
Labor Other Expenses:—	\$361 49		
Fuel	69 97		
Light	29 96		
Repairs to buildings .	8 50		
Plumbing Lumber and materials .	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
damper and materials .	110 21	642 78	
Sanitary Department.			
General Administration: Superintendent	\$2,300 00		
Bookkeeper	300 00		
Books, printing and sup-	- 50 0	•	
plies	90 07		
Telephone Auto maintenance	53 46 807 80		
All other	7 85		
_			
Carried forward	\$3,559 18	<b>\$652,085 91</b>	<b>\$8,577</b> 38

	4	Expenses	Outlays
Brought forward .	<b>\$</b> 3,559 <b>18</b>	\$652,085 91	\$8,577 38
Ashes, Rubbish and Garbage:—			
Labor	109,653 65		
Hired teams and trucks.	50,615 17		
Equipment and repairs.	940 19		
Rent of dump	300 00		
Materials and supplies.	61 64		
Stable Expenses:—			
Hay, grain and straw .	11,724 69		
Shoeing	404 84		
Veterinary and medicine	273 74		
Stable equipment	313 89		
		177,846 99	
Public Buildings Department, nance Sanitary Buildings.	Mainte-		
Labor	\$92 18		
Fuel	114 46		
Light	240 31		
Repairs to buildings .	262 25		
Lumber and materials .	42 81		
Plumbing and supplies .	1 60		
ridmoning and supplies	1 00	753 61	
Charact Claration		100 01	
Street Cleaning.	# 0 0 0 C # 1 9		
Labor	\$23,965 13		
Hired teams and trucks.	4,479 23		*
Equipment	117 78		
Printing	35 00	28,597 14	
		ZX 397 14	
		20,001 11	
		20,001 11	
ніс	HWAYS	20,001	
	HWAYS	20,000 11	
Highway Maintenance.	HWAYS	20,007	
Highway Maintenance.  General Administration:—		20,007	
Highway Maintenance.  General Administration:  Superintendent	\$3,100 00	20,007	
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk .		20,007	
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk . Books, printing, postage	\$3,100 00 2,711 47	20,001 11	,
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies	\$3,100 00 2,711 47 64 43	20,001 11	
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone	\$3,100 00 2,711 47		
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superin-	\$3,100 00 2,711 47 64 43 240 81	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Superintendent's auto	\$3,100 00 2,711 47 64 43 240 81 723 61	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Superintendent's auto  All other	\$3,100 00 2,711 47 64 43 240 81	20,001 11	
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General:—	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95	20,001 11	
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other Ceneral: Labor	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Superintendent's auto  All other  General:  Labor  Hired teams	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other Ceneral:— Labor Hired teams Tools, equipment and re-	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Maintenance  Superintendent's auto  All other  General:  Labor  Hired teams  Tools, equipment and repairs	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Superintendent's auto  All other  Ceneral:  Labor  Hired teams  Tools, equipment and repairs  Autos and supplies	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63	20,001 11	
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Maintenance  Superintendent's auto  All other  General:  Labor  Hired teams  Tools, equipment and repairs  Autos and supplies  New auto for foreman	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00		
Highway Maintenance.  General Administration:  Superintendent  Bookkeeper and clerk  Books, printing, postage  and supplies  Telephone  Maintenance  Maintenance  Superintendent's auto  All other  General:  Labor  Hired teams  Tools, equipment and repairs  Autos and supplies  New auto for foreman  Broken stone, gravel, etc.	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk . Books, printing, postage and supplies Telephone Maintenance Superintendent's auto . All other General:— Labor Hired teams Tools, equipment and repairs Autos and supplies . New auto for foreman . Broken stone, gravel, etc. Edgestones, bricks and	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk . Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General:— Labor Hired teams Tools, equipment and repairs Autos and supplies . New auto for foreman . Broken stone, gravel, etc. Edgestones, bricks and cement	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk . Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General:— Labor Hired teams Tools, equipment and repairs Autos and supplies . New auto for foreman . Broken stone, gravel, etc. Edgestones, bricks and cement	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80 250 78		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General:— Labor Hired teams Tools, equipment and repairs Autos and supplies New auto for foreman Broken stone, gravel, etc. Edgestones, bricks and cement Lumber Tarvia and road oil	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80 250 78 2,146 02		
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General: Labor Hired teams Tools, equipment and repairs Autos and supplies New auto for foreman Broken stone, gravel, etc. Edgestones, bricks and cement Lumber Tarvia and road oil Fuel	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80 250 78 2,146 02 927 92		
Highway Maintenance.  General Administration:— Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General:— Labor Hired teams Tools, equipment and repairs Autos and supplies New auto for foreman Broken stone, gravel, etc. Edgestones, bricks and cement Lumber Tarvia and road oil	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80 250 78 2,146 02		
Highway Maintenance.  General Administration:  Superintendent Bookkeeper and clerk Books, printing, postage and supplies Telephone Maintenance Superintendent's auto All other General: Labor Hired teams Tools, equipment and repairs Autos and supplies New auto for foreman Broken stone, gravel, etc. Edgestones, bricks and cement Lumber Tarvia and road oil Fuel	\$3,100 00 2,711 47 64 43 240 81 723 61 45 95 51,509 37 117 00 1,462 13 1,855 63 857 00 2,157 14 728 80 250 78 2,146 02 927 92		\$8,577 38

Brought forward	\$69,390 20	Expenses \$859,283 65	Outlays \$8,577 38
Hardware, paint and var-			
nish	483 45		
Other materials and sup-	100 00	•	
plies	139 69		
Horses	1,225 00		
Hay, grain and straw Shoeing	11,499.62 $349.25$		
Veterinary and medicine	197 81		
Harnesses and horse	191 01		
clothing	392 07		
All other	40 86		
Other Expenses:—	_		
Signs	313 32		
Taxes, City of Waltham .	281 20		
	84,312 47		
Less service transfers for			
teaming and use of equip-			
ment in other depart-			
ments	18,280 71		
		66,031 76	
Highways Construction, New St			
Labor	\$1,361 25		
Contracts	21,517 64		
Edgestone and circles .	5,234 50		
Tarvia	754 58		
Other materials .	1 90		
Advertising, recording, etc.	111 90		
Hired teams	551 37		
Use of roller	30 00		
All other	45 86		20 600 00
Highways Construction, Perman	ant Payaman	.+	29,609 00
T a b a se	\$209 18	11.	
Contracts	35,184 04		
Paving blocks	477 50		
Crushed stone, brick and	111 00		
cement	134 98		
Other materials	3 00		
Hired teams and trucks .	50 40		
Use of mixer	4 50		
Use of equipment	8 04		
All other	38 00		
		•	36,109 64
Highway Reconstruction and Re		1	
Labor	\$11,859 59		
Hired teams and trucks.	2,461 05		
Use of roller	1,250 77		
Tools and equipment .	742 04		
Tarvia	8,085 85	,	
Brick, stone, cement .	15,390 61		
Other materials	106 80		
All other	3 03	•	00.000 7.1
		•	39,899 74
Carried forward		\$925,315 41	\$114,195 76
Carrica for waru		ψυ20,010 41	фттт,120 10

		Expenses	Outlays
Brought forward		\$925,315 41	\$114,195 76
Sidewalks Construction.			
Labor Hired teams and trucks Contracts Stone, brick and cement Edgestone Other materials Equipment Use of mixer All other	\$1,499 65 246 17 6,526 53 967 84 606 90 22 30 56 31 21 00 15 50	,	9,962 20
Sidewalks Maintenance.			
Labor Equipment	\$5,207 48 58 47 795 40 45 00 1,931 74		
plies	61 86	8,000,05	
Street Sprinkling. Labor	\$5,594 63 3,284 19 4,121 04 23,987 70 198 00 5 25 6,115 69 21 70 32 \$72,045 27 29 73	43,328 52 72,075 00	
Public Buildings Department,	Mainte-	12,010 00	
nance Highway Buildings.			
Labor Fuel	\$42 81 412 95 213 46 6 75 183 29 128 68 65	988 59	
Carried forward		\$1,049,807 47	\$124,157 96

## CHARITIES.

•	1	Expens	es	Outlays
Brought forward		\$1,049,807	47	\$124,157 96
Poor Department.	A.F.O. O.O.			
Advance for immediate aid	\$50 00		00	
		- 50	00	
Poor Department, Miscellaneou	s.			
General Administration:—	<b>01</b> 000 00			
Agent	\$1,800 00			
Clerks	2,093 34	:		
Books, printing, postage and supplies	111 34			
Telephone	119 95			
All other	52 80			
Outside Relief:—	9 <b>2</b> 00			
City Physician	2,000 92			
Auto maintenance	125 00			
Board and care	3,719 41		•	
Cash	14,265 96			
Cash allowance	1,472 17			
Groceries and provisions	2,407 25			
Coal and wood	1,710 72			
Dry goods and clothing.	13 50			
Medicine and medical at-	010 10			
tendance	210 13 15 00			
Ambulance hire Nursing	$\begin{array}{c} 15 & 00 \\ 64 & 00 \end{array}$			
State Institutions	167 63			
Contagious Hospital .	184 29			
Somerville Hospital .	7,779 29			
Other Institutions	1,455 03			
Burials	370 00			
Relief by Other Cities and				•
Towns:—				
Cities	2,349 28	}		
Towns	6 00			
Mothers' Aid:—				
By city	30,432 00			
Other cities and towns.	4,242 06		Λ.	
		77,167	07	
Poor Department, City Home.				
Salaries and Wages:—				
Warden and Matron .	\$2,000 00			
Bookkeeper	100 00			
Domestic labor	2,389 74			
Farm labor Other Expenses:—	2,685 05			
Auto maintenance .	296 31			
Groceries and provisions	5,390 83			
Clothing	212 79			
Medicine and hospital	-10			
goods	117 26			
Household furnishings				
and supplies	748 96			
Farm equipment and sup-		`		
plies	562 84			
Comical formers	014 500 50	01 107 001		010/157 00
Carried forward	\$14,503 78	\$1,127,024	54	\$124,157 96

Brought forward	Expenses Outlays \$14,503 78 \$1,127,024 54 \$124,157 96
Live stock and care .	449 36
Garbage	377 00
Hay, grain and feed .	1,218 94
Horse shoeing	83 80
Harnesses and horse	
clothing	2 90
Seeds and fertilizer .	139 64
Books, printing and sta-	
tionery	28 50
Telephone	57 66
Power	59 81
Ice	111 58
Disinfectant and sprayer	31 50
All other	190 82
	<b>17</b> ,255 29
Public Buildings Department,	Mainte-
nance City Home Buildings.	
Labor	\$92 68
Fuel	1,228 39
Light	553 <b>1</b> 3
Furniture and furnishings	445 47
Repairs to buildings	902 20
Heating apparatus and	
equipment	164 51
Plumbing and supplies .	80 26
Hardware and materials .	14 35
All other	5 52
	3,486 51

## SOLDIERS' BENEFITS

Soldiers' Benefits, Gene	eral	Administra-				
Salaries and Wages:-						
Agent		\$290 32				
Clerk		994 33				
Other Expenses:—		66 76				
			1,351 4	1		
Soldiers' Relief.						
Cash as per pay rolls		\$21,750 00		· 1		
Medicine and medical		Ψ21,100 00				
tendance		87 06				
			21,837 0	6		
2						
Military Aid.		#1 911 FA				
Cash as per pay rolls	•	\$1,311 50	1 911 5	.0		
State Aid.			1,311 5	0		
Cash as per pay rolls		\$10,586 00				
Cash as per pay folis	•	#10,550 00 ————	10,586 0	00		
Carried forward .	•		\$1,182,852 3	1 \$1	24,157	96

\$2,013,597 22 \$124,157 96

		Expenses	Outlays
Brought forward		\$1,182,852 31	\$124,157 96
Soldiers' Burials.	,		
Burials	\$120 00		
Burius .		120 00	
		·	
ED	UCATION.		
School Contingent.			1
Salaries and Wages:	<b>e</b> = 000 00		
Superintendent	\$5,000 00 3,124 73		
Assistant Superintendent Clerks	4,626 17		
Truant Officers	2,812 80	v.	
Other employees	256 94	<b>,</b>	
General Expenses:—			
Stationery, postage and			
office supplies	413 91		1
Telephones	1,125 31		
Automobile maintenance	233 78 454 97		
Travel	65 00		
All other	298 68		
Textbooks and Supplies:—	200 00		
Text and reference books	8,165 12		West Control of the C
Maps	78 70		
Stationery and supplies	12,722 72		1
Equipment and repairs.	3,377 35		
Other Expenses:— Tuition	620 26		
Support of truants .	1,026 43		
Diplomas and graduation	519 11		
Printing and advertising	1,214 79		
Catering	115 17		
Power	766 45		
Binding	176 65		
All other	12 00	47,207 04	
		11,201 01	
School Teachers' Salaries.			
Day Schools	\$666,925 22		
Evening Schools	9,492 75	676,417 97	
		0.0,11.0.	
Maintenance School Buildings	, Janitors'		
Salaries.	<b>PEC DET EC</b>		
Janitors' Salaries	\$56,957 56	56,957 56	
		00,001 00	
Maintenance School Buildings,	Fuel and		
Light. Labor	¢402 C4		
Fuel	\$403 64 35,339 05		
Light	14,299 65		
•		50,042 34	

Carried forward . .

Carried forward

		Expenses	Outlays
Brought forward		\$2,013,597 22	\$124,157 96
Maintenance School Buildings, and Grounds.	Buildings		
Labor Furniture and furnishings Janitors' supplies Laundry Repairs to buildings	\$8,748 60 5,452 21 2,500 24 37 07 7,630 14	,	
Heating apparatus and equipment Plumbing Glass, hardware and paint Lumber Other materials and sup-	8,383 48 3,352 70 2,770 32 1,463 10		,
other materials and supplies	283 78 686 00 359 51 529 89 321 61 3,119 62		
Use of Y. M. C. A. Gymnasi- um Use of Amory Armorer All other	500 00 150 00 50 00 889 43	47,227 70	
Cummings School Repairs. Repairing fire damage .	\$3,285 00		3,285 00
•			
school .	TRUST FU	NDS.	
S. Newton Cutler Fund. Books	\$186 18	186 18	
Smith-Hughes Fund. School teachers' salaries .	\$2,139 85	2,139 85	
LIB	BRARIES		
Central Library.			
Salaries and Wages:— Librarian Assistants Other Expenses:—	\$3,000 00 14,840 66		
Books	5,125 51 689 81 34 23 1,523 67 2 00		

\$25,215 88 \$2,063,150 95 \$127,442 96

		_	0.43
		Expenses	Outlays
Brought forward	\$25,215 88	\$2,063,150 95	\$127,442 96
Postage and office supplies	747 95		
Printing and advertising	549 50		
Telephone	170 43		
Catalogue cards	100 00		
Express	136 17		
Convention expenses .	47 75		I .
Mimeograph	107 80		
All other	133 15		
		27,208 63	
Public Buildings Departme	nt. Mainte-		
nance Central Library.	nt, manite-		
Janitors	\$2,903 89		
Labor	153 11		
Fuel	1,050 59		
Light	1,437 70		
Furniture and furnishings.	97 80		,
Janitors' supplies	96 26		`
Repairs to buildings	155 99		
Plumbing	71 55		٨
Hardware and materials .	17 76		
All other	4 58		
		5,989 23	
West Somerville Branch Libr	22 m)/	•	•
Salaries and Wages:—	ary.		
Assistants	\$4,733 13	<u> </u>	
Other Expenses:—	ψ1,100 10		
Books	1,685 14		
Periodicals	371 36		
Music	3 15		
Binding	680 23		
Postage and office sup-			
plies	126 19		
Printing and advertising	44 00		
Telephone	36 38		
Express	202 67		
An other	11 65	7 202 00	
		7,893 90	
Public Buildings Departme	nt, Mainte-		
nance West Somerville	Branch Li-		
brary.			
Janitor	\$1,339 00		
Labor	16 88		
Fuel	400 33		*
Repairs to buildings	504 90		
Plumbing	116 61 17 23		
Hardware and material .	1 73		
All other	54 13		
		2,450 81	
		-,100 31	•
Carried forward		\$2,106,693 52	\$127,442 96

	Expenses	Outlays
Brought forward .	\$2,106,693 52	\$127,442 96
East Somerville Branch Library.		
Salaries and Wages:—		
Assistants \$3,034 54		
Other Expenses:—		
Books 834 33		
Periodicals 166 52		
Binding		
Postage and office sup-		
plies 76 71		
Printing and advertising 32 50		
Telephone 34 28		
Express 202 67		
All other		
	4,751 01	
Public Buildings Department, Mainte-		
nance East Somerville Branch Library		
Janitor \$1,068 91		
Labor		
Fuel		
Light		
Furniture and furnishings . 1 60		
Repairs to buildings 2 50		
Hardware and Materials . 3 78		
All other 5 00	1 004 10	
	1,634 16	
Union Square Branch Library.		
Salaries and Wages:—		
Assistants \$3,116 55		
Other Expenses:—		
Books 922 39		
Periodicals 156 98		
Binding 429 65		
Postage and office sup-		
plies 80 01		
Printing and advertising 23 90		
Telephone 33 96		
Express		
All other 4 00		
	4,970 60	
	,	
Public Buildings Department, Mainte-		
nance Union Square Branch Library.		
Janitor \$1,067 92		
Labor	•	
Fuel 323 95		
Light 312 82		
Furniture and furnishings. 2 50		
Janitors' supplies 1 65		
Heating apparatus and		
equipment 5 39		
Plumbing 3 00		
Hardware and materials . 13 58		
All other 4 75		
	1,754 38	
Carried forward	\$2,119,803 67	<b>\$127,442</b> 96

Brought forward		Expens \$2,119,803		Outlays \$127,442 96
PUBLIC LIBRA	RY TRUST	FUNDS.		
S. Newton Cutler Fund.		`		
Books	\$28 41			
		28	41	
Martha R. Hunt, Art Fund.			=	
Books	\$165 00			
Art cabinet	68 80	233	80	
		200	00	
Martha R. Hunt, Book Fund.	<b>8400 0</b>			
Books	\$469 25	469	25	
Land Bitanan Ant Frank		200		
Isaac Pitman, Art Fund. Books	\$269 08			
Pictures	φ <sub>2</sub> 09 08 41 13			
		310	21	
Isaac Pitman, Poetry Fund.				
Books	\$18.67			
		18	67	
RECE	REATION.			
Engineering Department, Parks nance.	Mainte-			
Labor	\$8,908 70			
Teaming Tools and equipment .	968 67 $210 12$			
Materials and supplies .	223 35			
Trees, shrubs and plants .	<b>417 4</b> 2			
Repairs	371 54			
Flags and flag poles Care of bubblers and foun-	112 75			
tains	87 34			
		11,299	89	
Public Buildings Department, nance Park Buildings.	Mainte-			
Labor	\$417 48			
Fuel Light	141 41 464 13			
Repairs to buildings	4 04 15			
Repairs to water heater .	117 17			
Plumbing	102 10			
Hardware and materials.  Laundry and janitors' sup-	16 15			
plies	222 25			
All other	5 50		0.4	
	``	1,490	24	
Carried forward		\$2,133,654	14	<b>\$1</b> 27, <b>44</b> 2 96

Brought forward	Expenses \$2,133,654 14	Outlays \$127,442 96
Engineering Department, Playgrounds Maintenance.		
Labor \$3,602 86		
Teaming		
Apparatus 221 81		
Tools and equipments . 56 28		
Materials and supplies . 200 79		
Repairs to fountains, fences, etc		
etc	5,159 69	
	0,100 00	
Recreation and Playground Commission.	-	
Salaries and Wages:—		1
Supervisors \$1,289 89		
Instructors 1,246 30		
Social worker 1,162 80		
Other helpers 319 50		
Other Expenses:—		
Equipment and supplies . 276 47 Plowing, harrowing, etc. 244 63		
Use of auto 299 35		
Civic social centre . 45 94		
All other 115 12		
	5,000 00	
Public Buildings Department, Maintenance Bathhouse.		
Salaries and Wages:— Attendants \$919 67		
Labor 6 06		
Other Expenses:—		
Bathing suits 476 68		
Towels 49 16		,
Repairs to buildings . 40 00		,
Equipment and supplies 53 89 Sand		
Sand		
Laundry		
Hardware and materials . '3 42		
All other 35		
· · · · · · · · · · · · · · · · · · ·	2,361 24	
Celebrations.		
Music \$10 00		
Decorating		
Signs		
Union Square Monument . 300 11		
Election returns 253 88		
All other	803 52	
Carried forward	\$2,146,978 59	\$127,442 96

	UNCL.	ASSIFII	ED		
Brought forward				Expenses \$2,146,978	
Memorial Day.					
Music and catering.		\$263	30		
Flowers and flags		95	54		
Speeches		30	00		
All other		24	77		,
Public Buildings Departi nance Bandstand.	ment,	Mainte	-	413 6	51
Labor		\$55	28		
Lighting	•		25		
Teaming	•	48	75		
Lumber and hardware	•	26	81		
				147 0	)9
Municipal Documents. Printing:				,	
Annual reports		\$1,574	83		
Municipal registers		122			
Postage			18		
All other		52	50		
				1,756 0	1
Manharanta Camaranatian					
Workmen's Compensation.	~	\$3,597	99		
Compensation for injuries Medical attendance.	5	161			
Postage and supplies.	•		00		
rostage and supplies.	•			3,762 8	33
					,
Pensions.					
	,	\$1,818			
Police	•	9,549			
Fire		4,009			
Weights and Measures	•	812			
Health	•	750			
Laborers:—	•	850	00		
Lightway		4.384	06		
Sanitary	1	867			
Water	•	1,689		1	
***************************************		1,000		24,729 8	3
Damage to Persons and I	Person	al Prop	)-		
erty. Settlement of claims.		<b>65 005</b>	00		
Danaina	•	\$2,002	25		
Repairs	•	1	43	2,003 2	) K
				2,003 2	i e
MUNIC	ΙΡΔΙ	INDEB.	rer	NESS	
Interest.	/\_			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Temporary loans:—					
Anticipation of Revenue		\$59,118	67		•
General Loans:—		, ,	•		
Sewer		9,748	75		
Carried forward .	_	\$68,867	42	\$2,179,791 2	21 \$127,442 96
	1	, ,		, , , ,	, ·, _ <b>_</b> _ · ·

Brought forwa	rd			\$68,867	42	Expens \$2,179,791		Outlays \$127,442 96
		*		•				
Highway	•	•	•	11,020	00			
Municipal	•	•	•	1,395	00			
City .	•			14,757	50			
Bridge .				1,032	50			
Metropolitan	Park			350				
Public Buildi		•	•	11,300				
Emergency		•	•	637				
Billergency	•	•	•	001	00	109,359	49	
						105,555	34	
Reduction of F	unded	Del	bt.					
General Loans:	·							
Sewer .				\$23,000	0.0			
Highway	•	·	•	67,868				
Municipal	•	•	•	8,000				
City .	•	•	•	79,500				
	•	•	•					
Bridge .	D- 1-	•	•	1,000				
Metropolitan		•	•	1,000				
Public Buildi	ngs	•	•	24,000				
Emergency			•	5,000	00			

#### WATER WORKS.

#### Water Maintenance.

Administration:—       Commissioner       \$3,100 00         Clerks       6,596 40	
Clerks 6,596 40	
Deale with the expense	
Books, printing, postage	
and supplies 1,661 53	
Telephone 266 37	
All other 100 86	
General:—	
Labor	
Pipe and fittings . 3,056 31	
Meters and fittings . 4,459 47	
Hydrants and fittings . 1,042 60	
Tools 1,274 26	
Autos, trucks and sup-	
plies 4,836 89	
Horses and equipment . 391 38	
Power	
Miscellaneous supplies . 137 94	
Street repairs 203 96	
Fountains 36 23	
All other 43 85	
•	
Less service transfers for 66,004 80	
teaming 259 67	
65,745 13	
Carried forward \$2,564,264 26 \$127,442	96

		Expense	s Outlays
Brought forward		\$2,564,264	26 \$127,442 96
Water Works Extension.			
Labor	\$1,551 25		
Teaming	$137 00 \\ 44 00$		
Tools and equipment Pipe and fittings	2,530 25		
Meters and fittings	1,689 34		
Hydrants and fittings .	99 56	6,051	40
Public Buildings Department nance Water Buildings.	ent, Mainte-	/	4
Fuel	*\$619 03		
Light	313 87		
Repairs to buildings	50		
Heating apparatus and equipment	53 24		
	•	986	64 .
Interest.			
Water Loans	\$80 00	0.0	0.0
		80	00
Reduction of Water Debt. Water Bonds	\$2.000.00		
Water Bonds	\$2,000 00	2,000	00
Metropolitan Water Assessm	ent		
Assessment	\$127,505 74		
	<del></del>	127,505	74
OTH	HER ACCOUNT	·s	
011	IEN ACCOUNT	<b>o.</b>	
Temporary Loans.			16
Loans in anticipation of revenue.	\$1,785,000 00		
revenue	φ1,705,000 00 —————	1,785,000	00
Tax Titles.			
Taxes 1919 Land court fees	\$3,955 <b>17</b> <b>150</b> 00		
Dand court rees		4,105	17
Real Estate Liens.			
Taxes 1919 on property			
taken by city	<b>\$1</b> 0 32	10	20
State Taxes.		10	04
State	\$245,420 00		
Special State	11,569 80 3,820 61		
Poll Taxes, Chap. 283, Acts			
1919	68,355 00	329,165	41
Carried forward		\$4,819,168	94 \$127,442 96

		Expenses	Outlays
Brought forward		\$4,819,168 94	\$127,442 96
Metropolitan and Other Assess	sments.		
Metropolitan Park	\$57,509 59		/
Metropolitan Sewer	89,939 26		
Wellington Bridge	3,520 70		
Grade Crossings	9,171 80		
State Highway	481 56		
Charles River Basin	9,693 89		
Alewife Brook	1,140 65		
Abatement of Smoke .	400 75		
Prevention of Fire	1,290 82		
Soldiers' Exemption	304 37		
		173,453 39	
County of Middlesex.			
County Tax, 1920	\$107,532 49		
County Tax, 1520	φ101,352 43 —————	107,532 49	
		, 101,002 40	
Cash Refunds.			
Taxes	\$1,068 51		
Street Sprinkling Assess-			
ment	167 03		
Water Rates	87 55	<b>\</b>	
National Bank Tax 1919 .	14 05		
		1,337 14	
<b>7</b> 11 10 10 1			
Tellers' Overs and Shorts.	010.00		
Cash shortage	<b>\$16</b> 83	10.00	
		16 83	

#### PRIVATE TRUST.

Redemption of Tax Titles Tax titles redeemed .	•	\$2,938 64	2,938	64		
Totals *Appropriation Refunds	•		\$5,104,447 1,682		\$127,442	96
Total Cash Payments			\$5,106,130	14	\$127,442 \$5,233,573	

<sup>\*</sup> Expenditures as shown in all accounts are net.

# SCHEDULE OF PUBLIC PROPERTY.

		Land a	ınd				
School Buildings		Buildi	ngs	Person	nal	Totals	
Prescott		\$72,200	0.0	\$3,000	00	\$75,200 0	0
	Junior	0.2,200		,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
High		62,000	0.0	2,000	00	64,000 0	0
Hanscom .		66,500		4,000		,	0
Davis		53,500		17,500		,	0.
Clark Bennett .		54,500		3,500			0
Knapp		53,000		5,500			0
Baxter		39,200		1,500		40,700 0	0
Perry		47,000		1,500		48,500 0	0
	Junior			_,-		,	
High		137,000	00	10,000	00	147,000 0	0
Prospect Hill .		18,000		2,000	00	20,000 0	0
Pope		83,600	00	5,000	00	88,600 0	0
Cummings .		15,400	00	1,500	00	16,900 0	0
Edgerly		43,000		5,000	00	48,000 0	0
*High		396,000	00	30,000	00	426,000 0	0
Glines		96,400		5,000	00	101,400 0	0
Forster		64,000	00	8,000	00	112,000 0	0
Forster (Annex)		40,000	00	*******	••••	*******	
†Proctor .		44,000	00	*******	••••	44,000 0	0
Bingham .		77,000	00	5,000	00	82,000 0	0
Morse		54,000	00	5,000	00	59,000 0	0
Carr		58,600	00	4,500	00	68,100 0	0-
Girls' Industrial Sch	ool .	4,000	00	1,000		*********	••
Durell		21,400	00	1,500	00	22,900 0	0
Burns . '.		44,000		3,000	00	47,000 0	0
Brown		78,000		2,600	00	80,600 0	0
Highland .		66,600	00	5,000	00	71,600 0	0
Lowe		51,000	00	2,000	00	53,000 0	0
		98,700	00	5,000	00	103,700 0	0
•	Junior						
		80,000		4,000		84,000 0	
		19,800			00	20,800 0	
Cutler	•	98,700	00	10,000	00	108,700 00	0
Total .		\$2,137,100		\$154,600	00	\$2,291,700 00	_
Total .	•	Ψ2,101,100	00	φ104,000	UU	φω,ωσΙ,100 00	U

<sup>\*</sup>Land included in Central Hill Park.

<sup>†</sup>Building and fixtures. Land owned by State.

<sup>‡</sup>Land included in Holland Street Ledge.

	Land and		
Fire Buildings.	Buildings	Personal	Totals
New fire alarm building .	\$27,500 00	*\$103,000 00	\$178,200 00
Central	47,700 00		Ψ
Engine Two	37,000 00	15,000 00	52,000 00
Engine Six	29,000 00	20,000 00	49,000 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	7,700 00	18,900 00
Ladder Two	19,700 00	15,000 00	34,700 00
	19,500 00	7,000 00	26,500 00
Engine Four	19,000 00	1,000 00	20,500 00
Total	\$275,100 00	\$191,200 00	\$466,300 00
*Includes Electrical Depar	tment equipment.		
Libraries.			
	0127 FAA AA	<b>01</b> 0000000	0927 FAA AA
†Central	\$137,500 00	\$100,000 00	\$237,500 00
East Somerville Branch .	24,400 00		24,400 00
West Somerville Branch .	30,000 00	6,000 00	36,000 00
Total	\$191,900 00	\$106,000 00	\$297,900 00
Miscellaneous Buildings.			
Highway (stables, etc.) .	\$55,000 00	\$30,000 00	\$85,000 00
Sewer	6,700 00	500 00	7,200 00
Contagious and Tuberculo		300 00	.,
sis Hospital	45,900 00	9,000 00	54,900 00
City Home	93,100 00	17,000 00	110,100 00
Dollar	69,500 00	8,000 00	77,500 00
+ C1'4 TT - 11	57,200 00	149,000 00	206,200 00
†City Hall Annex			
	68,200 00	12,500 00	80,700 00
Parks:—	0.100.00		9 1 0 0 0 0
Broadway	3,100 00		3,100 00
Lincoln	3,000 00	500 00	3,500 00
Bathhouse	5,000 00		5,000 00
Polling Booths	1,800 00	***************************************	1,800 00
Sanitary	21,000 00	19,200 00	40,200 00
Water	49,000 00	6,500 00	55,500 00
Total	\$478,500 00	\$252,200 00	\$730,700 00
†Land included in Central	•	φ <b>202,2</b> 00 00	φ.ου,.ου υυ
,			
Panks and Blavensond	Land and	Domanal	Thtole
Parks and Playgrounds.	Buildings	Personal	Totals
Broadway	\$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
City Field	70,900 00	***********	70,900 00
Glen Street	17,300 00	***********	17,300 00
Kent Street	12,000 00		12,000 00
Poplar Street	5,500 00	****	5,500 00
Beacon Street	3,000 00		3,000 00
Webster Avenue	3,000 00		3,000 00
Mason Street	4,200 00		4,200 00
Somerville Field	40,000 00	20,000 00	.60,000 00
Total	\$1,318,500 00	\$25,000,00	\$1,343,500 00
10141	\$1,516,500 UU	\$25,000 00	φ1,545,500 00

Miscell	aneous	Land.
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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	
Weston Avenue	2,100 00	**********	2,100	00
Endicott Avenue	600 00		600	00
Powder House Boulevard	400 00	********	400	00
Waltham Gravel Land .	10,000 00	***********	10,000	00
matal.	\$69,100 00	-	\$69.100	00
Total	φυσ,100 00	************	Ψ00,100	00

#### SUMMARY.

		. Land and		
		Buildings	Personal '	Totals
School Buildings .		\$2,137,100 00	\$154,600 00	\$2,291,700 00
Fire Buildings .		275,100 00	191,200 00	466,300 00
Libraries		191,900 00	106,000 00	297,900 00
Miscellaneous Buildings		478,500 00	252,200 00	730,700 00
Parks and Playgrounds		1,318,500 00	25,000 00	1,343,500 00
Miscellaneous Land.		69,100 00	•••••	69,100 00
Total		\$4,470,200 00	\$729,000 00	\$5,199,200 00
Sewers (cost)				1,356,538 00
Water Works (cost)	•			1,079,248 19
Total value public pr	rop	erty		\$7,634,986 19

# REPORT OF THE TREASURER AND COLLECTOR OF TAXES.

Somerville, Mass., January 27, 1921.

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 1920. The following items seem of particular interest:

The assessor's warrants for 1920 amounted to .		\$2,762,547 57
The assessor's warrants for 1919 amounted to .		2,344,297 37
The assessor's warrants for 1918 amounted to .		2,053,862 53
showing an increase for 1920 over 1919 of \$418,250	20,	the increase for
1920 over 1918 being \$708,685 04.		

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

Respectfully submitted,

JOSEPH S. PIKE,

City Treasurer and Collector of Taxes.

### CONDENSED CASH STATEMENT.

Receipt	s	Payments					
Revenue Non-Revenue	\$5,273,384 35 54,309 41		\$5,109,104 99 124,468 11				
C of Delever Trees	\$5,327,693 76	Garl Indana Param	<b>\$5</b> ,233,573 10				
Cash Balance January 1, 1920	200,795 77	Cash balance December 31, 1920	294,916 43				
	\$5,528,489 53		\$5,528,489 53				

### DETAILED CASH STATEMENT.

### Receipts.

Balance from 191 Revenue	9 .						\$200,795	77
Taxes, 1917.			\$63	20				
1918 .		•	260					
1919 .			322,195					
1920 .			2,299,590					
Excise, 1920 .				09				
,					\$2,622,174	53		
Street Sprinkling,	1919 .		6,509	45				
	1920 .		37,029					
		-			43,538	51		
Moth Assessments	. 1919				234			
Highway, 1918	, 1010		936	24	201	00		
1919			12,333					
1920			2,855					
		-			16,124	59		
Sidewalk, 1919			3,984	20	·			
1920		•	599					
		-			4,544	14		
Metered Water Ch	arges, 19	19			22,517	32		
Water: Sales, 1920			229,478	64	,			
Maintenand	ce .		4,438					
Service A	ssessmen	its	1,905					
		-			235,822	<b>1</b> 0		
Tax Titles					96	78		
Temporary Loans .					1,883,000			
Departmental Depo	osits				25,316			
Departmental Acco	ounts				59,025			
Commonwealth of	Massach	u-						
setts:—								
Corporation Taxe	es:							
Business .		•	26,191					
Public Service,	, etc.	•	13,771					
Bank	•	•	6,419					
Street Railway		•	10,651	54	EE 00.4	0.0		
					57,034	66		
Carried forward .	•				\$4,979,428	65	\$200,795	77

Brought forward	•			\$4,979,428	65	\$200,795	77
Foreign Corporation .				6,286	52		
Income Tax, 1917.		1,995					
1918	•	2,394		,			
<b>1</b> 919	•	52,590					
<b>1920</b>	•	154,770	23	044 = 40	•		
TV	-			211,749			
Vocational Schools .	•			9,112			
Americanization Work .	•			602			
Soldiers' Benefits	•			26,473 93			
In lieu of taxes	•			90	00		
County of Middlesex: Dog licenses				2,180	95		
Courts, County	•	· 164	50	. 2,100	00		
Police	•	3,545					
Probation Officer	•	14				•	
1 lobation Onicei	• _	7.7		3,724	84		
Departmental Penalties:				0,121	01		
Callmen, Fire Dept		117	00				
School Dept		171					
Dollor Loper V	· _			288	00		
Licenses and Permits .			·	9,656			
Interest: On taxes .	•	10,964	33				
Assessments		158				•	
Tax Titles .	•	8	42				
Bank Accounts:					′		
Treasurer		10,763	65				
City Clerk	•	7	45				
	-		—	21,902	<b>56</b>		
Treasury Department:							
Costs: Taxes	•	5,433					
Assessments .	•	18					
Tax Titles .	•		45				
Tax lien certificates		624					
Redemption tax liens		24					
Collecting bank tax	X	38	18	6,146	9.4		
Edison Electric Illuminating	σ-			0,140	44		
Co., electrolysis .	5			500	00		
General Expenses, refunds	•			1,040			
Trust Funds, Income:	•			1,040	40		
School, S. Newton Cutler		214	50				
Smith-Hughes	•	2,220					
~======================================	• _			2,434	59		
Library, S. Newton Cutler		42	88	,			
Hunt, Art .		97					
Hunt, Books		495					
Pitman, Art .		171					
Pitman, Poetry	•	42	82				
Wilder, Children's	S	4	50				
D 011	-			854			
Poor, Olive C. Cummings	•			75			
Premium on Bonds .	•			90			
Accrued Interest	•			510			
Excess and Deficiency.	•			233	85		
				es 979 994	25		
				\$5,273,384	ວວ • ——		
Carried forward				\$5,273,384	35	\$200,795	77
- Colling to the total terms of the terms of	•			φυ,210,001	30	φ <u>=</u> 00,100	•

Brought forward		\$5,273,384 35	\$200,795 77
Non-Revenue			
Funded Debt, Highway Loan			
bonds	50,000 00		
Outlay Appropriations, re-			
funds and offsets	1,370 77		
Redemption of Tax Liens .	2,938 64	54,309 41	5,327,693 76
<del></del>			er F90 400 F9
			\$5,528,489 53

### PAYMENTS.

Revenue					
Advances, Poor Department.			\$50	00	
Taxes, 1917, refunds	\$4	00	400		
1918, refunds		00			
1919, refunds		90			
1920, refunds . · .	981				
Refunds under chap.					
49, Acts 1918.	2	31			
			1,068	51	
*					
Street Sprinkling, 1919, refund		95			
1920, refund	124	08	105	0.0	
TILL CIL			167	03	
Water Charges:	10	0.0			
Previous year, refunds .		00			
Current year, Refunds .	(9)	55	97	55	
Refund, Bank tax, 1919				05	
Real Estate Liens				32	
Tax Titles			4,105		
Temporary Loans			1,785,000		
Commonwealth of Massachu-			1,100,000	00	
setts:					
State Tax	245,420	00			
Special State Tax	11,569				
Assessments	173,149				
Metropolitan Water assess-	,				
ments	127,505	74			
Civilian War Poll Taxes .	68,355				
Soldiers' Exemptions	304				
Bank Tax, non-resident .	3,820	61			
		—	630,124	54	
County of Middlesex, county					
tax			107,532		
General Expenses			2,256,091	<b>7</b> 9	
Interest: Temporary Loans .	59,191				
Funded Debt	50,758	75	400000		
Deducation of The Lat D 14			109,950		
Reduction of Funded Debt. Trust Funds:			211,500	00	
	100	10			
School, S. Newton Cutler . Smith-Hughes .	$   \begin{array}{c}     186 \\     2,139   \end{array} $				
omini-riughes .	4,139	80			
Carried forward			\$5,105,701	79	
			ψυ, τυυ, τυτ	10	

Carried forward .

D - 14 6 1			er 10= 701	70	
Brought forward	•		\$5,105,701	79	
Library, S. Newton Cutler	٠	28 41 233 80			
Hunt, Art . Hunt, Books .	•	469 25			
Pitman, Art .	•	310 21			
Pitman, Poetry	•	- 18 67	2 206	27	
Teller's Shorts and Overs			3,386		\$5,109,10 <b>4</b> 99
Non-Revenue					
Outlay Appropriations .			121,529		
Redemption of Tax Liens	•		2,938	64	194 400 11
					124,468 11
					<b>\$</b> 5,233,573 <b>10</b>
Cash in office	٠		2,255		•
Deposits in banks .	٠		292,661	<b>4</b> 5	294,916 43
					\$5,528,489 53
Revenue General Expenses .			220,224	89	
Trust Funds (Public) .			2,691	19	
Sundry Persons	•		291	65	
•			223,207	73	
Non-Revenue					
Outlay Appropriations .			71,708,	70	
			- 1		\$294,916 43
BALANCE	ES,	DECEMBER	31, 1920.		•
Cash			\$294,916	43	
Cash Advances, Poor Dept			100		
Taxes, 1917	•	\$818 20			
1918	•	353 20 1,309 09	·		
1920	•	399,641 97			
1920 Excise .	•	313 42	400 405	0.0	
Street Sprinkling, 1920.			402,435 7,500		
Overlay and Abatement, 19:	17		1,800		\$818 20
19:			^-	0.0	353 20
193 193			95	63	1,351 31
Supplementary assessments					986 25
Highway Assts., 1919 .		\$1,632 93			
1920 .	٠	5,722 00	7,354	93	
			1,001	00	

**\$712,4**03 53 **\$3,508 96** 

Brought forward .	•	•			<b>\$712,4</b> 03	53	3 \$3,508	3 96
Sidewalk Assts., 1919	•		1,074 8	35				
1920			4,069 3					
					5,144	20	)	
Metered Water Charg	es 19	20			26,919	70	,	•
Commonwealth of Ma	ssach	11-			20,010	• •	,	
setts:	SSACI	•						
Soldiers' Benefits, 1	920				11,426	75	5	
Poll Taxes .					,			00
Income Tax, 1920							18,077	58
Foreign Corporation	Tax				43,713	48		
Grade Crossings .					427			
Real Estate Liens.	•				181	52	2	
Tax Titles	•				5,916	48		
Temporary Loans .							625,000	00
Funded Debt .	•	•					1,148,000	00
Net Funded Debt.		•			1,148,000	00		
Interest (Reserved on	accoun	nt						
of 1920 loans)	•	•					7,689	58
Trust Funds, Income:				_				
Poor, Olive C. Cumr	nings	٠	207 0					
School, S. Newton C		•	521 4					
Smith Hugh		•	1,423 0					
Library, S. N. Cutler	•	•	14 6					
Hunt, Art	•	•	176 5					
Hunt, Books		•	29 5					
Pitman, Art Pitman, Poe		•	53 53 55 5					
Wilder, Chi		, ,	6 9					
Hunt, Art	inuren (pri)	ກ ກຸ	0 9	0				
cipal)	(prn	11-	202 7	7				
Cipai)	•	•		_			2,691	10
<b>.</b>								
Premium on bonds	•	•						50
Reserve Fund .	•	•	<b>=</b> 000	_			8,246	<b>5</b> 3
Trust Funds, School	•	•	5,000 0					
Library	•	•	20,414 58					
Poor	•	•	1,681 6	b			95.000	0.4
				_			27,096	24
Trust Funds, Investme	nt:							
School	•	•	5,000 00					
Library	•		20,414 58					
Poor	•	•	1,681 66	3				
				-	27,096	24		
Sundry Persons .				-			291	65
Excess and Deficiency							68,453	
Outlay Appropriations							71,708	
				_				
				\$	1,981,229	29	<b>\$1</b> ,981,229	29

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

Real estate	\$76,752,500 00		
Personal estate	7,088,200 00		
Resident bank shares	70,155 60		
Total valuation	\$83,910,855 60		
At rate of \$30.90		\$2,592,845 44	4
Polls, 23,805 at \$5.00		119,025 00	0
Non-resident bank shares to be paid		,	
to the state (valuation \$123,644.40)		3,820 63	1
Street Sprinkling		44,662 08	
	•	\$2,760,353 13	3
Additional Assessments:			
Personal estate, valuation \$17,700 at			
\$30.90	<b>\$546</b> 93		
Polls, 254 at \$5.00	1,270 00		
Excise Taxes	3 <b>77 51</b>		
		2,194 44	4
Total commitments by assessors		\$2,762,547 57	7
		Ψ=,σ=,σ=.	

### TAXES.

Total	\$329,436 81	2,716,102 56	1,816 93	1,066 20	00 9	\$3,048,428 50	2,622,174 53	23,818 09	\$2,645,992 62	402,435 88		
Excise 1920		\$377 51	•		•	\$377 51 \$	•	•		313 42		
1920		\$2,715,691 05	1,816 93	981 30		\$2,718,489 28	2,299,590 84	19,256 47	\$2,318,847 31	399,641 97		
1919	\$327,503 09	34 00		72 90	2 00	\$327,611 99	322,195 84	4,107 06	\$326,302 90	1,309 09	٠	
1918	\$985 92			8 00	4 00	\$997 92	260 56	384 16	\$644 72	353 20		
1917	\$947 80	•	•	4 00	•	\$951 80		70 40	\$133 60	818 20		
		•	•			•		•			Acts	
	٠	•	٠	•	•	•	•	٠	•	•	49,	
	6				•			٠			Chap.	
	191					ŝ				1920	der (	
	Balance Dec. 31, 1919	Committed, 1920	Supplementary	ds .	rrged .	Total charges	sted .	· po	Total credits	Balance Dec. 31, 1920	Refund taxes under Chap. 49, Acts	
	Balan	Comn	Suppl	Refunds	Recharged	T	Collected	Abated	T	Balan	Refun	

### STREET SPRINKLING AND MOTH ASSESSMENTS.

	Sprinkling 1919	Sprinkling 1920	Moths 1919	Total
Balance Dec. 31, 1919	\$6,535 99	1	\$234 00	\$6,769 99
Committed, 1920 .		\$44,662 08	*********	44,662 08
Refunds	42 95	124 08		167 03
Total	\$6,578 94	\$44,786 16	\$234 00	\$51,599 10
Collected	6,509 45	37,029 06	234 00	43,772 51
Abated	69 49	256 44		325 93
Total credits . Balance Dec. 31,	\$6,578 94	\$37,285 50	\$234 00	\$44,098 44
1920		7,500 66	••••	7,500 66

### OVERLAY AND ABATEMENT.

	1917	1918	1919	1920	Total
Balance to credit Dec. 31, 1919 . Assessed in Taxes	\$947 80	\$985 92	\$2,955 89	\$17,079 78	\$4,889 61 17,079 78
Paxes recharged		4 00	2 00	00 00 00	6 00
Fransferred from Reserve Fund.			1,000 00	6,420 00	1,000 00
Total credits	\$947 80	\$989 92	\$3,957 89	\$20,499 78	\$26,395 39
Abatements	70 40	384 16	4,053 52	19,148 47	23,656 55
Transferred to Reserve Fund .	59.20	96 262			311 76
Total charges	129 60	636 72	4,053 52	19,148 47	23,968 31
Credit charges, Bal. Dec. 31, 1920 .	818 20	353 20		1,351 31	2,522 71
Debit charges, Bal. Dec. 31, 1920 .		•	95 63		95 63

## RESERVE SUPPLEMENTARY ASSESSMENTS.

Total \$1,403 94 1.850 93	27 00	3,281 87	161 54	1,372 08	762 00	2,295 62	986 25
1920	27 00	1,843 93	108 00		762 00	870 00	973 93
1919 \$1,403 94 34 00		1,437 94	53 54	1,372 08	•	1,425 62	12 32
• •	•	•	٠	•	٠	•	•
	•	•	~ •	•	•	•	•-
• •	•	•	٠	•	•	٠	•
	•	•	•	•	•	•	•
				•			•
$\frac{1919}{20}$	•		•				••
31,		•			•		1920
Balance to credit December 31, 1919 Supplementary Assessments, 1920	Credited by Commonwealth.	Total credits	Abatements	Transferred to Revenue	Credited to Commonwealth	Total charges .	Balance December 31, 1920

## BETTERMENT ASSESSMENTS.

Total \$19,961 57 13,206 29	33,167 86 20,668 73	12,499 13		Total \$286,938 17 75 55	\$287,013 72 258,339 42 1,754 51	\$260,093 93 26,919 79
Sidewalk 1920 \$4,629 29	4,629 29 59	4,069 35		Service Ass'ts \$1,905 10	\$1,905 10 1,905 10	\$1,905 10
Sidewalk 1919 \$5,059 05	5,059 05 3,984 20	1,074 85		Maintenance \$4,797 65 	\$4,797 65 4,438 36 359 29	\$4,797 65
Highway 1920 \$8,577 00	8,577 00 2,855 00	5,722 00	OUNTS.	Additional \$1,230 63	\$1,230 63 938 87 291 76	\$1,230 63
Highway 1919 \$13,966 28	13,966 28 12,333 35	1,632 93	WATER DEPARTMENT ACCOUNTS.	Annual \$40,229 50 35 24	\$40,264 74 39,512 75 751 99	\$40,264 74
Highway 1918 \$936 24	936 24	•	TER DEPAR	Metered 1920 \$216,246 33 40 31	\$216,286 64 189,027 02 339 83	\$189,366 85 26,919 79
			.WA	Metered 1919 \$22,528 96	\$22,528 96 22,517 32 11 64	\$22,528 96
·• •	•	•			• •	
•	•	•		٠.	• • • • • •	•
191		1920		• •	ie • •	
c. 31		31,				921
Balance Dec. 31, 1919 Committed	Collected	Balance Dec. 31, 1920		Committed Refunds	Collected Abated	Balance to 1921

# DEPARTMENTAL ACCOUNTS FOR COLLECTION AND DEPOSITS.

Denosits	0 L 0 G	00 70	70	74.7	1,535 92	11 65			530 84			64 80	14.424 20							5.337 31	72 45	53 10	2,343 61	538 35	394 05	\$25.316.87	
Balance Dec. 31. 1920		• • • • • • • • • • • • • • • • • • • •	•		:	\$118 31	-	•		559 60	3,368 36	23 00	377 20		351 77	1	129 53	11,233, 14	1.744 13	3,815 14	3,049 07	50 15		•	:	\$24.819 40	
Collected			•		•	\$171 03	1,000 00	2 00	•	269 43	8,955 08	231 00	2,059 00	14 56	5,433 14	240 00		19.835 92	9.111 79	4.579 02	6,389 78	730 40		•		\$59.025 15	12 43
Abated		•	•								\$584 27	14 50	865 00		1,000 32			226 00	32 71	84 75	239, 22	25 00	•	•		\$3.101 77	\$6 88
Committed		•	•	• • • • • • • • • • • • • • • • • • • •		\$163 62	1,000 00	2 00	•	509 60	8,532 30	245 00	2,381 20		5,677 76					8,102 16		835 55	•	<i>f</i>		\$65,788 35	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
Balance Jan. 1, 1920		•	•	• • • • • • • • • • • • • • • • • • • •	•	\$125 72	•	•	:	319 43	4,375 41	23 50	920 00		1,107 47		•	10,270 11	3,137 27	376 75	502 31					\$21,157 97	46 36
			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		**
		•	•	•	•	•	•	•	٠	•	•	Vinegar	•	•	•	•	•	Ith)	•	•	•	•	•	•	•		•
	Aggesors	Clerk of Committees	City Engineer		City Clerk	Police Department .	Police Buildings	Fire Department	Weights and Measures .	Health Department .	Contagious Hospital .	nd		Sanitary Buildings .	Highway Maintenance .	Highway Buildings .	Sidewalks Construction.	Poor, Misc. (Commonwealth	Poor, Miscellaneous .	Poor, City Home	School Department .	School Buildings	Libraries	Bathhouse	Shower Baths		Non-Revenue Extreme Emergency .

### TEMPORARY LOANS.

### In Anticipation of Revenue.

Borrowed by authority of the Board of	• , , , , , , , , ,	
Aldermen on city notes as follows:		
	#100 000 00	
Nos. 748-754 289 days — 4.99%	\$100,000 00	
199-109 299 - 9.20	300,000 00	
$784-787 \ 253  `` -5.80 \ . $	100,000 00	
$788-793 \ 253  " - 5.85 \ . $	50,000 00	
794-795 95 " — 5	28,000 00	
$796-797 \ 243 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	30,000 00	
798-799 $189$ " $-5.65$	100,000 00	
800   156   "   -5.60   .   .	50,000 00	
801-803 245 " — 5.65	50,000 00	
804-807 173 " — 5.85	100,000 00	
000-011 219 9.09	100,000 00	
012-010 1/9 — 0.1	50,000 00	
814-815 $199$ " $-6.1$	50,000 00	
$816-817 \ 172 \ \ \ \ \ \ \ \ -6.1 \ \ \ .$	50,000 00	
$818-820 \ 105 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	100,000 00	
$821-822 \ 195  `` -6 $	50,000 00	
823-824 143 " — 6	125,000 00	
825-833 199 " — 5.99	100,000 00	
834-841 125 " — 5.90	75,000 00	
842-846 250 " — 5.90		i
012 010 200 0.00	50,000 00	
On coupon notes, interest to follow semi-		
annually, as follows:		
Nos. $78-82-1$ yr. $5\frac{1}{4}\%$	50,000 00	
$83-86-1 \text{ yr. } 5\frac{1}{2}\%$	100,000 00	
87 — 1 yr. $5\frac{1}{2}\%$	25,000 00	
88-97-1  yr.  6%	50,000 00	1,883,000 00
		1,000,000
		\$2,410,000 00
Paid notes maturing 1920		1,785,000 00
raid notes maturing 1920		1,789,000 00
35 / 1 1 1004		205 000 00
Maturing in 1921		625,000 00
Discount paid was	\$53,226 59	
6 mos. int. on coupon		
notes 78-82 — 83-87 . \$4,750 00		
Less accrued int. 78-82 . 72 92		
	4,677 08	
Int. due in 1921 on coupon notes 78-82	_, _ , _ , _ ,	
— 83-87 — 88-97 · · · · ·	7,750 00	•
	1,100 00	
	ect cto co	
\$1 CEO 000 diagounted mater evenues 004 C	\$65,653 67	a mata F Cac
\$1,658,000 discounted notes average 204.6	uays, averag	e rate 5.636.
The funded debt December 31, 1920,	was \$1 148	000 00 clas
, ,	was \$1,140,	ooo.oo, clas.
sified as follows:		

\$33,000 00 255,000 00 30,000 00

\$318,000 00

City Loan Bonds at 3½ per cent. City Loan Bonds at 4 per cent. City Loan Bonds at 4¼ per cent.

Carried forward . .

Brought forward	\$318,000 00
Sewer Loan Bonds at 3½ per cent.	62,000 00
Sewer Loan Bonds at 4 per cent.	149,000 00
Sewer Loan Bonds at 41/4 per cent.	23,000 00
Met. Park Asst. Loan Bonds at 3½ per	,
cent	9,000 00
Lowell St. Bridge Loan Bonds at 3½ per	
cent	29,000 00
Municipal Loan Bonds at 4½ per cent.	23,000 00
Highway Loan Bonds at 3½ per cent.	54,000 00
Highway Loan Bonds at 4 per cent .	127,000 00
Highway Loan Bonds at 4½ per cent.	40,000 00
Highway Loan Bonds at 5 per cent .	50,000 00
Public Bldg. Loan Bonds at 4 per cent.	179,000 00
Public Bldg. Loan Bonds at 4½ per cent.	75,000 00
Emergency Loan Bonds at 44 per cent.	10,000 00
-	\$1,148,000 <b>00</b>

### Funded debt within the limit fixed by law:

City Loan .			•		\$318,000	00	
Municipal Loan				•	23,000	00	
Highway Loan					271,000	00	
Public Bldg. Loan	•			•	254,000	00	
Sewer Loan .					219,000	00	
Lowell St. Bridge I					29,000	00	
Emergency Loan			•		10,000	00	
				-			\$1.12

\$1,124,000 00

### Funded debt beyond the limit fixed by law:

Sewer Loa	n (Ch	ap. 35	7, Acts	1895)			\$15,000	00
Met. Park	Asst.	Loan	(Chap.	325,	Acts	of		
1902)		•	•	-•	•	•	9,000	00

24,000 00

\$1,148,000 00

### BONDS DUE IN 1921.

			January	April	July	October	Total
Emergeno	ЗУ		,	•••••	\$5,000	**********	\$5,000
Park			**********		1,000	•••••	1,000
Bridge			*********	\$1,000	********	***************************************	1,000
Sewer			\$3,000	10,000	10,000	************	23,000
City .			9,000	34,000	23,500	\$2,000	68,500
Municial			*********	**********	8,000	*******	8,000
Highway			16,000	43,000	5,000	*********	64,000
Building	•	•	6,000	5,000	13,000	••••	24,000
			<b>\$34,000</b>	\$93,000	\$65,500	\$2,000	\$194,500

### BOND INTEREST DUE IN 1921.

	Januar	У	April	July	October	Total
Emergency	\$212 5	50	•••••	\$212 50	•••••	\$425 00
Park .	157 5	50	********	157 50	•••••	315 00
Bridge		•••	<b>\$507</b> 50	******	\$490 00	997 50
Sewer.	1,490 0	00	3,063 75	1,435 00	2,867 50	8,856 25
City .	3,137 5	60	3,177 50	2,957 50	2,495 00	11,767 50
Municipal	517 5	60	*******	517 50	********	1,035 00
Highway	1,295 0	00	4,340 00	1,015 00	3,445 00	10,095 00
Building	3,907 5	0	1,360 00	3,787 50	1,260 00	10,315 00
	 					<del></del>
	\$ 10,717 5	0	\$12,448 75	\$10,082 50	\$10,557 50	\$43,806 25

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

			Bonds	Interest
Emergency Loan Bonds .		•/	\$10,000 00	\$637 50
Metropolitan Park Loan Bonds			9,000 00	1,575 00
Bridge Loan Bonds .	•-	•	29,000 00	14,717 50
Sewer Loan Bonds			234,000 00	65,341 25
City Loan Bonds		•	318,000 00	53,107 50
Municipal Loan Bonds .		•	23,000 00	2,025 00
Highway Loan Bonds .		•	271,000 00	35,895 00
Pub. Bldg. Loan Bonds .	•• ′	•	254,000 00	76,880 00
		,	\$1,148,000 00	\$250,178 75

OUTSTANDING BONDS, DECEMBER 31, 1920.

	-6	ט פ מ	90	00	00	00	00			8	000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	1 00
	Total Dud		\$134°D	164,5	125,500	101	0,000	74.0	64.0	56.0	54.000	47.0	38,0	33,0	23,0	23,0	16,0	11,0	11,0	5,0	4,0	3,0	2,0	2,0	2,0	1,0	1,0	1,0	1,0	1,0	1,0	\$1,148,000
	Fmongonor	Pr 000	000,6¢	2,000						•										:			:									\$10,000
	Pub Bldgs	#94 000	000°#7¢	19,000	18,000	18.000	18,000	18,000	17,000	16,000	16,000	16,000	15,000	15,000	14,000	14,000	8,000	4,000	4,000	•		•	•	•								\$254,000
	Highway	# 664 000	000,¥0.00	55,000	36,000	36.000	25,000	20,000	12,000	000.6	9,000	5,000																				\$271,000
	Municinal	00000	90,00	8,000	7,000				٠																							\$23,000
	Bridge	&1 000	000,14	1,000	1,000	1.000	1,000	1,000	1,000	1.000	1,000	1,000	1,000	1,009	1,000	1,000	1,000	1,000	1,009	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	\$29,000
	Park	&1 000	000,14	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		•			•																\$9,000
Courer	Outside	\$3 000	000,00	3,000	3,000	3,000	3,000							•																		\$15,000
	Sewer	\$20.000	0000	20,000	18,000	17,000	17,000	15,000	14.000	12,000	11,000	10,000	10,000	8,000	8,000	8,000	7,000	6,000	6,000	4,000	3,000	2,000	1,000	1,000	1,000							\$219,000
	City	& 68 FOO	000,000	52,500	41,500	25,500	23,000	19,000	19.000	17,000	16,000	15,000	12,000	0006	:											•						\$318,000
			• • • • • • • • • • • • • • • • • • • •																													
		1991	1001	1922	1923	1934	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	

### Yearly Bond Maturities with Interest.

Date Due	Princip	al	Intere	st	Total	
1921	\$194,500	00	\$43,806	25	\$238,306	25-
1922	164,500		36,356		200,856	25-
1923	125,500		30,221		155,721	25
1924	101,500	00	25,356		126,856	25-
1925:	88,000	00	21,518		109,518	75
1926	74,000	00	18,203	75	92,203	75
1927	64,000	00	15,316	25	79,316	25
1928	56,000	00	12,813	75	68,813	75-
1929	54,000	00	10,531	25	64,531	25
1930	47,000	00	8,416	25	55,416	25-
1931	38,000	00	6,688	75	44,688	75
1932	33,000	00	5,246	25	38,246	25
1933	23,000	00	3,978	<b>7</b> 5	26,978	75
1934	23,000	00	3,051	25	26,051	25
1935	16,000	00	2,223	75	18,223	75
1936	11,000	00	1,673	75	12,673	75-
1937	11,000	00	1,221	25	12,221	25-
1938	5,000	00	808	75	5,808	75
1939	4,000	00	636	25	4,636	25
1940	3,000	00	501	25	3,501	25
1941	2,000	00	403	75	2,403	75-
1942	2,000	00	326	25	2,326	25-
1943	2,000	00	248	75	2,248	75
1944	1,000	00	192	50	1,192	<b>50</b> ,
1945	1,000	00	157	50	1,157	$50 \cdot$
1946	1,000	00	122	50	1,122	50
1947	1,000	00	87	50	1,087	50
1948	1,000	00	52	50	1,052	50
1949	1,000	00	17	50	1,017	50°
	\$1,148,000	00	\$250,178	75	\$1,398,178	75

### BORROWING CAPACITY, DECEMBER 31, 1920.

Valuation, 1 Supplementa					•		\$84,639,280 24,700			
Valuation, 19 Supplementa		•	•	•	•	•	87,353,424 39,300		\$84,663,980	00°
Valuation, 19	920	•		•	•	•	83,910,855	60	87,392,724	00,
Supplementa	ıry	•	•	•	•	-	17,700	<u>00</u>	83,928,555	60*
Total		•			•				\$255,985,259	60,
Abatements,	1918						\$377,189			
44	1919			•			331,375			
	1920	•	•	•	•	• -	389,950	00	1,098,514	00
Brought for	ward				•				\$254,886,745	60°

Brought forward .				\$2	54,886,745 60
Average three years on 2½ per cent . Funded Debt December			\$1,148,00	0.00	84,962,248 53 2,124,056 21
Outside limit fixed Sewer loan, 1895, Cha Metro. Park loan, Ch	by law p. 357 .	\$15,000	1.		
1902 . ` .		9,000	00 \$24,00	0 00	\$1,124,000 00
Borrowing capacity, D 31, 1920		•			\$1,000,056 21
January 1, 1921.			\$34,000	00	
April 1, 1921 . July 1, 1921 . Less outside limit	: :	\$65,500 4,000		00	
Dess outside innit	•	<b>4,</b> 000	<del></del>	00	
October 1, 1921 .			2,000	00	\$190,500 00
					\$1,190,556 21
Maturities within the li Maturities outside the			\$190,500 4,000		
Total maturities,	1921 .		\$194,500	00	

### MEMORANDUM OF PAYMENTS ON ACCOUNT OF DEBT, 1920.

	Principal		Interest		Total	
Bonds, General City Debt	\$209,500	00	\$50,678	75	\$260,178	75
Bonds, Water	2,000	00	80	00	2,080	00
Temporary Loans	***********		59,118		,	
Grade Crossings	8,280		891		9,171	
01440 01085111 <b>6</b> 5	0,200	00	001	00	0,111	00
On account of Metro. Dist. Debt:						
Sewers	21,961	36	31,419	72	53,381	08.
Park	3,952		14,649		18,601	
Wellington Bridge	1,265		278		1,543	
					•	
Charles River Basin	320		3,705		4,026	
Alewife Brook	818 3		322	26	1,140	65
Water	14,787	26	74,903	80	89,691	06
	\$262,885	 13	\$236,048	05	\$498,933	18
Somerville's proportio	n					
for debt requirem						
In State Tax	\$27,324	93	\$34,025	17	\$61,350	10
In County Tax			3,112		7,925	
The country that	1,012	— <b>,</b> -	0,114		1,020	
	\$295,022 9	97	\$273,185	71	\$568,208	68

### GRADE CROSSING DEBT.

(Carried by Commonwealth).								
Decrees entered .	•	•	•	•			\$120,097	10
Paid Commonwealth Deduct interest includ	ed in	abov	ve		\$126,432 21,475		104,957	<b>1</b> 0
						-	<b>\$1</b> 5,140	00
Payable					Principa	al	Inter	est
Nov. 15, 1921 .	•	•	•	•	\$7,380		\$576	
1922 .	•	•	•	•	4,380		294	
1923 .	•	•	•	•	3,380	00	127	20
					\$15,140	00	\$998	20

### TREASURY DEPARTMENT, 1920.

Appropriated in budge	t .	, ,				\$20,985	00
Salaries:							
Treasurer and Collec	tor .			. \$4,000	00		
Deputy Collector		, ,		. 2,000	00		
Cashiers				2,549	40		
Clerks				7,726	04		
Stationery, postage a	ind bo	oks .		. 2,465	22		
Printing and Advert				. 699	08		
Telephone .				. 145	03		
Tracing tax-payers				. 78	50		
Bonds				. 241	00		
Convention expenses				. 139	77		
Typewriter .				. 154	75		
Advertising and rec	ording	tax	sale	s 426	31		
Sundries .	•	•	•	. 234	.78		
				\$20,859	88		
Balance .				. 125			
27 27 27 27 27 27 27 27 27 27 27 27 27 2						\$20,985	00
					_		

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

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

Charles S. Clark,

Secretary of School Board.

### SCHOOL COMMITTEE, 1920.

HERBERT CHOLERTON WILLIAM M. MORRISON .		•		•	. Chairman . Vice-Chairman					
WILLIAM W. MORRISON .	•	•	•	•	· vice-onaniman					
Members.										
EX-OFFICIIS.										
·CHARLES W. ELDRIDGE, Mayor, 47 Highland road.										
RICHARD L. RICE, President	Board	of	Alder	men,	296½ Broadway.					
	WARD	ONE.								
Francis J. Fitzpatrick,					76 Broadway.					
WILLIAM T. McCARTHY,					38 Pearl street.					
	WARD	TWO.								
DANIEL H. BRADLEY,					19 Concord avenue.					
*CHRISTOPHER J. MULDOON,					88 Concord avenue.					
	WARD T	HREE								
CHARLES W. BOYER,		•			104 Summer street.					
OSCAR W. CODDING,		•	•		59 Vinal avenue.					
	WARD :	FOUR.								
Frank M. Hawes,		•	•		257 School street.					
EDWARD I. TRIPP,			•	21 V	Vigglesworth street.					
	WARD	FIVE.								
HARRY M. STOODLEY,		•	•	23	33 Highland avenue.					
MISS MINNIE S. TURNER,			•		64 Hudson street.					
	WARD	SIX.								
WALTER I. CHAPMAN,		•	•		18-A Central street.					
WILLIAM M. Morrison,	•		•		97 Rogers avenue.					
TT	WARD S		•		0.4 0.11.					
HERBERT CHOLERTON,	•		•		94 College avenue.					
Paul O. Curtis,	•	•	•		41 Mason street.					

### Superintendent of Schools.

CHARLES S. CLARK.

Office: City Hall Annex, Highland avenue. Residence: 75 Munroe street.

The Superintendent's office will be open on school days from 8 to 5; Saturdays, 8 to 10. His office hour is 4 o'clock on school days, and 8:30 on Saturdays.

### \*Assistant Superintendent of Schools.

JOSEPH A. EWART.

Residence: 11 Bigelow street.

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

Superintendent's office force:-Mary A. Clark, 42 Highland avenue.

Mildred A. Merrill, 26 Cambria street. H. Madeline Kodad, 104 Sharon street, West Medford.

Marion E. Marshall, 30 Gilman street.

\*Resigned November 1, 1920.

### Board Meetings.

January 26. April 26. September 27. December 24. February 23. May 31. October 25. December 31. March 29. June 28. November 29. 8:15 o'clock.

### STANDING COMMITTEES, 1920.

Note. — The member first named is chairman.

District I. — McCarthy, Fitzpatrick, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Muldoon, Bradley, Codding.

KNAPP, PERRY, BAXTER.

District III. — Codding, Boyer, Fitzpatrick.

POPE, CUMMINGS.

District IV. — Hawes, Tripp, Miss Turner.

EDGERLY, GLINES.

District V. — Stoodley, Miss Turner, Hawes.

FORSTER, BINGHAM.

District VI. — Morrison, Chapman, Stoodley.

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

District VII. — Cholerton, Curtis, Morrison.

HIGHLAND, CUTLER, LINCOLN, LOWE.

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

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

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

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

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

Teachers. - Cholerton, Muldoon, Codding, Miss Turner, Morrison.

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

Rules and Regulations. — Hawes, McCarthy, Bradley.

### REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee: -

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

### Membership

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

				E	llementar	У		
					including			
				Junior	Kinder-	Vo-		In-
			High	High	gartens	cational	Total	crease
December	******	1920	1692	3168	8630	121	13,611	444
December	******	1919	1618	2937	8517	95	13,167	

### Teachers

A similar comparison for teachers is as follows:

			including			
		Junior	Kinder-	Vo-		
	High	High	gartens	cational	Total	Decrease
December 1920	65	112	226	10	413	1
December 1919	65	113	226	10	414	

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

Fifteen teachers resigned, — 4 to be married, 7 to accept better paying positions; the remainder for various other reasons. This statement shows a greater stability in the teaching corps during 1920 than in any other of the last few years. This change is doubtless due to two causes; first, to improved

salary schedules, second, to the return to more normal business conditions since the close of the war. It is to be hoped that this stability may continue so that the schools may have the benefit of uninterrupted service of competent teachers.

### Elementary Schools

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

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

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

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

### Secondary Schools

In 1918 the Department of the Interior, bureau of education, issued a bulletin entitled "Cardinal Principles of Sec-

ondary Education." This was a report of the commission on the re-organization of secondary education appointed by the National Education association.

By reason of the reputation of its members, the nature of its appointment, its affiliation with many other committees dealing with the organization and administration of secondary schools, this commission has spoken with greater authority than that which attaches to the utterances of a single individual however eminent in educational thinking. After discussing the changes which have taken place in American life during the past decade and the changes that have occurred during the past 25 years in secondary school population of the United States, the commission proposes the following as the main objectives that should guide education in a democracy:

(1) health, (2) command of fundamental processes, (3) worthy home membership, (4) vocation, (5) citizenship, (6) worthy use of leisure, (7) ethical character. While applying these objectives to the whole process of education the commission deals specifically with the problem of re-organizing secondary education so as best to promote the attainment of these objectives. It favors such a re-organization of secondary education that it may be defined as applying to all pupils of approximately 12 to 18 years of age.

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

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

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

### Junior High Schools

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

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

### Eighth Grade Promotions

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

			No. Entering
			Grade 9
		No. promote	
School	Class in Jun	e to Grade 9	tember, 1920
Eastern Junior High	137	134	125
Southern Junior High	233	228	215
Northern Junior High	215	204	204
Western Junior High	351	331	336
	936	897	880

### Ninth Grade Promotions

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.

E.		N	lo. certifie	ed No.
	No. in		to High	entering
	class	No. given	School	High School
School	in June	diplomas	Grade 10	Sept., 1920
Eastern Junior High	113	101	101	93
Southern Junior High	209	200	200	157
Northern Junior High	169	164 ′	160	148
Western Junior High	251	240	239	226
	<b>74</b> 2	705	700	624

### Senior High School

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

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

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

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

### Boys' Vocational School

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

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

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

Another distinctive feature of the year is the fact that the

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

### Household Arts Department

In the fall of 1919 it was deemed wise, on account of the lessening number of pupils, to transfer the Girls' Vocational School from the building on Atherton street to the High School building. Accordingly the school was established in rooms in the east wing of the High School building, and was there con-

ducted during the school year ended June 30, 1920.

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

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

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

### Kindergartens

Kindergartens form a part of the school system in most progressive communities. In Somerville there are four kindergartens, located in Wards I, II, and IV, which were provided more than a dozen years ago. During the interval since the establishment of the last one, requests have been made-

for kindergartens in various parts of the city.

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

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

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

### Continuation School

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

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

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

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

be divided about equally between academic and practical arts subjects.

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

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

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

### Americanization Work

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

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

cation.

### **Evening Schools**

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

elementary school buildings.

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

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

co-operation with the State Board of Education.

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

### Credits For Music

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

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

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

play. The more serious the effort of the child in such a study,

the greater is the draft upon his time.

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

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

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

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

other associations of a similar nature.

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

The efficiency of the instrumental music in the high and junior high schools would be greatly increased by making a

definite provision in the program of study for this work as is now made for vocal music. The plan adopted by the School Committee for giving credits for outside study of music is as follows:

I. That a pupil belonging to the High School orchestra, band, or any other instrumental school organization having weekly rehearsals, may receive one (1) diploma point credit per year if, in the judgment of the teacher in charge, he has

been regular in attendance and faithful to his work.

II. That a pupil belonging to a school glee-club or choral practice class having weekly rehearsals may receive one (1) diploma point credit per year, if, in the judgment of the teacher in charge, he has been regular in attendance and faithful to his work. Either course shall be open to all pupils passing a voice and sight-reading test made by the Supervisor of Music.

III. That a pupil of the High School taking lessons on the piano, organ, any orchestral instrument or in vocal music shall be allowed two (2) points credit per year on the following

conditions:

(a) An application for such credit, on forms to be furnished by the Board, shall be filed with the headmaster not later than two weeks after the opening of school.

(b) One hour of daily practice shall be required through-

out the school year.

(c) One lesson per week throughout the school year shall be taken from a teacher.

(d) Lessons or study lost shall be made up before the

end of the period for which credit is desired.

(e) A quarterly report, on the forms to be furnished by the Board, shall be filed with the headmaster by the pupil, signed by his teacher certifying the number of lessons taken during the quarter, the compositions studied or work covered and the grade of accomplishment, and signed by the parent or guardian certifying the number of hours per week practiced.

(f) Annually, during the first week in June, pupils desiring credit shall be examined by a Board of Examiners consisting of the Supervisor of Music and one other person to be appointed by the School Board. The examination shall be based on the private teacher's statement of the course covered.

(g) Granting of the credit shall be determined by the examination, but due weight shall be given to the quarterly

reports of the private teacher.

(h) Outside study in applied music may be counted each year and may be substituted in place of an elective in any course; provided that pupils fitting for Harvard College, the Institute of Technology, Radcliffe, Mt. Holyoke, Smith and Wellesley College may not substitute this subject for an elec-

tive but may take it only after all subjects indicated in the college requirements for that year have been elected; provided, furthermore that the restrictions set forth in this paragraph shall automatically be removed at any time the college requirements permit.

IV. That the Superintendent of Schools in conjunction with the Supervisor of Music be authorized to prepare a course of study for the piano, the course to be divided into groups.

V. That no specific course offered by the publishing

houses be recommended by the Board.

VI. That the Superintendent of Schools be authorized to formulate and have printed two blank forms.

1. An application blank and examination record.

2. A quarterly report blank to embody space for data called for in Paragraph III (e).

VII. That the Superintendent of Schools be authorized to have printed a circular setting forth briefly the plan for giving credit for outside study in applied music.

VIII. That the Superintendent of Schools be authorized to have printed a circular showing the course of study for the

piano.

IX. Inasmuch as the point credit system does not obtain in the junior high schools, the committee recommends in lieu of credit points:

(a) that pupils of the first and second year of the junior high school be allowed to substitute outside music for draw-

ing;

(b) that third year junior high school pupils be allowed to substitute outside music for one period of Manual and Household Arts or for one period of another subject at the discretion of the master.

X. That the requirements of applications, quarterly reports and examinations applicable to high school pupils shall

be exacted of junior high school pupils.

XI. That the work of the musical groups, mentioned in paragraphs numbered 1 and 2 of this report, shall, when offered, constitute part of the approved curriculum of the high school.

### Garden Work

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

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

ence both in garden training and in habits of work.

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

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

already made for garden cost.

### **Thrift**

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

means of establishing habits of economy and saving.

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

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

facts affecting the matter are taken into consideration.

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

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

### Classes for Retarded Children

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

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

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

### School Accommodations

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

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

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

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

providing additional accommodations.

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

printed in the appendix of this report.

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

### Co-operative Work

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

Among the agencies which have helped in this co-operative

work are the following:

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

1. Frequent conferences with principals of schools.

- 2. Stated meetings of teachers of the junior high schools with heads of departments at which policies and methods were discussed and at which plans were made for the work which was to follow. The superintendent participated in some of these meetings and the results of all of them were reported to him by a member of the conference.
- 3. Committees of teachers composed for the purpose of preparing outlines of study. All the courses of study in the junior high school were revised this year by committees of junior high school teachers. These committees consisted of representatives from the several junior high schools who worked together in the preparation of the outlines. The members of the committee conferred with the other teachers in their own schools so that in this way all teachers had a part in the making of these outlines.
  - 4. Grade meetings of elementary school teachers with

supervisors of special subjects and with the superintendent of schools.

5. Reports from teachers upon new textbooks. Teachers have had an opportunity to examine and pass upon all books which have been submitted for adoption as new textbooks.

6. Conferences with individual teachers with the super-

intendent upon their personal or school interests.

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

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

tivities of the Junior Red Cross organization.

Fourth — The Somerville Visiting Nursing association has contributed \$50 for the conduct of the Modern Health Crusade

in several of the public schools.

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

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

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

## Conclusion ·

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

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

> Respectfully submitted, CHARLES S. CLARK,

Superintendent of Schools.

December 28, 1920.

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

Dear Mr. Clark:—

The year of 1920 marked a new epoch in the history of the Somerville High School,—the establishment of a Senior High School. Although junior high schools had been in operation for several years in certain parts of the city, yet not until this year were all pupils entering the High School graduates of a junior high school.

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

1. The original High School (1852-1895), largely a college preparatory school, was the only school which a pupil desiring an education beyond the grammar school could attend.

2. The Specialized High Schools (1895-1911). The Latin High School, a strictly preparatory school, and the English High School, a school doing some preparatory work, but placing great emphasis on business preparation, work in the manual arts, and making a special feature of the elective system.

- 3. The comprehensive four-year High School (1911-1920). The curriculum of the school was planned along the following lines: College Preparatory, Scientific Preparatory, Normal Preparatory, Commercial, General, Manual Arts and Domestic Science Courses. This type of school has gradually been adopted as the accepted type of high school throughout the country and in the report of the Commission on the Reorganization of Secondary Schools, appointed by the National Education Association published in 1918, the comprehensive high school was endorsed as the standard type of secondary school in the United States.
  - 4. The Senior High School (1920-).

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

### Physical Training.

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

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

### Open House Night

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

# PARENTS' NIGHT' SOMERVILLE HIGH SCHOOL

will keep

### OPEN HOUSE

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

Arts and Crafts
Biology
Bookkeeping
Chemistry
Commerce and Industry
Cooking
Dressmaking
Freehand Drawing

History
Manual Training
Mathematics
Mechanical Drawing
Physics
The Languages
Stenography
Typewriting

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

Throughout the evening the teachers will be in their class

rooms to welcome visitors for conferences.

## ALL FRIENDS OF THE SCHOOL ARE INVITED

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

#### Honor To Our Heroes

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

#### Credit For Music

The recognition of applied music as a part of the school curriculum not only brought to our attention a great many pupils who are studying music outside of school, and who are desirous of getting diploma credit therein, but has also cre-

ated renewed interest among the many pupils who have thereby registered as members of the orchestra, school band, fife and drum corps, glee clubs, etc.

The following figures are extremely interesting, and surely

indicate a great appreciation of music in the school.

## Enrolled in applied music. —

			Boys	Girls	` Total
Piano			6	64	70
Violin			4	5	9
Cornet			2	3	5
Voice			1	5	6
Trumpe	et		1	••	1
'Cello	1		1	••	1
Drums				1	1
			<del>'</del>		<del>,</del>
		•	15	78	93

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

			Boys	Girls	Total
Drum .			50	18	68
Fife .			22	3 <b>1</b>	<b>5</b> 3
Trumpet			7	••	7
Horn .		•	2		2
Trombone			3	••	3
Baritone			1	••	1
Bass .			3		3
Piccolo			1	••	1
Clarinet		•	4	••	4
Saxophone	•		1	••	1
			94	49	143
			_		

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

			Boys	Girls	Total
Piano .			1	1	2
Violin .			14	11	$2\overline{5}$
Viola .			1	••	1
'Cello .			••	2	$\overline{2}$
Bass .			1		. 1
Cornet	•		3	3	$\overline{6}$
Trumpet			1	••	1
Flute .			1	••	1
Piccolo			1	••	1
Clarinet			1 *		1
Melophone			1		1
Saxophone		•	2		$\sim \frac{1}{2}$
Trombone			2	••	$\overline{2}$
Drum .			1	**	ī
Tympani			1	••	ī
				_	
			31	17	48

The Girls' Glee Club has an enrollment of sixty pupils.

The Boys' Glee Club has an enrollment of thirty pupils.

The total number of pupils registered in the music courses is 374; girls 204, boys 170.

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

III Yr.	Courses			Boys	Girls	Total
	College			35	43	78
	General		·	. 26	$\frac{10}{29}$	55
	Scientific		·	41	••••	41
	Normal		•	••••	13	13
	Commercial .	•	•	22	109	131
	Grand total			124	194	318
II Yr.	Courses			Boys	Girls	Total
	College			54 -	91	145
	General			55	42	97
	Scientific .		•	119		119
	50-50			••••	6	6
	Normal			••••	22	22
	Commercial .	•	•	62	272	334
	Grand total			290	433	723
1 Yr.	Courses			Boys	Girls	Total
	College		•	66	45	111
	General			85	$\overline{23}$	108
	Scientific .			102	••••	102
	Normal			••••	· <b>4</b>	4
	Commercial .			73	234	307
	50-50		•	****	3	3
`	Grand total			326	309	635

## Summary

Courses			III Yr.	II Yr.	I Yr.	Total
College .			78	145	111	334
General .			55	97	108	260
Scientific			41	119	102	262
Normal .			13	22	4	- 39
Commercial			131	334	307	772
50 <del>-</del> 50 .			••••	6	3	9
Grand t	otal		318	723	635	1676

Two interesting observations should be made from the above tabulation.

1. The size of the General Course, 262 pupils out of 1676, giving a much larger proportion of general pupils than we have had in previous years. This would seem to imply that many pupils realize that neither the College Course nor the Commercial Course furnishes the best fitting for the particu-

lar plans which they have in mind.

2. The establishing of a 50-50 course, that is, the Domestic Science course authorized by the State Board of Education wherein girls may devote 50 percent of their time to household arts subjects and the other 50 percent to academic subjects, this course being state-aided. It is to be hoped that this course will become much larger as it is truly beneficial to the school and to the pupils.

## The Preparatory Course.

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

## Honors to Our Graduates at the Colleges.

The following pupils, all of whom received their college preparation in our comprehensive high school, have been granted special honors at college.

Class of 1916

ARRINGTON, RUTH

Radcliffe. Winner of \$200 Scholarship for passing best entrance examination. Won scholarship each year of college course. Phi Beta Kappa.

ARRINGTON, WINNIFRED

Radcliffe. Winner of scholarship each year of college course. Phi Beta Kappa.

MURRAY, ARNOLD

Harvard. Price Greenleaf Scholarship.

WEISMAN, BELLA

Boston University. Scholarship each year. Phi Beta Kappa.

NEWTON, CARL

Dartmouth. Rhodes Scholarship. Rufus Choate Scholarship at Dartmouth.

## Class of 1917

Cole, Russell

Tufts. Leader of class and of college in scholastic standing. Elected valedictorian. (Died shortly before graduation).

COYLE, DORIS

Boston University. Phi Beta Kappa.

CAREY, FREDERICK M.

Harvard. Scholarship each year. Foreign Fellowship at graduation. Made Phi Beta Kappa in Junior Year.

BARRETT, GERALD R.

Harvard. Scholarship each year of college course. Foreign Fellowship at graduation. Phi Beta Kappa.

DERBY, EDWARD H.

Harvard. Price Greenleaf Scholarship.

## Class of 1918

CURRIE, DOROTHY G.

Radcliffe. Winner of \$200 prize for passing best entrance examination.

STARBIRD, ARTHUR H.

Harvard. Second Group Scholarship.

## Class of 1919

CHAPMAN, DWIGHT I.

Boston University. Winner of Augustus Buck Scholarship.

Easton, Charles

Boston University. Winner of entrance scholarship. PRICE, HAROLD F.

Harvard. Price Greenleaf Scholarship.

## Class of 1920

BLANCHARD, WALTER O.

Harvard. Price Greenleaf Scholarship.

NORTHRUP, GUY H.

Harvard. Price Greenleaf Scholarship.

SLAFSKY, LEO

Harvard. Price Greenleaf Scholarship.

FOYE, LUCIAN CURTIS

Boston University. Buck Scholarship.

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

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

grade of progress, efficiency, and service.

## Respectfully submitted,

JOHN A. AVERY,

Head Master.

February 18, 1921.

### REPORT OF VOCATIONAL SCHOOL FOR BOYS.

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

Dear Sir:

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

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

made to these departments. No charge for labor furnished by the pupils is made to the City and the cash received from outside work done by the pupils is used to purchase raw materials, maintenance and equipment. The various manufacturing concerns with which we have been able to make connections, havefurnished material to the extent of \$1401.41.

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

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

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

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

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

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

Respectfully yours,

HARRY L. JONES.

December 31, 1920.

## BOYS' VOCATIONAL SCHOOL. SOMERVILLE, MASS.

#### Financial Statement, 1919-1920.

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

#### REPORT OF THE GARDEN SUPERVISOR FOR 1920.

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

#### Dear Sir:

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

The general appearance of the Somerville school gardens, and the results obtained by the 365 boys and girls who successfully carried on this project last summer, are positive proof

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

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

score or more of other cities and towns.

#### Seeds.

At the request of several principals and teachers the garden supervisor obtained a supply of flower and vegetable seeds put up in small packages from a reliable seed concern, which

were sold to school children at cost. In this way good, reliable seeds of the varieties best adapted to conditions found here in Somerville, were placed in the hands of the school children. About 12,000 packages of seeds were disposed of this season, and from the reports received good results were obtained, and it is planned to continue this practice each year.

## Canning Clubs.

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

#### Winter Instruction.

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

In addition to my work with the school gardens help and assistance were given to any and all persons, juvenile or adult, who carried on backyard or vacant lot gardens during the season of 1920, children alone having about 2500 such plots under cultivation in the City of Somerville. Many of them produced vegetables enough to furnish the home table during the entire garden season. The use of some cold frames at the City Farm

was given by that Department and children from the Cutler and Western Junior High Schools raised in these frames about 2500 cabbage plants, and 1000 tomato plants which were used in the school gardens. I wish it were possible to have cold frames in the school yards of several of our school buildings where vegetables, plants and flowers might be started by the children and transplanted to their garden plots later in the season.

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

## Very truly yours,

WILLIAM B. MOORE.

January, 1921.

## SCHOOL GARDEN DATA, SEASON 1920

			y
Location	School	No. Children	Area
Adrian Street	Knapp	30	1 Acres
Prospect Hill	Pope	18	1/4 "
Glen Street	E. Jr. H.	$\tilde{1}\tilde{2}$	1/4 "
Glen Street		$\frac{12}{20}$	1 "
D 1	(Edgerly	20	1
Broadway	(01:	4.0	
	(Glines	12	
Central Hill	(Cummings	22	
	(		1 "
Highland Avenue	(Perry	12	
	'(N. J. H.	8	
Central Hill	(S. J. H.	$1\overline{2}$	1 "
	(		-
School	Proctor	20	
201001	(2100001		
Craigie Street	Morse	25	1 "
Lowell Street	Bingham	. 40	1 "
Powder House	Brown	. 14	1/4 "
Powder House	Lowe	15	1/4 "
10Wdxl 110usc	(Highland	$\frac{10}{20}$	/ <del>*</del>
Tufta Ovol	(Ilighiana	20	1½ "
Tufts Oval	(377 T TT	2.0	1 72
~	(W. J. H.	30	1 "
City Farm	Cutler	55	1 "
		0.05	
		365	

## ESTIMATE OF AMOUNT OF CROPS GATHERED AND THEIR VALUE.

### Season 1920.

### Individual Plots

		R	etail Mkt	+	
	Amt. from	Total	Value	Total	
Kind	each plot	Amount	per unit	Amount	
Radishes	30 bunches	9,600	.08	\$768 00	
String Beans	8 qts.	2,560	.12	307 20	
Shell Beans	7 qts.	2,240	.15	336 00	
Dried Beans	2½ qts.	800	.20	160 00	
Table Beets	200	64,000	.025	1,600 00	
Table Carrots	100	32,000	.02	640 00	
Swiss Chard	4 pks.	1,280	.35	448 00	
Summer Squash	20	6,400	.15	960 00	
Ripe Tomatoes	3 pks.	960	.85	812 00	
Green Tomatoes	1½ pks.	480	.50	240 00	
Beet Greens	1 pk 7 heads	$\begin{array}{c} 320 \\ 2,240 \end{array}$	.35 $.15$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Cabbage Lettuce	16 heads	5,120	.10	512 00	
Parsnips	75	24,000	.02	480 00	
1 arsnips		24,000	.02	400 00	\$7,711 20
					ψ·,· = 0
	Comm	unity Plo	ts		
Sweet Corn	1035 doz.		.45	465 75	
Turban Squash	750 fbs		.05	37 50	
Turban Squash	100 105.	******	.00	01 00	503 25
Total value o	of Garden produc	cts			\$8,214 45
	Canning	Club Val	ues.		
		77	- 1	Make 1	
No. Participating	Arramana No of 1	• •	alue	Total Value	
			jar		
56	32	•	40	\$716 80	<b>51</b> 2.00
					716 80
Value in money of		nning pro	jects		\$8,931 25
December 1, 1920	•				

Comparison of Garden and Canning values to Cost of Undertaking.

## Value of Crops.

Value of vegetables sold Value of vegetables used	at	\$1,630 45
home (Fresh) (Canned) .	•	5,868 50 715 50
Total Value of Garden Crops	-	\$8.214 45

## Value of Canned Products

value o	Canned Pi	oducis	
1792 Jars @ 40c		716	80
Total Values			\$8,931 25
Cost of G	arden Unde	rtaking <sub>.</sub>	
Salaries Supervision . High School Boy as helper	\$1,079 89		
@ \$3.00	169 50		
		1,249	39
Instruction Salary of Agricultural Teacher	1,024 75		
•	1 .	1,024	75
Cost of preparing land for Gar Plowing Teaming Fertilizer Labor. Helper on team @ \$4.00	rden Use 150 13 94 50 75 00		
Ψ1.00		950	40
Miscellaneous disbursements Use of Auto Express Painting signs	235 33 11 40 14 00	378 (	
Sundries			
		272	43
Cost of C	anning Oper	rations	
2 Teachers @ \$3.00 each per			
day		93 (	60 <del></del>
Total Cost to City			\$3,018 80
Actual money profit from undertaking			\$5,912 45
STATEMENT SHOWING THE	NUMBER (	F HIGH SC	HOOL PUPILS,
BY SUBJECT	rs, DECEMB	BER, 1920.	
English			1676 663
History			827
Algebra		: :	353 469
Trigonometry Latin		• •	35 375

French						•						879
Spanish									•			330
German											•	22
Greek	•			•	•							17
Chemistry	,	•										437
Physics		•	•									120
Physiolog	v	•	•									16
Biology	3	•	•	•								42
Astronom	v and	Gen	logy	•	•	. *						16
		u co	1063	•	•	•						660
Stenograp	my	•	•	•	•	•	•	•	•	•		695
Typewriti		•	•	•	•	•	•	•	•	•	E.	310
Bookkeep		•	•	•	•	•	•	•	•	•	•	742
Penmansh				•	•	•	•	•	•	•	•	336
Commerce	e and	Indus	stry	•		•	•	•	•	•	•	107
Business			id Sa	iesma	ınsnır	)	•	•	• 1	•	•	40
Business .				•	•	•	•	•	•	•	•	
Manual 7	raini	ng	•	•	•	•	•	•	•	•	•	177
Mechanica	al Dra	awing	•			•	•	•	•	•	•	388
Free Han	d Dra	wing			•	•	•	•	•	•		107
Cooking			•		•	•	•	•	•	•	•	54
Sewing							•	•	•	•	•	128
Textiles							•	•	•	•	•	10
Dietetics			. \								•	10
Commerci	al La	ιw					•	•	•			21
Arts and	Crafts	3										19
Millinery	01420											13
Household	a Scie	ence										10
Printing		01100	•	•								10
rimung	•	•	•	•	•	•	•	•				

## SOMERVILLE TEACHERS' ASSOCIATION.

1920 - 1921.

President, William W. Obear

Mrs. Bertha M. Morton Vice-Presidents, l Arthur L. Doe

Secretary-Treasurer Ilene C. Ritchie

Executive Committee

Charles S. Clark, ex-officio.

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

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

The meetings held under the auspices of this association in the year 1920 were as follows:

April 21 - Reading by Mrs. Elizabeth Pooler Rice. Subject: "The Two Virtues."

December 8 — Lecture by John Clair Minot. Subject: "Unfamiliar Phases of the Pilgrim Story."

## SOMERVILLE TEACHERS' CLUB.

Officers, 1920 - 1921

President, Annie C. Woodward.

∫ Clara G. Hegan Vice-Presidents, Mary B. Soule

Recording Secretary, Clara B. Sackett Corresponding Secretary, Gladys L. Swallow Treasurer, Mary G. McCarthy Auditor, Alice A. Todd

## Object.

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

#### Program.

January 21 — Address by Mrs. Claude Gilson of Boston. Subject: "The

New Citizen and Her Education."

February 17 — Symphony Concert, assisted by Mrs. Grace Bonner Williams.

March 24 — Address by Frank P. Speare, President of Northeastern College. Subject: "The Teaching Profession, its Present and Future Status." Following the lecture Mr. Clayton L. Lent, Secretary of the State Teachers' Retirement Board, explained "The Benefits and Possibilities of the Teachers' Retirement Fund and the Proposed Legislation."

April 21 — Joint meeting with the Teachers' Association.

October 19 — Address by Hugh S. Magill, Field Secretary of the National Education Association. Subject: "A National Program in Education." Address by Dr. Albert E. Winship, Editor of the Journal of Education. Subject: "Educational Problems."

November 9 — Lecture by Chief Strongheart. Subject: "From Peace

Pipe to Trail." A special invitation was extended to the Camp

Fire Girls, Girl Scouts and Boy Scouts.

November 17 — First of a series of Concerts. "The Cotters' Saturday Night."

December 15 — Christmas Party. Solos, games, carol singing and gifts, followed by refreshments and dancing

## SOMERVILLE HIGH SCHOOL ATHLETIC ASSOCIATION.

## Report of Treasurer.

Balance in Bank January 1, 1920	\$1,976	12	
Check in circulation, No. 129 for \$50.00 at the time	50	00	
Balance	1,926		
Interest omitted in report	15	02	\$1,941 14
Disbursements, —			ψ1,011 11
Coaching, Cleo A. O'Donnell, balance			
	\$1,150	0.0	
due for 1918	118		
Officials, Football game, Everett vs.	110		
Somerville game, played at Braves			
Field	40	00	
Expense, Suburban League "Get-Togeth-	20		
er-Night" for "Letter Men" at Bos-			
ton City Club	62	00	
Coaching, George S. McLaughlin, on ac-	°-		
count	100	00	
Expense, Parke Appel, for special Com-	100		
mittee to arrrange Football game			
with Scott High School, Toledo,			
	3	75	
O	0	10	
League dues	2	00	
League dues		83	
Check to George E. Pearson, Treasurer	J	00	
to balance amount in Bank	454	70	
to sum of unit and in a sum of the sum of th	101		\$1,941 14
Report is from January 1, 1920	to April 2	0, 1920	

J. L. HAYWARD,

Sec'y-Treasurer.

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

Receipts	•						
Balance on hand Apr. 1	5, 1920	.′		\$454	70		
Baseball games			•	2,044	19		
Football games							
Membership dues .				215			
Interest on bank deposit				_			
Miscellaneous				57			
	·		Ť			\$8,718	04
Expenditures							
Athletic supplies				2,261	02		
Medical attendance and	supplies	s .		245			
Paid to visiting teams.						`	
Police		•	•	589			
Officials		•		0.50			
Assistance at games .	•	•	•	136			
Telephone		•		11			
Postage		•	•	_			
Printing		•	•	178			
Carfares and transports		nlow	Ord	177			
			CIS	560			
Coaching			•				
Treasurer's salary .			ď	300	00		
Dues — Suburban and			۵.	-	0.0		
Leagues					00		
Special expenses .		•	•	256		•	
Miscellaneous expenses	•	•	•	56	84	0.T 0.24	0.0
	1004					\$7,354	
Balance on hand Jan. 1, 1	1921 .					<b>\$1,</b> 364	02

GEORGE E. PEARSON,

Treasurer.

#### STATEMENT OF WORK OF SCHOOL NURSES.

For Year Ending June 30, 1920.

	Full Tear Ending June 50, 1520.																							
				Sehool				PUP	Nose	CORTE	D TO C	LINICS				on	Ope	er-	Conta-	1	Home	Hy	ne	REMARKS
		N	o. of	= In	spectio	ns			and	*Medi-						isi	atio	ons 1	ound 1	n.	VISIUS	Tan	KS 2	September: Secured clothing through Junior Red Cross for four children. Assisted in arrangements for performances of Cho-Cho, Health Clown. Assisted Medical Inspectors. Family sent to Associated Charities for assistance. Case of neglected children reported to S. P. C. C. Child sent to
		P	upils	ts i	for	E	e l	Car	Throat	cal	Surgi	eal Sk	in   D	Dental	1			1				1		school dentist with abscess.
DATE	School or Hospital	New	Old	Treatmen		New	Old	Old	New	New	New	New	Old	Old	Optician	Corrected	Tonsils	Adenoids	School	Now	Old	School	41	October: Arrangements for children to be treated at Forsyth Dental Dispensary. Arrangements made for several pupils to receive hospital treatment. Case of very neglected child taken care of. Three neglected families reported to S. P. C. C. Assisted Medical Inspectors in inspection of teeth. November: Child taken to Psychopathic Hospital found to be feeble-minded. Assisted Medical Inspectors in making record of tuberculosis cases. Clothing given to needy children. Scarlet fever case reported to Board of Health. Made appointment for child to be operated on during Xmas vacation. Arranged for hospital visit. Arranged for two operations on nose and throat. Reported case to S. P. C. C. Several children sent to School Dental
September	Selvools	.19 0107	.)6	112	14 2																		-	Dispensary. December: Children sent to Dental Dispensary for treatment. Clothing given to needy family with five children. Assisted Medical Inspectors in making
	Hospitale	1															. 9		3				*	tuberculosis records. Arranged for children to attend Xmas tree celebrations at various places. Arranged with Associated Charities for Xmas
October	Schools 1	03 1497	162	234	92 4	1 4	4 1		1	1 1		1 1	5 30	0 42	1	9	1	1	11 5	3:	3 15	380	- 4	baskets to be sent to families.
November	Hospitals	14	1 005					1 1	2							- 2							J	fanuary: Arranged with Junior Red Cross to pay for milk for boy. Special dental case referred to Forsyth Dental Dispensary. Several children fitted
														20   54	4	2	. 3	3 1	10	2	1 34	323		with shoes and rubbers from Junior Red Cross funds. Arranged for five children to be examined at Psycopathic Hospital. Arranged for hospital vis-
December	Schools	91 1166	280	146	95 4	2 1	9	1	3	. 1	20	1	0			0 1		0				368		its for children from three schools. Assisted Medical Inspectors, Cases of bad teeth referred to School Dentits. Clothing given to two children
																							····· ] T	from Junior Red Cross funds. Child fitted with glasses from Junior Red Cross funds. Eight year old boy provided with clothing and sent to school. February: Arranged for children to visit Forsyth Dental Dispensary, Boston Dispensary, and Psychopathic Hospital. Arranged for 4 children to have
January	Schools 1	02   1243	303	189	67 2	7   8	12			6 2			13	2 53	9	11	5	5	4		5 49	169	1	eyes examined. Assisted Medical Inspectors in examinations for pediculosis and for bad teeth. Arranged with Junior Red Cross to pay for glasses
77 a b	Hospitals	16												_   00				"	3		9 40	100		and for a brace.
February	Hospitale	12: 708	199	137	56   1	)   6	4		1	1	!	1	1:	3 30	3	4			2	2	3 21	157	2	March: Arranged for children to go to Forsyth Dental Dispensary. Clothing collected for needy children. Arranged for six children to receive hospital
March	Schools 1	19 1094	3.10	183	87 1	2 6	0 1							- 00			1.1			·				treatment. Shoes and rubbers provided from Junior Red Cross funds. Arranged for child below normal to be sent to Waverly. Scarlet fever
	Hospitals	17:	1 010	11.0		,   0	2 1		,	2 1		[ 1	2	88	2	6	. 1	1 1	11   3	3	5 70	114	2	and reported to ask at the season of the sea
April	Schools	98 988	345	133	80 5	2 12	9	.1	2 + 1	1 1		1	1 4.	1 88	8	6	1	1	1 1		1 10	100	0	paid for by Associated Charities.  April: Clothing given to two needy families. Child examined at Psycopathic Hospital found to be feeble-minded. Pair of boots provided thru Junior Red Cross. Three pairs of classes naid for by Junior Red Cross. Two dental cases referred to Hospital, for extraction. Three cases of defective vis-
	Hospitals	19											1		0		1	*	4	4	4 49	150	0 4	April: Clothing given to two needy families. Child examined at Psycopathic Hospital found to be feeble-minded. Pair of boots provided thru Junior
May	Senools 1	12: 1213	250	172 1	31 + 9	3 4	11		11 1	1			10	0 63	10	7	. 4	4	2 10	3	5 46	294	3	
Luna	nospitais	10 1050	1												1				-   ••		10	20.1	· .	ion recommended for special class.

\*Treated by family physician or dentist.

since with the properties and the properties of 


	. Month.	September October November January February March April May	Total	Receipts:— Cash on hand September 1. From fees From sale of tooth brushes and pow Expenditures:— For supplies Cash on hand June 30
	No. Children Treated.	71 158 123 109 95 51 113 152	1124	wder
בסר נח	No. First Appointment	65 120 94 89 77 77 117 83 113	898	
e school	No. Reappointments.	36 9 8 1 1 8 2 9 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	256	COMP
ol rear	Teeth Extracted.	35 83 83 48 102 102 70 70 70	646	COMPARATIVE \$32   1017-
r Enaing	. No. of Teeth Filled.	25 25 35 35 35 35 35 35 35 35 35 35 35 35 35	867	
ng June,	No. Cleansings.	11 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	- 88	4
ie, 1920	No. Having Brush.	56 102 102 102 94 75 121 92 132 82	923	
	No. not Having Brush.	21.22.22.22.22.22.22.22.22.22.22.22.22.2	201	STATEMEN 1918-1919 \$46.68 115.50 
	Amount Collected.	\$5.90 18.73 15.06 14.20 11.80 5.00 13.75 16.39	\$132.34	Ė
	Incidental Expenses.	\$4.21 10.30 6.35 6.35 8.17 10.17 6.02 5.50 5.38	\$68.83	\$162.18
	Хочоевіп.	29 62 62 41 37 45 45 45 45 37 37 35	429	1919-1920 \$50.56 132.34 
	Ттеаттептз.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	173	0
	Ехятіпатіопз	101	+3	\$182.90

SCHOOL DEPARTMENT.

#### CONTENTS OF APPENDIX.

#### SUMMARY OF STATISTICS.

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

#### MISCELLANEOUS TABLES.

#### CONCERNING FINANCE.

#### No. of Table.

1. Schedule of school property.

2. Cost of maintaining schools, school year 1919-1920.

3. Cost per capita of maintaining schools, school year 1919-1920.

4. Cost of maintaining schools for a series of years.

5. Cost per capita for maintaining schools for a series of years.

Amount spent annually for new school buildings and for repairs for a series of years.

#### CONCERNING PUPILS.

7. Population and school registration.

Attendance, etc., of the schools for school year 1919-1920.

9. Statistics of the high school for school year 1919-1920.

10. Pupils by grades, June, 1920.

11. Separate statistics for high, junior high, elementary and vocational schools, for school year 1919-1920.

Admissions to first grade in September. 12.

13. Number of junior high school graduates, 1920.

14. Truant statistics for a series of years.

15. Evening school statistics, 1919-1920.

16. Grammar school promotees for a series of years.17. Attendance statistics of all schools for a series of years.

18. Statistics of the high school for a series of years.

19. Promotions, junior high schools, 1920.

19A Promotions, elementary schools, 1920.

#### CONCERNING TEACHERS.

20. Resignations of teachers, 1920.

21. Teachers elected in 1920.

22. Leave of absence of teachers.

23. Transfers of teachers.

24. Number of teachers employed for a series of years.

#### STATISTICAL AND GENERAL TABLES.

25. Changes in text-books, 1920.

26. High and Junior High school graduation exercises, 1920.

27. Vocational school graduation exercises, 1920.

28. Organization of school board for 1921.

29. Teachers in service January, 1921.

30. Officers in service January, 1921.

31. School janitors.

## SUMMARY OF STATISTICS.

1.—POPULATION	ON AND SO	CHOOL	CENS	SIIS.	
					52,200
Population, state census, 18 Population, United States c					61,643
Population, state census, 19	905				69,272
Population, United States co					77,236
Population, state census, 1					
Population, United States of					93,033
Children between five and si	xteen years	of age	, April,	1920,	
by school census			•••••	•••••	1.5,704
2 —SC	HOOL BUI	LDING	S		
					30
Number of school buildings Number of classrooms in us	o in June	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		382
Valuation of school property.					
					Ψ=,= (1,100
3	.—TEACHE	RS.			
		*191		*1920	Change
In high schools		6		68	-1
In junior high schools		10		113	+7
In elementary schools		20	_	209	+3
In kindergartens  Total in elementary schools		21	8 1	$\begin{array}{c} 8 \\ 217 \end{array}$	$0 \\ +3$
Vocational school for boys			6	7	+1
Vocational school for girls			$\overset{\circ}{6}$	2	-4
Atypical classes			$\overset{\circ}{3}$	3	9
Cadet teachers			2	3	+1
Special		1	1	10	1
m / 1			_	400	
Total		41	7	423	+6
4.—ATTI	ENDANCE I	FOR YI	EAR.		
		*191	9	*1920	Change
Entire enrollment for the	year	14,03	9	14,091	+52
Average number belonging		12,73	3	12,836	+103
Average number attending		11,60		11,807	+198
Per cent. of daily attendan		91.		91.9	+0.7
High school graduates		31		241	69
Junior High school graduate	es	59	Q	705	+109
5.—COST OF	SCHOOL N	AINT	ENANC	Œ.	
	*1919		*1920		Change
Salaries of teachers	\$426,587	31 \$	598,589	80 -	+172,002 49
Salaries of officers	11,142		14,704		+3,561 37
Cost of books and supplies Cost of light	33,225 8,820		40,078 $10,091$		+6,853 42 $+1,271$ 10
Cost of janitors' services.	55,709		56,381		+671 40
Cost of fuel	22,959		37,083		+14,123 48
Rent of Armory	882		750		—132 50
Total cost of day and ev-					
ening schools	559,328		757,678		+198,350 76
Per capita cost	43	93	57	23	+13 30
Cost of high school instruc-	05 110	0.1	111.704	0.1	1.04.070.00
tion	87,112	73	111,784		$+24,67290 \\ +2020$
Per capita cost	91	10	(1	93	+20 20

<sup>\*</sup>School year.

#### 6.—MISCELLANEOUS.

Paid for new school build-	*191	9	*1920		Change	
ings	\$104,066	80	\$200	00:	\$103,866	80*
provements			44,285	_	+23,794	
Total school expenditures  Number of dollars spent to maintain schools out of every \$1,000 of valua-	683,886	47	802,164	7.5	+118,278	28%
tion	6	<b>4</b> 3	9	03	+2	60
Valuation of city Number of dollars spent for all school purposes out of every \$1,000 of valua-		00				
tion	7	82	9.	56	+1	74:

<sup>\*</sup>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, 1920, is \$757,678.84.

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

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

The amount paid for	janito	rs is		•-	••	••	\$56,381	
The cost of fuel is		•	•	•	•	•	37,083	
The cost of light is	• •	•	•	•	•	• .	10,091	
Rental of Armory	•	•	•	•	•	•	750	00
A total cost of		•	•	•	•	•	<b>\$104</b> ,306	10
The cost per car	pita .	•		•	•	•	8	13:
Cost of repairs .			•	•	•	•	\$44,285	91

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:—

## CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CONTROLLED BY THE SCHOOL BOARD FOR THE YEAR 1920. Seat Wark

Schools High Eastern Junior High Southern Junior High Northern Junior High Western Junior High Prescott Hanscom Bennett Baxter Knapp Perry Pope Cummings Edgerly Glines Forster Bingham Carr Morse Proctor Dureil Burns Brown Highland Cutler Lincoln Lowe Atypical Boys' Vocational Evening, Highland Evening, Highland Evening, Highland Evening, Practical Arts Americanization Continuation Dentai Administration Miscellaneous	Regular \$122,017 96 34,101 50 46,367 25 40,659 70 56,912 58 7,650 25 17,294 75 8,332 00 12,261 50 0,673 51 18,201 50 6,634 63 19,085 00 20,648 75 6,231 50 23,035 38 22,489 51 16,601 37 11,183 26 6,453 13 12,993 51 14,978 25 26,557 77 6,318 50 13,093 38 4,462 00 14,197 50 3,638 50 14,978 26 4,331 50 14,197 50 3,638 50 1,973 00 939 00 844 95 529 45 606 00 3,245 00 1,579 00	\$1,664 10 688 75 691 37 786 09 679 00 200 20 396 48 444 79 421 59 505 61 450 27 895 74 173 45 953 42 801 15 223 83 862 66 702 29 442 93 368 39 173 45 326 80 173 52 280 36	\$ACHERS	Ondergarten T\$123,\$47,\$41,\$57,, 1,877 75 18, 2,330 00 20, 2,590 00 11,\$19,\$6,\$20, 2,590 00 24,\$24,\$16\$13,\$16\$13,\$4\$14\$3\$14	Potal Ad 3,891 06 3,163 75 3,62 62 5,527 79 5,767 58 5,904 45 5,021 98 5,280 04 1,432 09 2,885 01 5,256 28 5,355 24 5,834 08 5,145 42 6,145 42 6,294 90 6,145 42 6,294 90 6,145 42 6,294 90 6,145 42 6,294 90 6,146 15 6,652 58 3,433 31 6,820 50 6,180 59 7,680 07 6,567 02 8,524 24 4,462 00 6,180 59 7,680 07 6,567 02 8,524 24 4,462 00 8,431 50 1,973 00 939 00 844 95 529 45 606 00 3,245 00 1,579 90 3,245 00 1,579 90	iministration \$3	Books 3,104 43 172 40 454 72 383 73 519 90 32 17 216 45 70 53 62 01 113 19 148 47 293 00 30 94 81 97 152 49 108 94 141 88 331 19 197 77 106 77 54 17 110 21 156 05 392 23 392 89 100 67 110 45 3 00	\$171 00 143 56 35 00 35 00 70 00	\$176 66	2 17 31 76 4 66 	107 96 215 11 127 96 295 26 47 66 68 35 51 77 27 55 46 91 40 40 85 93 28 71 82 73 48 84 50 09 108 90 123 18 78 91 42 42 13 73 57 73 41 86 129 30 203 06 22 47 23 41 4 80 33 30 40 49 6 07 14 59 19 67 21 78	23 32 125 58 89 97 108 92 40 67 57 27 116 09 12 47 36 62 41 57 112 97 32 64 99 22 88 32 33 39 95 43 85 91 50 60 6 95 11 74 60 48 41 32 106 60 185 07 33 60 28 29 6 89 34 47  24 50 4 53  11 20	Books \$653 75 17 60 28 80 22 40 38 40 3 20 8 00 3 20 4 00 4 00 4 00 1 60 4 80 17 50 11 20 12 00 6 40 8 00 2 40 4 80 8 00 1 60 1 60 1 60 1 60 1 80 1	1 44 1 13	ery \$196 02 24 65 27 86 12 95 11 76 1 77 5 80 16 87 6 44 7 98 6 28 7 62 7 56 14 43 6 28 3 15 13 58 5 50 14 89 3 92 1 44 10 65 5 18 14 56 26 73 5 44 1 02 1 12 12 62 90 36 1 39 177 69 16 00	\$ 50 12 46 4 59 6 65	\$407 35 17 40 12 80 3 56 58 3 57 17 77 12 47 15 39 5 78 4 36 5 93 13 00 25 36 4 66 25 35 26 18 18 68 16 79 58 10 00 17 66 13 08 11 04 8 06 8 83 80 17 25 31 13 	\$ 60 30 92 30 84 18 89 1 56 5 18 6 49 \$ 03 \$ 74 47 28 \$ 16 28 25 25 32 91 8 11 6 42 27 77 8 81 \$ 25 50 8 12 9 40 23 63 \$	Supplies \$732 00	2 94 1 26 3 00 	22 65	81 68 10	\$6 82 9 68 24 50 	\$95 35 15 90 9 55 9 10 9 80 	\$207 81 41 71 76 50 61 95 90 15 	1,646 69	\$230 25 7 50 7 61 1º 70 7 62 	2 00	457 95	\$77 36 43 90 62 50 50 16 86 55 25 88 38 21 33 74 30 17 32 81 27 96 26 09 24 41 24 36 29 60 35 44 31 13 \$8 83 38 73 \$\frac{20}{35}\$ 41 31 13	\$ 127 64 4 79 1 30 1 84 16 19 2 61 5 38 9 67 4 88 14 65 2 00 4 85 2 50 2 78 4 32 2 14 2 73 2 11 3 48 2 20 81 1 23 1 37 18 23 22 29 4 48 31 90 	Expressage \$88 51	6 00 3 00 3 00 3 00	171 87	233 78	7 94 8 00 4 00 6 20 13 58 5 90 16 50 27 00 21 20 256 76 31 10	\$9,058 21
Tntal	\$647,339 21	\$15,832 26	\$3,858 75	\$9,387 75 \$676	6,417 97 \$1	16,479 20 , \$8	8,134 53	\$454 56	\$176 65	\$123 31	\$2,800 S6	\$2,220 30	\$946 85	\$1,768 28	\$670 42	\$30 70	\$788 68	\$350 73	\$732 00	\$3,555 56	\$994 56	\$243 93	\$42 08	\$210 50	\$518 64	\$1,646 69	\$1,523 24	\$229 11	\$766 45 \$	31,125 31	\$604 31	\$160 54	\$41 75 \$	171 87	\$233 78	\$456 15 \$	31,727 84

r	Salarles	***************************************	15,479	20	
۴	Supplies	****************************	\$31,727	84	

Total spent from Contingent ... \$47,207 04

## CLASSIFIED STATEMENT SHOWING DISTRIBUTION OF EXPENDITURES CO

Domestic and Labor-White Manila Bookkeep. Book Maps. Blank Pencils, Pens. Station-Science Drawing TEACHERS Kindergarten atory binding Charts Paper Paper Books Kindergarten Total Books ing Blanks etc. Administration ery Supplies Supplies Substitute Supplies Regular Special Supplies Schools \$171 00 \$1.76 65 \$5 28 \$495 96 \$413 70 \$653 75 \$493 65 \$123,891 06 \$3.104 43 \$196 02 \$1.664 10 \$209 00 . . . . . . \$407 35 \$732 00 \$122,017 96 . . . . . . . . . . . . . . . . . . High ..... 2 17 107 96 23 32 17 60 373 50 35,163 75 172 40 143 56 19 45 24 65 \$ 50 17 40 . . . . . . 688 75 . . . . . . 34,101 50 Eastern Junior High ..... . . . . . . . . . . . . 125 58 47,362 62 454 72 35 00 31 76 215 11 28 80 112 85 27 86 12 46 12 80 304 00 . . . . . . 691 37 Southern Junior High ..... 46,367 25 . . . . . . . . . . . . . . . . . . 127 96 89 97 22 40 41,527 79 383 73 35 00 84 91 12 95 4 59 132 00 . . . . . . 736 09 . . . . . . . . . . . . . . . . . . Northern Junior High ..... 40.659 70 . . . . . . . . . . . . . . . . . . 295 26 519 90 70 00 4 66 108 92 38 40 90 01 11 76 57,767 58 6 65 679 00 176 00 . . . . . . 3 66 . . . . . . 56,912 58 . . . . . . . . . . . . Western Junior High ..... . . . . . . 47 66 40 67 3 20 37 36 1 77 54 00 7,904 45 32 17 58 \$ 60 200 20 . 7,650 25 . . . . . . . . . . . . Prescott ..... . . . . . . 216 45 68 35 57 27 8 00 33 42 5 80 \$1.877 75 18.621 98 3 57 30 92 251 50 16.096 25 396 48 . Hanscom ..... . . . . . . 51 77 3 20 70 53 116 09 39 01 16 87 2.330 00 20,280 04 17 77 30 84 210 50 17,294 75 444 79 . Bennett ..... . . . . . . 27 55 12 47 4 00 23 85 2.590 00 11.432 09 62 01 6 44 12 47 421 59 88 50 . . . . . . . . . . . . . . . . . . 18 89 8.332 00 . . . . . . . . . . . . . . . . . . Baxter ..... 36 62 10 85 46 91 4 00 35 40 7 98 12,885 01 113 19 15 39 1 56 505 51 118 00 12.261 50 . Knapp ..... 10,256 28 148 47 40 40 41 57 1 60 18 65 6 28 5 78 450 27 132 50 5 18 9.673 51 . . . . . . . . . . . . Perry ..... 85 93 112 97 4 80 293 00 9 38 46 64 7 62 4 36 19.355 24 6 49 895 74 258 00 18,201 50 . Pope ..... 30 94 28 71 32 64 14 50 7 56 6.834 08 5 93 6,634 63 173 45 26 00 . . . . . . . . . . . . 8 03 . Cummings ..... . . . . . . 82 73 99 22 17 50 76 86 14 43 953 42 107 00 20,145 42 81 97 13 00 8 74 19.085 00 . Edgerly ..... . . . . . . 152 49 48 84 88 32 11 20 43 25 6 28 255 00 2,590 00 24.294 90 25 36 47 28 801 15 20.648 75 . Glines ..... . . . . . . 33 39 50 09 33 37 3 15 54 50 6.509 83 108 94 4 66 223 83 6.231 50 . Forster ..... . . . . . . 24.000 53 16 38 108 90 95 43 12 00 49 92 13 58 141 88 23.035 38 852 65 112 50 25 35 16 28 . Bingham ..... . . . . . . 8 71 123 18 85 91 74 88 5 50 702 29 53 50 23,245 30 331 19 6 40 26 18 25 25 22.489 51 . . . . . . . . . . . . . . . . . . Carr ..... . . . . . . . . . . . . 197 77 78 91 50 60 8 00 38 54 14 89 442 93 70 00 16.114 30 18 68 32 91 15.601 37 . . . . . . Morse ..... 42 42 6 95 2 40 23 10 3 92 368 39 84 50 11,636 15 106 77 16 79 8 11 11,183 26 . Proctor ..... . . . . . . 13 73 26 00 6.652 58 54 17 11 74 15 00 1 44 58 6 42 6,453 13 173 45 . Durell ...... . . . . . . . . . . . . 326 80 113 00 13,433 31 110 21 57 73 60 48 4 80 23 80 10 65 10 00 27 77 12,993 51 . Burns ..... . . . . . . . . . . . . 16,820 50 8 00 41 86 41 32 8 00 39 65 5 18 558 99 126 25 156 05 17 66 16,135 26 8 81 Brown ..... 14 56 16.180 59 392 23 26 12 129 30 106 60 13 60 73 09 118 50 14.978 25 1,083 84 13 08 Highland ..... 203 06 185 07 17 60 108 87 26 73 943 30 179 00 27,680 07 392 89 11 04 25 50 26.557 77 Cutler .... 33 60 1 60 22 90 6.318 50 173 52 75 00 6,567 02 100 67 22 47 5 44 8 06 8 12 Lincoln ..... 13,524 24 23 41 28 29 1 02 13.093 38 280 36 150 50 110 45 24 45 8 83 9 40 Lowe ..... 1 12 4.462 00 4.462 00 4 80 6 89 1 66 80 23 63 Atypical ..... 14.197 50 33 30 34 47 12 80 32 32 12 62 17 25 Boys' Vocational ..... 14,197 50 3 00 . Girls' Vocational ..... 3,623 86 3,623 86 6 50 . ' . 4,331 50 4,331 50 40 49 24 50 10 00 20 41 90 31 13 Evening High ..... 1.973 00 6 07 36 Evening, Bell ..... 1,973 00 4 53 8 85 . Evening, Highland ..... 939 00 939 00 14 59 5 10 1 39 ..... . . . . . . . . . . . . . . . . . . Evening, Vocational ...... 844 95 844 95 . Evening, Practical Arts ..... 529 45 529 45 . 606 00 Americanization ..... 606 00 . Continuation ..... 3.245 003.245 00 . Dental .... 1,579 00 1,579 00 . Administration ..... . . . . . . \$15,479 20 46 60 19 67 1 44 177 69 . Miscellaneous ..... 33 17 45 31 21 78 11 20 31 20 1 13 16 00 . Total ..... \$647,339 21 \$15,832 26 \$3,858 75 \$350 73 \$9,387 75 \$676,417 97 \$15,479 20 \$8,134 53 \$454 56 \$176 65 \$123 31 \$2,806 86 \$2,220 30 \$946 85 \$1,768 28 \$670 42 \$30 70 \$738 68 \$732 00

SALARIES

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

Labor-					Typewriter	Gradua-				Electric	Tele- phone			Piano tuning		Auto Mainte			
atory	Equip-		TT A	Matol	repairs and supplies	tion	Tuition	Printing	Postage	Power	service	Miscellaneous	Expressage	and repairs	Baths	nance	Travel	Total	
Supplies	ment	Lumber \$183 36	Hardware \$81 69	Metal \$6 82	\$95 35	\$207 81		\$230 25	\$20 76	\$308 50	\$77 36	\$127 64	\$88 51				\$5 25	\$9,058 21	····· High
\$732 00	\$775 12 18 55		1 34	•	15 90	41 71		7 60	50		43 90	4 79	5 25				9 02		Eastern Junior High
	468 40	216 14	22 09	9 68	9 65	75 50		7 61			52 50	1 30	8 05				21 11	1.948 97	Southern Junior High
	88 72	282 58	38 02		9 10	61 95		12 70	3 36		<b>50 1</b> 6	1 84	4 35	7 50			12 05		Northern Junior High
	212 44	236 47	24 73	24 50	9 80	90 15		7 62	8 54		86 55	16 19	3 85	$16 \ 25$			12 62		Western Junior High
												2 61						166 62	····· Prescott
											25 88	5 38	50					455 54	Hanscom
									16		38 21	9 67	2 35		171 87		7 94	576 28	Bennett
											14414:	4 88	25					172 81	Baxter
									2 00		33 74	14 65	4 50		• • • • •	• • • • •	8 00	334 79	Knapp
										• • • • •	*****	2 00	40		• • • • • •			270 32	Perry
						• • • • •	• • • • •	• • • • • •		• • • • •	30 17	4 85	25	• • • • •				606 46	Pope
	2 94	• • • • •			• • • • •	• • • • •	• • • • •		• • • • •	• • • • •	20 01	2 50			• • • • •	• • • • •		133 75	Cummings
	1 23	• • • • • •	• • • • •			• • • • • •			• • • • • •		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccc} 2 & 78 \\ 4 & 32 \end{array}$	$\begin{smallmatrix} 55\\2&25\end{smallmatrix}$	6 00	• • • • •	• • • • • •	• • • • • • •	437 85	Edgerly
	3 00	• • • • •	• • • • •			• • • • • •	• • • • •		• • • • •			2 14	50	3 00	• • • • • •			463 55 236 24	Glines
		• • • • • •	• • • • • •	• • • • • •				• • • • •	• • • • •	• • • • •	26 09	2 73	75	• • • • •	• • • • •		4 00	513 29	Forster Bingham
• • • • •	• • • • • •	• • • • • •	• • • • •	• • • • • •			• • • • •		• • • • •	• • • • • •	24 41	2 11	25	3 00	• • • • •	• • • • • •	6 20	723 17	Bingham Carr
	• • • • • •	• • • • • •			• • • • •			• • • • •		• • • • •	24 36	3 48	25		• • • • • •	• • • • •	13 58	481 97	Morse
		• • • • •	• • • • •	• • • • •	• • • • •		• • • • • •				29 60	2 20			• • • • • •	• • • • • •	10 00	242 26	Proctor
	• • • • •	• • • • •										81						103 89	Durell
												1 23	65					307 32	Burns
									50		36 20	1 37	25	3 00			5 90	373 75	Brown
											35 41	18 23	65					822 87	Highland
									1 00		3 <b>1</b> 13	22 29	1 60				16 50	1,043 28	Cutler
												4 48						207 34	Lincoln
												31	25					206 41	Lowe
	7 21	22 65	81									90	25					70 72	Atypical
	1,890 52		68 10	1 08	*****	7 55			9 50	457 95	88 83			3 00			27 00	2,696 29	Boys' Vocational
			• • • • •		2 55	6 76		9 05	3 50		38 <b>7</b> 3		50	• • • • •	• • • • •			70 59	Girls' Vocational
		• • • • • •	• • • • • •	• • • • • •	• • • • •	14 35	• • • • •	19 59	3 20	• • • • • •		• • • • •	• • • • •		• • • • • •	• • • • •		164 57	Evening High
• • • • • •	*****	• • • • •	• • • • •	• • • • • •	• • • • •	12 86	• • • • •	10 83	3 00			• • • • •	• • • • •		• • • • •	• • • • • •		46 50	Evening, Bell
• • • • • •			• • • • • •	• • • • • •				10 83	2 00			• • • • •	• • • • • •	• • • • •	• • • • •	• • • • •	20	34 11	Evening, Highland
	1 75	• • • • •	• • • • •				• • • • • •		1 75	• • • • • •	• • • • • •	• • • • •	F 00	• • • • • •	• • • • • •	• • • • • •		8 50	Evening, Vocational Evening, Practical Arts
• • • • •		• • • • •				• • • • •	• • • • •	• • • • • •		• • • • • •	• • • • •	*****	5 00	• • • • • •	• • • • • •	• • • • • •	7 72	7 72	Americanization
	5 00	53 36	7 15	• • • • • •		• • • • •	• • • • •	11 50	4 21	• • • • •		• • • • •	• • • • • •	• • • • •		• • • • •	11 20	92 42	Continuation
								11 30				• • • • •				• • • • •	11 20	32 42	Dental
	80 15			• • • • • •	7 40			783 <b>7</b> 3	165 13		291 31	255 46	2 70	• • • • •		233 78	256 76	2,321 82	Administration
					60 75		1,646 69	411 93				81 17	25 88				31 10	2,417 31	Miscellaneous
\$732 00	\$3,555 56	\$994 56	<b>\$243</b> 93	\$42 08	\$210 50	\$518 64	\$1,646 69	\$1,523 24	\$229 11	\$766 45	\$1,125 31	\$604 31	\$160 54	\$41 75	\$171 87	\$233 78	\$456 15	\$31,727 84	



		DAY S	CHOOLS.	Evening Schools.			
Expenditures.	Total.	High and Vocational	Elementary	High and Vocational	Elementary		
Officers' Salaries	\$14,704.26 3,592.46 14,962.92 18,368.79 3,153.91	\$6,698.48 10,282.57 1,088.78	\$8,170.46 7,855.03 1,634.36	\$80.00 190.30 418.11	\$13.98 40,89 12.66		
Total	\$54,782.94	\$18,069.83	\$17,659.85	\$688.41	\$67.53		

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

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

		DAY S	CHOOLS.	EVENING	Schools.
. Expenditures.	Total.	High and Vocational	Elementary	High and Vocational	Elementary
Supervisors Principals Teachers	\$8,706.50 43,227.25 546,656.05	\$3,005.00 12,185.33 162,443.75	\$5,701.50 29,299.92 376,506.80	\$842.00 5,287.50	\$900.00 2,418.00
Total	\$598,589.80	\$177,634.08	\$411,508.22	\$6,129.50	\$3,318.00

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

The total outlay for the school year ending June 30, 1920, is as follows:—

Care Contingent Salaries	\$104,306 54,782 598,589	94
Total for school maintenance Paid for repairs Paid for new buildings	\$757,678 44,285 200	91
Total for all school purposes	\$802,164	75

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

	1915	1916	1917	1918	1919	1920
Janitors' salaries	\$0.074	\$0.077	\$0.076	\$0.079	\$0.097	\$0.074
Heat and light	0.054	0.059	0.066	0.081	0.057	0.063
Administration	$0.017^{-}$	0.017	0.018	0.017	0.017	0.020
School supplies	0.067	0.058	0.062	0.064	0.067	0.053
Teachers' salaries	0.788	0.789	0.778	0.759	0.762	0.790
Total	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

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

	HE P	ER CA	PITA	COST	OF DA	THE PER CAPITA COST OF DAY SCHOOLS FOR 1919 AND 1920.	STOO	FOR	1919 AF	VD 192	0.	
	Hi	High School.	01.	Junior	Junior High Schools.	chools.	Elemei	Elementary Schools.	hools.	All	All Day Schools.	ools.
	1919.	1920.	1920. Change	1919	1920	Change	1919.	1920.	1919.   1920.   Change	1919.	1920.	1920. Change
Instruction Supplies Care	\$52.59 5.21 9.67	\$73.04 8.51 12.72	\$73.04 +\$20.45 8.51 +3.30 12.72 +3.05	\$10.40 4.34 7.61	\$57.09 3.18 7.18	\$57.09 + \$16.69 3.181.16 7.18 -0.43	\$26.35 1.41 5.63	\$36.99 1.76 6.88	\$36.99 +\$10.64 1.76 +0.35 6.88 +1.25	\$32.75 2.52 6.58	\$45.90 2.90 7.66	\$45.90 +\$13.15 2.90 +0.38 7.66 +1.08
Total	\$67.47	\$94.27	+\$26.80	\$52.35	\$67.45	\$67.47     \$94.27     +\$26.80     \$52.35     \$67.45     +\$15.10     \$33.39     \$45.63     +\$12.24     \$41.85     \$56.46     +\$14.61	\$33.39	\$45.63	+\$12.24	\$41.85	\$56.46	+\$14.61

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

	1916	1917	1918	1919	1920
Cost of Instruction	\$26 25	\$26 72	\$29 58	\$31 82	<b>\$44</b> 3 <b>4</b>
Cost of Supplies	1 88	2 05	2 40	2 45	2 80
Cost of Care	4 41	4 61	6 09	<b>6</b> 43	7 45
Total	\$32 54	\$33 38	\$38 07	\$40 70	\$54 59

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

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

plies.

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

#### Teachers' Salaries.

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

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

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

## SIGHT AND HEARING.

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

Eyes.			
	1920	1919	Change
Tested	12,242	11.840	402+
Defective	1,658	1,516	142+
Per cent. defective	13.5%	12.8%	0.7% +
Notices sent to parents	1.070	1.084	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Professionally treated	225	202	
Ears.			
	1920	1919	Change
Tested	13.346	12,681	665 +
Defective	195	219	24—
Per cent. defective	1.5%	1.72%	0.22%—
Notices sent to parents	139	149	,,,
Professionally treated	36	27	

Table 1. - Schoolhouses, January, 1921.

	Enlargements	8 rooms added 1906 30 rooms added 1913	4 rooms added 1894	13 rooms added 1918	{ 4 rooms added 1882 } 4 rooms added 1892	5 rooms added 1896	{ 4 rooms added 1894   8 rooms added 1904	added	
	When Built	1895 1871 1867	1916 1889 1891	1874	1871	1891 1866 1899	1886	1898 1869 1880	
	Valuation, including Furniture	\$426,000	139,200 58,500 88,600	147,000	48,000	101,400	82,000	63,100 59,000 71,600	\$1,396,400
1 1 1 1 1 2 T	How Ventilated	Fan Fan Fan	Fan Gravity Gravity	Fan	Gravity	Gravity Gravity	Gravity	Gravity Furnace Gravity	
. componitouses, candary, 1321.	How Heated	Steam Steam Steam	Steam Steam Steam	Steam	Steam	Steam Steam	Steam	Steam Furnace Steam	
200000	lair9taM	Brick Brick Brick	Brick Brick Brick	Brick	Brick	Brick Brick	Brick	Brick Brick Brick	
	Size of Lot, includ- ing Space Occupied by Bulld- ing	*	49,310 24,517 27.236	29,860	24,000	28,800	35,586	20,450 29,000 23,260	
3	No. of Sittings	1,786	356 526 578	797	573	628 576 293	773	745 473 524	9,115
1	tVo. of Classrooms	74	122	24	12	## ## ##	16	12 12 12	256
	NAME	High   West School   East Prescott	Southworth § Knapp Pope	Beil	Edgerly	Glines. Forster { Folsom }	Bingham	Carr Morse Highland.	Carried forward

\*Buildings are located on Central Hill Park, which contains 13 1-10 acres. †Includes home rooms, laboratories, shops, assembly rooms, dental dispensary, etc.

Table 1. — (Concluded). — Schoolhouses, January, 1921.

	Enlargements				6 rooms added 1915		added	4 rooms added 1907		4 rooms added 1899				( Moohing show added 1917	Automobile shop added				
	When Built		1896	1917	1912	1902	1897	1901	1905	1886	1903	1901	1899	1911	1884	1884	1894	1885	
Januar 3, 1321.	Valuation, including Furniture	\$1,396,400	103,700	84,000	108,700	58,000	70,500	80,600	44,000	47,000	53,000	- 40,700	48,500	5,000	71,000	16,900	22,800	20,800	\$2,271,700
	How Ventilated		Gravity	Fan	Fan	Gravity	Fan	Gravity	Gravity	Gravity	Gravity	Gravity	Gravity	Furnace	Furnace	Furnace	Gravity	Gravity	\$2,271,700
concerno de concer	How Heated		Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Steam	Furnace	Furnace	Furnace	Steam	Steam	
	l sitəteM		Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Wood	Wood	Wood	Brick	Wood	
(nonnounce).	Size of Lot, includ- ing Space Occupied by Build- ing		35,034		53,729								46,080	8,850	30,155	11,300	13,883	17,662	14,768
	No. of Sittings	9,115	568	577	783	436	487	487	343	387	386	290	298		50	196	190	175	14,768
	smoorsski o .o. o N	256	14	17	18	12	10	10	o.	<u>∞</u>	00	9	9		00	4	4	4	394
	NAME	Brought forward	Hodgkins	Western	Cutler	Bennett	Hanscom	Brown	Proctor	Burns	Lowe	Baxter	Perry	†Girls' Vocational	Boys' Vocational \( \) Machine Shop 2	Cummings (Automobile Shop2	Durell	Lincoln	Total

\*State property. †Land included in City Ledge property. †Not in use.

Table 2. — Cost of Maintaining Schools.

FOR SCHOOL YEAR 1919-20.

	FROM SCHOOL A	PPROPRIATION.	SPENT BY CITY GOVERNMENT.	Total	
Schools.	Instruction and Supervision.	Supplies.	Care.		
High	\$113,510.78	\$13,231.58	\$19,763.99	\$146,506.35	
Eastern Jr.	32,004.64	1,502.72	4,236.58	37,743.94	
Southern Jr	41,942.64	2,751.11	5,114.93	49,808.68	
Northern Jr	37,889.21	2,031.09	4,231.39	44,151.69	
Western Jr	51,720.73	2,830.61	6,988.93	61,540.27	
Prescott	6,754.70	312.80	1,607.33	8,674.83	
Hanscom	17,228.99	810.57	2,593.30	20,632.86	
Bennett	18,093.40	891.09	2,720.39	21,704.88	
Baxter	10,280.86	293.42	1,960.97	12,535.25	
Knapp	11,653.53	634.42	2,837.34	15,125.29	
Perry	9,371.11	414.05	1,960.97	11,746.13	
Pope	17,758.52	936.40	2,921.95	21,616.87	
Cummings	6,073.18	209.79	1,607.32	7,890.29	
Edgerly	18,148.06	816.90	2,921.95	21,886.91	
Glines	22,082.94	796.69	3,225.60	26,105.23	
Forster	5,957.70	354.81	1,841.19	8,153.70	
Bingham	21,657.72	879.09	3,567.82	26,104.63	
Carr	20,987.30	1,125.65	3,856.09	25,969.04	
Morse	14,597.73	759.98	2,946.94	18,304.65	
Proctor	10,723.39	445.57	2,416.46	13,585.42	
Durell	6,052.75	187.68	1,607.32	7,847.75	
Burns	12,215.42	427.06	2,289.64	14,932.12	
Brown	15,291.77	670.39	2,593.30	18,555.46	
Highland	15,844.91	1,175.03	2,334.18	19,354.12	
Cutler	25,230.26	1,567.71	4,932.93	31,730.90	
Lincoln	5,962.64	346.82	1,607.32	7,916.78	
Lowe	12,367.83	506.99	2,289.64	15,164.46	
Atypical	3,969.75	112.13	695.96	4,777.84	
Boys' Vocational	13,548.29	2,400.67	2,640.07	18,589.03	
Girls' Vocational	4,477.13	106.87	1,697,75	6,281.75	
Evening	9,896.18	548.99	2,296.55	12,741.72	
Total	\$613,294.06	\$40,078.68	\$104,306.10	\$757,678.84	

١

Table 3. — Per Capita Cost of Maintaining Schools.

FOR SCHOOL YEAR 1919-20.

Schools.	Instruction and Supervision.	Supplies.	Care.	Total.
High	\$73.04	\$8.51	\$12.72	\$94.27
Eastern Jr	63.88	3.00	8.46	75.34
Southern Jr	54.12	3.55	6.60	64.27
Northern Jr	59.76	3.20	6.67	69.63
Western Jr	54.16	2.96	7.32	64.44
Prescott	30.70	1.42	7.31	39.43
Hanscom	32.38	$1.5\overline{2}$	4.87	38.77
Bennett	40.48	1.99	6.09	48.56
Baxter	48.04	1.37	9.16	58.57
Knapp	36.65	2.00	8.92	47.57
Perry	39.54	1.75	8.27	49.56
Pope	34.68	1.83	5.71	42.22
Cummings	38.19	1.32	10.11	49.62
Edgerly	35.58	1.60	5.72	42.90
Glines	35.22	1.27	5.14	41.63
Forster	34.24	2.04	10.58	46.86
Bingham	38.13	1.55	6.28	45.96
Carr	33.37	1.79	6.13	41.29
Morse	35.78	1.86	7.22	44.86
Proctor	35.27	1.47	7.95	44.69
Durell	44.18	1.37	11.73	57.28
Burns	37.36	1.31	7.00	45.67
Brown	39.21	1.72	6.65	47.58
Highland	40.01	2.97	5.89	48.87
Cutler	35.14	2.18	6.87	44.19
Lincoln	42.29	2.46	11.40	56.15
Lowe	38.32	1.57	.7.09	46.98
Atypical	92.32	2.61	16.19	111.12
Evening	14.70	.82	3.41	18.93
Elementary	36.99	1.76	6.88	45.63
All schools (without vo-	00.99	1.70	0.00	40.05
cational)	44.34	2.80	7.45	54.59
	77.07	2.00	7.40	94.09
Boys' Vocational	205.28	36.37	40.00	281.65
Girls' Vocational	263.35	6.28	99.86	369.49

### Table 4.—Annual Cost of Maintaining the Schools.

FOR A SERIES OF YEARS.

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

YEAR.	Member-			OIII GOV	SUM SPENT UNDER DIRECTION OF CITY GOVERNMENT.						
	ship.	Instruction and Super- vision.	School Supplies.	Light.	Heating.	Janitors.	School Tele- phones.	Total.			
$\overline{1912}$	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		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			

<sup>† \$92.50</sup> included for rental of church for schoolhouse purposes in Ward 7.
\* Includes \$882.50, rent of Armory.
\* 750.00,

Table 5.—Annual Cost Per Capita of Maintaining Schools. FOR A SERIES OF YEARS.

[Based on the average membership.]

YEAR.	Instruction and Supervision.	School Supply Expenses.	Janitors, Heat and Light.	Total.	Assessors' Valuation of City.	Ratio of Cost of School Main- tenance to Valuation.
1912	\$23 61	\$2 12 · 1 91 1 89 2 03 1 88 2 05 2 40 2 45 2 80	\$3 99	\$29 72	\$69,632,540	\$ .00556
1913	24 54		4 18	30 63	71,848,811	.00559
1914	24 55		4 27	30 71	74,887,800	.00568
1915	24 90		3 92	30 85	77,153,500	.00575
1916	26 25		4 41	32 54	79,304,329	.00569
1917	26 72		4 61	33 38	78,921,472	.00595
1918	29 58		6 09	38 07	84,639,280	.00625
1919	31 82		6 43	40 70	87,353,424	.00643
1920	44 34		7 45	54 59	83,910,855	.00903

Table 6. — Amount Spent Annually for all School Purposes.

FOR A SERIES OF YEARS.

YEAR.	For New Schoolhouses.	For Repairs and Permanent Improvements.	For Maintaining Schools.	Amount Spent for all School Purposes
1912	\$35,527	\$14,163	\$389,431	\$439,121
1913	34,866	19,341	402,092	456,299
1914	120,913	19,700	425,165	565,778
1915	9,745	28,212	443,978	481,935
1916	81,184	21,634	451,143	553,961
1917	94,420	27,283	471,993	593,696
1918	100,177	30,126	529,062	659,365
1919	104,067	20,492	559,328	683,887
1920	200	44,286	757,679	802,165

For years prior to 1912 see School Report of 1917.

Total

TABLE 7.—POPULATION AND SCHOOL CENSUS	s.
---------------------------------------	----

For School Year 1919 - 1920.

			4 040	4000			04.040				<b>~</b> 0.000
1842			1,013	1900	•		61,643	1911		•	78,000
1850			3,540	1901			63,000	1912	•	•	80,000
1860			8,025	1,902		•	65,273	1913	•	•	81,000
1865			9,366	1903		•	67,500	1914		•	85,000
1870			14,693	1905	•		69,272	1915	•	•	86,854
1875	•	• .	21,594	1906	•		70,875	1916	•		88,000
1880	•		24,985	1907	•		72,000	1917	•	•	90,000
1885		•	29,992	1908	•	•	75,500	1918	•	•	91,000
1890			40,117	1909		•	75,500	1919	•	•	91,500
1895			52,200	1910	•	•	77,236	1920	•	•	93,033

### School Census.

Number of children	between	5 and	115	years	of	age,	inclusive,	,	
April 1, 1920.								. 15,70	4

### School Registration.

Number of children April 1, 1920:—		en 5	and 1	5 year	rs of a	age, ir	clusi	ve,	
In public schools			•		•				11,738
In private school	ls .	•	•	•	•	•			2,849
Total									14,587
Number of compuls	sory so	chool	age, '	7 to 1	3, inc	clusive	e:		
In public schools	, male	s.	•				4,4	408	
	fema	les		•		•	4,4	177	

In private schools, males.	•	•	•	981	
females				1,124	
					2,105

8,885

10,990

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

1919 - 1920

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

<sup>\*</sup>Includes all rooms used for school exercises.

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

ş.

Number of teachers, including head master.		65
Number of days school kept		178
Number enrolled		1714
Average number belonging		1553.8
Average daily attendance		1436.8
Tardinesses		5135
Dismissals		527
In Class 1922, September		1019
June		899
Per cent. of loss		11.8
In Class 1921, September		399
June		338
Per cent. of loss		15.3
In Class 1920, September		245
June		241
Per cent. of loss	•	1.6
	•	
Special Students, September	•	10
June	• •	7
Per cent. of loss	•	30
Total, September	•	1673
June	• •	1485
Per cent. of loss	•	11.2
Number of graduates, male	• •	87
Number of graduates, female	•	154
Total	•	241
Average age, male graduates	• •	18 yrs. 4 mos.
Average age, female graduates		18 yrs. 2 mos.
Number entering college		48
Number of graduates entering scientific schools		19
Number of graduates entering normal schools		7
Cost of instruction		<b>\$110,006</b> 89
Cost of supplies		12,638 22
Total cost		\$122,645 11
Per capita cost of instruction		\$70 79
Per capita cost of supplies		8 13
Total cost per capita		\$78 92
Transfer owners to the transfer of the transfe		,

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

		. T1	EACHEI	RS.		PUPILS.	•	
		Men.	Wor	men.				Never in
SCHOOL.	GRADE.		Regular.	Assistants.	Boys.	Girls.	Total.	First Grade Before.
High	Special Twelfth Eleventh Tenth				3 87 143 368	4 154 195 531	7 241 338 899	
	Total	20	48		601	884	1,485	
Junior High	Ninth Eighth Seventh				347 422 490	385 503 568	732 925 1,058	
	Total	16	97		1,259	1,456	2,715	
Elementary	Sixth Fifth Fourth Third Second First		34 33 33 33 33 33 35	1	581 638 666 - 689 687 729	690 625 640 644 642 733	1,271 1,263 1,306 1,333 1,329 1,462	1,339
	Total Elementary	7	201	1	3,990	3,974	7,964	
	Kindergarten		4	4	78	115	193	,
	Special Cadets	2	8 3		20	18	38	
	Atypical		3	••••••	31 58	13	44 58	
	Girls' Vocational		2			13	13	
	Grand Total	.52	366	5	6,037	6,473	12,510	

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

	High School.	Junior High Schools.	Grammar and Primary Schools.	Kinder- gartens.	Vocational School for Boys.	Vocational School for Girls.	Atypical Schools.	Total.
Annual enrollment	1,714	3117	8,873	227	91	21	48	14,091
Average membership	1,554	2865	8,089	202	66	17	43	12,836
Average attendance	1,437	2648	7,426	180	62	16	38	11,807
Per cent. of attendance	92.5	92.4	91.8	89.1	94.0	94.1	88.4	91.9
Number cases of tardiness	5,135	1595	4,886		12			11,628
Number cases of dismissal	527	918	2,116		21	12		3,594
Membership, October, 1919	1,639	2965	8,224	203	75	19	44	13,169
Membership, June, 1920	1,485	2715	8,002	193	58	13	44	12,510
No. cases corp. punishment		5	90					95

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

School.	1916	1917	1918	1919
		b 3		
·				
D				
Prescott	40	49	46	32
Hanscom	85	100	114	153
Bennett	72	84	67	104
Baxter	35	32	31	34
Knapp	19	42	30	53
Perry	27	43	42	38
Pope	46	51	55	50
Cummings	40	71	35	47
Edgerly	33	45	43	43
Glines	57	91	86	92
Forster	25	31	21	25
Bingham	$\overline{52}$	102	65	86
Carr	51	92	79	75
Morse	$6\overline{5}$	67	82	69
Proctor	38	46	48	43
Durell	$\frac{30}{21}$	45	$\frac{10}{28}$	34
Burns	59	107	65	83
Brown	70	77	63	76
Hodgkins	41	50	03	10
Cutler	73	96	136	86
Lincoln.	55	$\begin{vmatrix} 96 \\ 45 \end{vmatrix}$	60	$\frac{30}{42}$
Lowe		90		
	42	90	82	74
Total	1,046	1,456	1,278	1,339

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

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

School	Number in Class in June	No. Promoted to Grade 9	No. Entering Grade 9 in Sept., 1920
Eastern Junior High School	351	134 228 204 331	125 215 204 336
Total	936	897	880

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

1920.

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

School	Number in Class in June	Number Given Diplomas	Number Certified to High School Grade 10	No. Entering High School in Sept., 1920
Eastern Junior High Southern " Northern " Western "	113 209 169 251	101 200 164 240	101 200 160 239	93 157 148 226
Total	742	705	700	624

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

	1919	1920	Change
Number of visits to the schools .	571	651	+80
Number of visits to the homes .	1,463	1,345	-118
Number of cases investigated	1,550	1,473	<del>77</del>
Number of cases found to be truan-		,	
cy or absenteeism	425	482	+57
Number of different pupils who were	)		·
truants or habitual absentees .	329	* 379	+50
Number who were truants for the			
first time	260	302	+42
Number who were truants for the			
second time	48	55	+7
Number who were truants for three			
or more times	17	20	+3
Number of girls who were truants or			
absentees	78	63	15
Number of cases of parental neglect			
of children found and reported to			
charitable institutions	4	3	1
Number of cases of removal of chil-			
dren from the custody of parents			
by order of the court	2	2	0
Number of visits to mercantile or			
manufacturing establishments .	56	36	20
Number of minors found to be work-			
ing without employment certifi-	70	0.77	0.0
cates	70	37	33
Number of employment certificates	544	736	+192
issued to boys	944	190	+192
reissued to boys	364	673	+309
•	304	010	4902
Number of employment certificates	502	553	1 24
issued to girls	302	993	+51
Number of employment certificates	487	507	+20
reissued to girls	401	907	+20
tificates issued to minors over 16			
years of age (first issue)	1,262	1,297	+35
Number of newspaper licenses issued	1,202	1,251	700
to boys 12 to 16 years of age.	108	74	<b>-</b> 34
Number of transfer cards investi-	200	• •	• •
gated	1,333	1,200	<b>—1</b> 33
Number of truants in the County			
Training school at the close of			
the year	22	· 18	-4
Amount paid for board of truants .	\$850.13	\$1,071.42	+\$221.29

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

### For the School Year 1919 - 1920.

Disposition of truancy and habitual absentee	case	es:—	
Warned and returned to school	•		290
Transferred to other schools		•	7
Obtained certificates (14 to 16 years)		•	28
Left school (over 16 years)			5
7 7 1			25
Brought before court and returned to school			9
Brought before court and sent to Training School			8
Parents brought before court for keeping children		of	•
school (convicted)	•		3
Sent to Lyman School		•	3
Given in charge of State Board of Charity .			4
			382

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

GRADES.	BY AGES.											Total.
(IIIADIA)	6	7	8	9	10	11	12	13	14	15	16 or Over	10001.
I	2	15	3	1								21
II		6	11	4	1							22
<u>III</u>			9	7	7	1				1		25
I <u>V</u>			3	3	14	9	5		3			37
<u>V</u>					2	17	11	4	7			41
VI						3	14	20	8			45
<u>VII</u>						3	8	25	18	2	1	57
VIII								15	15	5	2	37
$\tilde{1X}$								$\frac{2}{1}$	11	8	4	25
X								1	3	4	29	37
XI										2	12	14
XII											8	8
Boys' Voc'l									2	1		3
Girls' Voc'l									1			1
Ungraded	•••••			1		1	1	2	1			6
Total	2	21	26	16	24	34	39	69	69	23	56	379

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

-		Bell.	Highland.	Total.
Enrolled	Male Female	171 85	72 24	243 109
	Total	256	96	352
Ave. membership	Male Female	69 41	44 12	113 53
	Total	110	56	166
Ave. attendance	Male Female	51 30	· 34 8	85 38
	Total	81	42	123
Per cent. Att. out of No. belonging		73.6	75.0 43.7	74.1 35.0
Ave. No. of teachers	Male	1	13.7	2
Ave. No. of teachers	Female		2	9
	Total	8	3	11
No. of sessions		76	76	
Teachers, cost of		\$2,100.00	\$942.00	\$3,042.00
and light, cost of		755.80	415.74	1,171.54
	Total	\$2,855.80	\$1,357.74	\$4,213.54
Cost per pupil per evening Cost per evening Cost per pupil in ave.		\$0.341 37.58	\$0.318 17.86	\$0.334 55.44
membershipCost per pupil in ave. at-		25.96	24.25	25.38
tendance		35.26	32.33	34.26

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

				•	Male	Female	Total
Enrolled	• 4				319	278	, 597
Average membership					160	158	318
Average attendance					<b>11</b> 3	114	227
Number of teacher	s .				18		
Number of sessions	s .				57		
Cost of Instruc	tion				\$4,2	68 00	
Cost of janitor	, fuel,	light	, and				
supplies		•			1,3	68 98	
Total cost Cost per pupil 1		ening	•			36 98 \$0 311	

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

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

	1919	1920
Knapp.	62	107
Perry.	34	32
Pope.	139	127
Edgerly.	136	171
Glines.	88	83
Forster.	35	31
Bingham.	66	66
Carr.	106	96
Morse.	46	61
Proctor.	44	59
Brown.	43	70
Highland.	143	178
Cutler.	126	120
Total.	1068	1201
Average Membership of Elementary Schools.	8345	8334
Per cent. of Average Membership Promoted	12.79	14.41

### Table 17. — Attendance Statistics.

FOR A SERIES OF YEARS.

June	ENROLLMENT	Average Membership	Average Attendance	Per cent. of Attendance	Number of Tardi- nesses	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

### 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

For years prior to 1912 see School Report of 1917.

Table 19. — Promotions for School Year Ending June 25, 1920.

Junior High Schools.

GRADE.	On June Promotion List	Unconditionally Promoted to Next Grade	Promoted on Trial	Retarded	Promoted more than One Grade	Special Promo- tions during Year
III	1082 936 743	910 806 660	117 91 44	54 39 39	1	1
Total	2761	2376	252	132	1	1

# Percentage of Promotions for School Year Ending June 25, 1920. 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
III II I	100 100 100	84.1 86.1 88.8	10.8 9.7 5.9	5.4 4.2 5.3	0.1	0.1
Average	100	86.1	9.1	4.7	0.1	0.1

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

Grammar Grades.

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Promoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promo- tions during Year.	Promotees Dropped Back after Three Months' Trial.
I II III IV V VI	1,492 1,346 1,358 1,322 1,293 1,292	1,149 1,135 1,144 1,087 1,030 1,102	92 94 128 146 160 99	242 108 74 79 97 88	9 9 12 10 6 3	6 8 2 8 12	1 3 2 9 5
Total	8,103	6,647	719	688	49	36	20

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

GRADE.	On June Promotion List.	Unconditionally Promoted to next Grade.	Fromoted on Trial.	Retarded.	Promoted more than One Grade.	Special Promo- tions during Year.	Promotees Dropped Back after Three Months' Trial.
I II III IV V VI	100 100 100 100 100 100	77.0 84.3 84.3 82.2 79.6 85.3	6.2 7.0 9.4 11.0 12.4 7.7	16.2 8.0 5.4 6.0 7.5 6.8	0.6 0.7 0.9 0.8 0.5 0.2	0.4 0.6 0.2 0.6 0.9	0.1 0.2 .02 .07 .04
Average	100	82.0	8.9	8.5	0.6	0.4	0.2

# TABLE 20. — RESIGNATIONS OF TEACHERS, 1920

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

# TABLE 21. — TEACHERS ELECTED IN 1920.

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

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

Katherine A. Breen, Western Junior High, from Sept. 1, 1920, to June

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

### Cadets

Ruth E. Arrington Ethel F. Rudd

Eunice S. Higgins Enna Bella Weisman

### Table 23 — Transfers of Teachers.

Teacher	From	To
Annette B. MacKnight Minnie P. Cunningham Alice A. Tassinari Catherine E. Giles Mary L. Gallagher Vernie T. Neily Nona E. Blackwell Maude M. Cunningham	Southern Junior High Knapp Bennett Northern Junior High Knapp Girls' Vocational Knapp Bingham	High Bennett Knapp Western Junior High Glines Western Junior High Southern Southern

Table 24. — Number of Teachers.

FOR A SERIES OF YEARS.

YEAR.	High School.	Junior High Schools.	Elementary Schools.	Special Teach- ers.	Assistants not in Charge of Room.	Men.	  Women 	Total.
1912 1913 1914 1915 1916 1917 1918 1919	66‡ 68‡ 75‡ 76‡ 77‡ 70‡ 70‡	65 108 106	252* 257* 266* 272* 290* 238* 207* 207*	22 28 30 31 30 33 28 26	9 12 20 15 15 17 5 9	40 39 44 45 46 49 49	309 326 347 349 366 374 369 370	349 365 391 394 412 423 418

### Table 25. — Books Authorized for Use, 1920

For Elementary and Junior High Schools, -

As Text Books.

The Merrill Series of Readers, C. E. Merrill Pub. Co.

As Reference Books.

Broad Stripes and Bright Stars, Carolyn Sherwin Bailey - Milton Bradley Company

<sup>‡</sup>Including a secretary and a matron. \*Including four kindergartners.

### Table 26. - HIGH SCHOOL GRADUATION.

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

### ORDER OF EXERCISES.

HERBERT CHOLERTON, Chairman of the School Committee, Presiding

OVERTURE - "Little Red Cap" High School Orchestra, Malcolm P. Bergmann, Leader PRAYER - Rev. George E. Soper, D. D. 2. Pastor of the Prospect Hill Congregational Church SINGING — "Look Down from Heaven" (Elijah)......Mendelssohm 3. Graduating Class ESSAY - "Life, Liberty, and the Pursuit of Happiness" 4. W. Dorothea Crowne WALTZ — "Barcarolle" ...... Waldteufel 5. Orchestra ESSAY — "Education or Chaos" 6. William F. Kelly SINGING — "Carmena" ..... Lane-Wilson Graduating Class 8. PRESENTATION OF MEMORIAL TABLET ADDRESS TO GRADUATES 9. Dean Henry W. Holmes, Harvard University PRESENTATION OF DIPLOMAS TO GIRLS 10. SINGING — "Recognition of Land" ...... Grieg 11. Graduating Class PRESENTATION OF DIPLOMAS TO BOYS **1**2. 13. SINGING — "The Star Spangled Banner" 14. POSTLUDE — "Coronation March"......Meyerbeer

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

Orchestra

### LIST OF GRADUATES

June, 1920

\*Graduated with honor

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

Esther Mary Filadoro

Doris Elizabeth Flint Harriette Roberts Ford Marion Emma Foster \*Marion Garside Anne Mae Getchell Edna Mabel Gilmore Sadie Helen Grady Ida Sophie Graustein Gratia Manola Grisim Grace Langton Haley \*Alice Winifred Hamilton Lola Genieve Hamilton Alice Louise Hancock Vesta Ruth Hanson Mildred Marie Harkins Helen Louise Harney Emma Elizabeth Haskell Doris Henderson Allene Lucille Holman Pearl Katherine Honold Ruth Evelyn Hopson Lillian Elizabeth Hubbard Helen Wilder Hudson Elva Gladys Hutchins Ruth Gwendolyn Johnson Florence Kavooghian Frances Gertrude Kenney Ethel Mae Kimball Mildred Loretta Kodad Elena Leighton Lena Leveen \*Dagmar Elizabeth Lindequis**t** Rose Lipsez \*Edna May Ludwig Evelyn Macgillvray Florence MacLachlan Marjorie Grace MacPhee Anastasia Mary Mannion Anita Angela M. Marchese Irene Elizabeth Mason Emily Hazel Mathews Mary Mortimer McAuley Eleanor Marie McElroy Alice Marie McFarland Margaret Whitney McGill Kathryn Marie McGrath Emilie Mary McHale Dorothy Helen McQuinn Dorothy Tufts Miller

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

Francis Edward Aherne

Fred Lawrence Bacigalupo

Charles Andelman

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

John Paul Joseph Reardon

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

John Francis Thompson, Jr.
Howard Simpson Tochtermann.
Edward Augusta Tosi
Miles Toulouse
Frank Herbert Townsend
Thomas Henry Twigg, Jr.
Walter Norman Westland
Francis Bingham White, Jr.
George Washington Whittier, Jr.
Lawrence Irving Williams
Henry Webster Youlden
George Franklin Young, Jr.

### † Deceased

Total Number of Graduates, 241. Boys, 87; Girls, 154.

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

### LIST OF GRADUATES

### Eastern

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

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

Fliiott M. McDermod Daniel J. McGrath Margaret F. McGrath Mary McMahon Mary Catherine Meaney Marion G. Merritt Marien Mottola Albert H. Newhouse George M. Newman Francis S. Noyes Alice Veronica O'Neil Clarence Edward Overlock Leona Beatrice Perkins Merue Caroline Perkins Harold Porter Charles R. Prescott Solomon Price Marion Rita Quinn
Paul F. Regan
Herbert Ringer
Helen Virginia Roebuck
Frank B. Rogers

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

### Northern

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

Florence Gertrude Denney Richard Jeseph Desmond Joseph Henry Doll Fred Francis Driscoll Milton Frederick Dyke Henry George Eimert Esther Lorena Fisher George Flibotte George Titus Fogerty Ruth Louisa Foskett Charles Edward Fowler Clarence W. Fraser Margaret Frances Friel Reginald J. Fritz Derothy Gallagher Mary Cecelia Gallagher Charles Paul Galli Anna May Giacobbe Dante Reginald Giorgetti Anna Goduti Verna Eulalie Goff Miriam Eunice Gordon James Joseph Gormley Isobel Sarah Guibord Bertram P. Gustin Veronica Gutosky Edward Lovell Hall Lauri W. Hanni Cecil Gilbert Harries Albert G. Harkins Francis J. Harkins Ruth Frances Haskins

Helena C. Havican John Barr Hayward Mary P. Heiser Pauline Dudley Hobbs Mildred Horton Henry John Hurford Abraham I. Jacobson Leo J. Jennings Edward John Jeremiah Christine Helen Johnson Warren E. N. Johnson Gladys Estella Jones William Duncan Jordan Rena Josie Charles E. Keenan John Jerome Kelliher Frances M. Kelter John Francis Kinneen Leroy Charles Klinger Frances Elizabeth Knibbs Edward Kennamon Kyte Mary Agnes Linehan Eleanor MacGovern Donald MacNeil John Francis Maguire Arthur Attwood Mahoney Margaret Mary Mahoney Mary H. Mahoney William F. Mahoney Marguerite J. Mansfield Katherine Louise Marmand Gerald Mculton Marston Helen Margaret Martiguette E. Rees Martine Edward Matthew Francis Henry McCall Mary Elizabeth McCarthy Evelyn Mary McClusky Frances M. McColgan Mary Louise McGill Wallace Joseph McGrath Margaret Mary McGuigan Bessie Margaret McManus Margaret Mary McSweeney Mildred Gertrude Merriam Margaret Elizabeth Miller Carol Hester Millett Charles Leo Mooney Richard F. Mooney Katherine Agnes Mornane

Helen Anna Morse Thelma Alice Moss Hugh P. Muliigan Laura Phyllis Mumford John Joseph Murphy, Jr. Joseph G. Marphy Ruth Elizabeth Nangle Cathleen Helen O'Brien Julia O'Connor Estella Elizabeth O'Neil
Arthur E. Peterson
Katrina Louisa Porter
James Stephen Rancatore
Marian Eva Rancatore Celia Delora Richardson John A. Roma Ellen Frances Ronan John B. Russell Mildred Russo A. Lucille Savage Lawrence J. Savage Gladys Theodora Schulz Philomena Seretto Horace Woodruff Sexton, Jr.. Marion Alberta Shea Irene Antoinette Simard A. Raymond Spaulding
Florence A. Stack
Gertrude Mable Stack
Elizabeth Gertrude Stewart. Saul Tomashevsky Norma Gene Trefry Yvonne Diana Tremblav Hester Day Waldron Martha Marion Wegat Albert James Welch Alma B. Wells Lawrence Francis Welsh Reginald Hall Wentworth Richard George Whiting Helen Whitney Muriel Lewetta Williams Theresa Frances Williams-Walter E. Williams Charles Edward Wilson Ezella Catherine Wilson Paul T. Wilson Helen M. Wright Earle W. Young

### Southern

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

Helen Elizabeth Douglass Beatrice E. Everett Charles V. Falls Helen Elizabeth Fenton Leo Ferrarini Albert F. Ferretti Albert Leo Fitzgerald Robert B. Fitzgerald Josephine C. Flanagan
William F. Flynn
John T. Ford
Armida Eleanor Formichelli Mary Beatrice Fortunati Kathryn Frances Gallagher Elvira Asunta Garibotto Joseph C. Gaudet Martha W. Gissler Robert Glover, Jr. Evelyn Loretta Goldburgh Harry Goldenberg Theresa Gomes Eugene Alphonsus Gormley William A. Graustein C. Prescott Greenleaf Anna Mildred Guilderson Robert S. Harrington Francis J. Haley Catherine Blanche Hancock Emma Fedora Hancock Charles Dudley Harrington Fayette Haskell Daniel Parker Hatch Theodore Haviland Katherine McLeod Henderson Israel Hershkovitz Eugene S. Holton Cleon Edson Hopkins Francis Elmer Kavanaugh John Joseph Keenan Ellen Christina Kelleher Isabella Madeline Keppe Kathryn Anne King Edward Augustine Kirke Mabel Marie La Rose Francis Lavash Dorothy Winifred Lawson Rose Louise Lazzaro Ellen Agnes Leahy Thomas Vincent Leahy Carl A. Leavis Margaret Mary Lee Mabel Irene Lewis Fay Bertha Lipkind Francelina Florence Lima Miriam Lipsez Rita Moore Logan

Helen B. Lucas A. Warren Lynch Edward Barry Lynch Ruth A. Lynch John A. MacIntyre John D. MacKeown Aubrey B. MacMahan Mary T. Mahony Mildred Frances Manning Hilda Mary Martell James J. Martin Bertha Mason Thomas F. McAllister Mabel Violet McAuliffe Elizabeth Claire McCarthy M. Agnes McGrath William D. McIntire Robert J. McKay\_ Earl Putnam McKim William Joseph McMahon Frank Meletti Mary Emma Mercer James M. Mifflin Raymond E. Mills Alice Moore Glennis E. Mowatt Loretta Catherine Murphy Raymond J. Murphy Frances Etta Murray Hyman Needle Mary Christine Nolan Dorothy Obear Grace Marion O'Brien Harold J. O'Brien Mary Eleanor O'Brien Margaret E. O'Connor Grace Gertrude Olin John Lawrence O'Leary Bertha May Parshley Dorothy F. Peck Doris Penny Eleanor Isabel Perry William C. Peterson Margaret Mae Pollock Ellen Marie Prebensen John W. Pretty

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

### Western

Alice G. Ahearne
Eleanor M. Albertini
Gertrude R. Albertini
T. Edward Aldham
Emma M. Alls
Florence C. Anderson
Ruth M. Atkinson
Ruth Mary Austin

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

Edmund John Berry J. Nelson Berry Marjorie Frances Birtwell Maude E. Black Henry Allen Blackman Harold F. Bloom Bertha K. Bockman James W. Boggs Grace Dorothy Boss M. Genevieve Bowser Edna Mae Briggs Clifford R. Brooks Charles Edward Brown Hugh L. Brown Welton M. Burgess Catherine M. Burke Ives A. Busnel Albert Henry Buswell Robert Norman Butterfield, Jr. Murdena A. Campbell Benjamin D. Carey, Jr. Charles Clinton Carey Edith Elizabeth Carlson Robert E Carmichael Blanche C. Carpentier Lenora M. Chandler Norman A. Chapman Marion V. Chebook Doris Cheyne Charles Arthur Clapp Leslie J. Clark John Clarke Catherine Edith Coaker Anna L. Colbert Sarah Elisabeth Colby Clifford Douglass Cole Inez Alice Comstock Frank P. Connor Cullum Coulson Doris N. Cross Harold L. Cruikshank Paul Cruwys Warren L. Dalton, Jr. Winifred A. Damon Geraldine Goodwin Davis Norman H. Dawes Leslie C. Densmore Everett Bond Dewar Loretta M. Dionne Kathleen E Donohue Alice C. Donovan D. Bailey Donovan Leon P. Donovan Nora T. Donovan Norma Elizabeth Duerner William B. Dunne Clarence A. Durling Eunice Edwards Arthur F. Eldridge

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

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

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

# Table 27. — VOCATIONAL SCHOOL GRADUATES. Vocational School for Boys

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

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

### Vocational School for Girls

Alice Ayer Hazel E. Clark Ethel Mae Longmire Ruth M. Murray Gladys Bertha Seales Hazel B. Steele Barbara Truelson Alice Wahlstrom

### Table 28. — Organization of School Board, 1921. School Committee.

HERBERT CHOLERTON .			•		Chairman			
WALTER I. CHAPMAN		•			. Vice-Chairman			
	Mem	hore						
Membe <b>rs.</b>								
		FICIIS.						
CHARLES W. ELDRIDGE, Ma RICHARD L. RICE, President	Board o			en,	47 Highland road. 296½ Broadway			
	WARD	ONE.			·			
FRANCIS J. FITZPATRICK, WILLIAM T. McCARTHY,		•		•	. 76 Broadway . 38 Pearl street.			
	WARD	TWO.						
DANIEL H. BRADLEY, CHRISTOPHER J. MULDOON,					19 Concord avenue. 88 Concord avenue.			
		THREE		Ť				
CHARLES W. BOYER, OSCAR W. CODDING,		FOUR.			. 66 Avon street 59 Vinal avenue.			
FRANK M. HAWES, EDWARD I. TRIPP,				· 21	257 School street. Wigglesworth street.			
	WARD	FIVE.						
HARRY M. STOODLEY, MISS MINNIE S. TURNER,			•	•	283 Highland avenue. 64 Hudson street.			
	WARI	SIX.						
WALTER I. CHAPMAN, WILLIAM M. MORRISON,				•	18-A Central street. 97 Rogers avenue.			
	WARD	SEVEN						
HERBERT CHOLERTON, PAUL O. CURTIS,			•		<ul><li>94 College avenue.</li><li>41 Mason street.</li></ul>			

### 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.

### Board Meetings.

April 25. January 31. September 26. December 23. February 28. May 30. October 31. December 30. March 28. June 27. November 28 8:15 o'clock.

# Table 28. → Organization of School Board, 1921. — Concluded. Standing Committee's.

NOTE.—The member first named is chairman.

District I. — Fitzpatrick, McCarthy, Muldoon.

PRESCOTT, HANSCOM, BENNETT.

District II. — Bradley, Muldoon, Codding.

KNAPP, PERRY, BAXTER.

District III. — Boyer, Codding, Fitzpatrick.

POPE, CUMMINGS.

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

District V. — Miss Turner, Stoodley, Hawes. Forster, BINGHAM.

District VI. — Chapman, Morrison, Stoodley.

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

District VII. — Curtis, Cholerton, Morrison.

HIGHLAND, CUTLER, LINCOLN, LOWE.

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

Finance. — Stoodley, Codding, Bradley, McCarthy, Tripp, Chapman, Cholerton, Eldridge, Rice.

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

Industrial Education. — Tripp, Boyer, Fitzpatrick, Muldoon, Miss Turner, Morrison, Cholerton.

School Accommodations. — Codding, Curtis, Fitzpatrick, Bradley, Tripp, Stoodley, Morrison, Eldridge, Rice.

Teachers. — Cholerton, Miss Turner, Muldoon, Codding, Chapman.

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

Rules and Regulations. — Hawes, Curtis, McCarthy.

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

### Name and Residence

### HIGH SCHOOL.

Central Hill.	Salary.	Began Serv- ice,
John A. Avery, Head Master, 22 Dartmouth Street	\$4,100	1895
Everett W. Tuttle, Vice-Head Master, 62 Highland Avenue	2,900	1895
Frank H. Wilkins, Master, 6 Highland Avenue	$\frac{2,700}{2}$	1906
John L. Hayward, Master, 242 School Street	2,500	1913
Harry F. Sears, Master, 44 Orris Street, Melrose Highlands	2,700	1901
William W. Obear, Master, 86 Belmont Street	2,700	1906
George M. Hosmer, Sub-Master, 13 Arlington Street	2,400	1901
Laurence A. Sprague, Sub-Master, 17 Perkins St., W. Newton	2,300	1906
John M. Jaynes, Sub-Master, 89 Oxford Street	2,300	1901 1916
Arthur N. Small, Sub-Master, 81 Avon Street	$2,300 \\ 2,200$	1915
Fred W. Carrier, Sub-Master, 84 Walnut Street, Winchester Wallace S. Hall, 37 Perkins Street, West Newton	2,200 $2,100$	1919
Irving P. Colman, Sub-Master, Greenbush	1,900	1915
Stephen H. Mahoney, Sub-Master, 10 Oxford Street	2,300	1914
Albert O. Plantinga, 83 Park Street, Melrose	2,100	1918
George E. Pearson, Sub-Master, 325 Highland Avenue	2,200	1914
George S. McLaughlin, Teacher-coach, 85 Orchard Street	2,100	1919
Forrest S. Miller, Sub-Master, 8 Hudson Street	1,900	1920
L. Thomas DeCelles. 46 Ware Street	1,800	1919
A. Marion Merrill, Sub-Master, 2 Madison Street	2,000	1895
L. Thomas DeCelles. 46 Ware Street A. Marion Merrill, Sub-Master, 2 Madison Street *Helen L. Follansbee, Sub-Master, 40 Vinal Avenue Frances W. Kaan, Assistant, 133 Central Street Mrs. Lena Gilbert, Assistant, 56 Meacham Road Harriet E. Tuell, Assistant, 40 Vinal Avenue Elizabeth Campbell Assistant 39 Greenville Street	2,000	1900
Frances W. Kaan, Assistant, 133 Central Street	1,750	1882
Mrs. Lena Gilbert, Assistant, 56 Meacham Road Harriet E. Tuell, Assistant, 40 Vinal Avenue	1,700	$1892 \\ 1899$
Harriet E. Tuell, Assistant, 40 Vinal Avenue Elizabeth Campbell, Assistant, 39 Greenville Street A. Laura Batt. Assistant. 2 Madison Street	1,900 1,900	$\frac{1899}{1902}$
A. Laura Batt, Assistant, 2 Madison Street	1,900	1895
M. Helen Teele, Assistant, 11 Jason Street, Arlington	1,900	1895
Clara A. Johnson, Assistant, 177 Central Street	1,750	1897
Blanche S. Bradford, Assistant, 163 Summer Street	1,700	1903
Grace E. W. Sprague, Assistant, 888 Mass. Avenue, Cambridge	1,700	1908
Mrs. Lucy I. Topliff, Assistant, 69 Cypress Street, Brookline	1,750	1914
Eudora Morey, Assistant, 121 St. Stephen Street, Boston	1,800	1874
Ella D. Gray, Assistant, 147 Walnut Street	1,600	1901
Grace Gatchell, Assistant, 48 Vinal Avenue	1,650	1906
A. Marguerite Browne, Assistant, 27 Everett Street, Cambridge	1,750	1908
Edith L. Hurd, Assistant, 125 Central Street	1,650	1910
Esther Parmenter, Assistant, 16 Mystic Lake Drive, Arlington Annie C. Woodward, Assistant, 2 Madison Street		1911
Alice A. Todd, Assistant, 82 Munroe Street	1,750 1,600	$1906 \\ 1913$
Ella W. Bowker, Assistant, 2 Hillside Avenue	1,650	1913
Florence L. McAllister, Assistant, 23 Wallace Street	1,600	1913
Laura R. Cunningham, Assistant, 62 Highland Avenue	1,600	1914
Ruth A. Davis, Assistant, 44 Benton Road	1,600	1914
	.,	

<sup>\*</sup> Leave of absence.

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

		Began Serv-
Name and Residence.	Salary.	ice.
Julia A. Haley, Assistant, 88 Prospect Street	\$1,500	1913 1916
Mary C. Smith, Assistant, 117 Prospect Street Gladys L. Swallow, Assistant, 15 Pleasant Avenue	$1,600 \\ 1,500$	1916
Alfreda Veazie, Assistant, 193 Linden Street, Everett	1,550	1916
Mrs. Phebe E. Mathews, Assistant, 159 Morrison Avenue B. Phoebe Abbott, Assistant, 67 Perrin Street, Roxbury	$\frac{1,600}{1,400}$	1916 1916
Ruth E. Low, Assistant, 58 Central Street	1,600	1913
Ilene C. Ritchie, Assistant, 15 Willoughby Street Margaret E. Ford, 83 Brattle Street, Cambridge	$1,600 \\ 1,550$	1912 1918
Ella W. Burnham, 40 Vinal Avenue	1,550	1919
Mrs. Cornelia D. Pratt, 112-A Glenwood Road	1,500 1,400	1918 1918
Bernice O. Newborg, 12 Hale Avenue, Medford Louise M. Saunders, 1 Waterhouse Street, Cambridge	1,400 1.550	1918
Gertrude W. Chaffin, 4 Copeland Terrace, Malden	1,500	1916
Mrs. Ruth L. Strand, Assistant, Central Ave., Needham Hghts. Ruth T. Merritt, Assistant, 102 Gainsboro Street, Boston	1,450 1,400	1919 1919
Doris B. Cresto, Assistant, 52 Rush Street	1,100	1919
Elizabeth M. Welch, Asst., 3 Washington Av., Arlington Heights Harriet M. Bell, Assistant, 42 Orchard Street, Cambridge	1,500 1,650	$1919 \\ 1904$
Dorothy E. Harvey, 204 Hemenway Street, Boston	1,400	1920
Margery Moore, 17 Elm Street, Charlestown Gladys S. Jennison, 40 Vinal Avenue	$1,300 \\ 1,700$	$\frac{1920}{1920}$
Matilda C. Wright, Matron, 17 Gibbens Street	1,000	1919
*Edythe L. Miller, Librarian, 10 Sycamore Street Mabell M. Ham, Clerk, 41 Boston Street	650	1919
*Wesley A. Maynard, 18 Grand View Avenue	1,400 <b>840</b>	1906 <b>1918</b>

\*Part-time.

### EASTERN JUNIOR HIGH SCHOOL.

### Pearl Street.

Samuel A. Johnson, Master, 5 Gardner Terrace, Allston	\$3,100	1916
Francis J. Mahoney, Vice-Principal, 16 Parker Street	2,200	1919
Walter W. Newcombe, Sub-Master, 138 Sycamore Street	1,900	1917
Elizabeth M. Warren, 29 Summit Avenue	1.575	1897
Sarah H. Christie, 78 Sycamore Street		
Eduth M. Christie, to Sycamore Street	1,500	1914
Edyth M. Grimshaw, 316 Hyde Park Avenue, Jamaica Plain	1,500	1909
Pertie I. Gray, 228 Broadway	1,500	1917
Ida M. Record, 104 Hemenway Street, Boston	1,500	1899
Edith L. Laycock, 104 Hemenway Street, Boston	1,500	1913
Elizabeth J. Mooney, 41 Vinal Avenue	1,500	1904
Catherine L. Heagney, 32 Sewall Street	1.500	1912
Mary A. Hickey, 41 Sever Street, Charlestown		
Fine Isone 29 Bishard Street District	1,350	1918
Elma Isaac, 32 Richardson Street, Brighton	1,300	1918
Velma B. Strout, 36 Francesca Avenue	1,500	1918
Theresa Morrison, 174 Broadway	1,500	1912
Hazel W. Ruggles, 20 Hawthorne Street, Roxbury	1,450	1918
Helen B. Ryan, 35 Columbus Avenue	1,400	1918
Alice M. McNally, 50 Church Street, Watertown	1,350	1917
Mrs. Constance H. Scherer, 25 Falmouth Street, Belmont		
Kathinka Fessman, 1126 Boylston Street, Bermont	1,500	1917
Olive F. Whittier, 70 Commission Street, Boston	1,650	1912
Olive E. Whittier, 78 Sycamore Street	1,500	1918
Mrs. Amelia M. Gray, 150 Riverside Avenue, Medford	1,200	1920

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

### Name and Residence

### SOUTHERN JUNIOR HIGH SCHOOL.

SOUTHERN JUNIOR HIGH SCHOOL.		Dame
Vinal Avenue.	Salary.	Began Serv- ice.
George M. Wadsworth, Master, Whitman	'\$5,100	1891
Raymond E. Shepherd, Vice-Principal, 16 Grand View Avenue		
Arthur E. Gordon, Sub-Master, 116 School Street	2,000	1918
Melvin T. Carver, Sub-Master, 6 Loring Road, Winthrop	1,900	
Alias T. Dorric 40 Vinel Avenue	1 650	
Affec L. Davis, 40 vinal Avenue Clara B. Sackett, 106 Summer Street Mrs. Blanche G. North, 25 Columbus Avenue Mrs. Gertrude W. Leighton, 31 Vinal Avenue Grace T. Merritt, 10 Charnwood Road Marie T. Smith-Brandt, 64 Vinal Avenue Lilla E. Mann, 33 Walnut Street	1,500	1891
Mrs. Blanche G. North, 25 Columbus Avenue	1,500	189 <b>3</b>
Mrs. Gertrude W. Leighton, 31 Vinal Avenue	1,500	1895
Grace T. Merritt, 10 Charnwood Road	1,500	
Marie T. Smith-Brandt, 64 Vinal Avenue	1,500	
Lilla E. Mann, 33 Walnut Street	1,500	
Mrs. Mary B. Soule, 39 Walnut Street Leila L. Rand, 43 Norfolk Road, Arlington	1,000	
Leila L. Rand, 43 Norfolk Road, Arlington	1,500	
Rena S. Hezelton, 23 Preston Road	1,500	1909
Mrs. N. Theresa Hennessey, 9 Centre Street, Woburn	1,500	
Nona E. Blackwell, 45 Ibbetson Street Edith L. French, 52 Prescott Street Emma J. Kennedy, 15 Pleasant Avenue Maude M. Cunningham, 60 Central Street Carrie M. Frost, 83 Browne Street, Brookline	1,500	1906
Edith L. French, 52 Prescott Street	1,500	1912
Emma J. Kennedy, 15 Pleasant Avenue	1,500	1912
Maude M. Cunningham, 60 Central Street	1,500	1913
Carrie M. Frost, 83 Browne Street, Brookline	1,500	1920
Charlotte A. Holmes, 24 Cambria Street	1,500	1899
Ada G. Macdonald, 43 Babcock Street, Brookline		1914
	1,400	
Anna E. McCully, 12 Francis Street	1,400	
Mrs. E. Marie Kelley. 69 Chadwick Street, Bradford	1,450	
F. Antoinette Pratt, 31 Vinal Avenue	1,450	
Olive M. Brownell, 62 Simpson Avenue	1,450	
Edith M. Joel, 92 Perkins Street	1,400	1920

### NORTHERN JUNIOR HIGH SCHOOL.

### Sycamore Street and Evergreen Avenue.

Frank W. Seabury, Master, 18 Winslow Avenue	\$3,100	1911
Joseph S. Hawthorne, Vice Principal, 233 School Street	2,200	1915
Arthur J. Marchant, Sub-Master, 99 Glenwood Road	2,000	1914
Walter P. Sweet, 4 Teele Avenue	1,900	1919
Mary I. Bradish, 112 Magoun Avenue, Medford	1,500	1899
Emma G. Blanchard, 146 Massachusetts Avenue, Boston	1,600	1902
Mrs. Mina P. Bickford, 36 Emerson Street, Medford	1,500	1903
Mary F. Mead, 52 Pearson Road	1,500	1905
M. Edna Merrill, 228 Broadway	1,500	1909
Anna R. Walsh, 27 Avon Street	1,450	1914
May A. Daly, 52 Adams Street	1,550	1915
Dorothy A. Chapin, 11 Mystic Street	1,450	1917
Ruth C. Harrington, 3 Moulton Avenue, Stoneham	1,450	1918
Mary C. Fox, 28 Linden Street	1,300	1918
Florence R. Gallagher, 16 Otis Street, Medford	1,350	1918
May B. Thompson, 120 Peterboro Street, Boston	1,500	1918
Minnie A. Holden, 6 Sanborn Avenue	1,500	190 <b>6</b>
Maud Rose, 53 Albion Street	1,500	1919
Alice M. Patterson, 108 Glenwood Road	1,350	1919
Mrs. Ruth Hawkins, 1673 Cambridge Street, Cambridge	1,450	1919
Mrs. Gladys M. Sheldon, 55 Liberty Street, Everett	1,300	1919
Annie G. Merrill, 33 Stuart Street, Everett	1,350	1919
Marie Clifford, 1648 Mass. Avenue, Cambridge	1,500	1907
Mary Donoghue, 80 Porter Road, Cambridge	1,500	1911
Grace M. Driscoll, 25 Arthur Street	1,000	192 <b>0</b>

### Name and Residence

VOCATIONAL SCHOOL FOR BOYS (Day).		Began
Davis Building, Tufts Street.	Salary	Serv- ice.
Harry L. Jones, Principal, 137 Powder House Blvd.	\$3,300	1896
Nehemiah E. Gillespie, 28 Worcester Sq., Boston	2,100	1911
Charles A. Kirkpatrick, 27'Sewall Street	2,000	1913
H. Ralph Aubin, 6 Oxford Street	$\frac{1}{2}$ ,100	1917
Roy R. King, 18 Landers Street	1,900	1918
Phillip J. Heffernan, 356-A Broadway	1,700	1918
Benjamin C. Bowman, 102 Walnut Street	1.500	1919
Edward A. Mason, 63 Tonawanda St., Dorchester	1,900	1920
Percy A. Brigham, 22 Madison Street	2.100	1920
Mrs. Alice A. Hathaway, Clerk, 27 Pearson Road	_,	
\$16.00 per	week 19	20

### INDEPENDENT HOUSEHOLD ARTS SCHOOL.

High School Building.

Mary Henleigh Brown, Director, 162 Highland Ave. \$2,200 1911

1

#### CONTINUATION SCHOOL.

High School Building.

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

# (WILLIAM H.) PRESCOTT SCHOOL

Grade. Pearl and Myrtle Streets.

	Samuel A. Johnson, Master, 5 Gardner Ter., Allston		1893
4.	Clara Taylor, 36 Flint Street	\$1.500	1871
2.	Elizabeth L. Marvin, 17 Summit Street	1,500	1898
2.	Louise E. Pratt, 11 Prospect Hill Avenue	1,500	1889
2.	Mrs. Grace E. Allen, 271 Summer Street	1,000	1919
1.	Jeannette M. Hannabell, 166 Highland Avenue	1,500	. 1917
1.	Dorothea Shay, 68 Mt. Pleasant Street	1,000	1920

# SANFORD HANSCOM SCHOOL. Webster and Rush Streets.

4. 3. 3. 2. 2. 1. 1. 1. Kind'n.	Florence A. Chaney, Master. 49 Boston Street Mrs. Agness M. Travis, 100 Park Ave., Winthrop Maude A. Nichols, 166 Highland Avenue Jennie M. Twiss, 67 Berkeley Street Frances E. Robinson, 88 Charles Street, Boston Mrs. Nellie W. McPheters, 163 Summer Street Martha L. Littlefield, 163 Summer Street Ethel H. Werner, 59 Cedar Street Florence M. Shaw, 58 Central Street Marion A. Viets, 122 Dale Street, Waltham Alice M. Saben, 11 Prospect Hill Avenue Elizabeth J. Baker, 33 West Cedar Street, Boston Gertrude Prichard, 5 Wester Street	\$1,650 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,400	1919 1908 1906 1903 1908 1914 1897 1919 1909 1912 1903 1907
	Gertrude Prichard, 5 Webster Street	1,000	1918

### Name and Residence.

# CLARK BENNETT SCHOOL.

		1	Began
Grade	Poplar and Maple Streets.		Serv-
		Salary.	ice.
	John S. Emerson, Master, 3 Preston Road	\$3,000	1894
5.	Kate B. Gifford, 347 Mass. Avenue, Lexington	1,650	1902
4.	Eleanor W. Nolan, 81 Benton Road	1,500	1909
4, 3.	Eliza I. Patterson, 14 Lincoln Avenue	1,350	1919
3.	Mrs. Nettie L. Fay, 15 Pleasant Avenue	1,500	1901
<b>*3,</b> 2.	Mrs. Minnie P. Cunningham, 77 Walnut Street	1,500	1891
2.	Isadore E. Taylor, 36 Flint Street	1,500	1883
1.	Mrs. Amy F. Woodbury, 183 College Avenue	1,500	1917
1.	Alice M. Hayes, 81 Benton Road	1,500	1913
1.	Mrs. Cora B. Gowen, 87 St. Stephen Street, Boston	1,500	1906
Kind'n.	Helen E. Harrington, 1675 Mass. Ave., Cambridge	1,400	1912
Asst.	M. Regina Desmond, 3 Oak Street, Charlestown	1,050	1918
English.	Mrs. Lillias T. Lawton, 58 E. Elm Ave., Wollaston	1,500	1913
Leave of	Absence		

### GEORGE L. BAXTER SCHOOL.

### Bolton Street.

	Francis A. Ryan, Master, 99 Raymond Avenue		1919
5.	Mary G. Blackwell, Principal, 45 Ibbetson Street	\$1,600	1900
4.	Etta R. Holden, 6 Sanborn Avenue	1,500	1908
3.	Margaret M. Breen, 461 Somerville Avenue	1,500	1916
2.	Sue A. Fitzpatrick, 451-a Somerville Avenue	1,500	1912
1.	Maria D. McLeod, 78 Larchwood Drive, Cambridge	1,500	1906
Kind'n.	Eleanor A. Connor, 86 Belmont Street	1,400	1903
Asst.	Martha W. Delay, 48 Beacon Street	1,250	1911

### OREN S. KNAPP SCHOOL

### Concord Avenue.

	Francis A. Ryan, Master, 99 Raymond Avenue	\$2,900	1913
6.	Mrs. Clara B. Donlon, Ayer	1,650	1914
6.	Winifred I. Macdonald, 43 Babcock Street, Brookline	1,500	1917
6.	Mary T. McCarthy, 246 School Street	1,300	1919
5.	Ellen C. Moynihan, 67 Avon Street	1,500	1919
	Eleanor M. Lundgren, 50 Harrison Street	<b>1,3</b> 50	1919
3.	Agnes C. Riley, 451 Somerville Avenue	1,350	1918
2.	Alice A. Tassinari, 94 Beacon Street	1,300	1919
1.	M. Edith Callahan, Woburn	1,500	1911
	Mrs. Evelyn P. Hansen, 143 Elm Street	900	1920

### ALBION A. PERRY SCHOOL.

### Washington Street, near Dane Street.

	Francis A. Ryan, Master, 99 Raymond Avenue	*******	1919
6.	Catherine E. Sweeney, Principal, 633 Broadway	\$1,600	1901
5.	Mary A. Mullin. Canton	1,500	1910
4.	Irene Vincent, 47 Vinal Avenue	1,500	1903
3.	L. Gertrude Allen, 75 Ossipee Road	1,500	1884
2.	Mrs. Sarah E. Murphy, 120 Rogers Avenue	1,500	1906
1.	Grace R. O'Neil, 347 Washington Street	1,500	1913

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

Name and Residence.

	CHARLES G. POPE SCHOOL.		Began
	Washington and Boston Streets.	salary.	Serv- ice.
6. 6. 5. 5. 4. 4. 3. 2. 2. 1.	Florence A. Chaney, Master, 49 Boston Street Alice I. Norcross, 90 Russell Avenue, Watertown Harriet M. Clark, 10 Vernon Street, West Medford M. Abbie Tarbett, 11 Washington Street, Stoneham Marie Higgins, 55 School Street C. Edith Taylor, 36 Flint Street Lizzie W. Parkhurst, 146 Highland Avenue Annie G. Sheridan, 57 Stanley Avenue, Medford Eleanor E. Waldron, 135 Powder House Boulevard M. Katherine Davis, 243-A Highland Avenue Florence E. Locke, 25 Highland Avenue, Cambridge Mary J. Dewire, 384 Washington Street Alice B. Frye, 12 Champa Avenue, Malden	\$2,600 1,650 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	1892 1885 1893 1906 1919 1917 1885 1886 1919 1904 1899 1913 1904
	(JOHN A.) CUMMINGS SCHOOL. School Street, near Highland Avenue. Charles G. Ham, Master, Watertown		1919
4. 3. 2. 1.	Fannie L. Gwynne, Principal, 65 School Street Katherine M. Fox, 150 Franklin Street, Stoneham Elizabeth L. Hersey, 96 Oxford Street Mrs. Stella M. Hadley, 11 Greene Street	\$1,600 1,500 1,500 1,500	- 1886 1896 1896 1914
	(JOHN G.) EDGERLY SCHOOL.		
Grade.			
	Charles E. Brainard, Master, 82 Munroe Street	\$3,000	1889
6. 6.	Edith M. Snell, 4 Vine Street, Melrose Annie L. Dimpsey, Hotel Woodbridge	$\frac{1,650}{1,500}$	$\begin{array}{c} 1900 \\ 1891 \end{array}$
6. 6.	Mary E. Richardson, 26 Oxford Street Isabelle M. Gray, 25 Webster Street	1,500 1,500	$\begin{array}{c} 1893 \\ 1897 \end{array}$
5. 5.	Mabel C. Mansfield, 26 Oxford Street Berta M. Burnett, 1619 Mass. Ave., Cambridge	$1,500 \\ 1,500$	1893 1915
5.	G. Hortense Pentecost, 157 Walnut Street	1,500 1, <b>3</b> 50	$\frac{1905}{1916}$
5. 4.	Myrtle M. Irwin, 41 Putnam Street Mrs. Louise S. Weare, 63 Hancock Street, Boston	1,500	1896
3. 2.	Lillian Nealley, 109 Glen Street Alice W. Cunningham, 62 Highland Avenue	$1,500 \\ 1,500$	$\frac{1882}{1901}$
Asst.	Martha M. Power, 37 Gleason St., West Medford Edna F. Scriven, 108 Summer Street	1,500 600	$\begin{array}{c} 1890 \\ 1920 \end{array}$
	JACOB T. GLINES SCHOOL.		
-	Jaques Street, near Grant Street.		
<b>'6.</b>	Charles E. Brainard, Master, 82 Munroe Street Margaret A. Orr, 146 Massachusetts Ave., Boston	\$1,650	$\frac{1919}{1890}$
6. 5.	Harriet F. Ward, Weymouth Alice C. Blodgett, 55 Tennyson Street	1,500 1,450	$\frac{1895}{1917}$
5. 5, 4.	Clara D. Eddy, 49 Tennyson Street Editha A. Sharkey, 7 Wesley Park	1,500 1,300	$\frac{1900}{1919}$
4.	Laura M. Flynn, 57 Franklin Street	1,000	1920
4. 3.	Mrs. Carrie Armitage, 57 Madison Street Florence E. Baxter, 42 Highland Avenue	1,500 1,500	1899 1891
3. 2.	Cora J. Demond, 146 Mass. Avenue, Boston Elizabeth C. Sullivan, 74 Ossipee Road	1,500 1,000	$\begin{array}{c} 1900 \\ 1920 \end{array}$
2. 1.	Florence W. Schroeder, 268 Summer Street	1,400 1,450	$1915 \\ 1913$
1. Asst.	Mary L. Gallagher, 81 Benton Road Isabel J. Tifft, 109 Highland Avenue Marguerite Driscoll, 396 Medford Street	1,500 900	1892 1919
Kind'n. Asst.	Mrs. Etta D. Ellsworth, Trinity Court, Boston Ida M. Kane, 28 Fellsway West	1,400 1,250	1897 1905

### Name and Residence.

# (CHARLES) FORSTER SCHOOL.

	(CHARLES) FORSTER SCHOOL.		
	Sycamore Street and Evergreen Avenue.		Began Serv-
Grade. 6, 5. 5, 4. 3, 2. 2, 1.	Frank W. Seabury, Master, 18 Winslow Avenue Elizabeth F. Clement, 29 Kidder Avenue Annie S. Gage, 32 Marshall Street Carrie T. Lincoln, 65 Ashland Street, Medford Grace Shorey, 23 Forster Street	\$1,500 1,500 1,500 1,500 1,500	
	(NORMAN W.) BINGHAM SCHOOL.		
	Lowell Street, near Vernon Street.		
6. 6, 5. 5. 4. 4, 3. 3. 2. 2. 2, 1. 1.	Harry F. Hathaway, Master, 29 Albion Street Elizabeth J. O'Neil, 82 Benton Road Jane Batson, 68 Cedar Street, Malden Helen M. Farr, 4 Oak Street, Belmont Elizabeth'S. Brown, 18 Forster Street Clara L. Griffiths, 39 Ames Street Anna R. Canfield, 205 Cedar Street Alice A. Griffiths, 39 Ames Street Barbara E. Drummey, 43 Short Street, Marlboro Lillian F. Commins, 24 Hanson Street Lynda V. Merrill, 26 Brastow Avenue G. Marion Lovering, 27 Flint Street Priscilla A. Merritt, 96 Oxford Street M. Gertrude McCarthy, 36 Brastow Avenue Mabel E. Mansir, 77 Albion Street Ethel Gross, 8 Fosket Street	\$3,000 1,650 1,500 1,400 1,500 1,400 1,400 1,400 1,400 1,500 1,450 1,500 1,300 1,500	1890 1894 1900 1915 1897 1902 1914 1920 1918 1914 1912 1913 1885 1917
	MARTIN W. CARR SCHOOL.		
	Atherton Street.		
6. 6. 6. 5. 5. 5. 4. 4. 3. 2. 2.	Chas. G. Ham, Master, 20 Washburn St., Watertown	1,650 1,500	1898 1915 1891 1915 1920 1913 1895 1917 1917 1917 1915 1901 1915 1908 1912
	(ENOCH R.) MORSE SCHOOL.		
6. 5. 5. 4. 4, 3. 2. 2. 1.	Summer and Craigie Streets.  Mina J. Wendell, Master, 211-A Summer Street Mrs. Harriette C. Hamilton, 68 Wallace Street Lennie W. Bartlett, 53 Laurel Street Blanche E. Thompson, 33 Hudson Street Mary A. Whitney, 10 Dow Street Eva A. Wilson, 9 Monmouth Street Mrs. Agnes C. Rice, 34 Highland Avenue Alice C. Ray, 82 Benton Road Lena Munroe, 211-A Summer Street Helen L. Tuck, 43 Paulina Street Louise F. Deady, 84 Bay State Avenue	\$3,000 1,650 1,500 1,500 1,500 1,350 1,500 1,500 1,500 1,500 1,300	1882 1900 1893 1906 1916 1917 1900 1914 1913 1912

### Name and Residence.

# GEORGE O. PROCTOR SCHOOL!

	GEORGE O. PROCTOR SCHOOL,		
	Hudson Street.		Began
Grade.		Salary.	Serv-ice.
6. 6, 5. 5, 4. 4. 3. 2. 1.	Harry F. Hathaway, Master, 29 Albion Street Nora F. Byard, Principal, 27 College Avenue Alice G. Hosmer, 42 Boston Street, Ethel F. Morang, 18 Curtis Avenue Ella P. McLeod, 163 Summer Street Edith L. Hunnewell, 41 Mason Street Mary S. Richardson, 347 Boston Avenue, Medford Lucia Alger, 163 Summer Street	\$1,650 1,500 1,300 1,500 1,500 1,500 1,500	1912 1884 1906 1920 1888 1894 1906 1889
	CEOPCE W DUPELL COUOCI		
	GEORGE W. DURELL SCHOOL.  Beacon and Kent Streets.		
4. <b>3</b> . <b>2</b> . 1.	Charles G. Ham, Master, Watertown Abigail P. Hazelton, Principal, 14 Billingham Stree Grace E. Packard, 12 Carlisle Street, Roxbury Mary Winslow, 23 Hall Street Alice M. Dicker, 82 Marion Street, East Boston	1,500 1,500 1,500 1,500	1919 1902 1912 1887 1912
	MARK F. BURNS SCHOOL.		
	Cherry Street, near Highland Avenue.		>
4. 4. 3. 3. 2. 2. 1.	Mina J. Wendell, Master, 211-A Summer Street Mrs. Margaret D. Hellyar, 427 Medford Street Lizzie E. Hill, 121 St. Stephen Street, Boston Annie L. Brown, 4 Saginaw Avenue, No. Camb. Margaret Beattie, 401 Washington Street Mary E. Lacy, 63 Cherry Street Ardelle Abbott, 71 Craigie Street Alice E. Morang, 18 Curtis Avenue Ruth E. Andrews, 2 Medina Building	\$1,650 1,500 1,500 1,400 1,500 1,500 1,500 1,500 1,450	1919 1909 1890 1885 1914 1890 1896 1893 1917
4. 3. 2. 2.	BENJAMIN G. BROWN SCHOOL.  Willow Avenue and Josephine Avenue.  Geo. I. Bowden, Master, 92 Monument St., W. Med. Maude E. Abbott, 9 Summit Avenue Mary T. Ford, 32 Central Road Annie Sanburn, 11 East Newton St., Boston Anna N. Johnson, 33 Everett Avenue Martha R. Taylor, 26 Simpson Avenue Helen L. Galvin, 1681 Beacon St., Brookline Alice M. Dorman, 159 Morrison Avenue Mrs. Grace H. Bliss, 33 Whitfield Road Mrs. Bessie T. MacCutcheon, 72 Mt. Vernon Street	\$3,000 1,600 1,500 1,500 1,500 1,500 1,500 1,500 1,400	1908 1918 1911 1906 1912 1914 1903 1900 1915
1.	Olivia H. Norcross, Wilmington	1,500	1914
· ·	HIGHLAND SCHOOL. Highland Avenue and Grove Street.		
6. 6.	Harlan P. Knight, Master, 22 Hamilton Road Grace M. Clark, 10 Vernon Street, West Medford Mary H. Joyce, 42 Orchard Street, Cambridge Ethel M. Park, 48 Electric Avenue Lillian F. Richardson, 129 Mt. Auburn St., Camb. Eva M. Barrows, 71 Hudson Street Marion Allen, 74 Collins Street, Danvers Catherine A. Burden, 42 Kidder Avenue Eva E. Perkins, 16 Buckminster Street, Allston Hazel M. Stone, 2 Medina Building	\$1,650 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,350	1919 1893 1891 1916 1904 1903 1911 1902 1911

#### Name and Residence.

# S. NEWTON CUTLER SCHOOL.

Powd	er House Boulevard, near Raymond Avenue.		Began Serv-
Grade.		Salary.	ice.
	Harlan P. Knight, Master, 22 Hamilton Road	\$3,000	1897
6.	Bernice J. Andrews, 10 Locke Street	1,650	1914
6.	Mrs. Edith M. Thornquist, 49 Curtis Avenue	<b>1,50</b> 0	
6.	Ella H. Bucknam, 1105 Broadway	1,500	1897
5.	Mrs. Mabel T. Totman, 17 Pleasant Avenue	1,500	1893
_			
	Bessie J. Baker, 19 Mills Street, Malden	1,500	
4.		1,500	1911
4.	M. Eunice Young, 6 Myrtle Street, Winchester	1,500	1912
5.	Mabel Worcester, 24 Brastow Avenue	1,300	1919
4.	Alice A. Libbey, 20 Chandler Street	1,300	1919
3.	Mrs. Elsie M. Guthrie, 50 Bromfield Road	1,450	1919
3.	Mrs. Katie L. Harmon, 1092 Broadway	1,400	1916
.2.	E. Mildred Milner, 12 Medina Building	1.300	1920
2.	Almena J. Mansir, 77 Albion Street	1,500	1899
2.	Mrs. Nettie M. Humiston, 43 Fairmount Avenue	1,300	1920
1.	Annie H. Hall, 1092 Broadway	1.500	1906
1.	Mary L. McKenna, 294 Lowell Street	1.350	1915
1.		1,000	1917

#### LINCOLN SCHOOL.

### Broadway, near Teele Square.

	Harlan P. Knight, Master, 22 Hamilton Road		1914
3.	Eliza H. Lunt. Principal, 50 Curtis Street	\$1,600	1889
4.	Mrs. Lillian M. Wentworth, 248 Highland Avenue	1,500	1911
2.	Olevia M. Woods, 116 Powder House Boulevard	1,500	1908
1.	Hortense F. Small. 91 Electric Avenue	1.500	1912

### MARTHA PERRY LOWE SCHOOL.

### Morrison Avenue, near Grove Street.

4. May E. Small, Principal, 81 Orchard Street \$1,650	1900
4. Stella M. Holland, 7 Francesca Avenue 1,500	1903
3. Maude C. Valentine, 1098 Broadway 1,500	1901
3. Mrs. Jane M. Taaffe, 159 Morrison Avenue 1,500	1888
2. Katherine E. Hourahan, 94 College Avenue 1,500	1892
2. Clara G. Hegan, 100 School Street 1,500	1897
1. Martha A. Jencks, 47 Meacham Road 1,500	1898
1. Octavia A. Stewart, 15 Kenwood Street 1,500	1917

### EVENING SCHOOL PRINCIPALS.

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

# CADET TEACHERS.

Ruth C. Arrington, 37 Walnut Street	\$600	1920
Eunice S. Higgins, 25 Berkeley Street	600	1920
Ethel F. Rudd, 46-A Franklin Street	600	1920

Music.

#### SUPERVISORS AND SPECIAL TEACHERS.

12, 7. 6, 1.	James P. McVey, 29 Hammond Street, Cambridge Mrs. Charlotte D. Lawton, 121 St. Stephen St., Bosto		1915» 1898-
	Drawing.		
9, 1.	Clara M. Gale, 21 Willoughby Street	\$1,900	1911
	Sewing.		
<b>6,</b> 5.	Mary H. Brown, Supervisor, 162 Highland Ave. Mary L. Boyd, 74 Heath Street Mrs. Emma J. Ellis, 54 Marshall Street Lucy Dorr, 124 Summer Street	*\$200 1,500 1,500 1,500	1913- 1888 1900 1919-
	Penmanship.		
9, 1.	Ruth L. Whitehouse, 2 Medina Building	\$1,700	1915-
	Manual Training.		
	Harry L. Jones, Supervisor, 137 Pow. House Blvd.	† <b>\$2</b> 00	1911
	Physical Instruction.		

### Atypical.

‡12, 1. Ernst Hermann, 58 Shepard Street, Cambridge 12, 1. Alma Porter, 43 Ossipee Road

Mary A. Holt, 13 Pleasant Avenue	\$1,550	1910-
Mrs. Bertha M. Morton, 62 Highland Avenue	1,550	1913-
Julia M. Riordan, 165 Albion Street	1,450	1914

\$1,550 1,400

\$1,800

1914 1918

### Supervisor School Gardens.

‡William B. Moore, West Peabody

\* Additional to salary as Director of Household Arts Courses.

† Additional to salary as Principal of Boys' Vocational School.

‡ Part time. \$1,050 1919

Benjamin R. Jones, 25 Loring Street

### TABLE 30. — OFFICERS, ETC., IN SERVICE JANUARY, 1921.

# Name and Address.

SUPERINTENDENT AND SECRETARY	Cala
Charles S. Clark, 75 Munroe Street	<b>Salary.</b> \$5,000
CLERKS.	
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	\$1,400 1,250 1,150 \$16.00 per wk.
ATTENDANCE OFFICER.	

TABLE 31. — SCHOOL JANITORS, JANUARY, 1921.

School.	Name.	Residence.	Weekly Salary
High School, assistant	Jeremiah M. Brennan	482 Medford St	\$26.00
High School, assistant	John N. Quirk	202 Somerville Ave.	25.00
High School, assistant	Nicholas J. Lacey	327 Washington St.	30.00
High School, assistant	*Andrew H. Finnegan	77 Concord Ave.	25.00
High School, assistant	Joseph McCormack	206 Washington St.	25.00
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
Prescott	John T. Morey	21 Michigan Ave.	28.50
Hanscom	Charles F. Rose	15 Brastow Ave.	26.50
Boys' Vocational	Charles B. Kelley	25 Clark St.	26.00
Bennett	Michael Mullaney	467 Somerville Ave.	28.00
Baxter	Jeremiah Sullivan	60 Newton St.	24.00
Knapp	Maurice T. Mullins	13 Fremont St.	28.50
Perry	Dan'l E. Cunningham	15 Leland St.	24.00
Pope	John J. Kilty	662 Somerville Ave.	28.00
Southern Junior High	William Meskill	53 Partridge Ave.	30.00
Southern Junior High	John C. Kelleher	8 Newman Pl.	26.00
Cummings	Lewis G. Keene	54 Prescott St.	22.00
Edgerly	Charles P. Horton	22 Everett Ave.	28.00
Glines	Roy C. Burckes	20 Jacques St.	29.00
Forster	George W. Coombs	73 Bonair St.	28.00
Northern Junior High	Michael A. Mullin	16 Bowdoin St.	27.50
Bingham	John F. O'Brien	347 Lowell St.	31.00
Carr	John H. Lane	5-A Belmont St.	34.00
Morse	John W. Cremen	69 Oxford St.	28.50
Proctor	James F. Flynn	31 Linden St.	25.50
Durell	Ellsworth C. Lundgren	50 Harrison St.	22.00
Burns	Charles J. Elkins	35 Mansfield St.	25.50
Brown	ottilloo o. Gooper	105 Willow Ave.	26.50
Highlan <b>d</b>		103 Willow Ave.	28.00
Hodgkins	George A. Givan	17 Henry Ave.	29.00
Western Junior High	James T. Eddy	38 Wallace St.	34.00
Cutler	Daniel Campbell	22 Barton St.	28.00
Cutler	Walter F. Burns	23 Avon St.	25.00
Lincoln		134 Lowell St.	22.00
Lowe	Frank H. Flagg	22 Clyde St.	25.50

<sup>\*</sup> Leave of absence.

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

# To the School Committee:

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

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

reasons for opposing its conclusions.

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

"That the board of aldermen of the city of Somerville hereby authorizes and approves the establishment and maintenance of an independent industrial school for boys and an independent industrial school for girls by the school committee of

Somerville."

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

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

and one-half by the city.

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

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

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

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

greater, to be a consequential factor.

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

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

the building program involved.

For a number of years a discussion of re-organization of the educational system of the country has been carried on by leading educators and by various bodies devoted to the study of education. The purpose of the study has been to define more clearly the objectives of education and to determine in what way those objectives could best be accomplished. During the last ten years the discussion has taken more definite form and direct proposals for action have been advanced. In his report for 1913, page XXIV, the United States Commissioner of Education, among other suggestions, made the following: "The 12 years of elementary and high schools now grouped in the primary and grammar school and four years of high school should be rearranged into six years of elementary and six years

of high school. The high school should be sub-divided into three years junior high and three years senior high school." Some of the reasons given for this change are the following:

"For most children the beginning of adolesence marking the transition from childhood to youth comes at 12 or 13. In most of our schools children make little real progress in the 7th and 8th grades. There has been much complaint that this is a period of marking time. Taking up the 7th and 8th years as part of the high school makes it easy to begin departmental teaching in these grades and to adapt the methods of teaching and discipline to the changing demands of the children."

"We lost much by postponing the study of languages to the later years, when children have grown out of the imitative period of life in which they can learn to speak, read, and write

a new language."

"Many more children than now enter the high school at all would remain throughout the entire high school period."

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

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

The report of the special commission of Education for Massachusetts, appointed under authority of Chapter 88, Resolves of 1918, to investigate educational systems of the Commonwealth, says (on page 38): "The junior high school is a distinct step in advance. It offers to pupils an earlier opportunity to find themselves; to discover their tastes and capacities by extending the range of their school experience. It affords a certain amount of prevocational experience in manual training

and homemaking courses. If well organized and managed, it lessens the number of misfits in the senior high school. It introduces at an earlier stage studies which, while in a sense by nature elementary, are usually deferred to the high school: e. g., foreign languages and algebra. If desirable, it may lessen the time needed for preparation for higher institutions. It increases markedly the advantage of departmental teach-

ing."

It is estimated by competent educational authority that at the present time the number of communities in the United States having established junior high schools is between 800 and 1,000 and that in the near future the plan of six elementary, three junior high school, and three senior high school grades will be adopted generally throughout the country. Over 40 communities in Massachusetts have now established junior high schools, and half as many more are now making plans to establish them or are investigating the subject with that end in view. Nearly all the large cities of the State are included in one or the other of these two lists.

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

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

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

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

January 4, 1918.

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

"Dear Sir: At this time, at the completion of my four years' service as mayor and as a member of the School Committee, I desire to express to your committee my appreciation of your hearty co-operation in all matters considered by us.

"At the beginning of my administration, we were confronted with the high school problem, and I believe that the solution at which we have arrived, made possible by the action of the school committee, board of aldermen and the mayor, is a satisfactory one. The comprehensive plan contemplated four junior high school centers.

"In the eastern district, the new building adjoining the Prescott schoolhouse is now in use; in the northern district, the Forster School annex has been adapted for junior high school purposes; in the western district, the new building on Holland street property has been completed and is in use; in the southern district, a building is now in process of erection on Vinal avenue, adjoining the Bell schoolhouse. It was not considered by us that these buildings would be sufficient to care for all the pupils, but we have built as far as the finances would permit. The comprehensive plan anticipated the construction of future units in each of these districts from time to time, and the buildings are designed with this in mind.

"I earnestly hope that appropriations will be made from year to year and additional units constructed until sufficient accommodations are provided in all these districts.

"My experience in the school committee has convinced me of the wisdom of the charter change which provided for the membership of the president of the board of aldermen and the

mayor, and I believe that this membership enables both of these officers to consider school needs with much greater understand-

ing.

"Though my official connection with the school committee ceases within a few days, I wish to assure you that my personal interest in the schools and your work will continue in the future years.

# Very truly yours,

(Signed) Z. E. CLIFF, Mayor."

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

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

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

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

ing school efficiency.

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

Clarence D. Kingsley — Agent in charge of high schools for the Mass. State Board of Education and chairman of the Commission on the Reorganization of Secondary Education of

the National Education Association.

"I know of no one who has made a careful study of the junior high school who is not convinced that it is highly desirable. It is advocated not by theorists, but by practical school administrators, teachers, and parents. No city to my knowledge which has given the plan a thorough trial has discarded it. It is no longer an experiment. It has demonstrated its value.

"The junior high school has met a long felt need. Heretofore the last two years of the elementary school and the first year of the four-year high school were the weakest points in our school system. The junior high school is adapted to the needs, interests, and capacities of children 12 to 15 years of age, as neither the elementary nor the senior high school can be. As a result fewer children become discouraged and drop out of school.

"The junior high school helps young people to find out what they can do best so that it will not be necessary to choose blindly the work which they should begin in the senior high school.

"The junior high school should be supported by everyone who wants to see the school system turn out the most effective citizens, because it is possible in the junior high school to develop certain civic qualities that cannot be so effectively developed at any other time in the life of the child."

Dr. John M. Brewer — Director of Bureau of Vocational Guidance, Harvard University.

"More than sixty per cent. of the children who leave school do so because they or their parents do not believe further education worth while. This erroneous opinion is largely due to the rigid program of studies and artificial atmosphere of the old-style 7th and 8th grades. The junior high school has largely changed these evils and it aims to give an education that fits for life. Citizens with civic imagination see the dangers ahead if children are allowed to grow up without knowing about the serious social and economic problems of the future. If the fire department were to be abolished to save money, we should suffer loss at once. A blow at the schools causes a loss which is postponed, perhaps, till long after the term of office of our present city officials has expired, but a loss just as real and dangerous."

Dr. Paul H. Hanus — Professor of Education, Harvard University; for many years a member of Massachusetts State Board of Education.

"To abandon the junior high schools already established in Somerville would be a calamity. Junior high schools are the best means yet developed for adapting the educational opportunities which a school system affords to the needs and abilities of individual pupils, and this adaptation is an indispensable element of efficient schools."

Prof. Henry W. Holmes — Dean of the New School of Education, Harvard University.

"I believe heartily in the general theory of the junior high school, and I have supposed from all I have heard that the Somerville practice in junior high school work is as effective and valuable as any that has been worked out." \*\*Dr. Thomas H. Briggs — Professor of Education, Teachers' College, Columbia University, who has recently finished a survey of junior high schools of the country for the U. S. Bureau of Education.

"Although less than ten years old, the movement has spread to all parts of the country, with the exception of five Southern and two arid states. The total number of junior high schools today is probably about 800."

Dr. A. H. Wilde — Director of Boston University, School

of Education.

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

Prof. Antoinette Roof — Instructor in Education at Sim-

mons College.

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

Prof. Alexander Inglis — Assistant Professor of Education

at Harvard.

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

Prof. George A. Mirick — Lecturer on Elementary Education at Harvard.

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

Cost — The per capita cost of schools in Somerville for the school year 1919 was \$44.82. Although in the number of pu-

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

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

Again Somerville's expenditures for education have not increased proportionately to its increase in wealth. In 1909 Somerville had a valuation of \$5,165 for each pupil in the average membership of the schools. In 1919 it had a valuation of \$6,722 per pupil. There was expended for school support during the school year ending June 30, 1909, \$5.75 on each thousand dollars of valuation, which gave Somerville a rank in expenditure per thousand dollars of valuation in 1909 of 121 among the 354 communities of the State. In the school year ending June 30, 1919, there was expended for school support \$6.68 on each thousand dollars of valuation. Somerville's rank for expenditure on each thousand dollars of valuation in 1919 was 163 among the 354 communities of the State. words, while in 1909 120 communities appropriated more per thousand dollars of valuation for education than Somerville, in 1919 162 cities and towns expended more. These facts show that during the last ten years Somerville's valuation per pupil has increased over thirty per cent., and its expenditure only

sixteen per cent. These facts show also that education in Somerville is not so expensive today compared to that in othercities and towns as it was in 1909.

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

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

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

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

It is well known to persons who are acquainted with management of schools that rooms must be provided for a variety of purposes. There are regular classrooms in which pupils sit to study and recite. There are rooms which are used only for recitation purposes; there are laboratories and shops; there should be assembly rooms in large school buildings. In the enumeration of rooms and sittings made by principals, regular

classrooms alone are counted in the seating capacity of the schools. Carpenter shops, kitchens, chemical and physical laboratories, sewing rooms, etc., are not counted as suitable for home rooms. Rooms now used for manual training and household arts cannot be diverted from that use to home rooms for academic use inasmuch as the teaching of household arts and manual arts is required by law in both elementary and high schools.

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

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

In the Southworth building a basement room now used for assembly and physical exercises has been rated as a space suitable for permanent sittings. Besides being a basement room, this room is insufficiently lighted for regular classroom use. In fact, basement rooms are being put to their largest possible educational use now as shops, cooking rooms, sewing rooms, etc. In a few instances where such work is done in regular classrooms, it is done of necessity. Inasmuch as manu-

al training and household arts instruction must by law be given to children in the elementary and high schools, rooms must be provided for their use. Such rooms cannot be properly used also as classrooms for study and recitation purposes. In junior high schools space has been taken for these classes, in most cases, which would not otherwise be applied to any other educational use. However, all these rooms appear to have been counted as home rooms in the report of the board of aldermen.

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

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

As a summary of these various considerations it is main-

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

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

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

its abandonment.

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

The issue then is between a plan which looks towards the future and one which faces the past; between a plan which asks for the children of the future, school accommodations suited to their needs and adapted to the most approved educational processes of the day and a plan which contemplates filling existing school rooms to their maximum capacity and using at-

tics and basements for classrooms; between a plan which, while meeting the needs of the future wholly, can yet be provided in installments, if necessary, and a plan which says that existing accommodations meet all the needs of the present and the future.

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

# Respectfully submitted,

(Signed) H. M. STOODLEY, Chairman Finance

> OSCAR W. CODDING, Chairman School Accommodations

Christopher J. Muldoon, Chairman Text Books and Courses of Study

Edward I. Tripp, Chairman Industrial Education Committee

### QUESTIONNAIRE ON STUDY OF MUSIC

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

Following is a summary of the questionnaire:

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

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

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

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

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

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

Aspiration							
	Northern	Southern	Eastern	Western	Total		
Number of Question	1-						
naires	. 505	703	409	800	2417		
Wish to Study Music	. 331	<b>45</b> 3	242	538	1564		
Voice	. 44	<b>6</b> 3	31	85	223		
Piano or Organ .	. 226	248	140	367	981		
Violin	. 47	79	<b>57</b>	74	257		
Other Strings .	. 1	1	0	6	8		
Flute, Clarinet or Saxo	)-			, and the second se			
phone	. 2	9	3	3	17		
Cornet	. 9	14	8	25	56		
Other Brass .	. 3	4	3	5	15		
Banjo, Mandolin, etc.	. 8	7	4	12	31		
Fife	. 2	0	ō	-0	2		
Drum	. 5	9	2	12	28		
Other Instruments	. 1	2	1		4		
No Preference .	. 3	9	0	ĭ	13		

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

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

Training						
	Senior	Northern	Southern	Eastern	Western	Total
Number of Ques-						
tionnaires .	1470	' 505	703	409	800	3887
Training	954	293	364	200	519	2330
No Training .	516	212	339	209	281	1557
Voice	88	20	23	11	48	190
Piano or Organ .	750	230	266	144	415	1865
Violin	135	41	57	30	57	320
Other Strings .	8	0	1	0	5	14
Flute, Clarinet or						
Saxophone .	. 2	0	4	2	0	8
Cornet	13	5	2	3	9	32
Other Brass .	11	3	2	0	2	19
Banjo, Mandolii	a,					
etc	18	5	3	4	6	36
Fife	. 29	0	0	0	0	29
Drum	45	0	3	3	2	53
Other Instrument	s 0	2	3	0	5	10
Harmony	. 2	0	0	0	2	4

2,330 or 59.9% of the whole number answering questionnaires have had training.

Studying, 1,307 or 33.6% of the whole.

Senior High School (trained 954 or 64.8% of the whole

(studying 436 or 29.6% of the whole or 45.7% of

(those trained.

Junior High Schools

(trained 1,376 or 56.9% of the whole (studying 871 or 36% of the whole or

(63.2% of those trained

(98 gave up studying on account of school work. (1,315 or 54.4% of the whole wish credit for music (187 or 7.7% of the whole do not wish credit for (music.

# COURSES OF STUDY IN JUNIOR AND SENIOR HIGH SCHOOLS 1921

		Grade \	/ I I			
Required:					Perio	ds per week
English .						.3
Arithmetic .				•		3
History and	Geography					3
Hygiene .						1
Music .				,		1

	Challing									1	
	Spelling	•	•	•	•	•	•	•	•	1	
	Writing	•	•	•	•	•	•	•	•	1	
	Drawing		•.	•	•	•	•	•	•	1	
	Cooking a		wing	•	•	•	0.	•	•	2	
	0	_									
	Shop work	for be	oys			•	•	•	•	2	
	Physical 7	rainin	g			•	•	•			
Elect	ive: (choose		_								
13.	Latin .									4	
	French									4	
	Spanish		·		·	·	·	·	·	$\overline{4}$	
	German		•	•	•	•	•	•	•	4	
	Special Ho		d And	·	•	•	•	•	•	4	
					•	•	•	•	•	4	
	Special Ma	inuai A	Arts	•		. :	1	•	•		
	Typewritin								•	4	
	Elementary	y Subje	ects (	Spec	cial)	•	•	•	•	4	
				Gr	ade \	/111					
Requi	irad.			OI (	auc (				Dar	iods per	week
nequi									PCI		WEEK
	English	•	•	•	•	•	•	•	•	3	
	Arithmetic			•	•	•	•	•	•	3	
	History an			y	•	•	•	•	•	3	
		•	•	•	•	•	•	•	•	1	
	Music . Spelling		•			•				1	
	Spelling				•					1	
										1	
										1	
	Cooking an									2	
	or		0	•	Ť	·	•	Ť	·	_	
	Shop Worl	t for 1	hovs							2	
	Physical Tr			•	•	•	•	•	•	-	
Electi	ve: (choose			•	•	•	•	•	•		
Flecti		one)								4	
	Latin .	•	•	•	•	•	•	•	•	4	
	French	•		•	•	•	•	•	•	4	
	Spanish	•		•	•	•	•	•	•	4	
	German	•			•	•	•	. 3		4	
	Special Ho	usehol	d Art	S			•			4	
	German Special Ho Special Ma	nual .	Arts							4	
	Typewritin	g and	Comi	merc	ial P	rinci	ples			4	
	Elementary	Subj	ects	(Spe	ecial)					4	,
				` -							
				Gi	rade	IX					
Requi	rad.			ω.	auc	1/			Dani	ods per	week
ricqui	English								ren	· -	WCCK
	Community	Civia	•	•	•	•	•	•	•	5 1	
				•	•	•	•	•	•		
	Music .			•	•	•	•	•	•	1	
	Physical Tr			•	•	•	•	•	•		
	ve: (choose	one g	roup	)							
Co	llege: —										
	Latin .						•	•		5	
	Algebra									5	
	Ancient Hi	story								3	
Sci	entific: —										
	Algebra									5	
	Ancient Hi	story								3	•
	Mechanical			•	•	•	•	•	•	1	
	Latin or M				•	•	•	•	•		
NIO	rmal: —	anual	rran	img	•	•	•	•	•	5	
1/10	rmar: —										

-									_
	Algebra	•	•	•	•	•	•	•	5
	Ancient History		•	•	•	•	•		3
	Freehand Drawin	g							1
	Latin or French								5
M	anual Arts:								
	Algebra .								5
	Mechanical Draw	ing	•						1 `
	Manual Arts				•				7
$\mathbf{H}$	ousehold Arts: -			Ť					
	Algebra .		_						5
	Freehand Drawin	12°			·	• ,			Ĭ
	Household Arts	•0	•	•	•	•	•	•	7
C	ommercial: —	•	•	•	•	•	•	•	•
0	Bookkeeping								5
		•	•	•	•	•	•	•	9
	Typewriting	•	•	•	•	•	•	•	Z
	Penmanship		•	•	•	•	•	•	1
	Spanish or Frence	h or	Germ	an oi	r Mar	nual A	Arts o	or	
	Household A								5
(	Scientific group or	nits n	nusic.				nglish	four p	eriods in-
	of fire							war p	

stead of five.)

# Shop Work for Boys

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

### COLLEGE COURSE

### Grade X

							Recitations	Points
English .					•		4	4
Geometry						•	5	5
Latin (2).	•				•	•	5	5
Anc. History	(2)						21/2	21/2
Electives (Take or								
Greek (1).	•						5	5
French (1)						•	5	5
			Gr	ade >	KI .			
English .			. /	•	•	•	4	4
Latin (3).			•	•	•	•	5	5
Algebra (2)		•	•			•	21/2	21/2
Electives (Take ty	vo)							
Greek (2).		•	•		•		5	5
French (2)							5	5
Chemistry	•					•	5	5
Eng. History	•	•		•	•	•	4	4 5
Spanish (1)	•	•	•	•	•	•	5	
German (1)				•	•	•	5	5
A science must be	take	n eith	er se	cond	or th	ird ye	ar.	

C	ra	d	_	X	ш	
G	ra	O	e	$\sim$	м	

	English					•	•		4	4
	Latin (4)	) .				•	•	•	5	5
	Geometry	y(2)		. 0	•	•	•	•	$2\frac{1}{2}$	$2\frac{1}{2}$
	Algebra	(3)		•	•	•	•	•	2 <b>½</b>	$2\frac{1}{2}$
Ele	ctives (Ta	ake tv	vo)							
	Physics				•			•	6	5
	Greek (3	) .	•		•	•	•		5	5
	French (	3)		•					5	5
	U. S. His	story	and	Civics		•		•	4	4
	Spanish	(2)	•		•			•	5	5
	*Review	Chem	istry	•	•	•	•	•	2	2
	German	(2)			•	•	•	•	5	5
* O	nly for pu	pils o	fferir	ng Che	mistr	v for	Exam	ination	at Harvard.	Rad-

<sup>\*</sup> Only for pupils offering Chemistry for Examination at Harvard, Radcliffe, Wellesley, Smith, Mt. Holyoke.

# SCIENTIFIC COURSE

				Gra	de X			D 14 - 41	D = 4 =
								Recitations	
	English .	•		•	•	•	•	4	4
	Geometry	:	•	•	•	•	•	5	5
	Anc. History		•	•	•	•	•	21/2	21/2
	Mec. Drawing	(2)	•	•	•	•	•	$2\frac{1}{2}$	1
	French (1)	•	•	•	•	•	•	5	5
Ele	ctives (Take or	1e)							
	Latin (2).	•	•	•	•	•	•	5	5
	Man. Training	(2)	•	•	•			<b>6</b>	4
				Grad	lX st				
	English .							4	4
•	Algebra (2)	1.						$2\frac{1}{2}$	2 1/2
	Geometry (2)							21/2	21/2
	Mec. Drawing	(3)						$2\frac{1}{2}$	1
	French (2)		•					5	5
	Chemistry (1)	٠.		•				5	5
Ele	ctives:								
	U. S. History	and C	ivivs					4	4
	Spanish (1)							5	5
	German (1)							5	5
							Ĭ	0	Ü
				Grad	e XII				
	English .							4	_
	Algebra (3)	•	•	•	•	•	•	4	4
	Geometry (3)	Colid	•	•	•	•	•	21/2	21/2
	Physics .	Solid	•	•	•	•	•	21/2	21/2
	Mec. Drawing	(1)	•	•	•	•	•	6	5
	French (3)	(4)	•	•	•	•	•	2 1/2	1
	Trigonometry	•	•	•	•	•	•	5	5
Fle	ctives:	•	•	•	•	•	•	21/2	$2\frac{1}{2}$
210								_	_
	Spanish (2) German (2)	•	•	•	•	•	•	5	5
	German (2)	•	•					5	5

# NORMAL COURSE Grade X

				•	Recitation	s Points
English					4	4
Geometry		•			5	5
Biology		•			5	5
Freehand Drawin	g (2)				2	1
Elocution .	•	•	•		1	1
Anc. History .	•	•			21/2	21/2
Electives (Take one)						
Latin (2)	•	•	•		5	5
French (2)	. •	•	•		5	5
Normal Art students	must	take	extra	drawing	periods each	year.

# HOUSEHOLD ARTS COURSE

				Gra	de X			D = 114 = 41 = 1 =	D = +
	T3111							Recitations	
	English		•	•	•	•	•	4	4
	Elocution		•	•	•	•	•	1	1
	Dressmaking .		•	•	•	•	•	2	
	Cooking .		•	•	•	•	•	2	
	Millinery .		•	•	•	•	•	2	
	Food Study .		•	•	• •	•	•	2	9
	Design (Garmen	its) .	•	•	•	•	•	2	
	Textiles		•	•	•	•	•	1	
	Hygiene (Person			•	•	•	•	2	
	Commerce and I	ndust	ry	•	•	•	•	21/2	
Ele	ctive	•							
	Foreign Langus	ge .			•	•	•	5	5
				Grad	le XI				
	English					•	•	4	4
	English History						•	4	4
	Chemistry .				١.			5	5
	Freehand Drawin	ng (3	)	•			. 0	2	1
	Elocution (2).	•						1	1
E.le	ctives (Take one)								
	Latin (3)							5	5
	French (3) .				•			5	
	Spanish (1) .							5	5 5
	German (1) .	i.						5	5
	,								
			1	Grad	e XII				
	English				•		•	4	4
	U. S. Hist. and	Civ					•	4	4
	Freehand Drawin	ng (4	.)		•	•		2	1
	Elocution (3).				•		•	1	1
	Physiology .			•			•	4	4
Ele	ctives (Take one)								
	Physics			•	•		•	5	5
	Latin (4)							5	5
	Spanish (2) .							5	5
	German (2) .							5	5
	Algebra (2) .							21/2	21/2
	Geometry (2).							21/2	$2\frac{1}{2}$

	9	SC	HOOL	DEPAI	RTMEN	NT.		201
			G	rade X	CI			
Ele	English . U. S. History Elocution . Dressmaking Cooking . Millinery Food Study Design (Home) Hygiene . Arithmetic (Hoctive Foreign langua	ousehol				•	$\left\{ egin{array}{c} 4 \\ 4 \\ 1 \\ 2 \\ 2 \\ 1 \\ 3 \\ 2 \\ 2 \\ 1 \\ 2 \end{array} \right\}$	4 4 1 9½ 5
			G	rade X	311			
Ele	English Chemistry Elocution Dressmaking Cooking Design (Interior Hygiene (Committee (Committee) Household Man Chemistry (Hective Foreign langua	munity lageme ousehul	) . it .		: : : : : : : : : : : : : : : : : : : :		$egin{array}{c} f 4 \\ 5 \\ 1 \\ 2 \\ 2 \\ 4 \\ 2 \\ 1 \\ 2 \\ 1/2 \\ \end{array} gg\}$	4 5 1 8
	roreign langua	ige .	•	٠	•	•	3	Э

# GENERAL COURSE

# Grade X

								Recitations	Points
	English .							4	4
	Eur. History	•	•			•	·	4	$\overline{4}$
	Elocution .			•				1	1
Ele	ctives								
	Latin (2) .							5	5
•	French (2)					•		5	5
	Spanish (2)		•	•		•		5	5
	German (1)							5	5
	Physics .		•					5	5
,	Biology .		•					5	5
	Man. Training		•					, 6	4
	Mec. Drawing	(2)						21/2	1
	Cooking (2)	•	•	•	•			4	2
	Dressmaking (	(2)	•	•	•	•	•	4	2
	Geometry .	•		•	•		•	5	5
	Commerce and	d Indi	astry			•		21/2	21/2
Opt	ional								
	Freehand Drav		•	•	•			21/2	1
	Mec. Drawing			•			•	21/2	1
	Penmanship				•	•	•	21/2	1

,		Gra	de XI			,	
English Mod. Eur. History Physiology .	•	•	•	•	•	4 4 1	4 4 1
Electives Latin (3) French (3) . Spanish (3) . Geometry (2) . Chemistry Bookkeeping (1) & Penmanship (1) Stenography (1) & Typewriting (1) Man. Training (3) & Mec. Drawing (3) Cooking (3) . Dressmaking (3)				•	•	5 5 5 2 ½ 5 5 2 ½ 5 6 2 ½ 4	5 5 5 2 ½ 5 1 5 2 ½ 4 1 2 2
Optional Freehand Drawing	•	•	•	•		21/2	1
	•	Grad	le XII			`	
773111-							
English U. S. History & Civ.		•	•	•	•	4 4	4
				•			

# COMMERCIAL COURSE

				Gr	ade 2	X			
								Recitations	Points
English						•	•	4	4
Elocution		•	•	•	•	•	•	1	1
Penmansh	ip (	(2)						21/2	1
Commerce	an	d Indu	stry		•	•		21/2	21/2

Electives							
Bookkeeping (2)	or.		•	•	•	5	5
Stenography (1)	& .			•	•	5	5
Typewriting (1)	•		•	•	•	5	$2\frac{1}{2}$
Spanish (2)				•	•	5	5
French (2) .	•	•	•	•	•	5	5
German (1) .		•	•			5	5
Physics		•	•		•	5	5
Man Training (2)	& .			•		6	4
Mec. Drawing (2)				•	•	$2\frac{1}{2}$	1
Optional							
Com. Drawing (2)						21/2	1

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

		Gra	ade X	1			
English				•		4	4
Elocution $(2)$ .			•	•		1	1
Physiology .						1	1
Penmanship (3)				• ,		$2\frac{1}{2}$	1
Electives							
Bookkeeping (3) or	•					5	5
Stenography (2) &					•	5	5
Typewriting (2)				•	•	5	$2\frac{1}{2}$
• Spanish (3) .		•		•	•	5	5
French (3) .				•	•	5	5
German (2) .				•	•	5	5
Commercial History			•	•		4	4
Mod. Eur. History			•	•	•	4	4
Chemistry .	•	•	•	•	•	5	5

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

		Grad	le XII				
English					•	4	4
U. S. History and Civ	•				•	4	4
Elocution (3).					•	1	1
Bus. Arithmetic (2)						21/2	$2\frac{1}{2}$
Penmanship (4)			•			21/2	1
Electives							
Bookkeeping (4) or						5	5
Stenography (3) &						5	5
Typewriting (3) or					•	5	21/2
Bus. Practice and Sa		anshi	p			21/2	21/2
Spanish (4) .	•		•		•	5	5
French (4)	•			•	•	5	5
Commercial Law	•				•	21/2	21/2

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

# PUBLIC LIBRARY.

### BOARD OF TRUSTEES.

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

J. FRANK WELLINGTON, Vice-President.

FREDERICK W. PARKER.

HERBERT E. BUFFUM, M. D.

WILLIAM L. BARBER.

GILES W. BRYANT, M. D.

CHARLES L. NOYES, D. D.

DAVID H. FULTON.

FRANK M. BARNARD

### COMMITTEES.

### On Administration.

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

### On Books and Cataloguing.

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

On Buildings and Property.

The President and the Vice-President.

Secretary of the Board.

GEORGE H. EVANS.

# ORGANIZATION OF LIBRARY AND STAFF PERSONNEL.

December 31, 1920.

GEORGE HILL EVANS, Librarian.

NELLIE M. WHIPPLE, Assistant Librarian.

VIVIAN J. MORSE, Executive Assistant.

### CENTRAL LIBRARY AND LIBRARIAN'S OFFICE.

Highland Avenue and Walnut Street.

#### GRADED SERVICE.

## Department Heads and Special Positions...

CORA B. EAMES, Reference Librarian.

EDITH B. HAYES, Chief Cataloguer.

MARY S. WOODMAN, Reviewer and Classifier.

ANNA L. STONE, Periodicals.

EDYTHE L. MILLER, High School Librarian.

NINA L. WINN, Librarian of Graded and Junior High Schools GLADYS B. HASTINGS, Children's Librarian.

### Senior Assistants.

MYRTLE NICHOLSON, Desk Chief.

Junior As	sistants.
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Circulation Department.

Circulation Department.

### UNGRADED SERVICE.

MAE L. GORMLEY, Circulation Department. BERNICE L. WATT, Catalogue Department. JESSIE E. BENNETT, Catalogue Department.

#### Attendants on Part Time.

ARTHUR HAYES RUTH HAYES DOROTHY A. JONES WILMOT W. JONES MYRTLE I. MINZNER EDITH TAYLOR

### WEST SOMERVILLE BRANCH.

Established 1909. 40 College Avenue.

#### GRADED SERVICE.

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

#### Senior Assistants.

RUTH L. SWETT, Children's Librarian.

Circulation Department.

### Junior Assistants.

EDNA L. HARTWELL, Circulation Department.

# UNGRADED SERVICE. Attendants on Part Time.

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NATALIE C. HAILWOOD MARION F. MACDONALD MARSTON C. SARGENT IRMA P. TRAPHAGEN RICHARD J. WALSH

### EAST SOMERVILLE BRANCH.

Established 1912. Broadway and Illinois Avenue.

GRADED SERVICE.

Branch Librarian

### Senior Assistants.

H. LUTHERA FISHER, 1st Assistant.

Children's Librarian

#### Junior Assistant.

OLIVE W. GLEASON, Circulation Department.

#### UNGRADED SERVICE.

Attendants on Part Time.

Annie Gilman Isabelle H. Hughes ELSIE L. KNOX
GERTRUDE L. McGLINCHY

### UNION SQUARE BRANCH.

Established 1912.
Washington Street and Bonner Avenue.

### GRADED SERVICE.

ALICE G. WORTHEN, Branch Librarian.

### Senior Assistants.

MARGUERITE C. KELLY, 1st Assistant.

Children's Librarian

### Junior Assistant.

Circulation Department.

### UNGRADED SERVICE.

MARY STACK, Page.

### Attendants on Part Time

GASPERO ALBANO

ALICE RUSSELL

LEOLA STROUT

### MEMBERS OF THE TRAINING CLASS.

MILDRED A. FULLER LUCY W. HARRIS MILDRED J. HESS ORPHA B. MATHESON MARION J. MESERVE ELEANOR A. RANDALL FLORENCE SEWALL

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

# Report of the Trustees.

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

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

Very respectfully,

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

### REPORT OF THE LIBRARIAN.

Gentlemen of the Board of Trustees:

The forty-eighth annual report of the Somerville Public

Library, for the year 1920, is herewith submitted.

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

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

significant proportions.

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

end this process leads. Your librarian would be derelict in his duty if he failed to direct attention to these features of our present condition.

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

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

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

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

Respectfully submitted,

George H. Evans,

Librarian.

# The Public Library of the City of Somerville.

APPENDIX A.

Growth.	
of Use and	Circulation
Statistics o	

			Oll culation.					
Volumes circulated, adult Volumes circulated, juvenile		4	Central 120,474 38,974	West 90,196 33,163	East 48,274 24,512	Union 32,317 37,018	Schools 7,680 43,427	Total 298,941 177,094
Total circulation (A. L. A. rules)	•		159,448	123,359	72,786	69,335	51,107	476,035
Volumes in library Dec. 31, 1919. Volumes transferred to		3,748 3,748 15 3,764 1,557 1,77		West 13,043	East 6,150 787 55 1 843 488	Union 993 142 1,136 628	6,033 6,645 254 17 6,916 9,389 254	Total 118,96 <i>9</i>
Total reductions Net gain Net loss	• • • •	8,055	48 831 4,291	342	770 73	251 879	$\begin{array}{c} 892 \\ 10,535 \\ 257 \end{array}$	3,619
Volumes in library, Dec. 31, 1920 .			89,452	13,385	6,223		6,290	115,350
Borrowers registered Dec. 31, 1919. Borrowers registered during year.			Registration. Central 3,474 2,953	West 3,444 2,042	East 1,543 905		Union 1,617 1,068	Total 10,078 6,968
Registration in force Dec. 31, 1920 . Population per capita cost of library	. <b>Exper</b> service	Expenditure	6,427 5,486 in Library Department 492 Circulation cost	5,486 ary Department. Circulation cost	2,448 per book lent		2,685	17,046

### APPENDIX B

American L	ibrary	Association	Form I	For	Uniform	Statistics.
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The Public Library of the City of Somerville, Mass.	
Population served	93,091.
Free for lending and free for reference	30,031.
Total number of agencies	. 207
Consisting of Central Library	. 201.
3 Branches	
High School Department	
190 School Rooms	
4 Institutions	
8 Playgrounds	
Number of days open during year for lending and for	
reading	304
Hours open each week for lending (Central Library).	72
Hours open each week for reading (Central Library).	72
Number on staff: regular full time positions . 34	
part time positions in whole units 6	40
Number of volumes at beginning of year	118,969
Number of volumes added during the year by purchase Number of volumes added by gift or exchange	6,090
Number of volumes added by binding material not	416
otherwise counted	410
Number of volumes withdrawn during the year	10,535
Total number at end of year	115,350
Adult Juvenile	Total
Number of volumes of fiction	
lent for home use 226,132 94,468	320,600
Total number of volumes lent	470 005
for home use	$476,035 \\ 6,968$
Number of borrowers registered during year Number of valid borrower's cards, December 31	17,046
Number of valid bollower's cards, December 31.  Number of newspapers and periodicals currently received	11,020
Titles	240
Copies	499
Copios	100
Receipts from:	
Local taxation	
Library Department \$40,313 54	
Public Buildings Department . 12,763 00	
Endowment Funds:	
Total credit 1,599 94 Fines	
Fines	
Other sources, Dog needs	

**\$59,200 94** 

### PUBLIC LIBRARY.

Payments for:		
Library Department:		
Books	9,491 78	
Pictures	<b>4</b> 3 <b>1</b> 3	
Periodicals	1,410 67	
Music	37 38	
Binding	2,969 51	
Salaries, library service	28,724 88	
Other maintenance	3,207 13	
Balance from Appropriation	13 86	
Balance from Endowment		
Funds	539 60	\
Public Buildings Department:		
Janitor service, heat, light, etc	12,248 58	
Balance	514 42	

\$59,200 94

### BOARD OF HEALTH

ORGANIZATION - 1920.

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

Clerk and Agent to Issue Burial Permits.

LAURENCE S. HOWARD.

Assistant Clerk. OLIVE M. STANLEY.

Agent.
George I. Canfield.

Medical Inspector and Bacteriologist. FRANK L. MORSE. M. D.

Inspector of Animals and Provisions.
CHARLES M. BERRY

Inspector of Milk and Vinegar. HERBERT E. BOWMAN.

Milk Collector. WILLIAM H. WALLIS.

Plumbing Inspector. Duncan C. Greene.

School Nurse.

ELLA B. HORNBROOKE, R. N. Resigned Nov. 1, 1920. GRACE M. ANDREWS, R. N. From Nov. 1, 1920.

Assistant School Nurse.

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

Health Nurses.

HELEN B. BERRY, R. N.

MARY L. SCOTT, R. N.

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

Assistant Matron at Contagious Hospital.

GLADYS HORNE, R. N. Resigned June 26, 1920.

Office of the Board of Health, City Hall Annex, January 1, 1921.

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

Gentlemen:—We respectfully submit the following as the forty-third annual report of the Board of Health in which is presented a statement, tabulated, and otherwise, of the sanitary condition of the city and the business of the board for the year ending December 31, 1920:

### Nuisances.

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

Complaints referred from 1919 Complaints received during 1920					$\begin{array}{c} 27 \\ 480 \end{array}$
a 111 a 11 door					507
Complaints referred to 1921.	•	•	•	•	26
Nuisances abated in 1920 .		•	•		481
Second and third notices sent Received during 1920	•	•		•	64 480
itegerved during 1920	•	•	•	•	
Total notices sent					544

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

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

### Record of Licenses and Permits Issued.

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

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

Hens.—One hundred and eight-five applications for permits to keep 2957 hens were received. One hundred and fifty-nine permits to keep 2559 hens were granted, and twenty-six permits were refused.

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

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

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

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

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

### Stables.

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

Applications pending fr Applications received d				7 15
Licenses granted . Licenses refused .			14 0	22
Licenses pending				

### Board of Infants.

Thirteen applications having been made to the State Department of Public Welfare for licenses to care for children in this city, were referred to this Board under Provisions of Chapter 83 of the Revised Laws of 1902. Twelve of these ap-

plications were approved for the care of twenty-four children and one was returned without the approval of this board.

Deaths.

There were 1137 deaths and sixty-four stillbirths in the city during the year, as specified in the following table, which shows an increase of deaths over the previous year of sixty-three.

Deaths at Somerville hospital	105
Deaths at hospital for contagious diseases and	
tuberculosis	34
Deaths at home for aged poor (Highland Avenue)	45
Deaths at city home	16
Deaths at other institutions	56

# Mortality in Somerville in 1920.

	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total
I. General Diseases.													1
(A. Epidemic Diseases.)													
nterior Poliomyelitiserebro-spinal meningitis									4	$\frac{2}{1}$			
piphtheria//	5	2 17	1	1		2	1			$\frac{1}{2}$	2	4	19
leasles					1							•••••	
ertussiscarlet Fever					3				1			$\frac{\cdots}{2}$	
yphoid Fever							1	•••••	1	1			
(B. Other General Diseases.)													
bscess			1									1	
ddisons disease	2	1									1		
ancer of breast		1		1		1				1	1	1	
ancer of intestinesancer of rectum	1	5		1				1	1	1	1		
ancer of stomach	1	4						3	1	3	$\frac{1}{2}$	1	1
ancer uterusancer other forms	3	6	8	5	1	4	7	$\frac{1}{2}$	6	2	$\frac{2}{2}$	$\frac{2}{2}$	4
ardio Renal diseaseiabetes	2		3			 1	$\frac{\ldots}{2}$	1		1	2		1
rysipelasernia				1	1	1							
lodgkins disease										1			
euchaemiaeuchaemia	$\frac{1}{2}$	2	2	1			1		1			1	
leurisy Progressive mus. atrophy				1				1					
epticæmia			1	1		1	1		1				
uberculosis pulmonary	$\frac{1}{2}$	7	4	5	9	4	9	$\frac{2}{2}$	2	4	4	8	6
uberculosis other forms	1			1	3			2	1	1			
I. Diseases of the Nervous System.													
poplexy	9	14	.8	8	6	8	9	4	5	9	12	9	10
clampsia			1										
ncephalitisedema of Brain						1				:			
aralysisemiplegia					1		1		1		2		
Ceningitis	1	2	1	1	2				2				
I. Diseases of the Circula-													
TORY SYSTEM.													
neurism of aorta				1				1			2	1	1
ngina pectorisndocarditis	1 1	$\frac{1}{2}$	1	3	1 4	1	1	1	$\frac{2}{2}$	4	3	1	2
eart diseaseesentery Thrombosis	9	10	9	7	4	1	12	4	4	9	12	7	8
yocarditis	5	8	1	5	4	1	3	î	4	1	5	4	4
egurgitation	4	5	3	1	3	1		1	1		4	1	2

# Mortality in Somerville in 1920. — Concluded.

	1	(	1	(		1					1	-	
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
IV. DISEASES OF THE RESPIRATORY SYSTEM.  Bronchitis	27	4 1 66 3	2  17 1	3 1 11 11	19	 3 1	3	1 1 1	5	3 1	9	7	16: 2 1 161 9
Appendicitis Cholangitis Cholecystitis Cirrhosis liver Colitis Enteritis Gall stones Gastritis Intestinal toxemia Intestinal obstruction Pancreatitis. Peritonitis		1	3 1 1	1 1	1 1	1	1	1 12	1 1 1 1 1		1 1	1	1 1 1 5 3 25 1 6 3 2 1 6
VI. DISEASES OF THE GENITO- URINARY SYSTEM.  Cystitis Hepatitis Nephritis Uræmia	3	1 3 1	5	5	2	 8 1	1  5 1	 4	1	3	7	4 	2· 1 50° 3,
VII. CHILDBIRTH.  Caesarian operation			1 1					1				1	1 1 2:
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES. Gangrene	1	1	•••••			1	1				-j		4:
Anacephalic		*****	1										1.
Asphyxia Neonatorum Atalectasis Forceps delivery Malnutrition Premature birth and congenital debility	1 8	4	2 6	1 5	1 1 3	2  1 6	2  7	1 1	2 4	1 4	2	1 10	3; 5 1 7 60
	1							3					

# Mortality in Somerville in 1920. — Concluded.

· ,	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November	December.	Total.
XI. OLD AGE.  Arterio sclerosis	19	20	11 1	3	17	5	4	4	11 1	9 1	9	13 2	125
Accidental burns from fire	1		1		1	1 2	1	1		1	1 1 1 1	1 1 1 1	6 2 4 4 1 1 1 2 1 1 3 6 4
Total	121	198	103	81	89	62	78	64	71	80	95	95	1137

# DEATHS BY AGES.

			AGES.					Total.	Male.	Female
Under one		•						152	90	62
One to two								31	15	16
Two to three								14	6	8
Three to four								7	2	5
Four to five								7	2	5
Five to ten								29	16	13
Ten to fifteen								10	6	4
Fifteen to twent	v							17	5	12
Twenty to thirty								55	14	41
Thirty to forty					•			63	34	29
Touter to Class								84	40	44
Fifty to sixty								151	81	70
Sixty to seventy	,			Ž				167	78	89
Seventy to eight			·					215	93	122
Eighty to ninety			·	:	•	:	•	119	39	80
Ninety and over		•	·	•	•			16	7	9
			•	<u> </u>	<u> </u>		•			J
Total .	•						•	1137	528	609

Table of Deaths Du	ring the l	Last Ten	Years.
--------------------	------------	----------	--------

											Rate
										No. of	per
Year.										Deaths.	1,000
1911			,	•	•	•	•		•	1,035	12.93
1912					•	•			•	983	12.13
1913				•	•			•		993	12.11
1914	•			•	•	•	•			990	11.65
1915	•		•	•	•	•	•			1,003	11.55
1916	•			•	•	•	•	•	•	1,081	12.01
1917	•		•		•	•	•	•	•	1,067	11.85
1918,		h .		•	•	•	•	•		1,533	16.84
1919						•	•	•		1,074	11.30
1920						•				1,137	12.22
Average	death	rate	per	1,000	for	ten	years	. `			12.45

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

PNEUM	IONIA.		TERIO EROSIS	APOPLEXY.			ART EASE.	CANCER ALL FORMS.		
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.	
161	17.30	125	13.42	101	10.87	88	9.46	87	, 9.35	

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Scarlet Fever,	
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Deaths from	
Deaths	

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	1920	8749514048748	<b>69</b> C
	6161	9012 9012 9012 9012 9012 9013 9013	90
SIS	416I	424208489241	85 84
I SMS	1	291100481801 0108481801	108 8
FUBERCULOSIS ALL FORMS.	9161		
BEI	9161	800 800 800 800 800 800 800 800 800 800	74
I G	₱16I	840088798974	95
	8191	600887774064	87
	1912	21.10 4 81 10 2 6 9 9 2 9 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	91
	1161	100 110 110 110 110 110 110 110 110 110	8
	1920		3
ai	6161	<u></u>	<u>                                    </u>
FEVER.	8161		9
(E)	<u> </u>		
[ A	9161	222: 1: 21: : : :	=
IOI	#16I		6.1
YPE	8161	: : : : : : : : : : : : : : : : : : : :	9
H	7161		4
	1161	11:::::::::::::::::::::::::::::::::::::	9
	1920	700 :H : 20 H : : 100 4	19
	6161	:::::::::::::::::::::::::::::::::::::::	91
	8161	8884 :	61
IA	4161	-4m-4-0m0	72
E	9161	884-81 : :88	21
	9161	4-0 :0 :-0 : :0 :	18
IPE	₱16I	HU : :4401004	25
D O	8191	[480   LLT   LT   LT   LT   LT   LT   LT	55
	1912	: . : . :	14
1	1161		15
	1920	:::::::::::::::::::::::::::::::::::::::	ಯ
1 .:	6161		
'EE	8161		
FEV	2161	<del></del>	
	9161	::	4
SCARLET	916I   16I	2: 1: 1.12321: :	=
AI	8161		41
N N	1912	<del>- : - : : - : : : : : : : : : : : : : :</del>	2
	1161	- :- : : : : : : : : : : : : : : : : :	m
	1		:
		*	
	SH		i
	Months.		
	M		
			:
		y Lry Lry the r	Total
		January February February March May June July August September October November	To
H		ann eebr far fay und ug eept eept eece	
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Table Showing Comparison Between 1919 and 1920 in Prevalence, Deaths Reported and Percentage of Deaths of Scar-

(I	1		1
MS.	of Deaths.	1920	25.00 100 100 26.6 60.0 70.0 28.3 28.3 38.3 38.3 37.5 47.0
L FORMS.	Percentage	1919	100.9 568.3 560.0 35.3 34.6 47.8 50.00 100.00 40.00 16.66 16.66
S AL	Deaths.	1920	81-40514048048
TOSI	Number of	1919 1920	00 00 00 00 00 00 00 00 00 00 00 00 00
TUBERCULOSIS ALL	Reported.	1920	12 15 16 17 17 17 18 18 18 18
Tul	Cases	1919	221 44 12 23 28 28 28 29 10 10 10 10 10 10 10 10 10 10 10 10 10
	or Deams.	1920	.255 .33 .16
FEVER.	Percentage of Deaths.	6161	.50
	Deaths.	1920	
TYPHOID	Number of	1919	
T	Reported.	1920	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Cases	1919	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	of Deaths.	1920	22.2 22.2 22.2 12.5 12.5 20.0 66.6 66.6 11.7 17.3 15.2
[A.	Percentage	1919	8.55 3.1.7 1.0. 2.9
HERI	Deaths.	1920	22 : 1 : 21 : 22 <del>4</del> 61
DIPHTHERIA	To redminN	1919	9 2 2 2 3 3
Ω	Reported.	1920	22 9 9 9 9 16 16 16 16 17 17 12 12 12 12 12 12 12 12 12 12 12 12 12
	Cases	1919	35 35 35 35 35 17 17 17 17 20 20 20 20 20 20 20 20 20 20 20 20 20
	of Deaths.	1920	2.9
FEVER.	Бетсептаже	1919	, το σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ
	Deaths.	9 1920	
SCARLET	To radmuN		22.233 22.233 23.25 24.25 25.25 26.25 27.2
Sc	Cases Reported.	1919 1920 191	ñ
		191	264 272 272 272 272 273 274 274 274 274 274 274 274 274 274 274
	Months,		January Februairy Februairy April May June July September October November December Total

### Diseases Dangerous to the Public Health.

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

### Specimens and Supplies.

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

R. A. Peckham, 154 Perkins street.

Edward Edwards, 25 Union square.

Willis S. Furbush & Co., 1153 Broadway.

Hall Drug Co., Hobbs building, Davis square.

Ernest B. McClure, 529 Medford street.

John Morrison, 288 Highland avenue.

Richardson Pharmacy, 310 Broadway.

George E. Wardrobe, 693 Broadway.

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

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

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

### Medical Inspection of Schools.

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

in making the system as successful as possible.

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

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

The districts and inspectors are as follows:—

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

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

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

Dr. Raymond resigned December 1, 1920, and Dr. Walter Jellis, 1028 Broadway, was appointed in his place to assume his duties January 1, 1921.

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

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

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

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

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

During the year, 17,337 children have been referred to the inspectors during their daily visits, and 672 have been sent home because of illness.

The following list will show the classes of diseases and defects which have been found in the schools, except defects of sight and hearing:—

## List of Diseases and Number of Cases Reported.

1.	Infectious diseases:—							
	Chicken pox .						32	
	Infantile paralysis						1	
	Influenza					•	$1\overline{0}$	
	Measles						38	
	Mumps						72	
	Scarlet fever .						17	
	Tuberculosis .						28	
	Whooping cough	Ĭ					11	
		·			Ť	·		
	Total	•	•	•	•			209
2.	Diseases of the nose and	throat	:					
	Enlarged tonsils a						1014	
	Inflammatory disea		•				190	
	Other abnormal co		s . •		•		19	
	Total							1223
3.	Diseases of the eyes:-							
	Inflammatory cond	itions					67	
	Foreign bodies .						6	
	Other abnormal c	onditio	ns		• •		22	
	Total	•		•		•		95
4.	Diseases of the ears:—		- 4					
	Inflammatory cond	litions		•	•		33	
	Other abnormal c	onditio	ns	•	•	•	12	
	Total	•	•	•	•	•		45
_	5.							
<b>5</b> .	Diseases of the skin:—							
	Eczema	•	•	•	•	•	43	
	Herpes	•	•	•	•	•	42	
	Impetigo	•	•	•	•	•	133	
	Pediculosis .	•	• ,	•	•	•	577	
	Scabies	•	•	•	•		58	
	Tinea		•	•	•		24	
	Miscellaneous cond	litions	•			•	157	
	Total	•	•	•	•	•		1034

6.	Miscellaneous diseases:—				
•	Diseases of the circulatory system			6	
	Diseases of the digestive system			55	
	Diseases of the lymphatic system			51	
	Diseases of the nervous system			17	
	Diseases of the respiratory system		•	199	
	Wounds and injuries			57	
	Diseases of the teeth		•	419	
	Other conditions		•	37	
	Total	•			841
				-	
	Total number of diseases repor	ted	•		3447
	Vaccinations performed				48
	Examinations for vaccinations.				792
	Certificate to work				150

### Bacteriological Department.

The report of the work of this department is made by Frank L. Morse, M. D., on a subsequent page and becomes a part of this report.

### Undertakers.

Under the provisions of Section 44 of Chapter 78 of the Revised Laws of 1902, twenty-two persons have been duly licensed as undertakers.

### Examination of Plumbers.

The public statutes provide for a board of examiners of plumbers, consisting of a chairman of the board of health, the inspector of buildings, and an expert at plumbing, to be appointed by the board of health. This board appointed Duncan C. Greene, the inspector of plumbing, to fill the place of expert. The number of licenses granted will be found in the report of the inspector of buildings.

### Health Nurses.

There are at present four nurses employed by this Board. Two of these are employed as school nurses and the work of the others, consists of follow-up work regarding tuberculosis cases and post-natal baby hygiene work.

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

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

Board of Health.

### Attest:

LAURENCE S. HOWARD, Clerk.

### REPORT OF HEALTH NURSES.

Somerville, Mass., January 1, 1921.

To the Board of Health, Somerville, Mass.

### Gentlemen:-

We submit the following report of work performed by us in infant hygiene, post natal and tuberculosis cases for the year ending December 31, 1920.

### Infant Hygiene.

Infants reported as born in Somerville during 1920 Infants born elsewhere resident in Somerville.	. 1740 . 263
Pairs of twins born in Somerville	. 21
Still-births in Somerville	. 64
Infants who moved away from Somerville	. 102
Infants artificially fed before eight months old	700
Infants artificially fed before six months old.	. 500
Infants artificially fed before one month old.	. 200
Infants afflicted with Ophthalmia Neonatorum	. 17
Infants afflicted with Conjunctivitis	. 11

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

	NATIONALITY OF PARENTS								
Causes of Death	American.	Irish.	Italian.	Portugese.	Swedish.	Greek.	Total.		
Premature births	18 18 16 7	15 20 17 8	6 3 4 7	2	2	5	43 46 37 26		
Totals	59	60	20	2	2	9	152		

HEALTH DEPARTMENT.	229
Infants who died who were on breast feeding alone at time of death	18
Infants who died who were artificially fed at time of death	45
Infants who died who were both artificially and breast fed at death	9
Boarding places for babies inspected	<b>1</b> 2
Welfare Clinics	400 8709
Tuberculosis.	
Pulmonary tuberculosis cases reported in 1920.  Other forms of tuberculosis reported in 1920.	164 20
Patients admitted to Sanatoria	55
Patients previously reported in Sanatoria	33 52
Patients now in Sanatoria	52
Patients who have moved away from the city	25
Patients now living in Somerville	<sup>*</sup> 288 <b>26</b>
Deaths from tuberculosis	69
In Sanatoria 52	
At Home	
	1
Homes where there is or has been tuberculosis where	69
there are school children	
Previously reported 199	
Found this year 54	
	253
Children in homes where there is or has been tuber-	
culosis. Reported to School Department.	
Previously reported 360	
Found this year 95	
·	455
Houses from which second and third reports of tuber-	
culosis have come.	
Previously reported	
I IIIS year	
	45

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

Ages	Sı	EX	Total	
	Male	Female		
Under fifteen years	11 5 27 23 40	8 15 31 23 27	19 20 58 46 67	
Total	106	104	210	

### Other Forms of Tuberculosis.

Ages	S	EX	Total
	Male	Female	
Under fifteen years From fifteen to twenty From twenty to thirty years From thirty to forty years Over forty years	5 5 5 4 2	7 6 10 4 6	12 11 15 8 8
Total	21	33	54
Patients in Somerville Pulmonary 210 Ot Total visits made to Tuberculosis p		ıs 54 Suspe	ets 31 295 1012
Miscellan	eous.		
Typhoid Fever cases reported (died 3 Total miscellaneous visits	3) .		16 79
Recapitulation	of Visit	s.	
Baby Hygiene Tuberculosis			8709 1012 79
Total visits			9800

Respectfully submitted, H. B. Berry, M. L. Scott,

Health Nurses.

### REPORT OF DEPARTMENT OF MEDICAL INSPECTION.

Somerville, Mass., January 1, 1921.

To the Board of Health, Somerville, Mass.

### Gentlemen:

I herewith present the report of the Department of Medical Inspection for the year 1920 including statistics of the Contagious Disease Hospital.

### Visits.

Scarlet Fever — Each case must be inspected before release	
from quarantine to see that the condition of the patient	
is suitable for release	186
Diphtheria — Before patients are released from quarantine two	
successive negative cultures must be obtained	73
Contagious Hospital	361
Total number of visits	620

### Contagious Disease Hospital.

				Discharged		In Hospital
	]	In Hospital	Ad-	Well		Jan.
Diseases		Jan. 1, 1920	mitted	or improved	Dead	1, 1921
Diphtheria .		2	82	69	15	0
Scarlet Fever		4	58	59	1	<b>2</b>
Tuberculosis .		15	30	22	14	9
Miscellaneous		0	15	10	4	1

The daily average of patients was 7.6 in the contagious department, 11.37 in the tuberculosis department, a total of 18.97.

### LABORATORY EXAMINATIONS.

				Dipl	hther	ia.			
				·			Negative	Positive	Total
January		•	•	•	•	•	94	31	125
February	•	•	•		•	•	72	3	75
March	•	•	•	•	•		79	6	85
April	•	•	•	•	•	•	79	22	101
May .	•	•	•	•	•		43	15	58
June .	•	•	•	•	•		39	12	51
July .	•	•	•	•	•	•	55	4	<b>5</b> 9
August	•	•	•	•	•		28	2	30
September		•	•	•	•		25	0	25
October	•	•	•	•	•	•	30	0	30
November		•	•	•		•	70	4	74
December	•	•	•	•	•	•	107	$\cdot^{12}$	119
Totals		•	•				721	111	832

### Tuberculosis.

							Negative	Positive	Total
January							18	13	31
February							19	4	23
March			·				13	5	18
April	Ì					·	18	9	$\frac{10}{27}$
May .						•	18	6	24
June .	·		•	·		Ž	16	9	25
July .	·						7	6	13
August			·		·	Ţ	1i	$\overset{\circ}{2}$	13
September	Ť					·	14	5	19
October		·	·			Ť	13	10	23
November	·			Ţ		Ĭ	9	7	16
December		·	•		•		$2\overline{5}$	5	30
December	•	•	•	•	•	•			
Totals	,						181	81	262
_ 0 0000	·	·	·	·	·	·			
•				_					
				Ty	phoid	•	37 /		m ( )
							Negative	Positive	Total
January	•	٠.	•	•	•	•	2	0	2
February					•	•	5	0	5
March		•			•	•	3	0	3
April							6	0	6
May .		•	•				3	0	3
June .			•				4	0	4
July .				•		•	12	0	12
August						•	5	0	5
September			•			•	12	0	12
October						•	12	1	13
November		•					5	0	5
December				•			3	0	3
Totals		•				•	72	1	73
Examination									
thalmia,	Para	atyph	noid, G	onor	rhea	and		`	
Pneumor	nia		•						15
Total	exan	ninat	ions	•,		•			1182

Respectfully submitted,
FRANK L. Morse,
Medical Inspector and Bacteriologist.

### REPORT OF THE INSPECTOR OF ANIMALS AND PROVISIONS.

Somerville, Mass., January 1, 1921.

To the Board of Health, Somerville, Mass.

### Gentlemen:-

I submit the following as my report for the year ending December 31, 1920.

### Inspections.

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

All the factories in the city have been inspected monthly. The Barber Shops are under very careful inspection and must be kept in a sanitary condition and the barbers are required to keep themselves neat and clean and to properly sterilize their instruments.

### Number of Inspections.

Bakeries	284	Premises where Cows are	
Barber Shops	331	kept	10
Billiard Halls and Bowling		Premises where Goats are	
Alleys	157	kept	11
Blacksmith's Shops	17	Public Halls	31
Candy and Ice Cream		Rendering Plants	154
Plants	225	Slaughter Houses	421
Factories	242	Stores and Markets	5114
Fish Markets	586	Stables	272
Hen Houses and Yards .	412	Swine Pens	26
Lunch Rooms and Cars.	525	Theatres	142
Milk and Cream Plants .	156	Vacant Lots	62
Pedlers Wagons and Stock	2449	Yards and Cellars	279

### Articles Condemned.

Owing to market conditions dealers have been obliged to purchase very conservatively and, therefore, no large surplus has been carried by any dealer.

The following is a list of the articles condemned.

		Fisl	h			
Clams		FISI	i.			1 Bush.
Finnan Haddie	•′	•	•	•	•	12 Lbs.
Haddock .	·	·	•	•	·	125 Lbs.
Halibut	•	•	•	•	•	24 Lbs.
Lobsters .	•	•	•	•	•	19 Lbs.
Mackerel .	•	•	•	•	•	39 Lbs.
Salmon .	•	•	•	•	•	24 Lbs.
Saimon .	•	Frui	+	•	•	24 Lus.
Apples		1 1 41	· • •			3 Bush.
Bananas .	•	•	•	•	•	5 Bush. 15 Doz.
Blackberries .	•	•	•	•	•	
	•	•	•	•	•	•
Blueberries .	•		•	•	•	12 Qts.
Canteloupes .	•	• `	•	•	•	14 Crates
Grape Fruit	•	•	•	•	•	16½ Boxes
Grapes	•	•	•	•	•	12 Baskets
Lemons	•	•	•	•	•	2 Boxes
Oranges .	•	•	•	•	•	5 Boxes
Raspberries .	•	•	•	•	•	16 Cups
Strawberries	•	•	•	•	•	92 Qts.
		Meat	s.			
Poof (comod)						267 Tha
Beef (corned)	•	•	•	•	•	367 Lbs. 113 Lbs.
Beef (fresh).	•	•	•	•	•	465 Lbs.
Fowl	•	•	•	•	•	
Lamb	•	•	•	•	•	438 Lbs.
Liver	•	•	•	•	٠	53 Lbs.
Pork (fresh) .	•	•	•	•	٠	12 Lbs.
Sausages .	•	•	•	•	•	25 Lbs.
Shoulder (Corned)		•	•	•	٠	14 Lbs.
Veal	•	•	•	•	•	152 Lbs.
Veal (whole)	•	•	•	•	•	11/4
	Ve	egeţal	oles.			
Asparagus .						82 Bunches
Beans (string)						8 Bush.
Beans (string)	Ĭ				Ì	5 Baskets
Beans (string)						3 Crates
Beets						3 Bush.
Carrots		•		į	į	½ Bush.
Cauliflower .	•	•			Ċ	2 Boxes
Celery	•		·		Ĭ	1 Box
Greens	•	•	•	•	Ů	7 Bush.
Lettuce .	•	•	•	•	•	4 Bush.
Lettuce .	•	•	•	•	٠	4 Bush.
Lettuce	•	•	•	•	•	2 Doz.
Parsnips .	•	•	•	•	•	2 Doz. 1 Box
Potatoes (white)	•	•	•	•	•	13 Bush.
	•	•	•	•	•	3 Baskets
Potatoes (white)	•	•	•	•	•	
Potatoes (white)	•	•	•	•	•	4 Bags
Potatoes (sweet)	•	•	•	•	•	1 Basket
Squash	•	•	•	•	•	6 Bbl.
Tomatoes .	•	•	•	•	•	5 Bush.
Turnips .	•	•	•	•	•	10 Bush.

### Slaughter Houses.

During the year weekly inspections have been made at all slaughtering establishments and these plants were never in a more sanitary condition than at present.

The number of animals slaughtered during 1920 in this city.

was somewhat less than during previous years.

	N	umber	OT	Animais	51	augntei	rea ir	1 1920.	
Swine	•	•					•		898,723
Sheep	•			•					262,752
Calves				•					97,110
Cattle	•	•		•			•		31,555
									1,290,140

# Examination of Animals for Contagious Diseases. Glanders.

There has been a steady decrease of glanders in this city for several years which I believe is largely due to a thorough inspection and disinfection of stables and blacksmith shops, and to the discontinuance of public drinking fountains for horses. Every stable and blacksmith shop in the city is in first class condition.

In 1913 there were 55 horses killed for glanders; in 1914 thirty; in 1915 ten; in 1916 thirteen; but eight of these were in one stable; in 1917 nine; in 1918 seven; in 1919 only three were killed and in 1920 not a case of glanders was reported, thus showing a very marked decrease in the disease.

### Animals Examined.

				Quaran-		
			Inspected	tined	Killed	Released
Horses		•	2092	0	0	0
Swine	•		309	0	0	0
Cows			10	0	0	0
Goats	•		8	0	0	0
Dogs	•		2	2	0	2
					<del></del>	<del></del>
			2421	2	0	2

Respectfully submitted,

CHARLES M. BERRY,
Inspector of Animals and Provisions.

### REPORT OF THE INSPECTOR OF MILK AND VINEGAR.

Chemical and Bacteriological Laboratory, City Hall Annex

> Somerville, Mass., January 1, 1921.

To the Board of Health, Somerville, Mass.

Gentlemen:—

I herewith present my annual report for the year ending December 31, 1920.

On the above date there were in this city licensed to sell milk, 490 stores and 50 dealers, and 145 stores to sell oleomargarine.

Of the 50 dealers 22 are located in this city and 28 in the neighboring cities and towns, and 3 dealers have discontinued business.

There are approximately 28,000 quarts of milk and 2100 quarts of cream distributed in Somerville daily, and 16 dealers are pasteurizing their milk according to Revised Laws Chapter 259, Acts 1917.

Three dealers discontinued business, 3 new dealers (distributors) applied for a license and there are 6 dealers who handle cream exclusively.

Table 1.

Months.	Licenses Issued.	Licenses Issued. License Pees.		Cash Paid City Treas.	Analyses on Account.	Total Income for Dept.	
January	19	9.50		9.50	12.00	21.50	
February	9	4.50		4.50	2.00	6.50	
March	13	6.50	3.00	9.50	18.50	28.00	
April	12	6.00	1.50	7.50	53.50	61.00	
May	394	197.00	2.00	199.00	40.50	239.50	
June'	125	62.50	9.00	71.50		71.50	
July	19	9.50	1.50	11.00	17.50	28.50	
August	12	6.00	11.00	17.00	27.50	44.50	
September	12	6.00	13.50	19.50	23.00	42.50	
October	29	14.50	1.50	16.00	22.00	38.00	
November	28	14.00		14.00	6.00	20.00	
December	13	6.50		6.50	22.50	29.00	
Total	685	342.50	43.00	385.50	245.00	630.50	

Income from license fees, analytical work,	etc.			\$630 50
Witness fees returned to City Treasurer				21 80
Fines in Somerville Court				355 00
Total income for department.		•		1007 30

Table 2.

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

Months.	Chemical Samples Collected.	Bact. Collections.	Lorenz Tests.	Total Collections.	Samples left at Office.	Total Examina- tions.
January	100	80	16	196	22	218
February	155	43	71	269	4	273
March	$2\overline{12}$	33	35	280	36	316
April	$2\overline{24}$	180	38	442	107	549
May	210	46	64	320	75	395
June	271	37	51	359	18	377
July	200	42	48	290	34	324
August	134	36	36	206	72	278
September	$\frac{262}{262}$	135	37	434	70	504
October	$\frac{217}{217}$	35	40	292	37	329
November	244	40	44	328	12	340
December	230	58	38	326	40	366
Total	2459	765	518	3742	527	4269

Table 3.

Months.	Chemical Notices.	Bact. Notices.	Sanitary Notices.	Temperature Notices.	Total Notices.	Inspections.
January	2 8 6 11 19 23 12 26 12 7 2		17 3 3 1 9 4 11 8 7 · 2 6 4	4 22 6 8	19 15 11 19 44 54 36 54 31 17 11	21 19 8 11 23 16 40 28 16 25 10 30
Total	135	95	75	40	345	247

The above is a summary of the Laboratory Work during 1920.

Each month during the year pint samples have been taken from every milk dealer and analyzed for food value (fats and solids) and cleanliness (bacterial count and sediment) and the yearly average is shown in the alphabetical list of dealers which follows:

Butter Fat Total Solids Maximum   Legal   Legal   Allowed   Standard Standard Raw 500,000   or   Name of Dealer   3.35%   12.00%   Past. 100,000   Past. Brandon Farms Milk Co.   3.70   12.26   415,000   Past. John H. Bergman   3.68   12.37   330,000   Raw H. E. Bemis   3.77   12.37   175,000   Past. E. E. Breen   3.60   12.16   122,000   Past. John H. Dillon   3.64   12.16   79,000   Past. John H. Dillon   3.64   12.16   79,000   Past. John H. Dillon   3.64   12.16   79,000   Raw F. C. Edgerly   3.67   12.23   237,000   Raw F. C. Edgerly   3.67   12.23   237,000   Raw J. F. P. Gassett   3.56   12.04   298,000   Raw J. P. Griffin   3.66   12.19   447,000   Raw J. P. Griffin   3.66   12.19   447,000   Raw J. P. Griffin   3.73   12.28   354,000   Raw J. P. Griffin   3.73   12.28   354,000   Raw J. P. Griffin   3.73   12.28   354,000   Raw J. P. Griffin   3.75   12.29   170,000   Past. M. B. Harris   3.65   12.13   375,000   Raw J. P. Hood & Sons   3.64   12.18   48,000   Past. M. P. Hood & Sons   3.64   12.18   48,000   Past. Kendall Brothers   3.69   12.24   161,000   Raw J. J. Mulkerin   3.60   12.22   300,000   Raw W. E. M. Monahan   4.07   12.60   287,000   Raw W. E. M. Monahan   4.07   12.60   287,000   Raw W. E. M. Monahan   4.07   12.60   287,000   Raw W. F. Noble   4.14   12.84   36,000   Past. M. P. Pastughnessy   3.69   12.21   162,000   Raw W. F. Noble   4.14   12.84   36,000   Past. M. P. Shattuck   3.65   12.09   171,000   Raw W. F. Noble   4.14   12.84   36,000   Past. Seven Oaks Dairy Co   3.85   12.47   102,000   Raw W. Thomas Ronayne   3.86   12.35   257,000   Raw W. Thomas Ronayne   3.86   12.35   257,000   Raw W. Thomas Ronayne   3.86   12.35   257,000   Raw W. Thomas Ronayne   3.85   12.47   102,000   Past. F. P. Thompson & Son   3.75   12.24   284,000   Raw W. Thomas Ronayne   3.85   12.47   102,000   Past. F. P. Thompson & Son   3.75   12.24   284,000   Raw W. P. Shattuck   3.65   12.09   171,000   Raw W. Thomas Ronayne   3.85   12.47   102,000   Past. F. P. Thompson & Son   3.75   12.24		Bacteria Per			C.
Name of Dealer   Standard   Standard   Raw 500,000   Past   100,000   Raw	. '	<b>Butter Fat</b>	Total Solid	ls Maximum	
Name of Dealer   3.35%   12.00%   Past. 100,000   Past. Brandon Farms Milk Co.   3.70   12.26   415,000   Past. John H. Bergman   3.68   12.37   330,000   Raw H. E. Bemis   3.77   12.37   175,000   Past. E. E. Breen   3.60   12.16   122,000   Past. E. E. Breen   3.60   12.16   122,000   Past. E. E. Breen   3.64   12.16   122,000   Past. E. E. Breen   3.67   12.34   122,000   Past. E. E. G. Commings Co.   3.72   12.34   122,000   Past. E. G. Commings Co.   3.72   12.34   122,000   Past. E. G. Commings Co.   3.64   12.16   79,000   Raw F. C. Edgerly   3.67   12.23   237,000   Raw F. C. Edgerly   3.67   12.23   237,000   Raw F. C. Edgerly   3.66   12.94   298,000   Raw F. C. Edgerly   3.71   12.27   75,000   Raw F. E. Giles   3.84   12.15   42,000   Past. F. E. Giles   3.65   12.13   375,000   Raw H. P. Hood & Sons   3.64   12.18   48,000   Past. Kendall Brothers   3.65   12.13   375,000   Raw H. P. Hood & Sons   3.64   12.18   48,000   Past. Kendall Brothers   3.69   12.24   161,000   Raw F. Maple Farm Milk Co.   3.76   12.36   191,000   Past. F. N. Cole   4.14   12.84   36,000   Past. P. O'Shaughnessy   3.69   12.23   329,000   Raw F. N. A. Prescott   3.68   12.24   181,000   Past. S. E. Paige   3.69   12.21   162,000   Raw F. H. A. Prescott   3.68   12.24   181,000   Past. Seven Oaks Dairy Co   3.85   12.43   143,000   Raw Thomas Ronayne   3.66   12.29   171,000   Raw Thomas Ronayne   3.86   12.35   257,000   Raw Thomas Ronayne   3.86   12.25   160,000   Raw F. P. P. Thompson & Son   3.75   12.24   284,000   Past. F. P. Thompson & Son   3.75   12.24   284,000   Raw Turner Centre Cr. Co.   4.11   12.84   59,000   Past. F. P. Thompson & Son   3.75   12.24   284,000   Raw Turner Centre Cr. Co.   4.11   12.84   59,000   Past. F. P. Thompson & Son   3.75   12.24   284,000   Raw Turner Centre Cr. Co.   4.11   12.84   59,000   Past. P. C. A. W		Legal	Legal	Allowed	Past.
A. H. Andrews 3.69 12.21 84,200 Past. Brandon Farms Milk Co. 3.70 12.26 415,000 Past. John H. Bergman 3.68 12.37 330,000 Raw H. E. Bemis 3.77 12.37 175,000 Past. E. E. Breen 3.60 12.16 122,000 Past. F. S. Cummings Co. 3.72 12.34 122,000 Past. *John H. Dillon 3.64 12.16 79,000 Raw F. C. Edgerly 3.67 12.23 237,000 Raw F. C. Edgerly 3.67 12.23 237,000 Raw J. E. & H. J. Giroux 3.71 12.27 75,000 Raw J. E. & H. J. Giroux 3.71 12.27 75,000 Raw *B. J. Griffin 3.66 12.19 447,000 Raw T. C. Edgerly 3.67 12.28 354,000 Raw *B. J. Griffin 3.66 12.19 447,000 Raw *B. J. Griffin 3.66 12.19 447,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. *M. B. Harris 3.65 12.13 375,000 Raw *Kendall Brothers 3.69 12.24 161,000 Raw J. J. Mulkerin 3.60 12.22 300,000 Raw *E. M. Monahan 4.07 12.60 287,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. W. F. Noble 4.14 12.84 36,000 Past. P. O'Shaughnessy 3.69 12.23 329,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.23 329,000 Raw *Thomas Ronayne 3.86 12.24 181,000 Past. S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.25 110,000 Raw *Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Swenson Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Swenson Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Swenson Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Swenson Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Swenson Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *E. L. Tyler 3.53 11.97 336,000 Ra		Standard	Standard	Raw 500,000	or
Brandon Farms Milk Co.         3.70         12.26         415,000         Past. John H. Bergman         3.68         12.37         330,000         Raw           H. E. Bemis         3.77         12,37         175,000         Past.         E. E. Breen         3.60         12.16         122,000         Past.           E. E. Breen         3.60         12.16         122,000         Past.         Past.           F. S. Cummings Co.         3.72         12.34         122,000         Past.           *John H. Dillon         3.64         12.16         79,000         Raw           F. C. Edgerly         3.67         12.23         237,000         Raw           *A. F. P. Gassett         3.56         12.04         298,000         Raw           J. E. & H. J. Giroux         3.71         12.27         75,000         Raw           *B. J. Griffin         3.66         12.19         447,000         Raw           *B. J. Griffin         3.73         12.28         354,000         Raw           *J. P. Griffin         3.75         12.29         170,000         Past.           *J. M. Hager         3.75         12.29         170,000         Past.           Kendall Brothers         3.69	Name of Dealer	3.35%	12.00%	Past. 100,000	Raw
Brandon Farms Milk Co.         3.70         12.26         415,000         Past. John H. Bergman         3.68         12.37         330,000         Raw           H. E. Bemis         3.77         12,37         175,000         Past.         E. E. Breen         3.60         12.16         122,000         Past.           E. E. Breen         3.60         12.16         122,000         Past.         Past.           F. S. Cummings Co.         3.72         12.34         122,000         Past.           *John H. Dillon         3.64         12.16         79,000         Raw           F. C. Edgerly         3.67         12.23         237,000         Raw           *A. F. P. Gassett         3.56         12.04         298,000         Raw           J. E. & H. J. Giroux         3.71         12.27         75,000         Raw           *B. J. Griffin         3.66         12.19         447,000         Raw           *B. J. Griffin         3.73         12.28         354,000         Raw           *J. P. Griffin         3.75         12.29         170,000         Past.           *J. M. Hager         3.75         12.29         170,000         Past.           Kendall Brothers         3.69			4004		
John H. Bergman         3.68         12.37         330,000         Raw           H. E. Bemis         3.77         12.37         175,000         Past.           E. E. Breen         3.60         12.16         122,000         Past.           F. S. Cummings Co         3.72         12.34         122,000         Past.           *John H. Dillon         3.64         12.16         79,000         Raw           F. C. Edgerly         3.67         12.23         237,000         Raw           *A. F. P. Gassett         3.56         12.04         298,000         Raw           J. E. & H. J. Giroux         3.71         12.27         75,000         Raw           *B. J. Griffin         3.66         12.19         447,000         Raw           J. P. Griffin         3.73         12.28         354,000         Raw           *J. M. Hager         3.84         12.15         42,000         Past.           *J. M. Hager         3.75         12.29         170,000         Past.           Kendall Brothers         3.65         12.13         375,000         Raw           H. P. Hood & Sons         3.64         12.18         48,000         Past.           Kendall Brothers <td></td> <td></td> <td></td> <td></td> <td></td>					
H. E. Bemis 3.77 12.37 175,000 Past. E. E. Breen 3.60 12.16 122,000 Past. F. S. Cummings Co. 3.72 12.34 122,000 Past. John H. Dillon 3.64 12.16 79,000 Raw F. C. Edgerly 3.67 12.23 237,000 Raw A. F. P. Gassett 3.56 12.04 298,000 Raw J. E. & H. J. Giroux 3.71 12.27 75,000 Raw B. J. Griffin 3.66 12.19 447,000 Raw J. P. Griffin 3.73 12.28 354,000 Raw F. E. Giles 3.84 12.15 42,000 Past. J. M. Hager 3.75 12.29 170,000 Past. J. M. Hager 3.75 12.29 170,000 Past. J. M. Hager 3.65 12.13 375,000 Raw H. P. Hood & Sons 3.64 12.18 48,000 Past. Kendall Brothers 3.69 12.24 161,000 Raw J. J. Mulkerin 3.60 12.22 300,000 Raw E. M. Monahan 4.07 12.60 287,000 Raw Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. W. F. Noble 4.14 1					
E. E. Breen 3.60 12.16 122,000 Past. F. S. Cummings Co. 3.72 12.34 122,000 Past. *John H. Dillon 3.64 12.16 79,000 Raw F. C. Edgerly 3.667 12.23 237,000 Raw *A. F. P. Gassett 3.56 12.04 298,000 Raw J. E. & H. J. Giroux 3.71 12.27 75,000 Raw *B. J. Griffin 3.66 12.19 447,000 Raw *B. J. Griffin 3.73 12.28 354,000 Raw J. P. Griffin 3.73 12.28 354,000 Raw F. E. Giles 3.84 12.15 42,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. M. B. Harris 3.65 12.13 375,000 Raw H. P. Hood & Sons 3.64 12.18 48,000 Past. *Kendall Brothers 3.69 12.24 161,000 Raw J. J. Mulkerin 3.60 12.22 300,000 Raw *E. M. Monahan 4.07 12.60 287,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. W. F. Noble 4.14 12.84 36,000 Past. P. O'Shaughnessy 3.69 12.23 329,000 Raw *H. A. Prescott 3.68 12.23 329,000 Raw *Thomas Ronayne 3.86 12.25 116,000 Raw *Thomas Ronayne 3.86 12.25 116,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.85 12.42 181,000 Past. Seven Oaks Dairy Co 3.85 12.43 143,000 Raw Toothaker Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Tourner Centre Cr. Co. 411 12.84 59,000 Raw Turner Centre Cr. Co. 411 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co. 411 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co. 411 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Raw *E. L. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Past. C. A. Woodbury 3.68 12.25 110,000 Pas	John H. Bergman				
F. S. Cummings Co. 3.72 12.34 122,000 Past. *John H. Dillon 3.64 12.16 79,000 Raw F. C. Edgerly 3.67 12.23 237,000 Raw F. C. Edgerly 3.67 12.23 237,000 Raw J. E. & H. J. Giroux 3.71 12.27 75,000 Raw *B. J. Griffin 3.66 12.19 447,000 Raw *B. J. Griffin 3.73 12.28 354,000 Raw J. P. Griffin 3.73 12.28 354,000 Raw J. P. Griffin 3.73 12.28 354,000 Raw J. P. Griffin 3.75 12.29 170,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. *J. M. Hager 3.75 12.29 170,000 Past. M. B. Harris 3.65 12.13 375,000 Raw H. P. Hood & Sons 3.64 12.13 48,000 Past. Kendall Brothers 3.69 12.24 161,000 Raw *J. J. Mulkerin 3.60 12.22 300,000 Raw *E. M. Monahan 4.07 12.60 287,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. W. F. Noble 4.14 12.84 36,000 Past. S. E. Paige 3.69 12.21 162,000 Raw *H. A. Prescott 3.68 12.23 329,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 143,000 Raw *Toothaker Brothers 3.85 12.42 15,000 Raw *Toothaker Brothers 3.85 12.43 143,000 Raw *Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw *Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Past. C. A. Woodbury 3.68 12.25 110,000 Past. C. A. Woodbury 3.68 12.25 110,000 Past.					
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J. E. & H. J. Giroux       3.71       12.27       75,000       Raw         *B. J. Griffin       3.66       12.19       447,000       Raw         J. P. Griffin       3.73       12.28       354,000       Raw         F. E. Giles       3.84       12.15       42,000       Past.         *J. M. Hager       3.75       12.29       170,000       Past.         M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *E. M. Monahan       4.07       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         S. E. Paige       3.69       12.23       329,000       Raw         *Thomas Ronayne       3.86       12.24       181,000       Past.         Seven Oaks Dairy Co <t< td=""><td>F. C. Edgerly</td><td><math display="block">. \qquad 3.67</math></td><td></td><td></td><td>Raw</td></t<>	F. C. Edgerly	$. \qquad 3.67$			Raw
J. E. & H. J. Giroux       3.71       12.27       75,000       Raw         *B. J. Griffin       3.66       12.19       447,000       Raw         J. P. Griffin       3.73       12.28       354,000       Raw         F. E. Giles       3.84       12.15       42,000       Past.         *J. M. Hager       3.75       12.29       170,000       Past.         M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *E. M. Monahan       4.07       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         S. E. Paige       3.69       12.23       329,000       Raw         *Thomas Ronayne       3.86       12.24       181,000       Past.         Seven Oaks Dairy Co <t< td=""><td>*A. F. P. Gassett</td><td>3.56</td><td>12.04</td><td>298,000</td><td></td></t<>	*A. F. P. Gassett	3.56	12.04	298,000	
J. P. Griffin       3.73       12.28       354,000       Raw         F. E. Giles       3.84       12.15       42,000       Past.         *J. M. Hager       3.75       12.29       170,000       Past.         M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co	J. E. & H. J. Giroux	3.71			Raw
F. E. Giles       3.84       12.15       42,000       Past.         *J. M. Hager       3.75       12.29       170,000       Past.         M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers </td <td>*B. J. Griffin</td> <td>3.66</td> <td></td> <td>447,000</td> <td>Raw</td>	*B. J. Griffin	3.66		447,000	Raw
*J. M. Hager 3.75 12.29 170,000 Past. M. B. Harris 3.65 12.13 375,000 Raw H. P. Hood & Sons 3.64 12.18 48,000 Past. Kendall Brothers 3.69 12.24 161,000 Raw J. J. Mulkerin 3.60 12.22 300,000 Raw *E. M. Monahan 4.07 12.60 287,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. P. O'Shaughnessy 3.69 12.23 329,000 Raw *H. A. Prescott 3.68 12.24 181,000 Past S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co 3.85 12.09 171;000 Raw *Swenson Brothers 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 215,000 Raw Toothaker Brothers 3.85 12.42 215,000 Raw Turner Centre Cr. Co 4.11 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.69 12.18 144,000 Raw *D. Whiting 3.79 12.43 166,000 Past. J. K. Whiting 3.77 12.37 189,000 Past. C. A. Woodbury 3.68 12.25 110,000 Raw	J. P. Griffin		12.28	354,000	Raw
M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         *M. P. Shattuck       3.65       12.09       171,000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         *F. P. Thomps			12.15	42,000	Past.
M. B. Harris       3.65       12.13       375,000       Raw         H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         *M. P. Shattuck       3.65       12.09       171,000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         *F. P. Thomps	*J. M. Hager	3.75	12.29	170,000	Past.
H. P. Hood & Sons       3.64       12.18       48,000       Past.         Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         M. P. Shattuck       3.65       12.09       171,000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.42       284,000       Raw         *F. P. T	M. B. Harris	3.65	12.13	375,000	Raw
Kendall Brothers       3.69       12.24       161,000       Raw         J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.42       215,000       Raw         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         *A. S	H. P. Hood & Sons	3.64	12.18		Past.
J. J. Mulkerin       3.60       12.22       300,000       Raw         *E. M. Monahan       4.07       12.60       287,000       Raw         *Maple Farm Milk Co.       3.76       12.36       191,000       Past.         W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past.         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         *Tothaker Brothers       3.85       12.42       215,000       Raw         *T. P. Thompson & Son       3.75       12.24       284,000       Raw         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Ty			12.24	161,000	Raw
*E. M. Monahan 4.07 12.60 287,000 Raw *Maple Farm Milk Co. 3.76 12.36 191,000 Past. W. F. Noble 4.14 12.84 36,000 Past. P. O'Shaughnessy 3.69 12.23 329,000 Raw *H. A. Prescott 3.68 12.24 181,000 Past S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw M. P. Shattuck 3.65 12.09 171;000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 215,000 Raw Toothaker Brothers 3.85 12.42 215,000 Raw Turner Centre Cr. Co 4.11 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Raw D. Whiting 3.79 12.43 166,000 Past. J. K. Whiting 3.77 12.37 189,000 Past. C. A. Woodbury 3.68 12.25 110,000 Raw			12.22		Raw
*Maple Farm Milk Co. 3.76 12.36 191,000 Past, W. F. Noble 4.14 12.84 36,000 Past, P. O'Shaughnessy 3.69 12.23 329,000 Raw *H. A. Prescott 3.68 12.24 181,000 Past S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw M. P. Shattuck 3.65 12.09 171,000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co. 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 215,000 Raw Toothaker Brothers 3.85 12.42 215,000 Raw Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Raw D. Whiting 3.79 12.43 166,000 Past. J. K. Whiting 3.77 12.37 189,000 Past. C. A. Woodbury 3.68 12.25 110,000 Raw			12.60		Raw
W. F. Noble       4.14       12.84       36,000       Past.         P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         *M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         C. A. Woodb	*Maple Farm Milk Co		12.36		Past.
P. O'Shaughnessy       3.69       12.23       329,000       Raw         *H. A. Prescott       3.68       12.24       181,000       Past         S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woo			12.84		
*H. A. Prescott 3.68 12.24 181,000 Past S. E. Paige 3.69 12.21 162,000 Raw *Thomas Ronayne 3.86 12.35 257,000 Raw M. P. Shattuck 3.65 12.09 171;000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 215,000 Raw Toothaker Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Raw D. Whiting 3.79 12.43 166,000 Past. J. K. Whiting 3.77 12.37 189,000 Past. C. A. Woodbury 3.68 12.25 110,000 Raw			12.23		
S. E. Paige       3.69       12.21       162,000       Raw         *Thomas Ronayne       3.86       12.35       257,000       Raw         M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					Past
*Thomas Ronayne 3.86 12.35 257,000 Raw M. P. Shattuck 3.65 12.09 171;000 Raw *H. L. Stone 3.64 12.12 188,000 Past. Seven Oaks Dairy Co 3.85 12.43 143,000 Raw *Swenson Brothers 3.85 12.42 215,000 Raw Toothaker Brothers 3.85 12.47 102,000 Past. *F. P. Thompson & Son 3.75 12.24 284,000 Raw Turner Centre Cr. Co. 4.11 12.84 59,000 Past. *A. S. Tyler 3.69 12.18 144,000 Raw *E. L. Tyler 3.53 11.97 336,000 Raw D. Whiting 3.79 12.43 166,000 Past. J. K. Whiting 3.77 12.37 189,000 Past. C. A. Woodbury 3.68 12.25 110,000 Raw				,	Raw
M. P. Shattuck       3.65       12.09       171;000       Raw         *H. L. Stone       3.64       12.12       188,000       Past.         Seven Oaks Dairy Co       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
*H. L. Stone					
Seven Oaks Dairy Co.       3.85       12.43       143,000       Raw         *Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
*Swenson Brothers       3.85       12.42       215,000       Raw         Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
Toothaker Brothers       3.85       12.47       102,000       Past.         *F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
*F. P. Thompson & Son       3.75       12.24       284,000       Raw         Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw	Toothaker Brothers	3.85			
Turner Centre Cr. Co.       4.11       12.84       59,000       Past.         *A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
*A. S. Tyler       3.69       12.18       144,000       Raw         *E. L. Tyler       3.53       11.97       336,000       Raw         D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
*E. L. Tyler					
D. Whiting       3.79       12.43       166,000       Past.         J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw					
J. K. Whiting       3.77       12.37       189,000       Past.         C. A. Woodbury       3.68       12.25       110,000       Raw	D Whiting	3.79			
C. A. Woodbury 3.68 12.25 110,000 Raw	J K Whiting	3 77			
Walker-Gordon 4 40 13 22 24 000 Raw	C A Woodbury	3.68			
	Walker-Gordon	4.40			
* Found guilty of violation of milk laws			19.22	21,000	1ca w

<sup>\*</sup> Found guilty of violation of milk laws.

The higher the fat and solids the greater the food value. The lower the bacterial count, the greater care in production, better handling or more efficient pasteurization is shown. The analysis of special grades of milk supplied on request.

### Court.

In addition to the distributors fined, Carl H. Morgan, 2-4 College Avenue, West Somerville, Manuel C. Rogers, 7 Union Square, Somerville, Herbert C. Woodward, 1297 Broadway, Somerville, conducting lunch rooms, were also found guilty.

### Summary of Court Cases.

Watered milk Not of good standard quality Foreign substance		· ·		18 4
Total		•		26
Court cases in Somerville		•		23
Court cases in Framingham				1
Court cases in Concord				1
Court cases in Lowell .	• .	•	•	1
•				
Total				26
Fines imposed and paid.				\$455.00

### In General

By comparing the average standing of the various dealers with last year's list, it will be seen that there has been considerable improvement in both average food value and bacteriological content.

Constant supervision, sampling and notifying, more efficient pasteurization and refrigeration with an energetic prosecution of all cases of violation, whether intentional or accidental, I believe is responsible for this improvement.

During 1920 it became necessary to inspect creameries in Maine, New Hampshire and Vermont as the nearby supply of milk failed and distributors were forced to purchase from creameries at a distance.

Creameries are run on a co-operative plan. The farmers in a district forming a creamery association, sending their milk to the plant where it is mixed with the milk produced at other farms in that district and shipped as whole milk to various points in New England. The surplus is utilized for butter and cheese and some skimmed milk is sold back to the farmers for stock feeding. This method has proven very satisfactory in some places.

Where the milk can be delivered promptly at the creamery it usually receives better care than it would at the individual farms, but constant supervision is necessary as routine work becomes irksome and carelessness often results, which can be promptly corrected if an inspector appears at unexected intervals.

During September it was found that farmers were sending milk to Somerville dealers that was below the legal standard for fat and solids (food value) so the collector was sent into the country to take samples from the individual dairymen. Samples were taken from over 150 farms and over 50 percent of the samples were found to be below the Massachusetts standard. The fact that a special law provides that, "Producers may not be prosecuted for low standard milk until two low samples have been found and that twenty days must elapse before the second sample can be taken," prevented prosecutions in these cases, but the fact that only two producers were found with low standard milk on a second visit speaks for itself. first visit two farmers were found to be watering milk. cases were prosecuted, one in Concord, Mass., and one in Lowell, Mass., and in each case they were found guilty and paid a fifty dollar fine. On the second visit to these farms no adulterated milk was found.

### Infant Mortality.

For the past ten years a table has appeared in this report showing the steady decrease in infant mortality, i.e., deaths of babies under one year of age from enteric diseases. In the future this subject will be treated in the section devoted to the Public Health Nurses' report.

Respectfully submitted,

HERBERT E. BOWMAN,

Inspector of Milk and Vinegar.

# SUPPORT OF POOR DEPARTMENT.

Board of Overseers of the Poor.

FRED E. DURGIN, President.

MICHAEL COLL, Vice-President.

HENRY F. CURTIS, M. D.

### Committees.

On Finance, Investigation and Relief, and City Home Mr. Durgin, Mr. Coll and Dr. Curtis.

Clerks.

JOSEPHINE M. SANDER

CORA F. LEWIS

General Agent.

WILLIAM E. COPITHORNE.

City Physician.

C. CLARKE TOWLE, M. D.

Warden and Matron, City Home.

MR. AND MRS. J. FOSTER COLQUHOUN.

Office.

City Hall Annex, Highland Avenue.

Somerville, Mass., December 31, 1920.

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

Gentlemen:—The Overseers of the Poor submit herewith reports of the General Agent, the Warden of the City Homeand the City Physician, with tables showing the work.

Respectfully submitted,

FRED E. DURGIN,
MICHAEL COLL,
HENRY F. CURTIS,

Overseers: of the Poor..

## REPORT OF GENERAL AGENT.

## City Hall Annex, January 1, 1921.

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

Gentlemen:—The following as the report of the general agent for the year ending December 31, 1920, is herewith submitted:

#### Table No. 1.

FULL SUPPORT (During the year).	
In City Home (men 32, women 42)	74 40 17 48 16
Table No. 2.	
PARTIAL SUPPORT (Outside Relief).	
Families	244 1023 10 7 \$3.54
Table No. 3.	
Table No. 3.  AID UNDER 1913 LAW (Mothers' Aid).	
	65 - 335
AID UNDER 1913 LAW (Mothers' Aid).  Number of applications from widows or deserted women. Number of families aided at close of year	65 335 . 19
AID UNDER 1913 LAW (Mothers' Aid).  Number of applications from widows or deserted women. Number of families aided at close of year	65 335 . 19

#### Table No. 4.

## REIMBURSEMENTS.

Commonwealth of	Mas	sachuset	tts .					\$19.835	92
City of Boston	1.14			•	•	•	•	1 / -	
	•	•	•	•	•	•	•	4,130	70
DLOCKTOH	•	•	• •	•	•	•	•	698	$90^{\circ}$
" " Cambridge						•		1,791	97
" " Chelsea								67	0)
" " Everett								520	07
" " Gloucester					•			145	71
" " Lynn .		•				•		108	40
" " Malden		•		•		•		451	12
" " Medford								322	39
Town of Acton					•			17	14
" " Millis					•	•	•	312	29
" " Watertown	n							30	00
" " Winthrop								21	00
Individual .					•		•	495	10
								\$28,947	71

## Table No. 5.

## SOMERVILLE HOSPITAL (PATIENTS ON CITY BEDS)

Patients having settlement in Somerville	70
Patients having settlement in other cities and towns	27
Patients having no settlement (chargeable to State).	53
Total number of patients sent to hospital	150
Amount paid to hospital . ,	\$7,779.29

#### Table No. 6.

## POPULATION AND GROSS EXPENDITURES, 1900 TO 1920.

Popu	lation					
Year (Estin	nated)					
1900 —*61,643	(Misc.	\$23,697.62	Home,	\$5,528.83)	Total	\$29,226.45
1901 - 62,500	"	29,171.15	"	6,622.43	66	35,793.58
1902 — 63,500	"	28,667.04	"	7,396.64	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	66	6,806.79	66	25,044.32
1907 - 74,000	"	17,852.20	66	7,001.23	"	24,853.43
1908 - 75,500	"	17,955.34	4.6	6,875.56	"	24,830.90
1909 - 75,500	"	16,843.17	"	7,562.83	"	24,406.00
1910 —*77,236	"	16,110.42	"	7,695.89	"	23,806.31
1911 - 78,000	"	16,327.56	"	7,842.03		24,16. "
1912 — 81,000	"	19,201.33	"	8,998.97	"	28,200.30
1913 - 82,000	"	21,827.73	**	10,945.95	"	32,773.68
1914 - 85,000	"	35,619.68	"	11,200.25	"	46,819.93
1915 —*86,854	"	45,490.98	"	11,218.65	"	56,709.63
1916 - 90,000	"	51,759.62	"	11,593.41	"	63.353.03
1917 - 90,000	"	53,653.33	"	13,417.77	"	67,071.10
1918 - 90,500	"	63,420.48	"	15,411.20	"	78,831.68
1919 - 91,000	"	67,682.53	"	15,789.34	"	83,471.87
1920 —*93,033	66	77,456.57	46	17,308.29	66	94,764.86
* Census						

Table No. 7.

Expenditures in Detail for the Year 1920.

1920	Cash Allowance	Med. Att. and Medicine	Board.	Groceries.	Somerville Poor in other Cities and Towns.	Dry Goods and Shoes.	Burials.	Salaries.	Fuel.	Sundries.	Cash Paid Out.	Telephone.	Stationery and Printing.	Somerville Hospital.	State Institu- tions.	Other Institu- tions.	Nursing.	Somerville Poor in other Cities and Towns 1913 Law.	Total
January	\$177.78	\$21.80	\$187.86	\$374.50	\$529.95			\$457.01	\$478.13		\$4,218.10	\$7.64	\$10.25	\$292.86	\$33.00	\$48.25	\$9.00		\$6,846.13
February		10.92	115.44	198.00	652.41		\$72.00	424.72	Ψ1.0.10	\$ 1.00	3,350.46	7.28	3.00	855.43		312.54	6.50	\$152.00	6,329.62
March	173.78	25.87	563.29	233.75	159.30		#.=.00	496.06	630.28	30.00	3,391.40	8.34	4.75	2,208.20		292.01	4.00		8,221.03
April	170.29	19.07	246.42	144.00	29.34			447.68	44.45	8.33	3,483.40	7.84	4.00	545.80	44.14		10.00		5,204.76
May	127.22	18.62	95.29	265.00	83.00		25.00	522.10		8.33	4,293.60	7.70	25.39	475.80			7.50	266.82	6,221.37
June	119.58	20.65	556.27	207.50	167.86	\$5.50		447.68		8.33	3,438.90	7.94	31.46	663.40		311.99	2.00	169.73	6,158.79
Jul <b>y</b>		9.07	231.36	125.00	289.58	8.00	• • • • • •	597.43		19.00	4,285.60	17.86	4.50	477.40	96.72		2.50	1,337.10	7,600.48
August		25.62	100.36	162.00				439.01		12.50	3,382.70	21.85	4.00	521.80		37.53	4.50		4,811.23
September		30.00	604.27	292,00	288.48		105.00	481.01		16.50	3,530.20		19.99	454.60		233.14	* * * * * * * * * * * * * * * * * * * *	1,257.54	7,410.31
October		17.16	223.07	160.50	222.36		106.00	555.43		17.50	4,493.70	10.54		593.20	90.49	122.85	12.00		6,717.16
November		11.35	103.57	178.00	• • • • • • • • • • • • • • • • • • • •		62.00	481.01	307.15	17.50	3,591.30	20.96	3.00	438.40			6.00	743.87	6,054.69
December	82.36	• • • • • • • • • • • • • • • • • • • •	692.21	67.00	16.00			545.12	250.71	17.51	3,539.40	2.00		252.40		{		232.00	5,696.71
Totals	\$1,498.17	\$210.13	\$3,719.41	\$2,407.25	\$2,438.28	\$13.50	\$370.00	\$5,894.26	\$1,710.72	\$156.50	\$44,998.76	\$119.95	\$110.34	\$7,779.29	\$264.35	\$1,358.31	\$64.00	\$4,159.06	\$77,272.28



## OVERSEERS OF THE POOR OF SOMERVILLE

## Since the reorganization in 1885.

tHon. Mark F. Burns, chairman, ex-officio.	1885	<b>1</b> 888	inclusive
†Col. Herbert E. Hill	1885	1889	44
†Charles S. Lincoln, Esq., chairman			44
†Hon. Edward Glines	1885		
†Charles G. Brett (president 1888-1892)	1885 Apr.	1893	66
Edward B. West (president May, 1894-	_000 LIP-		
February, 1912)	1888 to	1012	66
			66
†Daniel C. Stillson			"
†Hon. Charles G. Pope, chairman ex-officio		1891	
†Nathan H. Reed (president 1893 to April,			"
1894	1890 Apr.	1894	**
†Hon. William H. Hodgkins, chairman ex-			
officio	1892	1895	66
†James G. Hinckley May,	1892	1894	"
†Albert W. Edmands May,	1893 Oct.	1918	(Died)
tHerbert E. Merrill May.	1894	1909	inclusive
†Herbert E. Merrill May, †Ezra D. Souther	1895 Feb	1898	(Died)
Hon. Albion A. Perry, chairman ex-officio	1996	1898	inclusive
			inclusive
James H. Butler March,		1099	
Hon .George O. Proctor, chairman ex-officio		2	
Henry F. Curtis, M. D	1910 to	date*	inclusive
Philip Koen	1912 Nov.	9, 1916	66
Michael Coll November,	1916 to	date*	66
Fred E. Durgin October,	1918 to	date*	66

#### Table No. 8.

## RECAPITULATION (Miscellaneous).

Expenditures and	transfer	`S			•	\$77, <b>1</b> 67 07 net
Reimbursements		•	•	٠,	• •	28,947 71
Net cost to city.	•	•	•	•	•	· \$48,219 36

<sup>\*</sup> Present Member

Respectfully submitted,
WM. E. COPITHORNE,
General Agent.

<sup>†</sup> Deceased

#### REPORT OF WARDEN OF CITY HOME.

City Home, January 1, 1921.

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

Gentlemen:—I submit the following as the report of the Warden of the City Home for the year ending December 31, 1920:—

#### Table No. 1.

Number of	weeks' t	ooard of inn	nates					2,273-5	
Number of	males a	dmitted dur	ing 19	20				11	
Number of	females	admitted du	ring 19	920				<b>1</b> 5	
Number of	males di	ischarged di	uring	1920	•			8	
Number of	females	discharged	during	1920				10	
Number of	males su	apported dur	ing 19	20				32	
Number of	females	supported d	uring	1920				42	
Number of	males di	led during 1	.920					5	
Number of	females	died during	1920					11	
Number of	inmates	in home, De	cembe	r 31,	192	0.	•	40	
		City H	ome H	ospit	al.				
Number of	weeks'	board .	•	•	•			599-3	
Number of	patients	admitted						30	
Number of	patients	in hospital,	Decen	nber	31,	1920		11	

#### Table No. 2.

Reimbursements			•	•	•		. \$9,916 33
Net expenditure	S	**	••	-•	•	•	. 7,391 96
							217 222 22
							\$17,308 29
Appropriation	. •	•		•	•	•	. \$17,318 00
Balance				•		•	. 9 71

\$17,308 29

Respectfully submitted,
J. FOSTER COLQUHOUN,
Warden.

#### REPORT OF THE CITY PHYSICIAN.

## Office of the City Physician, Somerville, January 1, 1921.

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

Gentlemen:—The work of your City Physician during the year 1920 is presented in the following abstract:—

Office consultations and treatm	ents	•					322
Total outside visits		•	••	•	•-		1138
Confinements			•	•	•	•	6.
Vaccinations	•	•-	•-	•	•		87
Visits at City Home	•	•	•		•		120
Attended at police station.	•	•	•-	•	•		22
Examinations:—							
For legal department .			٠.				16.
			•				16. 19
For legal department .			•	•	•		7.
For legal department . For highway department	•	•	•		•		19
For legal department . For highway department For police department .		•	•	•	•		19

Respectfully submitted,

C. CLARKE TOWLE, City Physician...

## REPORT OF RECREATION AND PLAYGROUND COM-MISSION.

January 1, 1921.

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

The Playground and Recreation Commission submits the

following report for the municipal year just closed.

The Commission expended \$5000 during the last year, an increase of \$1322.57 over the expenditure of 1919. It has conducted the work along the lines already laid down but has not started any new lines. Detailed information about the social center movement, the summer playgrounds, and the school gardens will be found in the statements prepared by the leaders of those enterprises, which are filed herewith. The careful reading of these reports will show that the work of the year has been conducted even more successfully than last year.

The civic social worker has developed in the Clark Bennett School and in the Bingham School a social center movement of good promise. At both of these places, classes have been carried on in response to the needs of the community and entertainments of an interesting and instructive nature have been given at frequent intervals. These two schoolhouses have, through the agency of the social center work, given a larger measure of service to the community than ever before. Notwithstanding the fact that neither building has provisions designed for adult use, they have afforded a meeting place where the adults of the neighborhood have conducted these community undertakings with interest and benefit. While it cannot be said that the social center work was started during this last year, it is nevertheless true that its present development is due to the energetic work of the civic social worker, Miss Minnette Zuver, who was engaged by the Commission last March. has been assisted by volunteers from the several women's clubs and by a number of paid workers. Prominent citizens have made addresses at the evening meetings and musicians have given their services as entertainers.

The summer playground work was conducted in as successful a manner as could be expected when it is considered that the amount of money spent for this purpose was but little in excess of the amount needed for the salaries of the instruc-

tors. The supervised summer playgrounds afford a safe place for young children during the vacation weeks. Mothers can trust their children to the care of the supervisors of the summer playgrounds with the assurance that the children will be safe and happy and in the way of learning useful rather than harmful things. In a city so crowded as Somerville with only the public parks as play spaces, it is most desirable that there should be these play centers for children on all of our public parks. The director of playgrounds asks for the provision of two additional instructors in order that two more supervisible playgrounds may be opened this summer. The Commission hopes that this request can be met in order that a slight extension of the work may be made this year.

Despite very unfavorable spring weather which interfered greatly with spring planting and caused many farmers to abandon undertakings in large part, the school gardens were a decided success. The report of the supervisor shows that the value of the crops far exceeded the total cost of production. In addition to their economic value, the gardens have been a valuable means for teaching children to work. Inasmuch as the success of a garden is directly dependent upon the intelligent care which is given to its cultivation, the young gardener is compelled to know what he ought to do and how to do it if he wants to secure a good return. The relation between cause and effect is so obvious that even a child can see it. Consequently the child who works in a garden is forming a habit of doing well today's task in order to obtain a future benefit.

While this is a brief recital of the activities which have been conducted under the direction of the Recreation and Playground Commission, it does not embrace all of the agencies which have worked for the recreational welfare of the city, nor all of the recreational facilities which the city affords to its citizens. Among the former should be numbered the women's clubs of the city, which have supported social welfare work by generous contributions of money and personal service. clubs have organized a ways and means committee under which each club is represented whose business it is to encourage and develop the civic social welfare work. This committee has kept open the Neighborhood House and has furnished money and workers for the social centers at the Clark Bennett and Bingham Schools. In connection with this report, there is filed a statement of the money which has been contributed by this organization. Another organization which has been of great assistance to the work is the Somerville Playgrounds Associa-This association for many years has supported summer playground work and during the last year has contributed to

its support a generous sum of money. Churches of the city also have contributed both money and supplies to help summer

playgrounds.

Without the help of these organizations, the Commission could not have given so large a service to the community. Had it been necessary to pay for the services rendered by the volunteers of these organizations, the total amount involved would have been beyond the resources of the Commission. It is the belief of the Commission that for the present, at least, the support of organized public recreation must come largely from private sources. It is the hope of the Commission, however, that as private interest increases and as the gifts from private funds grow, there may be a corresponding enlargement of the amounts which the city can allot for public recreation. One of the serious problems of urban life is a provision for the proper use of the leisure of adults as well as that of children. money which the community devotes to providing wholesome outdoor recreational opportunity for citizens is a sum well invested whose whole benefits accrue to the persons from whom the money is drawn and whose return is rich in happiness and contentment.

Other recreational opportunities which the city provides for its citizens are the public parks, playground areas, and the Somerville Bathing Beach. While these undertakings are not directly under the control of the Commission, they are nevertheless allied interests which should be taken into account in any statement of the total of the city's recreational enterprises.

Respectfully submitted,

CHARLES S. CLARK

Supt. of Schools, Chairman

MRS. A. H. WEEKS
MRS. CHARLES E. MONGAN
ERNEST W. BAILEY, City Engineer
J. FOSTER COLQUHOUN, City Warden
GEORGE L. DUDLEY,

Commissioner of Public Buildings, Secretary.

## REPORT OF THE CIVIC SOCIAL WORKER.

To the Members of the Recreation and Playground Commission: —

When I started my work last March in Somerville about 35 small boys, 15 girls and 3 young men were attending the Bennett Social Center. There were no boys above the age of At the Bingham Center there were 30 girls and no boys. The attendance has grown steadily. At the Bennett School Center there is now an attendance of 70 boys and young men between the ages of 16 and 24, and an equal number of girls. There is an average of 60 boys and 60 girls in attendance at the Bingham School Center. In addition twenty or more non-English-speaking adults have patronized these social centers. Thusan average of 250 persons is reached and influenced each week, and occasional mass meetings make the number much higher.

The number of leaders and classes have also grown. There are now eight regular paid leaders, and at some times during the year twelve have been employed. An orchestra composed of three young men from the Bingham School Center is paid upon occasion for services at either center. Three volunteer workers: have at different times given their help by teaching sewing,

dramatics and music.

Classes are now being conducted at the Bennett Social Center as follows:

For girls: in sewing, dramatics, aesthetic dancing, and physical culture;

For boys: in wrestling, modern dancing, basket ball, ropequoit, boxing and physical culture.

The following classes are being held at the Bingham Social

For girls: modern dancing, millinery, dressmaking and nursing;

For boys: dancing and basket ball, including games with matched teams.

During the year three dramatic entertainments have been given by the young people themselves, and two bazaars for the sale of fancy work made by the girls have been held.

At the Bingham School Miss O'Neil held a millinery ex-

hibition and sale. A course in citizenship lectures has been given at both centers and nineteen prominent citizens have volunteered for this work. At these meetings twenty musicians, eight vocal soloists, five readers, and ten representatives of women's club, have given their services.

These centers have been open an average of three nights each week and some times five nights a week, and large numbers of Greek, Italian and English-speaking residents have been reached. At the Bingham School rehearsals are being carried on for the presentation of the operetta "The Disagreeable Princess." Plans are being made for an Italian mass meeting to be conducted at the Bennett School. At a mass meeting held last Spring, seventy-five attended and of that number twenty later joined classes for the study of English. At a recent mass meeting for Greeks, of the fifty who attended, twenty-two joined such classes.

The Neighborhood House, which is run in connection with the social center work, has been open five days a week from March to July. It was opened again in November and since that time has been thoroughly renovated. During the year two matrons have been employed, at different times, and eight other persons have been engaged to teach cooking and sewing. The clubs of the neighborhood use this house for a meeting place.

The civic social center work is advancing steadily but we need more equipment and money to carry the work further. Added interest and co-operation on the part of the citizens of Somerville would be of valuable assistance.

Respectfully submitted,

MINNETTE. ZUVER,

Civic Social Worker.

## REPORT OF THE DIRECTOR OF SUMMER PLAYGROUNDS.

To the Members of the Recreation and Playground Commission of Somerville:—

In presenting my annual report of the activities of the summer playgrounds to your body, I desire to summarize the accomplishments of the past season, and to point out suggestions for the work in the future.

Grounds. Grounds were conducted on seven plots of the city during the summer of 1920, the number and location being the same as at the close of the season of 1919. Because of existing conditions in the matter of equipment, it seemed advisable that the same grounds be operated as heretofore. the opinion of the director this lay-out does not adequately meet the needs of the city, especially in the proportionate allotment of playgrounds to the density of population. In this regard I repeat again the recommendation made a year ago for the fitting out of the Athletic Field on Alewife Brook as a playground by the erection of swings, slides, and other apparatus. As an alternative for this recommendation I submit the plan of the early grading of the land behind the Western Junior High School and its adoption as a playground. Either of the above locations would be more suitable for play on a larger scale than the present Hodgkins School ground, which is the only playground in populous Ward 7. The Kent Street and Bennett Playgrounds are other locations in the city where more ample space is desirable. I am also of the opinion that the grounds on Central Hill Park should be opened as a quiet pla ground during the summer under supervision. The large number of children who frequent this spot in the warm weather, many of them accompanied by elders, would thus be provided with an opportunity for play and handwork, and at the same time it would help to accommodate the small children who live in the vicinity of the playground formerly located at the Bell School which had to be abandoned because of the erection of the Junior High School on that site.

The large number of girls at Richard Trum Park last summer would seem to warrant the employment of a lady supervisor for girls at that place hereafter.

'Attendance. The season of 1920 was remarkable for the attendance on all of the playgrounds. From the best possible method of counting, the total attendance of the grounds for the

summer represented an increase over the year before of more than 10,000 individual visits to the grounds by children.

The good weather which prevailed throughout the seven weeks of the playground season undoubtedly is responsible for some of this increase. On the other hand the work of the playgrounds during the season seemed, in the opinion of the director, to run more successfully than ever before.

As noted in the report of 1919, larger children (i.e. those over sixteen years of age) seemed to have been entirely eliminated from the playgrounds. This has been true to such an extent that it has necessitated the re-arrangement of ages in the class for competition, such as baseball and track sports. I find that the same condition prevails in other communities which conduct playgrounds, and the indication is that boys and girls of this older group are, for the most part, finding summer employment.

## The figures for the season by grounds are as follows:

Bennett		•			•				13,155
Broadway						•			6,724
Hodgkins		•	•	•	• -	•		•	4,671
Kent			•		•	•		•	7,645
Lincoln					•				26,270
Perry			•		•	•			4,770
Trum						•		•	12,285
To	tal	•	•	•	•	•	•	• •	75,520
							1919		1920
Total Att	enda	nce					65,000		75,520
Average	Wee	kly					9,227		10,790
Average				•			1,846		2,220

The budget allowed by your commission for Finances.summer playground work in 1920 was \$1,722.50. This was augmented by approximately \$400 from the Treasury of the Somerville Playgrounds Association, making a total expenditure for the season of a little more than \$2,100. Of this amount approximately \$1,400 was spent for salaries of supervisors, leaving a balance of \$700 for teaming, supplies, maintenance, extra labor, and the like. This latter amount while it has been sufficient for keeping the playgrounds active, does not allow any provision for more permanent equipment, or even the repair or replacement of what permanent equipment we now have. I suggest that it would be well for your Commission in making up its future budgets, to make provision for permanent equipment, for it must be borne in mind that the most of the frame work now on our public playgrounds has been in use for

a dozen years, and during that time has been exposed to the

elements, and before long will have to be replaced.

It seems desirable also in alloting finances hereafter, to provide for a final demonstration such as was conducted this year on Lincoln Park. Had it not been for the money contributed by the Somerville Playgrounds Association, this feature could not have been carried out during the past season.

Another desirable provision for the future would be the addition of shelters on some of the grounds particularly at such open areas as the Richard Trum Playground. A start was made in this direction during the season of 1920 by the erection of a shelter at the Bennett School Ground from funds contrib-

uted by the Somerville Playgrounds Association.

To summarize the financial situation as based on the figures for the past year, I would recommend that in order to carry out the above recommendations even on a small scale, the allotment for summer playgrounds for another season should be at the minimum \$3000.

Supervision. The slight increase in remuneration advocated in my last report and granted by your commission showed its effect during the past summer. The extra inducement enabled the director to secure the services of more proficient supervisors, three of whom had previously been in service in Somerville, with the result that the success of the season can be attributed in some degree to this more efficient supervision. A comparison of the salaries paid in Somerville with those offered in other communities of greater Boston will show, however, that in proportion to the amount spent for supervisors the results obtained in our city will compare favorably with those of other places.

The one desirable object to be obtained from the standpoint of supervision is, as far as possible and within reason, to retain the services of desirable supervisors in order that the

playgrounds shall continue in efficiency.

Meetings. Following the plan of previous seasons, meetings of the entire staff of supervisors were held at the High School at regular intervals during the season for the purpose of concerted action throughout the city and for exchanging plans which would prove beneficial for the different grounds. Such meetings are of valuable assistance in the conduction of the work, especially for such purposes as arranging the program for the final exhibition.

Equipment. I have already alluded to the future need of permanent equipment on the grounds. Almost every ground in the city could use additional swings. The swings on Broadway Park are in need of repair before the opening of the next

playground season. I suggest that the framework of the old? gymnasium on Lincoln Park might be utilized to furnish additional swing accommodations at that ground and perhaps. others in the city. The iron swing frame in the yard of the Bingham School which has not been used for some seasons may be in condition to be used if it can be transferred to the Richard Trum Playground. Slides would add much to the equipment of the Broadway Playgrounds and also Richard Trum Park. An unused slide in storage in the basement of the Union Square Branch Library could possibly be put into condition for use if sufficient funds are available. I have also referred to the desirability of adding shelters to some of the grounds. should be drinking facilities on every playground and the wading pool at Trum Park should be placed in condition for use. With assistance from the City Engineer's Department some seats were placed at the Kent, Bennett, and Perry grounds during the past summer.

Handwork. For the first time in the history of Somerville Playgrounds the handwork was supervised by a person employed solely for the purpose. This was made possible by the co-operation of the supervisor of school gardens, an arrange ment being made whereby the same person was employed three days per week as handwork supervisor for the playgrounds and the remainder of the week as a canning instructor for the school garden organization. Heretofore it has been necessary to use one of the regular supervisors on part time for this purpose. The new plan proved a success over the former one, because it provided more frequent visits to the individual grounds by the person in charge and thus brought about more interest on the part of the children and a better finished product. It is hoped that such a plan of supervision can be adhered to in future seasons.

The original cost of operation for the handwork, exclusive of the salaries of the supervisors was borne by the Somerville Playgrounds Association, and whatever new material was provided during the season was furnished from the money obtained by the sale of the finished articles to the children on the grounds. In the opinion of the director this is also a desirable method of handling this portion of the playgrounds movement because it eliminates the undesirable feature of free distribution to the children at public expense.

Dancing. Folk-dancing, which has always been one of the principal activities on the girls' playgrounds was likewise conducted in a new and improved manner this past season. A special supervisor was employed to visit each ground and take charge of the dancing, whereas in previous seasons the super-

visor of the ground conducted this activity. Accordingly uniform instruction was provided with the result that at the close of the season the children were well prepared to present the dances for the demonstration. As noted before, however, the dancing in our city is greatly handicapped by the lack of musical accompaniment which is so essential to this particular feature of the playground program. The acquisition of a few used phonographs would greatly assist in this connection another season.

Games. At the outset of the 1920 season an effort was made to provide a series of playground games which would combine physical activity with enthusiasm on the part of the participants. It is believed that this objective was obtained in the games used on the grounds last summer. This is particularly true of the boys' grounds, and the best testimony of the above statement was given in the popular approval of the games and races displayed at the final demonstration of the season. As usual baseball received its share of attention, three mornings each week being devoted to the playing of inter-playground league games. These leagues were conducted in three classes as follows: Class A, boys under sixteen years; Class B, boys under thirteen; Class C, boys under eleven years of age.

Co-operation of the Public Library. One of the features of the past season which has proved both popular and educational was the use of each playground as a place of deposit for books from the Somerville Public Library. At the outset of the season the director arranged with the library management to secure a deposit of more than five hundred books suitable for both boys and girls of the playground ages. These books were divided into lots and placed on each ground and interchanged during the season so that the children had access throughout the seven weeks to the whole deposit. The best testimony of the popularity of this feature was evidenced in the interest displayed by the children in reading and their request for more books in succeeding seasons.

Co-operation from the Community. The custom of conducting outings during the summer for the children who visit the playgrounds was followed in the past season. This feature is very popular with the children and no season would be considered a success unless the children from each ground had at least one day's outing at some favorite picnic ground. The picnics conducted this season proved more popular than ever, probably due to the fact that in every case transportation to and from the grounds was furnished by several business men of the city who gave the use of their automobile trucks for the purpose. In the mind of the director nothing gave more satis-

faction to those who conducted the playground work than the ready response of these merchants to the request for the service of their machines. During the last three weeks of the playground season everyone of the seven grounds enjoyed its own picnic, and when one considers that the number of children who attended each ranged from one hundred to five hundred, it can readily be seen how many automobile trucks were furnished to accommodate the entire group.

A second evidence of how the playground links itself up with the community interests, is the fact that the prizes for all of the events conducted at the aforesaid picnics were given by the merchants who have places of business in the vicinity

of the respective playgrounds.

In addition to the above, one hundred and fifty children from the Richard Trum and Hodgkins Grounds were the guests one afternoon of the management of Keith's Boston Theatre.

As has been remarked before, interest of the above sort is the best proof that playgrounds are well received by the people of the community. At the same time the thanks of the playground management is tendered to those who have helped to make a public undertaking successful.

Annual Demonstration. The annual demonstration of the playgrounds was conducted at Lincoln Park on Wednesday, August 18th. Taking advantage of the Daylight Saving which gave the opportunity for more adults to witness the events, the exhibition this year was held at twilight beginning at 6 p.

m., and finishing before 8 p. m.

Approximately two thousand children from all parts of the city took part, each playground being well represented. It is estimated that about three thousand people witnessed the demonstration which consisted of folk-dancing, competitive games, races, drills, and exhibition games. An exhibit of handwork made by the children during the summer was also placed in a prominent position at the grounds. The competitions were all closely contested and the whole affair was conducted with such precision that it showed the training and efficiency of the playgrounds upon the children.

Recommendations. From close contact with the situation, I respectfully submit the following recommendations as means

of improving our playgrounds system:

1. Early fitting out of High School Athletic Field or land in rear of Western Junior High School as a large playground for West Somerville.

2. Enlargement of Kent and Bennett Grounds.

3. Opening Central Hill Park as a playground for small children.

- 4. Employment of a supervisor for girls at Richard Trum Park.
- 5. Setting aside funds each year for permanent equipment.
  - 5. Erection of shelters on grounds where needed.
- 7. Additional swings on all playgrounds. Repairing swings at Broadway Park. Using the frame of gymnasium at Lincoln Park for additional swings. Transferring swing frame at Bingham School to Trum Park.
  - 8. Repairing broken slide for use at Broadway Park.
  - 9. Use of wading pool at Trum Park.
  - 10. Providing musical accompaniment for dancing.
  - 11. Drinking facilities at every playground.
- 12. Extension of supervised play to the period after school hours.

Conclusion. In closing my report, allow me to frankly state that from the standpoint of co-operation the season of 1920 has been the most satisfactory of any I have experienced in my twelve years' connection with the Somerville Playgrounds. Cordial assistance has been rendered by the Chairman and other members of your Commission, by other departments of the city, and by the Somerville Playgrounds Association. The staff of supervisors and assistants worked constantly for the betterment of the playgrounds and the welfare of the children. The children themselves have co-operated to the best of their ability and have undoubtedly acquired considerable experience in the fundamentals of citizenship involved in organized play, i. e., submission to authority, team-work, loyalty, and regard for the rights of others.

Respectfully submitted,

STEPHEN H. MAHONEY,

Director of Playgrounds.

#### REPORT OF THE SUPERVISOR OF SCHOOL GARDENS.

To the Members of the Recreation and Playground Commission:

It is with pleasure that I submit to you my third annual

report as your Garden Supervisor.

The year 1920 proved to be one of exceptional weather conditions which greatly affected work and the results obtained in gardening. Early in the spring we had continued rain which made some of the areas of ground used for School Garden purposes unfit for use until very late in the season. The piece of ground used by the Bingham School children at Lowell Street, we were forced to abandon after their garden had been completely submerged.

But to me the pleasant part of work with boys and girls is the fact that they often surprise the general public and older people, in particular, by showing ability to persevere and win out in spite of great difficulties. This was the case with the Somerville gardens the past season. In every instance but the one mentioned the gardens were brought through difficult and trying times on account of weather conditions, and made a fine showing both from the standpoint of general appearance and production.

Sixteen different schools participated in school garden work this season. There were a total of 365 children who cultivated public areas, given for their use by the City and private citizens, which covered a total acreage of nearly ten acres.

Your Garden Supervisor was employed by the School Committee during the winter months in giving instruction to boys and girls who were interested in gardening. Those who had a garden at home or else expressed a desire to have a school garden during the summer were organized into classes and were given practical lessons one period each week in the classroom. In this way the children were better prepared than ever to start actual work when the planting season arrived. With the aid of one high school boy, supervision and help was given to the 365 children having school gardens; aid and assistance was also given to several hundred who carried on successful back-yard gardens at home.

The same general plan used in the past two years for the planting and care of all school gardens was continued during the season of 1920. Children paid for the seeds and plants actually used in their individual plots. Everything raised was the property of the children and could be taken home and used

or sold. One half day was devoted by the supervisor to each garden area, and the children showed their interest and enthusiasm in this work by their prompt and consistent attendance during the entire garden season. Less than one half dozen

gardens suffered from neglect out of the total of 365.

In connection with this garden work arithmetic and spelling were linked through the use of a garden record book. The keeping of this record book by the children was made one of the garden requirements, and has proved to be a valuable means of stimulating an interest in the value and ways of marketing garden products. A careful analysis of these books by your garden supervisor after the close of the garden season has resulted in the gathering of some rather valuable and interesting information. The total value of all garden crops on school garden areas was \$8,214.45. Some of the books showed total receipts from their gardens, which in all instances were 300 square feet, of more than \$20. A schedule showing the amount and value of all the different kinds of vegetables raised in the school gardens is appended to this report. On every garden area wherever there was sufficient land a community plot was planted where sweet corn and winter squash were raised. Every boy and girl having a garden on this area did his part towards taking care of these two crops which were harvested by the supervisor and equally distributed among the children.

During the summer we received aid and encouragement from the Middlesex County Farm Bureau and State Department of Agriculture whose agents visited our city several times. The school children made exhibits again this year at the New England State Fair held at Worcester where they carried away the first prize, won in competition with 26 other cities

and towns representing all parts of New England.

For the first time a County Fair was held in Middlesex County this year at Waltham. The Somerville School Gardeners again won first prize for their exhibit of garden products in competition with many other cities and towns in this county.

The raising and care of flowers is also included in garden work. On all school garden areas where there was sufficient suitable land flower seeds were planted and plants set out this year, and the children instructed in their proper care. They were also encouraged to plant flowers at home wherever a suitable place could be found and through this means I believe the general appearance of a great many of the homes of this city were improved.

Early last spring the garden supervisor purchased a good

supply of vegetable and flower seeds and the same were disposed of to boys and girls through the public schools at cost, thereby placing in their hands only the varieties adapted to soil and climatic conditions in this vicinity.

This fall our garden areas were properly cleaned up by the children and the garden refuse disposed of. Most of these areas have since been plowed and dressing placed on them ready for

use another year.

This year 56 children carried on canning operations at two canning centers. Through the courtesy and co-operation of the School Committee the basement of the High School and the cooking room at the Western Junior High School were utilized. One teacher was employed for the whole season of ten weeks and one other for a part of that time.

These children canned an average of 32 jars apiece with an average value of 40c each, their products totaling in value \$716.80. Most of the materials canned were vegetables taken directly from their school gardens, which insured a good canned product because of the fact that they were freshly gath-

ered and properly picked.

This useful form of summer work for boys and girls has gained in popularity very rapidly the last three or four years. Many other cities and towns now carry on canning operations on a very much larger scale than we have been able to do here in Somerville, and I would recommend that more equipment and better facilities be provided another year and two teachers hired to devote all of their time to this work.

Besides the actual work of canning the vegetables and fruits the children are taught to demonstrate and explain the work in its different stages. Two demonstration canning teams from Somerville participated in a competitive demonstration held at the Middlesex County Fair at Waltham, and at Jordan Marsh's Department Store in Boston, and a very favorable showing was made in both instances. A public exhibition of canned products was held in one of the school halls at which the general public were present, and a competent judge sent from the State Department of Agriculture to score and mark the work and results obtained by the children.

Concluding my report for the season of 1920, I desire to express appreciation of the service and valuable assistance rendered by heads of departments and city officials, with whom I have come in contact. Whatever success was accomplished in garden work was due to a large extent to the interest and enthusiasm and the actual work of the boys and girls themselves.

Respectfully submitted,

WILLIAM B. MOORE, Supervisor of School Gardens.

## SCHOOL GARDEN DATA, SEASON 1920.

Location		School		No.	Children	А	rea.
Adrian Street .		Knapp .			30	1 4	Acres
Prospect Hill .		Pope .			18	1/4	"
Glen Street .	·	E. Jr. H.			$\overline{12}$	1/4	66
Gien Buleet :	•	(Edgerly .			$\overline{20}$	ĩ	66
Broadway .		(Liugori,	•	•	_ ~	_	
Bload way .	•	(Glines .			12		
Central Hill .		(Cummings	•	•	$\frac{12}{22}$		
Central Hill .	•	(Cummings	•	•	22	1	66
TTi-bland Amonus		(Do *****			12	1	
Highland Avenue	•	(Perry .	•	•	8		
~		(N. J. H	•	•		4	"
Central Hill .	•	(S. J. H	•	•	12	1	
		(					
School	•	(Proctor	•	•	20		
		(					
Craigie Street.	•	Morse .			25	1	**
Lowell Street .	•	Bingham			40	1	66
Powder House .	•	Brown .			14	1/4	46
Powder House .		Lowe .			15	1/4	66
	4	(Highland			20		
Tufts Oval .		(				$1\frac{1}{2}$	"
1	•	(W. J. H.			30	- 72	
City Farm .		Cutler .	·	·	55	1	66
Orty Parm	•	Julioi .	•	•		-	
					365		
					909		

## Season 1920.

## ESTIMATE OF AMOUNT OF CROPS GATHERED AND THEIR VALUE.

## Individual Plots.

					Retail	
			Amt. from	Total	Mkt. value	Total
Kind			each plot	Amount	per unit	Amount
Radishes .	•	•	30 bunches	9,600	.08	\$768.00
String Beans			8 qts.	2,560	.12	307.20
Shell Beans		•	7 qts.	2,240	.15	336.00
Dried Beans		• <	$2\frac{1}{2}$ qts.	800	.20	160.00
Table Beets		•	200	64,000	.025	1,600.00
Table Carrots		•	100	32,000	.02	640.00
Swiss Chard		•	4 pks.	1,280	.35	448.00
Summer Squash	ı	•	20	6,400	.15	960.00
Ripe Tomatoes		•	3 pks.	960	.85	812.00
Green Tomatoe	S	•	$1\frac{1}{2}$ pks.	480	.50	240.00
Beet Greens		•	1 pk.	320	.35	112.00
Cabbage .		•	7 heads	2,240	.15	336.00
Lettuce .		•	16 heads	5.120	10	512.00
Parsnips .		•	75	24,000	.02	480.00
_				,		

## Community Plots.

Sweet Corn Turban Squash	1,035 doz. 750 lbs.	.45 .05	465.75 37.50
Total value of Garden products .			\$503.25 \$8,214.45
Canning Club	Values.		
			Total
No. Participating Average No. of Jars	Value per jar		Value
56 $32$	.40		\$716.88
Value in money of garden and Canning December 1, 1920.	g projects .	•	\$8,931.25
COMPARISON OF GARDEN AND CA	NNING VALU	ES TO	COST OF

## COMPARISON OF GARDEN AND CANNING VALUES TO COST OF UNDERTAKING.

## Value of Crops.

value	or Crops.	
Value of vegetables sold . Value of vegetables used at home		1,630 45 5,868 50 715 50
Total Value of Garden Crops .	\$8	,214 45
Value of Car	nned Products.	
1792 Jars	. @ 40c	<b>\$716</b> 80
Total Values		\$8,931
	en Undertaking.	
Salaries Supervision	<b>\$1</b> ,079 89	
\$3.00	169 50	,249 39
Instruction Salary of Agricultural Teacher	·	,210 00
Cost of preparing land for Garden Plowing	Use 1	,024 75
Teaming	94 50 75 00	
Labor. Helper on team @ \$4.00	59 00	
		378 63
Miscellaneous disbursements Use of Auto	235 33	
Express	11 40 14 00	
Painting signs	14 00 11 70	
		070 49

25

272 43

## Cost of Canning Operations.

2 Teachers	@	\$3.00	each	per	day	•	•	\$93 60		
Total Cost	to	City	•	•		•	•		\$3,018	80
Actual mon	ey	profit	from	unde	ertaking				\$5,912	45

# REPORTS OF THE WORK OF ORGANIZATIONS ASSOCIATED WITH THE RECREATION AND PLAYGROUND COMMISSION IN THE PROMOTION OF THE RECREATIONAL ACTIVITIES IN SOMERVILLE

## Somerville Playgrounds Association.

The secretary of this association, Mrs. Mary F. Lincoln, furnishes the following report of the work of this organization for 1920.

The Somerville Playgrounds Association, organized in 1909 to provide summer playgrounds, has since that time, in cooperation with the city, conducted supervised playgrounds during the summer vacation.

The Association feels that Somerville has now a well-established playground system, and that its methods compare favorably with those of other cities of its size and that it is only pre-

vented by limited funds, from extending its work.

The Playgrounds Association has acted as a stimulating force to assist and encourage all recreational activities in the city. It has for some time desired to broaden its work and to establish a year-round system. To carry out this idea, it has lent its aid towards the establishment of evening centers in school buildings, believing this to be the best kind of Americanization work that could be done.

The Association is supported by donations from organizations and individuals and by annual membership fees. Among other annual donations, eighteen women's church societies contributed this year toward the purchase of materials for sewing

for the summer playgrounds.

The Association has this year been obliged to accept the resignation of the treasurer, Frank W. Kaan, who has held the position at our urgent desire since its formation, eleven years ago. His advice and help have also been of great value in many legal and legislative matters which have come before the organization.

We are still fortunate in being able to secure as treasurer, another valuable man, well known in Somerville, Frank M. Hawes, who is giving us much assistance.

Meetings of the Directors Board have been held at City Hall Annex on a Tuesday of each month from October to May, with good average attendance. The annual public meeting was held December 2, 1920, at the Y. M. C. A. rooms.

Field Day.— The one special event conducted under the auspices of the Playgrounds Association was a Field Day, or school athletic day, held on June 9, 1920. A vacation was granted by the School Committee and hundreds of children and their parents spent the entire day at Somerville Field.

Respectfully submitted,

MARY F. LINCOLN,

Secretary.

#### SOMERVILLE PLAYGROUNDS ASSOCIATION INCORPORATED

#### Officers:

President: Hon. Albion A. Perry Vice-President: Charles S. Clark Secretary, Mrs. Charles P. Lincoln

Treasurer: Frank M. Hawes

#### DIRECTORS:

Hon. Charles W. Eldridge Mrs. A. H. Weeks Mrs. George Whiting Rev. James J. O'Brien Mrs. Frank E. Bateman Mrs. Charles E. Mongan William P. Jones Mrs. Gilbert Hood Rev. Geo. E. Soper, D. D. Mrs. F. E. Dickerman Mrs. Geo. G. Brayley
Hon. Charles L. Underhill
Mrs. Walter A. Ladd
Mrs. Warren Dalton
Mrs. Henry C. Fish
Clarence R. Skinner
Mrs. James T. Mulroy
Frederick J. White
Mrs. Charles A. Landers

## Ways and Means Committee.

The Ways and Means Committee consists of twenty-seven women, representatives of the several women's clubs of Somerville and the Somerville Playgrounds Association and Associated Charities. Regular meetings are held on the second Thursday of each month at the home of Mrs. F. E. Bateman, 163 Highland Avenue. At each meeting, the civic social worker gives a detailed report of the work being carried on at the social centers and recommends certain things necessary for the improvement of her work. Members of the committee question, criticise, advise and plan ways and means to strengthen the work.

The chairman of the Ways and Means Committee, Mrs. S. C. Bateman, furnishes the following report of the work for 1920:

The Ways and Means Committee introduced a new feature at the Neighborhood House this year in the person of a matron who kept the house open from 3 to 9:30 p. m. each week day. Her duty was to keep order among the children who came in large numbers after school, to direct their games and to help them with sewing. With the help of Miss Belmont, a volunteer, she

aided the children in making small articles for a sale which was held in June. Four classes in cooking, three afternoon classes and one evening class, were conducted and instruction in sewing and dramatics was given. One cooking class entertained the mothers an afternoon with refreshments of their own cooking.

Last Fall the opening of the house was delayed by illness in the family of the house chairman. After the matron was employed, the children used the house as formerly, but of course classes were late in starting. At present there are several cooking and sewing classes being held and two dancing classes have just been started. In January a new matron is to begin work and we are expecting this undertaking to advance rapidly. Our new house chairman, Mrs. Perry, is a fine worker and deeply interested. The Neighborhood House we consider now as an auxiliary to the school center, gathering in the younger children in the afternoons and the older girls in the evening. These older girls are very anxious to use the building for social purposes in the evening, and with the proper supervision, they will be allowed to do so.

Lack of money is our chief hinderance, but the women have raised a considerable amount of money for the work during the past year. We are doing the best we can with what we have, and although figures cannot be used to show what is being accomplished, the influence of the work is certainly being felt in the neighborhood.

S. C. BATEMAN, Chairman Ways and Means Committee.

## STATEMENT SHOWING THE AMOUNT EXPENDED FOR RECRE-ATION DURING 1920.

## By City Government and Various Other Private Organizations.

Recreation and Playground Commission .	\$5,000 00	
Engineering Dept., Maintenance of Parks .	11,299 89	
Engineering Dept., Maintenance of Play-	ŕ	
grounds	5.159 69	
Public Bldgs. Dept., Maintenance of Park	, , , , , ,	
Bldgs.,	1,490 24	
Public Bldgs. Dept., Maintenance of Bath-	_,,	
house	2,361 24	
Public Bldgs. Dept., Maintenance of Band-	2,001 21	
stand	162 09	
Public Bldgs. Dept., Bennett Social Center.		
Public Bldgs. Dept., Bingham Social Center.		
Celebrations	803 52	
Celebrations	000 02	
Total expended by City Government		\$29,661 25
	930 04	φ23,001 23
Somerville Playgrounds Association		
Ways and Means Committee	680 13	
Matal and day be autilian and the		## 0#0 # <i>#</i>
Total expended by outside organizations.		\$1,610 17
Total amount expended for recreation .		\$31,271 42

## REPORT OF THE PLANNING BOARD.

December 31, 1920.

To His Honor the Mayor and Board of Aldermen. Gentlemen:

In accordance with the provisions of the Acts of 1913, and as required by Section 2 of Chapter 494 of said Acts, the Planning Board herewith respectfully submits its annual report, and recommendations for the year 1920.

The Board organized for the year by re-electing William F. Riley, Chairman, and David J. Kelley, Secretary, the other members of the board being George J. Rauh and Paul R. Valentine At the time of meeting for organization there was a vacancy existing, caused by the resignation of Harrison L. Evans.

During the year the Board held several meetings and discussed various matters of interest to the citizens, and after consideration thereof it was voted to make the following recommendations;

## Housing Conditions.

During the past year the problem most in the minds of the majority of our citizens has been the serious shortage of houses. This situation has been state wide, and has received the attention of the Legislature, resulting in the passage of laws tending to help relieve the existing conditions, but a serious shortage of houses still continues.

Although the Planning Board has no jurisdiction affecting this economic condition it respectfully calls attention to the authority given it by the Act of the Legislature creating it, which defines its duties to be chiefly "to make careful studies of the resources and needs of the city, particularly with respect to conditions injurious to public health — in and about rented dwellings."

The Planning Board is ready at any time to investigate any complaints made to it tending to prove that conditions exist which may be detrimental to the public health due to the present housing shortage, and recommends that all complaints from citizens alleging that such conditions exist, be referred to it for investigation and report.

#### Bridge Street Widening

The urgent and increasing necessity of some action with reference to the widening of Bridge Street becomes more ap-

parent each succeeding year. The Planning Board believes that some solution for the dangerous condition due to the narrowness of this public highway should be determined upon by a joint conference of a committee from the Board of Aldermen of our city and the City Council of our neighboring city of Cambridge.

The worst part of Bridge Street, that is, the part which needs widening, is practically all located within the boundaries of the City of Cambridge. At the last conference held by the Planning Board with the Cambridge Planning Board about two years ago, the opinion of the Cambridge City government was that it should not be called upon to spend money for an

undertaking which would chiefly benefit Somerville.

As recommended in the reports of 1916, 1917, 1918 and 1919 the Planning Board again strongly urges that some definite action be taken to remedy this condition before the property now abutting on that part of Bridge Street is increased in value. At present the old houses now standing are nearly all unoccupied, and if the widening could be undertaken during the coming year it would result in a large saving for damages due to the taking based on the present assessed valuation of this property.

#### Street Car Service.

It seems that the street car service still needs a great deal of improvement. The so-called one man cars now in operation are unsuitable, and their operation during rush hours should be prohibited by the Public Service Commission. The Planning Board is mindful of the fact that the Mayor and Board of Aldermen have continually and consistently tried to improve the street car situation, and recommends that these efforts be continued until better results are apparent. Somerville has no so-called jitneys and their exclusion entitles this city at least to additional accommodations, especially when our citizens are being taxed to secure better street car service and more cars.

#### Public Parks and Buildings.

The development of social centers in the various schoolhouse districts should be encouraged, and our citizens urged to make use of the school buildings for social entertainments, thereby fostering an interest in civic affairs and helping to make better citizens.

The school buildings are public buildings, and as such the Planning Board recommends that they be freely used by all our citizens for neighborhood gatherings and public meetings or entertainments.

The Planning Board again suggests that the land owned by the city known as the City Ledge be graded and laid out as a playground for the benefit of the Clarendon Hill section of our city.

#### Fire Protection.

As recommended in our report for 1919 the Planning Board again respectfully calls your attention to the necessity of establishing Fire Districts in our city. The conditions existing last year still continue and the Planning Board is of the opinion that something should be done while new building is at a standstill to establish fire districts. Somerville is practically the only city in the Metropolitan District without an ordinance establishing fire districts. Somerville should not delay longer in passing an ordinance of some kind to establish fire districts. Therefore the Planning Board recommends that a committee be appointed to draw up a plan, dividing the city into fire districts, and that an ordinance be drafted by the City Solicitor for the purpose of establishing the fire districts so decided upon.

## Appropriation.

The Planning Board did not use the whole of the appropriation allotted to it because it did not wish to attempt to carry out plans which it would be unable to pay for out of the limited sum given. It hopes to add to its equipment from time to time, so that eventually it will be able to render valuable service to the citizens of the city and the city government.

During the past year it has corresponded with many cities in several states, and has information in its files with reference to industrial facts which may be of value to our citizens. It has also furnished information concerning Somerville to other cities of the country and recommends that inquiries concerning Somerville industrial sites be referred to it for attention.

The Planning Board respectfully requests that it be given an appropriation of at least \$200 this year, so that it may be able to make further progress in its effort to be of service to the citizens of Somerville.

## Respectfully submitted,

WILLIAM F. RILEY, Chairman GEORGE J. RAUH PAUL R. VALENTINE DAVID J. KELLEY, Secretary

## REPORT OF THE CITY ENGINEER.

Office of the City Engineer, City Hall, Somerville, January 17, 1921.

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

Gentlemen, — In accordance with the city ordinances, the following report of the work done and expense incurred for the year ending December 31, 1920, by the Engineering Department and appropriations under my charge and supervision, including the accounts of city engineer, sewers construction, sewers maintenance, parks maintenance, playgrounds maintenance, and other public works, is herewith presented: — my twenty-fifth annual report as city engineer.

#### ENGINEERING DEPARTMENT.

In previous reports the general work, charter requirements and city ordinances relating to the duties of the city engineer have been fully described.

On account of the excessive cost very little new construction work has been attempted, the greater part of the work done, being for repairs and maintenance in the various divisions.

Divisions	Appropriat	ions	and Credits	Expenditure	s Balances
City Engineer .	\$15,835	00	904 00	\$16,785 36	3 \$3 14
Parks Maintenance	10,500	00	800 00	11,299 89	11
Playgrounds Maint.	5,160	00	150 13	5,309 82	31
Sewers Maintenance	23,435	00	79 79	23,514 26	53
Sewers Construction	 4,784	75	50 47	4,834 60	62

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

#### CITY ENGINEER DIVISION, CLASSIFICATION OF EXPENSES, 1920.

\$1,789	80
2,947	78
963	78
876	00
	963

Parks and Public Grounds,—comprising surveys, plans, estimates, profiles and grades, including laying out of		
parks, playgrounds, boulevard and supervision.  Public Buildings, — comprising surveys, estimates, lines	1,060	493
and grades, and other work relating to construction		
and laying out of grounds	241	68;
Street Numbering, — comprising locations of buildings,		
plans, assigning street numbers	662	<b>78</b> -
Street Lines and Grades, — comprising establishing of		
lines, grades, and miscellaneous data given parties for building and grading	255	7.4
for building and grading	200	14:
profiles, estimates, lines and grades, etc	256	34
City Survey, — comprising establishing of street lines, ac-		
ceptance plans, and miscellaneous survey work for		
city map, etc.	1,387	80.
Middlesex Registry, — comprising copying of plans, and ab-		
stracts from deeds and examination of titles filed at East Cambridge, also tracing of street acceptance and		
sewer taking plans filed for record	230	20
Private Corporations, Railway, Telephone, Electric Light		
and Gas Light Companies, — comprising grades, plans,		
profiles and office notes, locations of poles and con-		
duits	365	92
Setting Stone Bounds and Brass Rods, — defining street lines	515	96
Office work, — comprising record of all locations, index-	910	30
ing, typewriting, bookkeeping, calculations, reports,		
and general draughting	3,502	06
Miscellaneous Work, — comprising preliminary surveys,		
designs, sketches, etc., relating to various schemes for	015	- 4
different committees	617 1,039	
Guard duty		34
Total	<b>\$16,735</b>	86.

Value of field instruments, tools and office instruments, \$2,000.00.

The total cost of maintaining the Engineer's Division since it was established, 1872 - 1920, both years inclusive, has amounted to \$410,090.00.

Seven assistants have been employed during part of the year and six assistants the entire year, on engineering work.

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

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

Many streets and avenues in the city are of the same, 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.

Some of the old main thoroughfares should be re-numbered their entire length, so as to eliminate half numbers and letters now being used; and certain streets where traffic is congested should be made "one way" streets.

STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1920, UNDER THE BETTERMENT ACT.

Date of	Acceptance  May 28, 1920  November 17, 1920  November 12, 1920  June 28, 1920	
Length	in ft. 293 387 271 673	1624
Width	in ft. 22 21-32 40 20	
	To Cedar Street Boston Line Fairmount Avenue . Belmont Street	(0.308 miles)
	From Linden Avenue End of Accepted part Broadway Highland Avenue	•
	Ward 6 1 1 7 6 6	
	Name of Street Cedar Avenue . Crescent Street . Dickson Street . Spring Hill Terrace .	Total

Supplement to the Table of Streets in the 1919 report of City Engineer.

New streets or courts added during 1929.

Street	From	To.	Public or Private	Width in Feet Pi	ngth Private
Court	Washingtonave	Franklin ave.	Private	6	 95

Four private streets changed to public ways during 1920 (foregoing table) 1,624

(Summary) Total 446,707 85,590°

Public, 84.603 miles (includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway); private 16,210 miles.

Total length of streets in the city 100.813 miles.

In the 1910 report, tables were published showing old names of certain streets as formerly known, and names of public squares in the city. (Name of Oak Square changed to Wilson Square).

### Length of Public Streets In Each Ward.

										Miles
War	d one									10.732
War	d two									9.572
War	d thre	ee .					•			7.630
War	d four	r.								9.965
War	d five						•-	•.	•.	12.388
War	d six									13.689
War	d sev	en .								20.627
										<b>——</b>
	Total	length	of	public	streets	in	the city			84.603

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,

In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and in the reports of 1908, 1910, 1911, 1913, 1919, and with the following table will show location of all bounds set to 1921.

STREETS ACCEPTED AS PUBLIC HIGHWAYS IN 1920, UNDER THE BETTERMENT ACT.

Date of	Acceptance	May 28, 1920	November 17, 1920	November 12, 1920	June 26, 1920		
Length	in ft.	293	200	17.7	673	1694	107
Width	in ft.				20		
	To	Cedar Street	Boston Line	Fairmount Avenue.	Belmont Street		(0.308 miles) .
	From	Linden Avenue	End of Accepted part .	Broadway	Highland Avenue		
	Ward	9	-	2	9		
	Name of Street	Gedar Avenue	Crescent Street	Dickson Street .	Spring Hill Terrace.	1	Total

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War	d three	e .								7.630
War	d four					•				9.965
War	d five						•-	•.	•-	12.388
War	d six									13.689
War	d seve	n.		•		•				20.627
										<del></del>
	Total 1	ength	of p	ublic	streets	in the	city			84.603

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In the 1907 report a table was compiled from old reports, maps, and office notes, showing the location of stone bounds; the year when set, and whether existing or removed from 1860 to 1907 inclusive, and in the reports of 1908, 1910, 1911, 1913, 1919, and with the following table will show location of all bounds set to 1921.

### STREET BOUNDS SET IN 1920. (Brass rods set in cement)

Belknap Street, — East side at Broadway X 2 foot offset lines. Clarendon Avenue, — East side at Broadway X 2 foot offset lines. Clarendon Avenue, - East side at Cambridge City line X 2 foot offset line of Clarendon Ave. and True City line.

Conwell Avenue, — South side at Curtis St. X 2 foot offset lines.

Conwell Avenue, — South side at North St. X 2 foot offset lines.

Cooney Street, — East side at Line St. X 2 foot offset lines.

Dane Avenue, — South side at Leland St. X 2 foot offset lines.

Dane Avenue, — South side at Dane St. X 2 foot offset lines.

Derby Street, — North side at Grant St. East side X 2 foot offset lines.

Derby Street, — North side at Wheatland St. X 2 foot offset lines.

Foskett Street, - North side at Liberty Ave. X 2 foot offset lines.

Glendale Avenue, — North side at Cameron Ave. X 2 foot offset lines. Josephine Avenue, — West side at Morrison Ave. X 2 foot offset lines. Josephine Avenue, — West side at North side of Kidder Ave. X 2 foot

offset lines.

Josephine Avenue, — West side at Broadway X 2 foot offset lines. Linden Avenue, - East side at North side of Summer St. X 2 foot off-

Malvern Avenue, — North side at Cameron Ave. X 2 foot offset lines. Malvern Avenue, — North side at Yorktown St. X 2 foot offset lines. Meacham Street, — North side at West side Fremont St. X 2 foot off-

Ossipee Road, — North side at Curtis St. X 2 foot offset lines.

Ossipee Road, — North side at West side Packard Ave. X 2 foot offset

Ossipee Road, — North side at East side Packard Ave. X 2 foot offset

Raymond Avenue, — South side at Curtis St. X 2 foot offset lines Raymond Avenue, — South side at North St. X 2 foot offset lines.

Seven Pines Avenue, - North side at Cameron Ave. X 2 foot offset

Taylor Street, — East side at Sydney St. X 2 foot offset lines. Victoria Street, - West side at South side of Woodstock St. Stone Bound drilled.

Wigglesworth Street, — East side at South side of Otis St. Stone Bound set at X 2 foot offset lines.

There are at the present time a total of 657 bounds or brass rods set for defining street lines.

Three new streets have been constructed, under the betterment act, with a bituminous macadam wearing surface, concrete gutters and granite edgestones, a total of 1,521 feet (.29 mile); the work being done by contract.

The average cost of this type of construction complete, for a forty-foot width street, was \$9.35 per linear foot, a high rate, on account of the unusual cost of materials and labor.

Assessments have been levied on abutting property owners for approximately one-half of the cost of constructing these streets.

New granite block pavement has been laid on a concrete base with a cement grout in sections of Linwood Street and Beacon Street — also Windsor Street and Hunting Street

have been constructed with this type of pavement. 8,100 square yards (2,304 feet in length) were constructed by contract at \$7.10 per yard complete; including Fitchburg Street (a private way) where the property owners paid the entire expense of paving.

In constructing the granite pavement, new streets and side-

walks 4,300 feet (0.81 mile) of new edgestone were set.

The total length of permanent paved streets in the city amounts to 17.64 miles.

Permanent street pavement should be extended as rapidly as possible, using old granite block, re-cut and laid on a concrete base, the best and most economical pavement for this city.

Grades were given and measurements taken for the re-construction of twenty-four streets with a bituminous wearing surface, a length of 16,906 feet (3.2 miles).

### TABLE OF STREET CONSTRUCTION.

				Square Yards	Miles
*Streets paved with granite blocks				130,089	5.59
**Streets paved with concrete .				23,990	1.42
†Streets paved with asphaltic top				42,215	2.59
Streets paved with vitrified brick				20,958	1.29
Streets paved with "Bi-co-mac".				10,100	0.77
Streets paved with bitulithic (patent	:)			3,059	0.06
Combination pavement (concrete	base	9	with		
bituminous top)				89,205	5.92
‡Streets macadamized (bituminous	binde	er)			42.01
Streets madacamized (water bound)					24.73
Streets graveled or unimproved					16.43
Total	•		•		100.81

<sup>\*</sup> Also 31.9 miles (single track) electric railway paved with granite, asphalt, bitulithic, etc.

There are a number of very dangerous crossings in this city at intersecting public thoroughfares, where the corners should be cut back and the roadway widened for the safety of traffic and improvement in appearance.

Lines and grades were given for constructing ten new granolithic and brick sidewalks, 3,737 square yards (0.8 mile), and assessments computed, the abutting property owners paying one-half the cost.

<sup>\*\*</sup> Includes 0.42 mile state highway.

<sup>†</sup> Includes 1.16 miles of state highway.

<sup>‡</sup> Includes 1.406 miles of city boulevard and park roadways and 2.331 miles of state boulevard (Metropolitan Park Commission).

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		19.827	3.756	12.093	4.617
Ward	two		16.807	`6.591	6.497	3.534
Ward	three		14.325	0.840	11.572	1.911
Ward	four		15.309	1.342	9.993	3.906
Ward	five		22.679	4.540	12.194	5.875
Ward	six		24.826	4.387	10.678	10.711
Ward	seven		32.791	2.502	8.389	22.073
			146.564	23.958	71.416	52.627

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

The Boston Elevated Railway Company have petitioned for a relocation of tracks in certain streets and has made extensive repairs in its roadbed in this city during the past year, replacing long sections of old tracks with new and heavier rails. There are, however, a number of miles of trackage, orders having been granted for widening in the city's main thorough ares, where the old granite block pavement, within the railroad location, should be relaid and grouted with cement and additional catch basins constructed between the rails to relieve the flooding of sections of certain streets in times of heavy storms. There are 32 miles of electric railroad (single track length) at the present time in the city's streets. A considerable length of high power cables have been placed in underground conduits.

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

A special ordinance should be enacted concerning city inspection on all underground work done by private companies or corporations and regulation as to method of street openings.

At the present time there are underground in the city's streets 17.64 miles of telephone conduits, 12.42 miles of electric light conduits, 1.65 miles of electric railway conduits; and about 9.7 miles of underground conduits used for the city's wires.

The Cambridge and Charlestown gas companies have respectively 63.42 and 28.1 miles of gas mains in the city's streets.

Lines and grades have been given for laying new city water mains. New house services, many gates, hydrants, water posts and blow-offs have been located and recorded, sketches and plans made showing the same, and the water works maps corrected to date; also a large number of old water services where new meters were installed, have been located and recorded.

A number of the locations of old hydrants, gates, etc., have been found to be incorrect, a few having been removed entirely; a new survey of the entire distribution system should be made and the maps and office records compiled. (Length of water mains, details, etc., in report of Water Commissioner).

Lines and grades have been given for the erection of city buildings and plans and sketches made for the laying out of

surrounding grounds.

Plans have been made and photographs taken where accidents have occurred on the city work, or where boundaries were in dispute and special plans and data prepared for the city solicitor's use in court cases and Federal, State and Municipal hearings attended where information was required.

All plans of estates in Somerville recorded at the Registry of Deeds, East Cambridge, including land court plans, have been copied, also titles examined, abstracts from deeds made for the purpose of assessments, and the proportional part of the cost of new work computed, and schedules of assessments made out showing the property owners.

Total number of plans on file in the office approximately

eight thousand two hundred.

A skeleton map of the city has been made for the Somerville Board of Trade showing steam and electric car lines, principal streets, public buildings and locations of principal industries: — also a street map for the American Automobile Association showing the various routes for auto traffic through the city, details of pavement, land marks, etc.

A plan and data has been compiled showing a proposed widening of Bridge Street (East Cambridge) being the exten-

sion of Somerville Avenue: — a much needed public improvement for relieving the present congested traffic and business.

Lines and grades were given and a concrete foundation constructed for the monument erected in Union Square in memory of the (ward two) World War veterans.

Considerable information and data has been prepared for

the Somerville Civic Survey report.

Perambulation of the Somerville-Cambridge city boundary line: — In December, a committee appointed from each city, city engineers and street commissioners) examined the monuments and reference points defining the division line between these two cities and reported their findings in due form to the board of aldermen. The granite bound No. 10 is to be cut off to the Beacon Street sidewalk grade and bound No. 19 is to be raised to the surface of lawn at estate Russell Street.

These boundary lines are perambulated every five years

as préscribed by the statutes.

Several conferences were held by representatives of the city governments (including city engineers) of Somerville and Medford relative to the changing of the boundary line between the two cities, but no definite action was taken by either municipality. From the various studies presented, an exchange of territory can be made that would be equally advantageous.

For the immediate improvement of conditions in this city the highway bridges and approaches over the steam railroads should be re-built the full width of the street at Broadway, (North Somerville) Prospect Street and Washington Street, near Union Square; and the steam railroad bridge over Washington Street (East Somerville) re-constructed with increased head-room for street traffic, — the dangerous grade crossing at Park Street should be abolished, as decreed by the courts a number of years ago, and a foot-bridge should be constructed over the railroad tracks making a connection between Wilson Square-Craigie Street and Stanford Terrace-Beacon Street.

I respectfully refer to some of the more important recommendations and suggestions made in reports of the city engineer for a number of years past which are for the improvement of conditions in this city.

### SEWER DIVISION.

The high cost of materials and labor has prevented the extension of the "separate system" sewers and likewise storm drain construction work, except that absolutely necessary.

No sewers have been petitioned for during the year and only a small amount of new construction work has been done.

Construction Account, Stat	ement of	Expenses, 192	20.	
Constructing sewers (combined sys	tem) .	\$757 60		
Constructing storm drains		2,429 46		
Constructing catch basins		2,026 79		
Constructing manholes on sewers.		165 00		
Cost of new work			\$5,378	85
Charged to other departments, mater		50 47	, - ,	
Materials on hand December 31 .		786 28		
			836	75
Total	•		\$6,215	60
Cred	it.			
Appropriation		\$4,100 00		
Balance unexpended, 1919		684 75	. =	
			4,784	<b>75</b>
Received for materials, etc		50 47		
Materials on hand January 1, 1920.		1,381 00		
Total			6,216	22
Balance unexpended (over to 192	1)		\$	62

The Elmwood Street and Conwell Avenue storm drains commenced in 1919 have been completed and future extensions will provide for the disposal of storm water from two large areas in the westerly part of the city.

This work has been done by the city employing day labor;

520 feet of 12" pipe laid during the year.

One sewer was constructed during the year, a length of 206 feet of 10" and 8" pipe, being the extension of a private sewer in Windsor Street southerly to near the Cambridge line; this work was done by the contractor, who was paving the street.

The total length of the city's drainage system is 113.247 miles, and the entire cost of construction has amounted to about \$1,356,538.00, exclusive of the amount paid to the state for assessments for the construction of the North Metropolitan sewerage system.

The city's assessment for the Metropolitan sewerage system for the past year was \$53,381.08 on construction account and \$36,558.18 for maintenance, and the total amount paid the Commonwealth of Massachusetts for this state sewer has been \$1,501,206.05 (1892 - 1920, both years inclusive). The total length of the Metropolitan sewerage system mains running through the city amounts to 3.475 miles.

There are within the city's limits thirteen connections with the North Metropolitan state sewerage system, also four outlets through the city of Cambridge and three outlets through the city of Medford. The locations of the connections of the city's mains with the state sewer are shown in the 1912

report, and details of construction in previous reports.

## STATEMENT OF SEWERS AND STORM DRAINS CONSTRUCTED TO 1921.

501,665.6 ft. 34,748.0	536,413.6 = 101.593 miles* 61,532.3 = 11.654 miles	113.247 miles 3.475 miles
		e cit;
		th the
		hroug
Total length of public sewers in the city, January 1, 1921 . Total length of private sewers in the city, January 1, 1921 .	Total length of sewers in the city, January 1, 1921 . Total length of storm drains in the city, January 1, 1921 .	Total length of city drainage system, January 1, 1921. Total length of Metropolitan sewerage system mains running through the city

\* (32.344 miles separate system sewers).

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

Sixteen catch basins have been constructed in the high-ways during the year, making a total of 1,980 basins in the city for drainage purposes, constructed and maintained as follows:—

By the city (sewers division):—  Located in streets and subways  Located in city boulevard  Located in parks (17) and other city lots (12)	1,818 33 29	basins
Total catch basins constructed and maintained		
by the city		1,880
By Boston & Maine Railroad Company on railroad lo-	0.0	, .
cations		basins
By State, located in boulevards, and highways.	130	• • • • • • • • • • • • • • • • • • • •
		166
Total catch basins in the city for storm drainage		
purposes		2,046

The separate system sewers should be extended in the old sections of the city each year, as the appropriation will allow, and storm drains completed in certain localities as previously recommended: — especially in the North Somerville district, — and at the East Cambridge line extending from the Somerville Avenue sewer and discharging into Miller's River.

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

### MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1920.

Maintenance of sewers, including cleaning	
and flushing (113.25 miles)	\$4,633 40
Maintenance of catch basins, cleaning and	
flushing 1,880)	14,756 56
Maintenance of storm water pump, Med-	
ford Street	96 77
Changing line and grade and repairing	
catch basins	608 00
Changing line and grade and repairing	
manholes	414 67
Repairing old sewers	638 83
Inspection and location of house drains.	1,048 35
New tools and supplies	308 14
Repairs of tools and property	69 55
Maintenance of sewer division yards .	838 75
Telephone	53 05

\$23,466 07

Labor, teaming and materials for departments					48	19
Total expenditures . Transferred to Parks division (\$8					\$23,514	26
City Engineer Account (\$590)		•			1,390	00
Total	edit.				\$24,904	26
Appropriation (\$23325) (\$1500) Received from other departments			\$24,825 79	00 79		
Total credit					\$24,904	79
Balance unexpended .					\$	53

Value of tools and property on hand in maintenance of sewers, \$2,500.00.

A permanent force of men, varying in number from twelve to seventeen, and teams are kept continually at work flushing, cleaning and repairing the city's drainage system, catch basins. etc., the expense necessarily increasing yearly as lengths of sewers, drains and catch basins are added to the system, and the distance increased to the dumps. These dumping places are fast diminishing and in a very few years' time some other means of disposal will have to be provided.

Approximately 5,600 cubic yards of material have been removed from the catch basins and sewers during the year, at an average cost of about \$2.64 per cubic yard, and the average cost per mile for cleaning and flushing the drainage system, including catch basins, has amounted to about \$171.21. There are about twenty catch basins (average) to a mile of roadway in this city and the approximate cost of cleaning per basin has been \$7.85 the past year.

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

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

One hundred and five permits have been issued to licensed drain layers for connecting buildings with main sewers and storm drains, seventy-two being for repairs or alterations; all of the work being done under the supervision of the city's inspector.

Certain persons are licensed as drain layers by the city and under bonds, for the purpose of laying these private drains.

There are to date about 16,556 private house drain connections with the city's drainage system.

During the year the sewer division has done considerable miscellaneous work for other city departments and outside companies furnishing materials and labor, and being partially reimbursed for the same.

Some of the old trunk sewers which were constructed many years ago are in a dangerous condition; sections, where the arch is badly cracked and liable to collapse any time, should be immediately rebuilt.

### PARKS AND PLAYGROUNDS DIVISION.

Under this division about seventy-five acres are maintained as parks and playgrounds, and approximately a mile of city boulevard; 65.5 acres are owned by the city and certain areas owned by private parties are turned over to the city for recreation purposes, also satisfactory arrangements have been made for a number of years whereby the city has the use of Tufts College playfield during the summer vacation months, and skating areas in the winter. Over 2,000 trees of various varieties are located on these grounds. These areas when completely developed will compare favorably with other cities in the vicinity.

Athletics in general have revived since the war and the baseball "diamonds," football fields, tennis courts and athletic apparatus located on the various playfields have been in constant use. The money generally spent for flower beds, shrubs, etc., for ornamentation of the various city grounds has been used in cultivating areas of park and playground land, and many school children have devoted their time and energies to the raising of vegetables.

The past year, this division of the engineering department has had the supervision and work of plowing and harrowing the various parcels of land used, an expenditure of approximately \$250.00.

### MAINTENANCE ACCOUNT, STATEMENT OF EXPENSES, 1920.

Playgrounds		Parks <sup>-</sup>
\$318 75 160 66 1,060 07 30 00 8 00	Broadway Park (15.9 acres)	\$1,837 89 223 00 1,843 01 1,146 81 1,743 89 1,243 23 21 00 561 11 1,254 42 121 75 141 50
1,016 89 1,195 50	Somerville Field at Alewife Brook (11.5 acres) Richard Trum Playground, Cedar street and Broadway	469 47 385 84
268 03	Playground, Glen street and Oliver street (0.9 acre + 1.5 acres private land).	23 00
261 90	Playground, Kent street and Somerville avenue (0.8 acre)	114 63
113 59	Playground, Poplar and Joy street (0.5 acre)	14 00
23 00	Playground, Beacon street near Washington street (0.2 acre)	8 00°
29 00	Playground, Webster avenue, near Cambridge line (0.2 acre)	12 00
151 99	Playground, Mason street and Broadway Tennis court (0.3 acre)	4 00
59 50	Playground, Fellsway East (2.5 acres private	24 00
430 81	Tufts College Land (Summer and Winter Playground, 4.8 acres)	8 00°
32 00	Plowing, harrowing and fertilizing Park and Playground areas for planting	99 34
150 13	Plowing, harrowing, etc., for Recreation Commission, Private Land	
\$5,309 82		\$11,299 89
Playgrounds and Recreation \$5,160 00	Credit.  Appropriation for Parks	Parks \$10,500 00 800 00
150 13	Received from Recreation and Playground Commission	
\$5,310 13	Total credit	\$11,300 00
\$0 31	Balance unexpended	\$0 11.

The number of men employed has varied from seven to sixteen.

The city's assessment for Metropolitan parks and boulevards for the year 1920 amounted to \$18,601.69 on construction account, and \$38, 907.90 being the proportional cost for maintaining the same; in addition to this the city's special assessment for the Charles River basin construction and maintenance amounted to \$9,593.89; for the improvement of Alewife brook and maintenance of same \$1,140.65 and for the maintenance of Wellington bridge across Mystic River, \$3,520.70. The total of these assessments amounts to \$71,764.83, being Somerville's proportional payment to the State on account of the Metropolitan park system for the year 1920.

The total assessment paid to the State for parks and boulevards amounts to \$837,735.62, January 1, 1921, and the length of State boulevard at present constructed in this city consists of seven-tenths of a mile of double roadway, 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.

Extensive repairs have been made on the Park roads and boulevard.

Back-stops on the ball fields have been re-constructed and fences repaired.

New shower baths were installed in the highway stable building at the Trum Playground, and the baths located at Lincoln Park have been kept open certain evenings during each week.

A hockey rink was constructed on Tufts College land and maintained during the winter.

All flag poles on the parks were repaired and painted; — flags are displayed on all parks every day throughout the year.

An unusual vegetable growth covering the entire water surface of the pond at Broadway Park with a thick green scum was removed at an expense of over Five Hundred Dollars.

A number of large Poplar trees on the Powder House Boulevard was uprooted and blown down during terrific wind and rain storms causing considerable damage to abutting property, houses, etc., and costing over \$400.00 for removal — new hardy growth trees should replace these trees the entire length of the boulevard.

Tennis courts have been in use at Mason Street playground, Somerville Field, Broadway, Central Hill and Lincoln parks. The Metropolitan District Commission have furnished band concerts, certain evenings during summer months, at Broadway park.

At the 4th of July fireworks display on Lincoln park a number of serious accidents to the spectators occurred.

All tar walks on Central Hill Park should be reconstructed and the wooden seats in the grand-stand at Somerville Field rebuilt immediately.

A permanent concrete field house should be constructed at the Somerville athletic field with all modern equipment and the rmaining area graded as soon as possible; when completed as originally designed the city will own one of the best recreation fields in the vicinity. (In the 1910 report, plan shows proposed complete laying out).

The city has become so densely populated that some of the larger park areas should be more extensively utilized for public recreation and physical training purposes; on several of the playfields concrete buildings should be constructed in place of some of the old wooden structures, additional apparatus provided on some of the principal parks and playgrounds for the smaller children's pleasure, where a regular park employee can have the care of the same, and some of the smaller playground areas should be enclosed by wire fencing for the protection of children.

In certain localities of the city well-lighted playgrounds, during the summer evenings, should be maintained, for the young men and women working in the factories daily.

Paul Revere Park area should be enlarged by acquiring additional land, constructing a street across from Main street to Broadway separating the city's park from the adjoining land, and thereby preserving an historical spot on the top of Winter Hill for the future, also making a convenient connection for travel.

In connection with the departmental work the Recreation and Playgrounds Commission, the Playgrounds Association and Women's Clubs have been of great assistance in advising, directing and promoting the city's welfare. (Details, etc., in Commission and Association reports).

The total yearly expenditure by the city departments and other Associations for recreation and play is over \$15,000.00.

Respectfully submitted,

ERNEST W. BAILEY,

### REPORT OF THE STREET COMMISSIONER.

OFFICE OF THE STREET COMMISSIONER, CITY HALL, Somerville, January 1, 1921.

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

Gentlemen:—I most respectfully submit the forty-fifth annual report, containing a brief summary of the principal work performed by the Highway Department, by day labor and contract, during the year 1920, with recommendations for necessary additions the coming year.

This department has charge of the construction, alteration, repair, maintenance and management of ways, streets, sidewalks and bridges; the setting out and care of shade trees; the suppression of gypsy and brown tail moths and elm leaf beetles; the oiling and watering of streets.

### Highway Department Appropriations.

				Appropr tions		Expenditures
Highway Maintenance .				<b>\$</b> 66,053	00	
Departmental transfers .		•	•	28,659	29	
'Total credit				94,712	29	94,691 05
Sidewalks Maintenance .	•			8,484		8,484 91
Street Sprinkling				43,330	00	43,328 52
Street Cleaning				26,600	00	
Suppression of Moths					48	4,902 48
Care of Trees		•		3,372	58	3,372 34
New Streets				29,650	00	29,609 00
Permanent Pavement				69,646	00	36,109 64
Sidewalks Construction				13,350	21	9,962 20
Reconstruction and Resurfacing	g.		•	39,900	00	39,899 74
				\$333,948	52	\$298,957 02

This city is fortunate in being located so that most of the supplies for this department are shipped to us by auto trucks.

The question of how to make, and how to maintain good streets, is one that is steadily pressing to the front as one of the most important concerns of this department.

In my opinon, granite paving blocks grouted on a concrete base, is the only kind of paving for any street where

there is to be heavy travel, and especially on a narrow street where there are double car tracks.

The Great Atlantic and Pacific Tea Company erected a fine fireproof store house on Fitchburg street and Linwood street. In order to have a good entrance to this store house they paved Fitchburg street, which is a private way, with granite paving blocks grouted on a concrete base, at their expense. This end of Linwood street should be paved by the city the coming year. Permission was given this company to lay a spur track under the Somerville avenue bridge connecting their store house with the Boston and Maine Railroad, Fitchburg Division. They, the Great Atlantic and Pacific Tea Company to repave the street on a concerete base and to assume all liabilities.

### Highway Maintenance.

The maintenance of all the equipment is charged to this appropriation. Such work as repairs of all streets, care of snow and ice, subways, street and traffic signs, bridges and approaches where grade crossings have been eliminated, is charged to this account. If any equipment is used for other accounts in this department or for other city departments, Highway Maintenance receives credit for same. Any work done for corporations, the revenue received is credited to general city revenue account.

### Highway Maintenance.

Total Appropriations					\$66,053 00
Street Commissioner				\$3,100 00	
Bookkeeper and clerk				2,711 47	
Telephones, 240.81 — Office exper	nse,	112.87		353 68	•
Equipment and repairs				5,229 70	
Harnesses				1,458 49	
Horses				1,300 00	
Tools and machinery				1,383 48	
Repairs — Rollers and mixers.				444 04	
Stable expense				6,413 14	
Hay, straw and feed				<b>11</b> ,499 62	
Shoeing				1,568 43	
Veterinary				231 71	
Repairs to streets, gutters, cross	ings			2,583 66	
Repairs special streets	• .			979 58	
Repairs permanent pavement.				4,601 94	
Repairs macadam pavement.		•		1,951 18	
Repairs bridges - approaches and	sub	ways		743 55	
Care of lanterns and traffic signs				720 81	
Snow and ice		•	•	13,196 60	

Signs		
Care Highway property 576 17		
Emergency calls		
Auto maintenance 2,853 48		
Chevrolet Roadster 847 00		
Sawing wood		
Allowance vacations and holidays 6,797 95		
Crushed stone		
Sand and gravel 4,612 24		
Ashes 211.03 - lampblk 30.86 - Lumber 157.13 399 02		
Bricks		
Cement		
Gasoline - kerosene		
Edgestone - paving blocks		
Buggestone paring brooks		
Fuel		
Tarvia (paroning)		
insurance on boriors		
Old of wateram. (barrow)		
Minocollatioods		
Tubilo Bolivioo Golpoladions		
Departmental charges 4,598 93		
Driveways, etc.,		
•		
94,691 05		
·	66,031	76
Offents	0,001	• •
Unexpended balance	\$21	24

### Underground Wires.

No underground conduits were constructed this year.

### Snow and Ice.

As no special appropriation is made for the care of ice and snow, what money is expended is taken from Highway Maintenance, thus cutting the appropriation where it is needed for work of a more permanent nature.

As many automobilists and truck owners desire to, and some must, use their machines the year round, they are demanding that the roads be cleared of snow, it means a large expenditure of money if any amount of snow should fall. The winter of 1920 will long be remembered by road men. The employees and horses of this department worked day and night trying to keep the streets and sidewalks opened for travel. All requests such as teaming away snow for funerals, weddings and emer-

gency calls were attended to. The coming year this department will have ploughs equipped on auto trucks and new horse drawn ploughs to keep the streets opened for travel.

569 requests and reports were attended to.

\$13,196.60 was expended for the care of snow and ice. 5358 cubic yards of snow and ice were removed. 4 cubic yards of sand and 327 cubic yards of ashes were used in caring for icy sidewalks, streets and crossings.

### Bridges.

Most of the bridges are in good condition, except the Lowell street bridges where extensive repairs must be made the coming year at the expense of the city.

### Crushed Stone.

The William J. McCarthy Co. furnished 15 tons of local crushed rock at \$2.00 per ton at their crusher and 5,031 tons at \$2.40 per ton on the line of work. Coleman Brothers 2,341 tons of trap rock at \$2.70 per ton on line of work.

### Steam Rollers.

No. 1 roller worked 1281/4 days.

No. 2 roller worked 1 day.

No. 4 roller worked 1121/2 days.

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

### Sidewalks Maintenance.

The old brick sidewalks on the north side of Somerville avenue from Union square to Drouett's block and in Davis square in front of the Medina and Lewis Blocks were removed and 1135 square yards of granolithic were laid. A good sum was saved on this work, under the estimate, because after removing the brick I found a good sand and gravel base and did not have to do any excavation. This work was done by city labor for \$2.36 per square yard. I hope this work in all the squares will be continued.

The resetting of edgestones, repairs of all kinds of sidewalks and Police reports pertaining to sidewalks are taken from this account. 5,478 linear feet of edgestones were reset. 1,815 square yards of brick sidewalks were relaid. 764 square yards of paved gutters were repaved and 141 square yards of granolithic were relaid.

\$8,484.91 was expended for Sidewalks Maintenance.

### Street Sprinkling.

Nearly all of our main streets and squares where there are car tracks are sprinkled and flushed by the American Car Sprinkler of Worcester. This car is in operation seven days a week and eight hours a day for \$1019.28 a month and has given good satisfaction.

About all the macadam streets were covered with Tarvia

"B."

A new auto oiling truck was purchased this year and was used on tar work.

Calcium Chloride was used in the winter on the squares to keep down the dust to the satisfaction of the store-keepers.

Dust layers used during the year: —

142,728 gallons of Tarvia "B" (Barrett's). 8,077 gallons of Lemery oil. 1,200 gallons of Gas House Tar.

I most respectfully recommend the purchase of a small auto truck with sprinkler attachment to care for the paved streets in different parts of the city where it is impossible for the car sprinkler to operate, for example, the slaughter house district where there are many paved streets and paved streets leading from the several squares with no car tracks on the same.

This year the assessment was increased one cent per foot making an assessment of six cents per linear foot for each abutter on any width of street.

This division of the department is self supporting. \$43,328.52 was expended for Street Sprinkling.

### Street Cleaning.

This year, following the annual Clean-Up-Week, Mayor Eldridge, by suggestion from delegates of the several Women's Clubs, had circulars printed and distributed to every tenant, calling their attention to a city ordinance in regard to throwing or dropping all kinds of rubbish in the street, and asking

their earnest co-operation in carrying out the meaning of the ordinance. From my observation I think the people did comply with the Mayor's request

ply with the Mayor's request.

I have received many suggestions from residents stating where they thought a waste barrel would help keep the streets clean. Their requests have been gladly complied with. There is a day cleaning patrol in all the squares, and the night cleaning crew patrols the same and attends to all police reports and emergency calls during the night.

5,899 cubic yards of street sweepings were removed.

\$28,597.14 was expended for Street Cleaning.

### Suppression of Moths.

This year the city did not make any assessment to the abutters for the care of moths on private property. This expense was taken from the appropriation. Public and private trees are cared for in regard to the removal of moth nests in the winter, thus giving work for the employees who otherwise would be unemployed at this time of the year. Street trees are sprayed in the spring and summer.

The city is nearly rid of the brown-tail moth. I am finding the gypsy moths on the increase, but by continuous fighting

every year I hope to keep them from spreading.

A new moth has appeared in this country called the Satin moth, it is found on the poplar trees. An inspector from the forester's office at the State House has inspected our city and found some of these egg clusters on our poplar trees and I surely will have these eggs destroyed.

Our spraying machine was thoroughly overhauled and

placed in first class condition for next year.

6,856 street trees were inspected and cared for. 15,493 private trees were inspected and cared for.

5,436 bushes were found moth infested.

15 vines were moth infested.

2,242 fences and buildings on which moths nested. 47,876 gypsy-moth nests were painted with creosote.

12 brown-tail moth nests were gathered and destroyed.

7,363 trees were sprayed by the gasoline spraying machine to exterminate the different kinds of caterpillars and beetles.

\$4,902 42 was expended for the Suppression of Moths.

### Shade Trees.

Street shade trees, in any city, unless they are set back of the sidewalk line, or in the grass plot back of the edgestone, stand a poor show to develop to any size. The conditions with which the shade trees have to contend in the city are a serious drawback to their growth, namely:—electric wires, gas leaks, permanent paving and insects.

80 trees were set out.

135 trees were removed.

350 trees were trimmed.

130 tree guards and supports installed.

\$3,372.34 was expended for the Care of Trees.

### Highways Construction — New Streets.

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

Setting edgestones 65c per linear foot.

Gutter construction \$3.45 per square yard. Construction of Macadam roadway \$1.15 per square yard.

The city furnished the edgestone and tarvia binder. Straight edgestone \$1.36 per linear foot. Circles \$1.90 per linear foot from S. & R. J. Lombard, delivered on line of work.

Tarvia binder 13c per gallon from the Barrett Co. delivered on line of work.

Four new streets were accepted this year. \$29,609.00 was expended for New Streets.

### NEW STREET CONSTRUCTED IN 1920.

ength Cost 644 \$4,343 04 245 2,166 84 632 6,116 08	117 2,486 49	530 14,418 25
Length Cost 644 \$4,343 245 2,166 632 6,116	117	530 1
Material Bituminous Macadam "" "	Granite paving blocks on concrete base. Granite paving blocks	on concrete base.
	Cambridge line	
From Somerville Ave Beacon St	South St.	
Allen street	Hunting street	William Scient W

# Sidewalks Constructed, One-half the Cost Being Assessed Upon the Abutting Estates.

	Cost	\$ 553 30	2,595 23	1,361 11	1,820 38	1,169 15	1,416 54	569 34	1	477 15
TO CO TO T	Grano.	123.1	732.3	370	286.7	332.9	379	162.3		
	Location	In front Est. No. 20 and Lots No. 3 and No. 4 and part No. 1	Easterly side — Linden Ave. to Porter St	Broadway to No. 42 Inc.	Westerly side — Woods Ave. to Medford line	Trull lane to School St	Kidder Ave. northwesterly to already laid	S. E'ly side of Lot No. 1 Morrison Ave. and at B. & M. R. R.	N. E'ly side, Medford St. to Vernon St. Grass plot filled in	with brick 216 sq. yds
	Street	Renton Boad	Elm street	Farragut avenue	North street	Oxford street	Prichard avenue	Willow avenue	Glenwood road	

### Sidewalks Construction.

The contracts for granolithic sidewalks were let to Denis I. Crimmings and Peter Salvi, of Somerville, who furnished all material and did the excavation at \$3.50 per square yard.

The city employees constructed a granolithic sidewalk

with edgestones on North street at Medford line.

Cost of edgestones, excavating and setting, \$2.22 per linear foot.

Cost of granolithic including excavation, \$3.00 per square vard.

Miles of edgestones, granolithic, brick and gravel side-

walks in the city:—

Length of edgestones				146.564 miles.
Granolithic sidewalks				57.627 miles.
Brick sidewalks .	• 10			71.416 miles.
Gravel sidewalks .		٠.		23.958 miles.

\$9,962.20 was expended for Sidewalks Construction.

### Highways Construction — Permanent Pavement.

A contract was let to William J. Sullivan at \$7.10 a square yard, for the paving with granite paving blocks grouted on a concrete base. He furnished all materials and did the excavating.

\$36,109.64 was expended for Permanent Pavement.

	Medford St. to Tufts St. southerly side	\$213	57
*Tufts street	Portion from Washington St. north-		
	easterly	165	<b>5</b> 2
'Webster avenue	Cambridge line to north of Columbia St.	81	67
*Beacon street	Dickinson St. to Buckingham St	2,149	95
Beacon street	Park St. to Sacramento St	18,872	15
North street	Repair gutters	410	10
Linwood street	Congress place, northerly	\$14,216	68
* Final Payments o	n work of 1920.		

### Reconstruction and Resurfacing.

Twenty-four streets were reconstructed or resurfaced under this appropriation at an average cost of \$2.34 per linear foot, by city employees.

The Public Works Committee, with the Mayor's approval, selected streets in each ward to be resurfaced or reconstructed from this appropriation. I hope they will continue the work the coming year.

\$39,899.74 was expended for Reconstruction and Resurfacing.

RECONSTRUCTION AND RESURFACING APPROPRIATION.

Streets Reconstructed and Resurfaced	in 1920.
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s Reconstructed	Resurfaced
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Streets	ĕ
Street	S
	Street

نب	3 69	9 25	8 67	9 95		м	3 42	м	_				9 27		4 95		-	5 71		2 45		5 54	4 87	66 2
Cost	\$1,233	1,079	3,028	1,159	1,030	51.	1,748	2,447	468	3,333	2,003	2,006	1,209	2,719	1,104	2,000	423	925	1,429	1,122	399	4,108	1,51	2,627
Length	580	438	830	585	655	399	930	589	647	1349	850	009	909	781	582	1100	615	350	559	405	484	1364	575	1123
Width	40	40	40	40	34	40	40	40	40	45	40	40	40	40	40	40	40	40	40	40	40	40	40	40
То	Robinson street	Bonair street	Vernon street	Austin street	Washington street .	Kingston street	Summer street	Hancock street	Cambridge Line	Cedar street	Permanent Pavement.	Washington street .	Lincoln Park	Summer street	Bartlett street	Pearl street	Grant street	Medford street	Highland avenue.	Jasper street	Benton Road	Mystic avenue	Hancock street	Clifton street
From	Bartlett street	Broadway	Medford street	Union street	Beacon street	Meacham road	Highland avenue	Willow avenue	Meacham Road	Willow avenue	Cambridge Line	Pearl street	Washington street	Somerville avenue	Central street	Broadway	Temple street	Pembroke street	Crown street	Aldrich street	Central street	Broadway	Willow avenue	College avenue
Street	Ames street	Arthur street	Bartlett street	Benedict street	Calvin street	Campbell Park	Central street	Charnwood Road	Kingston street	Lexington avenue	Meacham Road	Mt. Vernon street	Perry street	Quincy street	Robinson street	Kush street	Sewall street	Sycamore street	Tower street	virginia street	westwood road	wheatland street	Willasor Road	winslow avenue

### Miscellaneous.

66 Granolithic driveways constructed.

42 Brick driveways constructed.

17 Edgestones dropped. 4 Driveways extended. 4 Driveways discontinued. 3 Carriage walks constructed.

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

Length of public streets 84.603 miles.

Two horses were killed on account of disability and five horses were purchased during the year.

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

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

### Labor.

The regular employees were given two weeks vacation and all employees, twelve months Saturday half holiday without loss of pay. Mayor Eldridge increased the pay of all employees May 2, 1920, to a minimum daily wage of \$4.00, drivers and chauffeurs \$4.10, mechanics \$4.50 and engineers \$4.75.

Eight hours constitute a day.

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

There were during 1920:—

113 permits were issued to the Cambridge and Charlestown Gas Companies 226 permits issued to occupy streets and sidewalks.

71 permits issued to cross sidewalks.

27 permits issued to feed horses.

35 street sprinkling complaints and requests.

237 notifications to other departments and corporations.

24 accident reports.

873 police reports.

507 brick and granolithic sidewalks repaired.

865 miscellaneous reports and requests.

38 drain layers permits.

581 water department openings.

92 permits to open streets and sidewalks.

15 danger signs erected.

41 new signs erected. 101 signs repainted.

- 78 streets cleaned by request.
- 4025 cubic yards of sand and gravel used. 2666 cubic yards of dirt removed.

1785 cubic yards old macadam used.

979 cubic yards of ashes used.

1790 bags of Portland cement used.

### Recommendations.

I most respectfully recommend that Somerville avenue from Beacon street to Porter Station, Cambridge, be paved with granite paving blocks grouted on a concrete base; that the granite paving started on Linwood street, Tufts street and Beacon street be completed. I should like to see some of the good work, started a few years ago, such as re-cutting the paveing blocks and relaying them on a concrete base on such main thoroughfares as Somerville avenue and Washington street, continued the coming year.

I recommend the purchase of a small auto-truck sprinkler, also a garage to be erected at the city stable yard to care for automobiles and trucks used in the department.

I wish to express to His Honor, Charles W. Eldridge, my appreciation of the interest and valuable assistance rendered me and the department.

My acknowledgments are due to the Board of Aldermen and heads of departments for their courtesy and consideration in matters pertaining to the business of the city, also for the co-operation of all employees of the department and citizens of our city.

Respectfully submitted,

Asa B. Prichard,

Street Commissioner.

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

			Public	Width	Leng	gth.
Street	From	То	or Private.	in Feet P	ubli <b>c</b> Pr	rivate
Abdell	Somerville ave	Southwesterly	Private.	25		203
Aberdeen road	Cedar st.	Highland ave.	Public.	40	449	••••
Aberdeen rd. ex		Westerly	Private.	30	256	67
Acadia pk. Adams	Somerville ave Broadway	Northeasterly Medford st.	Public. Public.	40 40	907	*****
Adelaide rd	Somerville ave	Northeasterly	Private.	20		138
Adrian	Marion st.	Joseph st.	Public.	40	579	1.00
Albion pl. Albion ct.	Albion st.	Northeasterly Southeasterly	Private. Private.	10 16	•••••	166 116
Albion Ct.	Central st.	Cedar st.	Public.	40	2,742	
Albion	Broadway	Medford line	Private.	50	*****	100.
Albion ter.	Albion st.	Southwesterly	Public. Public.	$\frac{25}{40}$	$\begin{array}{c} 100 \\ 508 \end{array}$	*****
Alderse <b>y</b> Aldrich	Walnut st. Pearl st.	Vinal ave. B. & L. R. R.	Public.	40	611	******
	Mystic Val. pky				4,775	*****
Alfred	Broadway	Medford line	Private.	50		50
Allen Allen <b>ct</b>	Somerville ave Park st.	Charlestown st. Northwesterly	Private.	$\frac{25}{20}$	644	150
Alpine	Cedar st.	Southeasterly	Public.	30	667	*****
Alpine	Alpine st.	Lowell st.	Public,	40	688	
Alston	Cross st.	Shawmut st.	Public.	40-30 40	757 580	*****
Ames Appleton	Bartlett st. Willow ave.	Robinson st. Clifton st.	Public. Public.	40	548	*****
Appleton	Clifton st.	Liberty ave.	Public.	40	120	*****
Arlington	Franklin st.	Lincoln st.	Public.	40	452	107
Arnold ave	Porter st. Beacon st.	Southeasterly Northeasterly	Private.	15 10	•••••	127 115
Arthur ct.	Linden st.	Easterly	Private.		)	100
Arthur	Broadway	Bonair st.	Public.	40	438	
Ash ave.	Meacham st.	East Albion st.		40	554	151
Ash ave. Ashland	East Albion st. Summer st.	Northeasterly Sartwell ave.	Private. Public.	40 <b>30</b>	478	191
Atherton	Central st.	Spring st.	Public.	40	741	
Auburn ave.	Cross st.	B. & L. R. R.	Public.	30	606	
Austin Autumn	Broadway Broadway	Mystic ave. Bonuir st.	Public. Public.	·40 ·20	716 408	*****
Avon	School st.	Central st.	Fublic.	40	1,360	•••••
Avon pl.	Cross st.	B. & L. R. R.	Private.	25	•••••	150"
Bailey	North st.	West Adams st	Private	40	•••••	420-
Banks	Elm st.	Summer st.	Public.	40	639	
Bartlett	Vernon st.	Broadway	Public.	40	1,550	•••••
Barton Bay State ave.	Broadway Broadway	Hamilton road Foskett st.	Public.	40 40	$\begin{array}{c} 382 \\ 1,237 \end{array}$	*****
Beach ave.	Webster ave.	Columbia st.	Private.			200
Beacon pl.	Beacon st.	Cortheasterly	Private.	15		200
Beacon Beacon ter.	Cambridge line			66	6,007	110-
Bean ter.	Somerville ave. Cutter st.	Northeasterly Southeasterly	Private. Private.	$\begin{array}{c} 24 \\ 16 \end{array}$	•••••	100-
Beckwith circle	Beacon st.	Southwesterly	Private	28.5		112.
Bedford	South st.		Public.	30	165	•••••
Beech Belknap	Somerville ave. Broadway	Atherton st. Hamilton road	Public.	40 40	323 449	*****
Bellevue ter.	Albion st.	Northeasterly	Private.	20		90
Belmont	Somerville ave	Highland ave.	Public.	40	2,192	*****
Belmont pl. Belmont sq.	Belmont st.	Southeasterly	Public.	25	177	•••••
Belmont sq.	Belmont st. Belmont ter	Southeasterly N. E. & S. W.	Public. Public.	$\begin{array}{c} 30 \\ 20 \end{array}$	75 · 145	*****
Belmont ter.	Belmont st.	Easterly	Private.	15		137
Benedict ave.	Broadway	Benedict st.	Private.	20	•••••	200
Benedict Bennett ct.	Union st. Bennett st.	Austin st. Prospect st.	Public.	40	585	100
Bennett Ct.	Prospect st.	Rennett ct.	Private. Private.	10 40 to 25	······ 5	100
Benton road	Summer st.	Hudson st.	Public.	40 10 20	1,208	•••••
Berkeley Berwick	School st.	Central st.	Public.	40	1,360	*****
Bigelow	Hinckley st. Boston st.	Northwesterly Munroe st.	Private.	20 50	208	170
Billingham	Broadway	William st.	Public.	40 <sup>,</sup>	563	*****
‡‡Metro	politan Park Co	mmission Boulev				

##Metropolitan Park Commission Boulevard.

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

Otroot	From	То	Public or	Width	Len	gth
Street	From	10	Private	Feet P	ubl <b>ic</b> F	rivate
Bishop's pl. Blakeley ave.	Glen st. Fellsway east	Easterly Cross st. Fitchburg R.R.	Private.	40	····	75 6 <b>3</b> 0 450
Bleachery ct. Bolton	Oak st.	Houghton st.	Public.	40	476	450
Bonair	Cross st. Broadway	Walnut st. Jaques st.	Public.	40 40	$\begin{array}{c} 1,535 \\ 655 \end{array}$	• • • •
Bond Bonner ave.	Washington st.	Columbus ave.	Public.	40	376	• • • •
Boston ave.	Medford line Broadway	Mystic river Medford line	Public. Public.	60 50	$\begin{array}{c} 915 \\ 80 \end{array}$	• • • •
Boston ave.	Broadway	Highland road	Public.	65	287	• • • •
Boston ave. Boston ave.	Highland road Prichard ave.	East to angle in street	Public. Private.	50 5 <b>0</b>	509	146
Boston ave.	Angle in st. s'ly		Private. Public.	40 40	649	376
Boston ave. Boston	Kidder ave. Washington st.	Morrison ave. Prosp't Hill av.	Public.	45	640	
Boston	Prosp't Hill av.	Walnut st.	Public. Public.	40 60	1,242 658	• • • •
Bow Bow	Union sq. Wesley sq.	Wesley sq. Somerville ave.	Public.	50	570	
Bowdoin Bowers ave.	Washington st. Cottage ave.	Lincoln park Elm st.	Public. Private.	$\begin{array}{c} 40 \\ 24 \end{array}$	341	288
Bow St. pl.	Bow st.	Northwesterly	Private.	40		300
Bradford ave. Bradley	School st. Pearl st.	Southeasterly Walter st.	Private. Public.	40 40	762	<b>1</b> 50
Braemore road	Broadway	Medford line	Private. Public.	40 40	686	9
Brastow ave. Bristol road	Lowell st. Broadway	Porter st. Medford line	Public.	40	146	
Broadway	Charlest'n line	Cross st.	Public. Pub. 10	100 0 to 200	2,590 2,060	• • • •
Broadway Broadway	Cross st. Marshall st.	Marshall st. Main st.	Public.	100	1,570	• • • •
Broadway	Main st. Top of hill	Top of hill Albion st.	Public. Public.	100 to 90 90	1,030 2,540	• • • •
Broadway Broadway	Albion st.	Willow ave.	Public.	90 to 70	1.030	
Broadway Broadway	Willow ave. Paulina st.	Paulina st. Arlington line	Public. Public.	70 65-60-65	3,250 3,220	
Broadway pl.	Broadway	Southwesterly	Private.	22		250
Bromfield road Brook	Warner st. Glen st.	Dearborn road Cross st.	Public. Public.	40 40	1,262 504	
Browning road	Sycamore st.	Central st.	Public. Public.	40 40	$\begin{array}{c} 679 \\ 292 \end{array}$	
Buckingham Buena Vista rd.	Beacon st. Holland st.	Dimick st. Southwesterly	Private.			276
Burnham Burnside ave.	Broadway Elm st.	Pow. House Bl. Summer st.	Public. Public.	40 40	$\begin{array}{c} 543 \\ 720 \end{array}$	• • • •
Cady ave.	Simpson ave.	Northwesterly	Private.		• • • •	203
Caldwell ave.	Washington st. Beacon st.	Dimick st	Private. Public.	20 40	263	210
Calvin	Dimick st.	Washington st.	Public.	30	392	• • • •
Cambria Cameron ave.	Central st. Holland st.	Benton road Cambridge line	Public. Public.	40 <b>6</b> 0	488 1,065	
Campbell pk.	Meacham rd.	Kingston st. Arl'ton Br. R.R.	Public.	$\begin{array}{c} 40 \\ 20 \end{array}$	399	84
Campbell Pk. pl Carlton	Kingston st. Somerville ave.		Public.	40	300	••••
Carter terrace Carter terrace	Summer st. Accepted part	Southwesterly Southwesterly	Public. Private.	40 18+	171	43
Carver	Porter st.	Northwesterly	Private.	40		156
Cedar ave.	Cedar st.	Linden ave. Southeasterly	Public. Private.	22 15+	290	70+
Cedar St. pl.	Murdock st.	Southwesterly	Private.	20		378
Cedar St. pl. Cedar	Cedar n Elm st. Elm st.	Broadway	Private. Public.	$\frac{12+}{40}$	4,137	80+
Central road	Central st.	E'ly and N'ly	Public.	4.0	377	
Central road Central	Central road Somerville ave.		Public. Public.	30 to 15	221 1,043	
Central Central	Summer st. Medford st.	Medford st. Broadway	Public. Public.	40 45	2,539 1,079	• • • •
Centre	Albion st.	B. & L. R. R.	Private.	35		200
Chandler Chapel	Park ave. College ave.	Broadway Chandler st.	Public.	40 40	$\frac{1,232}{273}$	
Chapel ct.	Sycamore st.	Northwesterly	Private.	12		130
Charles Charlestown	Washington st. Allen st.	Easterly	Public. Private.	$\begin{array}{c} 30 \\ 15 \end{array}$	166	400
Charnwood rd.	Willow ave.	Hancock st.	Public.	40	589	• • • •

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

	Private	Streets.—Cond		TYY! 3.13	-	4.1
		_	Public	Width	Leng	gth
Street	From	$\mathbf{T}$ o	or	in		
200			Private	Feet P	ublic P	rivate
*Chelsea	Mystic ave.	Melrose st.	Private.	50		1,390
		Highland ave.	Public.	45	1,450	
Cherry	Elm st.		Private.			110
Cherry	Highland ave.	Northeasterly	Dublic		885	
Chester	Elm st.	Cambridge line	Public.	40		• • • •
Chester ave.	Medford st.	Angle	Public.		220	
Chester ave.	Angle	Cross st.	Public.	20	451	
Chester pl.	Chester st.	Northwesterly	Private.	40		200
	Poplar st.	Southeasterly	Public.	40	537	
Chestnut	Cupial St.	West Adams st.	Private	40		892
Chetwynd road	Curus st.		Dublic	40	964	
Church	Summer st.	Lake st.	Public.			
City road	Broadway	Cedar st.	Private.	45	0	980
Claremon	Holland st.	Mead st.	Public.	40	560	
	Broadway	Cambridge line	Public.	40	1,217	
Clark	Newton st.	Lincoln pky.	Public.	35	552	
		Harvard st.	Public.	40	459	
Cleveland	Central st.			40	200	
Clifton	Appleton st.	Morrison ave.	Public.			
Clifton	Morrison ave.	Arlngtn Br. RR	Private.	40		<b>22</b> 0
Clyde	Cedar st.	Murdock st.	Public.	30	664	
College ave.	Davis sq.	Medford line	Public.	60	4,080	
College Cir.	College av arou	ind to College av	Private.	10 and 1	$2 \dots$	284
		North st.	Private.	40		449
College Hill rd.		Combaides line	Public	40	816	
Columbia	Webster ave.	Cambridge line	Deirrote			150
Columbia ct.	Columbia st.	Webster ave.	Private.	9	1 105	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	
	Linwood st.	Somerville ave.		50	202	
Congress pl.		Former vine ave.	Private.	20		200
Conlon ct.	Columbia st.	Easterly			407	
Connecticut av.	Mystic ave.	Penn. ave.	Public.	40	487	• • • •
Conwell ave.	Curtis st.	North st.	Public.	40	1,346	
Conwell	Highland ave.	Southwesterly	Public.	<b>3</b> 5	363	
Cooney	Beacon st.	Line st.	Public.	30	245	
Corinthian road		Cady ave.	Private.	40		560
					****	
Cottage ave.	Russell st.	Chester st.	Public.	40	550	• • • • •
Cottage circle		Southwesterly	Private.	25		87
Cottage pl.	Washington st.	Northwesterly	Private.	about 11		150
Craigie	Somerville ave.	Summer st.	Public.	50	1,280	
Craigie ter.	16 Craigie st.	Westerly	Private.	25		126
Crescent	Washington st.		Public	30	402	
						• • •
Crescent	Hadley st.	Pearl st.	Public.	30	174	
Crocker	Highland ave.	Crown st.	Public.	40	5 <b>2</b> 8	
Cross	Medford st.	Broadway	Public.	45	2,680	
Cross st. (East)		Mystic ave.	Public.	40	1,100	
Cross St. pl.	Cross st.	Northwesterly	Private.	24		150
Crown		Lowell st.	Private.	30		700
	Fellsway					
*Cummings		M'ddlesex ave.	Private.	40		625
Curtis ave.		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	
D	D .	-				
Dana	Bonair st.	Pearl st.	Public.	40	696	
Dane	Somerville ave.	Washington st.	Public.	40	1.341	
Dane ave.	Dane st.	Leland st.	Public.	30	569	
Dante terrace	Craigie st.	Westerly	Private.	25		125
					1 405	
Dartmouth	Medford st.	Broadway	Public.	40	1,465	
Day	Elm st.	Cambridge line		40	908	
	Boston ave.	College ave.	Public.	50	469	
Delaware	Aldrich st.	Pearl st.	Public.	40	451	
Dell	Glen st.	Tufts st.	Public.	40	466	
Derby	Temple st.	Wheatland st.	Public.	40	1,031	
Dexter	Broadway		Private.			95
Dickinson		Medford line		50	770	25
	Springfield st.	Beacon st.	Public.	40	770	
Dickson	Broadway	Fairmount ave.		40	271	
Dimick	Concord ave.	Calvin st.	Public.	40	957	
Dix pl.	Linwood st.	Southwesterly	Private.	10		1 <b>0</b> 0
Douglas ave.	Edgar ave.		Private.	30		162
Dover	Elm st.	Cambridge line		40	975	
		Cambridge infe	I ublic.	10	010	
*Proposed.						

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

	Private	Streets. — Con			_	
Street	Even	m-	Public	Widtl	n Lei	ngth
Street	From	To	Or	in	D1-1:- 1	D
Dow	Dowdon House	Mana at	Private		Public I	
DOW	Powder House Bd.	ware st.	Private.	40	• • • •	257
Downer pl.	Downer st.	B. & L. R. R.	Private	20		125
Downer Downer	Nashua st.	Southeasterly	Private.		• • • •	120
Dresden circle	Cutter ave.	Westerly	Private.			133
Durant	Washington st		Private.			200
Durham	Beacon st.	Hanson st.	Public.	40	423	
Dynamo	Willow ave.	Whipple st.	Private.			255
2 3			_ 11.0000			200
Earle	South st.	Northerly	Private.	30		322
Earle	End of above	Fitchburg R. R.	Private.	15		115
East Albion	Mt. Vernon	E. of Moreland				188
	ave.	st.				
East Albion'	E. of Morelan	<b>d</b> Medford line	Private.	40		490
	st.					
Eastman road	Highland ave.	Southwesterl <b>y</b>	Public.	40	296	
Edgar ave.	Main st.	Meacham st.	Private.			800
*Edgeworth	Mystic ave.	Melrose st.	Private.			1,380
Edmands	Broadway	near Bonair st.		40:	376	
Edmonton ave.		Fellsway east			11.44.1	630
Electric ave.	Mason st.	Curtis st.	Public.	40	1,374	
Eliot	Vine st.	Park st.	Public.	40	291	
Ellington road		Northeasterly	Private.		• • • •	120
Ellington road		Northwesterly	Private.		• • • • •	405
Ellsworth	Cross st.	Rush st.	Public.	40	230	
Elm ct.	Villa ave.	Northwesterly	Private.		• • • •	70
Elm pl.	Harvard st.	Westerly	Private.		• • • •	190
Elm road	Elm st.	Northeasterly	Private.		1 070	183
Elm		Cherry st.	Public.	63	1,672	• • • •
Elm	Cherry st.	White st.	Public.	63 to 6		• • • •
Elm	White st.	Banks st.	Public.	60	660	• • • •
Elm	Banks st.	Beech st.		60 to 77		• • • •
Elm Elm	Beech st.	Tenney st.	Public.			• • • •
	Tenney st. Holland st.	Davis sq.	Public.	60	1,429	• • • •
Elmwood ter.	Elmwood st.	Cambridge line		40	1,057	100
	Elm st.	Easterly Summer st.	Private. Public.	$\frac{20}{40}$	396	190
Emerson	Everett st.	Newton st.	Private.			170
	Broadway	Woodstock st.		40	• • • •	800
Endicott ave.	Broadway	(Ext'n)	Filvate.	40	• • • •	800
Essex	Medford st.	Richdale ave.	Public.	40	232	
Eustis	Beacon st.	Cambridge line		30		150
Everett ave.	Cross st.	Dana st.	Public.	40	845	
Everett	Webster ave.	Newton st.	Private.	30		350
	Marshall st.	Sycamore st.	Public.	40	1,320	• • • •
Evergreen sq.	Porter st.	Southeasterly	Private.	22		179
Exchange pl.	Washington st		Private.	4.5	• • • •	70
		· · · · · · · · · · · · · · · · · · ·				
*Fairfax	North st.	Powder House	Private.	40		915
		Blvd.				
Fairlee	Cherry st.	Northwesterly	Public.	30	144	
Fairmount ave.	Curtis st.	Northwesterly	Public.	40	679	
Fairview ter.	Sycamore st.	Southwesterly	Private.	<b>1</b> 5		173
Farragut ave.	Broadway	Woodstock st.	Public.	40	905	
		(Ext'n)				
	Mystic ave.	Mystic river	Public.	70 to <b>13</b> 0	2,500	
‡‡Fellsway east						
	Broadway	Mystic ave.	Public.	50	1,222	
ave.)						
‡‡Fellsway West			~	= 0	1 004	
	Broadway	Mystic ave.	Public.	50	1,324	• • • •
ave.)		NT 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D			+ m=
	Hinckley st.	Northwesterly	Private.	20	****	175
	Broadway	Jaques st.	Public.	40	601	• • • •
	Hinckley st.		Public.	20	484	995
	Fitchburg st.		Private.	10	• • • •	225
			Private.	40	202	400
	Flint st.		Public.	40	202	• • • •
	Franklin st.		Public.	40 40	$1,790 \\ 1.304$	• • • •
	Washington st.		Public.	20		90
	Jaques st.		Private.	40	iii	30
		Cambridge line Central st.	Private.	30		430
	Sycamore st.	Central St.	i i i vate.	30	• • • •	100
*Proposed.	an Park Comm	ission Boulevard	l.			
++Metropont	an raik comm	LUDIOIT DOUIG VALU				

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

	Private	Streets.—Con	umuea.			
			Public	Width	Len	gt.h
Street	From	То	OI.	in		. · · ·
Street	1 10111	10	Private		ublic P	rivate
						Tivacc
Foskett	Willow ave.	Liberty ave.	Public.	40	668	
Fountain ave.	Cross st.	Glen st.	Public.	30	578	
Francesca ave.	College ave.	Liberty ave.	Public.	40	762	
Francis	Porter st.	Conwell st.	Public.	<b>3</b> 0	180	
Franklin ave.	Washington st	. Franklin st.	Public.	20	575	
Franklin pl.	Franklin st.	Southeasterly	Private	. 15		100
Franklin	Broadway	Washington st		40+	2,316	
Fremont ave.	Bowdoin st.	Lincoln pk.	Public.	30	232	
Fremont	Main st.	Nr E. Albion s		40	1,112	
Fremont	Nr E. Albion st	Mystic ave	Private			335
Fremont	IVI E. AIDIOII S	imystic ave.	1 11 vate.	• 10	• • • •	999
.Condon at	Companyilla	Established D D	Dairroto	95		270
Garden ct.		. Fitchburg R. R			4.47	370
Garfield ave.	Broadway	Blakeley ave.	Public.	40	447	••••
Garfield ave.	Blakeley ave.	Middlesex ave.				983
Garrison ave.	Broadway	Land of City	Public.	40	460	• • • ,•
		of Camb.				
Garrison ave.	Land City of	Woodstock st.	Private.	. 40		390
	Camb.	(Ext'n)				
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.			100
Gilman	Cross st.	Walnut st.	Public.	40	1,430	
						• • • •
Gilman ter.	Pearl st.	Northeasterly	Public.	40	360	104
Gilson ter.	Linden ave.	Northwesterly	Private.		0.070	124
Glen	Broadway	Tufts st.	Public.	40	2,373	
Glendale ave.	Cameron ave.	Yorktown st.	Public.	40	410	
Glenwood road		Broadway	Public.	40	1,524	
Glover circle	Meacham road	Southeasterly	Private.	20	• • • •	110
Gordon	North st.	Pow. House Bo				1,245
Gorham	Holland st.	Howard st.	Public.	40	763	• • • •
Gould ave.	Porter st.	Southeasterly	Private.			156
Gove ct.	Cedar st.	Southeasterly	Private.			144
Grand View av.	Walnut at			40	$5\dot{4}\dot{2}$	
	Comowville area	Vinal ave.	Public.			• • • •
Granite	Somerville ave.		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.	$^{\circ}$ 25		165
Gritter way	College ave.	Bromfield rd.	Private.	4		160
Grove	Elm st.	Morrison ave.	Public.	40	996	
			_ 0.01101		000	
Hadley ct.	Franklin st.	Westerly	Private.	16		95
Hall ave.	College ave.	Liberty ave.	Public.	40	$\dot{9}\dot{2}\dot{6}$	
Hall	Cedar st.	Cherry st.	Public.	30	456	• • • •
Hamlet	Highland ave.					• • • •
Hamilton and	Bussell 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.		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.			20 and 40		283
Harding	No. of Ward st.	Cambridge line	Public	30	465	
Harold	Dimick st.	Marion st.	Public.	40	316	
Harold	Gordon st.	Medford line	Private.	40		18
Harrison					611	48
Harrison		Kent st.	Public.	40	644	910
TT .		Southeasterly	Public.	40	• • • •	210
Harvard pl.		Westerly	Private.	<b>3</b> 5	717	<b>20</b> 0
Harvard		Beech st.	Public.	40	717	
Hathorn		Arlington st.	Public.	40	339	
Hawkins	Somerville ave.	Washington st.		40	<b>33</b> 0	
Hawthorne	Willow ave.	Cutter ave.	Public.	30	807	
	Linden ave.	Easterly	Private.	20		120
		Bond st.	Public.	45	1.043	
Heath	Bond st.	Moreland st.	Public.	40	754	
	TO 1 1 1 1	B. & L. R. R.	Public.	$\tilde{20}$	569	
		Fisk ave.	Private.	20		250
	Somerville ave.		Private.		• • • •	161
			Public.	40	290	
	Lightana ave.	Eckington ave.	I done.	10	200	• • • •

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

	Filvate	Streets.—Conti	mueu.			
			Public	Width	Leng	th
Street	From	То	or	in		
201000	210111		Private	Feet P	ublic Pr	ivete
						Ivacc
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		40		678
	Medford st.		Public.	60	9,135	
Highland ave.		Davis sq.				107
Highland path,	Morrison ave.	Arlington Br.	Private.	10	• • • •	107
east		R. R.				
Highland path,	Morrison ave.	Arlington Br.	Private.	10		108
west		R. R.	•			
†Highland rd.	Morrison ave.	Boston ave.	Pub. 30(	(owide)	1,499	
Hill	Broadway	Fairmount ave.		40	284	
			Public.	40	632	
Hillsdale rd.	Conwell ave.	Sunset rd.				450
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		Public. 3	0 and 35	1.081	
Hodgdon pl.	Dane ave.	Northeasterly	Private.			150
			Public.	60	2,696	
Holland	Davis sq.	Broadway				100
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.		30	517	
Houghton	Springfield st.			40	653	
		Cambridge line				• • • •
Howard	Thorndike st.	Gorham street		40	431	
Howe	Marshall st.	School st.	Public.	40	445	
Hudson	Central st.	Cedar st.	Public.	40	2,760	
Hunting	South st.		Public.	30	117	
	204011	Cambridge ime	2 (12110)			
Thhotgan	Companyilla	T 0 011 4	Doublin	40	000	
Ibbetson	Somerville ave.		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	
114100	Beacon St.	raik st.	i ubiic.	10	000	
Tomos	Dooml at	D = 3 = 11.66 = 3	D1.1: -	40	200	
James .	Pearl st.	Radcliffe road	Public.	40	320	
Jaques	Fellsway west		Public.	40	1,182	
Jaques	Temple st.	Bond st.	Public.	45	1,005	
Jaques	Bond st.	Edgar ave.	Public.	40	395	
Jasper pl.	Walnut st.	Easterly	Private.	20		80
	Pearl st.				••••	
Jasper	reari 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.		Blakeley ave.		40	455	000
*Kensington av	Blakelov		Public.			1 150
	Vont -t	Middlesex ave.		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.		40		• • • •
	Conege ave.	Courtle ave.	Public.		2,554	
Kilby	Somerville ave.		Private.	20		180
Kilsyth road	Broadway	Medford line	Private.	40		5
Kimball	Lowell st.	Craigie st.	Private.	40		303
Kingman road	Washington st.	Fitchburg R. R.	Private	25		400
Kingston	Meacham road	Cambridge line	Public	40	647	
Knapp	School st.	Granita at				• • • •
		Granite st.	Public.	40	379	
Knowlton	Tufts st.	N'E' line Est. 37		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	0.20	370
Landers	School st.				990	
Langmaid ave.		Westerly	Public.	40	228	• • • •
	Broadway	Heath st.	Public.	30	353	
Latin way	Talbot ave.	Professors row	Private.	60		250
*Proposed.						
ID DODGE.						

<sup>\*</sup>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.

	Tivate	Otrects. Con	mucu.			
	4		Public	Width	Leng	gth
Street	From	To	or	in	·	
201000	2 10		Private		ublic P	rivate
_					abiic i	
Laurel ave.	Laurel st.	Northwesterly	Private.	<b>1</b> 8		125
Laurel	Somerville ave.	Summer st.	Public.	40	98 <b>3</b>	
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.		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.			75
Lester ter.		Northwesterly	Private.			190
Lewis Lewis	Magnus ave.		Private.		• • • •	
		Easterly				416
Lexington ave.	Willow ave.	Hancock st.	Public.	50	624	
Lexington ave.	Hancock st.	Angle	Public.	45 to 40		
Lexington ave.	Angle	Cedar st.	Public.	40	578	
Liberty ave.	Broadway	Appleton st.	Public.	40	1,493	
Liberty rd.	Morrison ave.	Liberty ave.	Private.			200
Lincoln ave.	Lincoln st.		Public.	30	478	
Lincoln pky						• • • •
Lincoln pky	Washington st.		Public.	40	1,520	*
Lincoln pl.	Lincoln ave.	Northerly	Private.			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.			160
Linden	Somerville ave.	Charlestown st.		33	587	
Line		Charlestown St.	Dublic.			• • • •
Line	Washington st.		Public.	33	1,727	
Linehan ct.	Linwood st.	Chestnut st.	Private.	about 15		200
Linwood pl.	Linwood st.	Southwesterly	Private.	about 12		150
Linwood	Somerville ave.	Washington st.	Public.	50	2.114	
London	Linwood st.	B. & L. R. R.		40		340
Loring	Somerville ave.		Public.	40	413	
Louisburg pl.						• • • •
Louisburg pr.	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		and 27.5		143
Lowell ter.	Lowell st.	Northwesterly	Private.	20		150
zewen ter.	Bowen st.	Northwesterry	1 IIvate.	20	• • • •	190
Madison	Cobsel	~	D 11:	4.0	004	
	School st.	Sycamore st.	Public.	40	891	
Magnus ave.	Washington st.	Southerly	Private.	40		509·
Main	Broadway	Medford line	Public.	50	966	
Maine ave.	Mystic ave.	Penn. ave.	Public.	40	379	
Maine ter.	Maine ave.	Southeasterly	Public.	$\tilde{32}$	205	
*Malden	Mystic ave.	Melrose st.	Private.	50		1,360
Mallet	Willow ave.		Dublia		0	1,500
Malloy ct.		Liberty ave.	Public.	40	657	
Malloy Ct.	Somerville ave.	Merriam ave.	Private.	30		255
Malvern ave.	Cameron ave.	Yorktown st.	Public.	40	410	
Mansfield	Somerville ave.	Washington st.	Public.	40	735	
Maple ave.	School st.	Southeasterly	Private.	40		300
Maple pl.	Marshall st.	Maple ave.	Private.	ĨŠ		125
Maple	Poplar st.		Public.	30	699	120
Mardel circle	Spring st.				099	140
Marion	Concerd	Northwesterly	Private.	. 8	:::	140
	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
May pl. McCarroll ct.	Clyde st.		Private.	$\overline{25}$		<b>7</b> 5.
McCulphe pl.	Medford st.	Easterly	Private.	10 10	• • • •	110
McGregor ave.	Wigglesworth				• • • •	
ave.	st.	Walnut st.	Private.	13	• • • •	302
Maacham maa		G1-12 **	D 1.			
Meacham road	Dover st.	Cambridge line			<b>1</b> ,060	
Meacham	Mt. Vernon ave.	Medford line	Public.	40	777	
Mead	Cameron ave.	Moore st.	Private.	40		340
Medford	Cambridge line	Central st.	Public.		8.047	
Medford	Central st.		Public.		1,985	
Melrose	Mystic ave.		Private.	50		2,310
Melvin			Public.		497	
Merriam aye.				40	487	055
Merriam Aye.	Washington -t	Malloy ct.	Private.	15		255
	Washington st.	somerville ave.	Public.	40	<b>36</b> 0	
*Proposed.						

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

Street	From	То	Public or	Width	Leng	gth
Street	FIOIII		Private		ublic P	rivate
Prosp't Hill pky	yMunroe st.	Stone ave.	Public.	40	400	• • • •
Prospect pl.	Prospect st.	Newton st.	Private.	20	1 0 2 0	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	<b>392</b>	
Radcliffe road	Bradley st.	Marshall st.	Public.	40	261	• • • • •
Randolph pl. Raymond ave.	Cross st. Curtis st.	Westerly North st.	Private. Public.	15 40	1,345	244
Record ct.	Broadway	Southwesterly	Private.	10	1,340	iii
Reed's ct.	Oliver st.	Southwesterly	Private.	$\tilde{2}\check{0}$	• • • •	105
Remick ct.	Cutter st.	Southeasterly	Private.	10		100
Rhode Is. ave.		Penn. ave.	Public.	40	460	
Richardson	Lowell st.	Hinckley st.	Public.	35	467	105
Richardson ter. Richdale ave.	School st.	Northeasterly Sycamore st.	Private. Public.	$\frac{20}{40}$	875	135
Roberts	Hinckley st.		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.	Cambridge line	Private.	40	121	450
Roseland Rossmore	Beacon st.	Washington st.		40 40	$\begin{array}{c} 121 \\ 534 \end{array}$	• • • •
Royce pl.	Bonair st.	Northeasterly	Private.	15+		175
Rush	Broadway	Flint st.	Public.	40	1,400	
Russell rd.	Broadway	N. line Hamil-				
D 11 1	NY T. C. TT.	ton rd.	Public.	· 40	559	• • •
Russell rd.	N. Line Ham-	Northerly	Dwizzoto	40		<b>7</b> 5
Russell	ilton rd. Elm st.	Cambridge line	Private.	40 40	700	
11022011	Elli St.	Cambridge inic	i abiic.	40	100	• • • •
Sacramento	Somerville ave.	Fitchburg R. R.	Public.	40	80	
Sacramento	Fitchburg R. R.	Beacon st.	Public.	40	290	
Sacramento	Beacon st.	Cambridge line		40	154	• • • •
Sanborn ave.	Warren ave.		Public.	40	<b>2</b> 80	176
Sanborn ct. Sargent ave.	Washington st. Broadway	Walnut st.	Private.` Public.	30 40	1,075	176
Sartwell ave.	Cedar st.		Public.	35	427	
Sawyer ave.	Packard ave.	Curtis st.	Private.	40		690
School		Highland ave.		40	1,901	
School	Highland ave.	Broadway	Public.	50	2,500	100
Sellon pl. Seven Pines av.	Marshall st.	Northwesterly Cambridge line		$\begin{array}{c} 12 \\ 40 \end{array}$	92	120
Seven Fines av. Sewall ct.	Sewall st.	Southwesterly		25		190
Sewall	Grant st.	Temple st.	Public.	40	615	
Shawmut	Washington st.	Cross st.	Public.	40	575	
Shedd	Somerville ave.		Private.	40		310
Sherman ct.	Sargent ave.	Marshall st.	Private.	10	• • • •	250
Sibley ct.	Cutter st.	Northwesterly Northwesterly	Private. Private.	$\begin{array}{c} 10 \\ 10 \end{array}$	• • • •	100 100
Sibley pl. 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		Private.	40		540
Smith ave.	Beacon st.	Line st.	Private.	$\frac{25+}{16}$	• • • •	$\begin{array}{c} 200 \\ 120 \end{array}$
Snow ter. Somerville ave.	Jaques st.	Southwesterly Union sq.	Private. Public.	75	4,325	
Somerville ave.	Union sq.	N. Camb. line	Public.	70	6,793	
South	Medford st.	Water st.	Public.	<b>3</b> 0	989	
Spencer ave.	Cedar st.	Hancock st.	Public.	40	727	• • • • •
Spring ct.	Somerville ave.		Private.	20	1 990	200
Spring Springfield	Somerville ave.	Summer st. Cambridge line	Public.	40 40	<b>1,220</b> 788	
Spring Hill ter.	Concord ave.	Belmont st.	Public.	20	670	• • • •
Stanford ter.	Beacon st.	Northeasterly	Private.	$\tilde{20}$		200
Steeves circle	Cherry st.	Easterly	Private.	15		120
*Sterling st.	North st.	Pow. House Bd.		40	450	800
Stickney ave.	Marshall st.	School st.	Public. Public.	40 40	458 48 <b>8</b>	• • • •
St. James ave.	Summer st.		Public.	30	125	
ext.	Daiminor St.	2.0101100000013				
*Proposed.						

<sup>\*</sup>Proposed.

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

	7 111440	<b>011 00 101</b>	Public	Width	Len	ngth
Street	From	То	or Private	in Feet P	ubl <b>ic</b> I	Private
Stone ave.	Union sq.	Columbus ave.	Public.	40	676	• • • •
Stone ave.	Columbus ave. Stone ave.		Public. Public.	38 30	$\begin{array}{c} 107 \\ 142 \end{array}$	• • • •
Stone pl. Strathmore rd.	Broadway	Medford line	Private.	40		15
Summer Summit ave.	Bow st. Walnut st.	Elm st. Vinal ave.	Public. Public.	45 45	$7,900 \\ 532$	• • • •
Summit	College ave.	Billingham st.	Public.	40	262	
Sunnyside ave. Sunset rd.	. Walnut st. Curtis st.	Wigglesworth s Hillsdale road	<b>t</b> Public. Private.	25 to 35 40	306	658
Sycamore	Broadway	Medford st.	Public.	45	1,275	••••
Sycamore Sycamore	Medford st. B. & L. R. R.	B. & L. R. R. Highland ave.	Public. Public.	40 35	$\begin{array}{c} 667 \\ 722 \end{array}$	
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.	<b>3</b> 0		170
Taunton Taylor pl.	Angle Somerville ave.	Marion st.	Private. Private.	$\begin{array}{c} 20 \\ 15 \end{array}$		$\begin{array}{c} 95 \\ 200 \end{array}$
Taylor	Mystic ave.	Sydney st.	Public.	40	309	
Teele ave. Temple	Packard ave. Broadway	Curtis st. Mystic ave.	Public. Public.	40 66	685 1,637	• • • •
Tenney ct.	Mystic ave.	Northeasterly	Private.	30		400
Tennyson Thorndike	Forster st. Holland st.	Pembroke st. Arlington Br.	Public.	40	922	• • • •
Thorndike	Arlington Br.	R. R.	Public.	40	465	
Thorpe ·	R. R. Highland ave.	Kingston st Southwesterly	Public.	40 30	$\begin{array}{c} 115 \\ 468 \end{array}$	• • • •
Thurston	Broadway	Richdale ave.	Public.	40	1,660	
Timmins pl. Tower ct.	Dane st. Tyler st.	Westerly Northeasterly	Private. Private.	$\begin{array}{c} 3.5 \\ 25 \end{array}$	• • • •	$\begin{array}{c} 97 \\ 150 \end{array}$
Tower	Crown st.	Highland ave.	Public.	40	559	
Tremont pl. Tremont	Tremont st. Webster ave.	Southeasterly Cambridge line	Private.	about 10 40	589	75
Trull	Vernon st.	Medford st.	Public.	40	1,050	
Trull lane Tufts parkway	Highland ave.	Oxford st. College ave.	Private. Public.	$\begin{array}{c} 15 \\ 22 \end{array}$	900	200
Tufts	Washington st.		Public.	40	982	
Turner ct. Tyler	Franklin st. Vine st.	Westerly Dane st.	Private. Public.	20 40	404	150 · · · ·
Union						
Union pl.	Broadway Linwood st.	Mystic ave. Southwesterly	Public. Private.	40 10	345	100
Upland Park	Main st.	Southwesterly	Private.	20	• • • •	175
Vermont ave.	Mystic ave.	Penn. ave.	Public.	40	433	
Vernon Vernon	Central st. Glenwood road.	Glenwood road Partridge ave.	Public. Public.	40 40 to 30	$\begin{array}{c} 764 \\ 190 \end{array}$	• • • •
Vernon	Partridge ave.	Lowell st.	Public.	30	434	• • • •
Victoria Villa ave.	Broadway Winslow ave.	Cambridge line Arlington Br.		40	1,036	• • • •
Village	Dane st.	R. R. Vine st.	Private. Private.	35 25	• • • •	200 370
Vinal ave.	Summer st.	Highland ave.	Public.	45	1,425	
Vinal Vine ct.	Richardson st. Vine st.	Northeasterly Northwesterly	Private. Private.	$\begin{array}{c} 20 \\ 25 \end{array}$	• • • •	200 140
Vine	Somerville ave.	Fitchburg R. R.		40	540	
Vine Vine	Fitchburg R. R. Hanson st.	Hanson st. Beacon st.	Private. Public.	40 30	662	222
Virginia	Aldrich st.	Jasper st.	Public.	40	405	
Wade ct.	Cedar st.	Westerly	Private.	20	• • • •	180
Waldo ave. Waldo	Beacon st. Highland ave.	Dimick st. Hudson st.	Public. Public.	40 40	27 <b>7</b> 287	• • • •
Walker	Broadway	Leonard st.	Public.	40	713	• • • •
Wallace Walnut	Holland st. Bow st.	Broadway Broadway	Public. Public.		1,342 3,948	
Walnut road	Walnut st.	Kenneson road	Public.	40	270	
Walter terrace	waiter st.	Southwesterly	Public.	40	222	

<sup>\*</sup>Proposed.

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

	FIIVALE	Streets. — Com	Public	Width	Len	øth
Street	From	To		in	13011	8
	TTT 1 / .	1 100 04 37	Private	Feet P	ublic F	Private
Walter	Walnut st.	about 100 ft N. of Bradley st.		40	548	
Ward	Medford st.	Harding st.	Public.	30	433	• • • •
Ware	Curtis st.	Russell rd.	Public.	40	749	• • • •
Warner	Pow. House sq.		Public.	60	500	
Warren av <b>e.</b> Warren	Union sq. Medford st.	Columbus ave. Cambridge line		40 30 to 40	$\begin{array}{c} 663 \\ 109 \end{array}$	• • • •
Warwick place		Northeasterly				150
Warwick	Cedar st.	Warwick pl.	Public.	40	665	
Washington av	. Washington st.	Northerly	Private.			350
Washington pl.	. Washington st.	Franklin <b>ave.</b>		about 7.5	1,060	114
Washington	Franklin ave.	Fitchburg R. R.	Public.	60 to 100	3.977	• • • •
Washington		Cambridge line	Public.	60	2,344	
Water	South st.		Public.	25	366	
Waterhouse Watson	Broadway Broadway	Cambridge line Fairmount ave.		40 40	987	236
Waverly	Washington st.		Private.		• • • •	200
Webster ave.	Union sq.	Cambridge line	Public.		1,955	• • • •
Webster	Franklin st.	Cross st.	Public.	40	1,034	
Wellington ave.	Wainut st. Montgomery av.	Montgomery av	Public. Private.	40 40	215	85
	Wesley sq.	Northeasterly	Public.	40	405	
Wesley	Pearl st.	Otis st.	Public.	40	515	
West			Public.	30	192	
West	Highland ave.	Arlington Br. R. R.	Private.	30		266
West Adams	Conwell ave.	Medford line	Public.	40	710	200
Westminster	Broadway		Public.	40	376	
Weston ave.	Clarendon ave.		Private.			525
West Quincy Westwood road	Bailey st.	Medford line	Private. Public.	40 40	400	291
Wheatland	Broadway	Benton road Mystic ave.	Public.		489 1.364	
Wheeler	Pinckney st.	Mt. Vernon st.		40	269	
Whipple	Highland ave.	Arlington Br.				
+White	Elm at	R. R.	Private.	30	207	<b>31</b> 8
†White St. pl.	Elm st. White st.	Cambridge line Southeasterly	Private.	20	307	200
Whitfield road			Public.	40	687	
Whitman	Mason st.	Packard ave.	Public	40	632	'
Wigglesworth William	Bonair st.		Public.	40	744	• • • •
William	Chandler st. Broadway		Public. Private.	40 50	381	50
Williams ct.	Porter st.		Private.	30		454
Willoughby	Central st.	Sycamore st.	Public.	40	427	
Willow ave.	Elm st.		Public.		3,534	
Willow pl. Wilson ave.	Cambridge line Broadway		Public. Public.	$\frac{25}{20}$	$\begin{array}{c} 125 \\ 307 \end{array}$	• • • •
Wilton			Public.	35	470	
Winchester		Medford line	Private.	40		65
Windom windson read	Elm st.	Summer st. Hancock st.	Public.	40	300	• • • •
Windsor road Windso <b>r</b>	Willow ave. Cambridge <b>Line</b>	Northerly	Public. Public.	40 40	5 <b>75</b> 40	• • • •
Windsor	End of above	Fitchburg R. R.	Public.	27	490	• • • •
Winslow ave.	College ave.	Clifton st.	Public.		1,123	
Winter	College ave.		Public.	30	402	
Winter Hill cir. Winthrop ave.	Mystic ave.	Northeasterly Middlesex ave.	Private.	25	• • • •	177
Wisconsin ave.			Public.	40 50	499	583
Woodbine	Centre st.	Westerly	Private.	30		461
Woodbine Ex.	End of above	Lowell st.	Private.	35	•••••	212
	North st. Victoria st.	Pow. House Bd. Alewife brook		40	402	1,135
Woodstock *Woodstock		Tannery st.	Public.	40 to 32	403	• • • •
(Extension)	Victoria st.	(Ext'n.)	Private.	40		920
Wyatt circle	Wyatt st. aroun	d to Wyatt st.	Private.	20		315
Wyatt		Lincoln pkway	Public	40	496	• • • •
Yorktown	Cambridge line	N. E. line	Dublic	40	204	
Yorktown	N. E. line		Public.	40	294	100
*Proposed.	Malvern ave.	Northerly	Private.	40	••••	100
†Sidewalk in	n Somerville.					
	.30 1110.					

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

Street	From	То	Public or	Width in	Len	gth
Der Cot	110111	10	Private	Feet P	ablic F	rivate
Court	39 Adams st.	Southeasterly	Private.	8		90.
Court	Albion st.	Central st.	Private.	12		216
Court	11 Albion st.	Northeas <b>terly</b>	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		Southeasterly	Private.	20		150
Court	227 Columbia st		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.		Private.	12		171
Court	66 Lowell st.	Westerly	Private.	25		101
Court	78 Lowell st.	Westerly	Private.	25		101
Court	101 Medford st.		Private.	8		75
Court		Southeasterly	Private.	$2\overline{5}$		318
Court	10 Stone ave.	Northwesterly	Private.	$\overline{20}$		113
Court	Windser st. ex.		Private.	" 2ŏ		370
	Total				5,083	87,128

Public, 84.60 miles [includes 1.406 miles of City Boulevard and Park Roadways, 2.331 miles of State Boulevard (Metropolitan Park Commission), and 1.596 miles State Highway]; private 16.21 miles.

Total length of streets in the city, 100.8 miles.

## REPORT OF COMMISSIONER OF PUBLIC BUILDINGS.

City Hall, Somerville, January 1, 1921.

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

#### Gentlemen: —

In accordance with the provisions of the City Charter, I submit herewith the annual report of the public buildings department for the year ending December 31, 1920.

The total valuation of the public property which is in the custody of the public buildings department is approximately \$3,550,000.

The total expenditure for the year 1920 for the care and maintenance of this property was \$209,961.25.

This amount was expended as follows:

			Care and					
	Janitors	Fuel	Light	Repairs	Totals			
School Buildings .	\$56,957 56	\$39,485 17	\$10.557 17	\$47,227 70	\$154,227 60			
Electrical Dept	753 00	400 12	104 41	23 03	1.280 56			
Fire Buildings	*******	4,545 45	3,000 07	2,773 42	10,318 94			
City Home Buildings	•••••	1,228 39	553 13	1,704 99	3,486 51			
Contagious Hospital	544 96	1,766 59	677 76	1,214 74	4,204 05			
Highway Buildings	•••••	412 95	213 46	362 18	988 59			
Central Library .	3,057 00	1,051 64	1,436 65	443 94	5,989 23			
West Branch Li-								
brary	<b>1,3</b> 55 88	400 33	504 90	189 70	2,450 81			
East Branch Li-								
brary	1,086 59	263 68	$271 \ 01$	12 88	1,634 16			
Union Sq. Branch.	1,107 83	323 95	291 73	30 87	1,754 38			
Municipal Buildings	5,776 60	2,027 59	1,550 73	2,460 82	11,815 74			
Park Buildings .	417 48	141 41	464 13	467 22	1,490 24			
Police Buildings .	2,021 82	956 09	598 28	712 93	4.289 12			
Polling Places .	•••••	8 31	18 42	1,098 23	1,124 96			
Sanitary Buildings .	•••••	114 46	240 31	398 84	753 61			
Sewer Buildings .		69 97	29 96	542 85	642 78			
Water Buildings .		619 03	313 87	53 74	986 64			
Bathhouse	924 54	•••••		1,436 70	2,361 24			
Bandstand			16 25	145 84	162 09			
Totals	\$74,003 26	\$53,815 13	\$20,842 24	\$61,300 62	\$209,961 25			

#### Inspection of Buildings.

The Commissioner of Public Buildings is also the inspector of buildings according to the terms of the charter and as such during the past year has made 1160 formal inspections of buildings in the process of construction.

The following table shows the number of permits issued for building operations during the year 1920:—

						WA	RDS.			
Buildings			1	2	3	4	5	6	7 7	rotals
Dwellings		•	18	14	6	9	27	21	21	116
Stores			3	2	1		1	1	3	11
Dwellings and stores	,		1					2	2	5
Garages			$15 \cdot$	16	14	14	24	22	70	175
Storage		•	4	3		3	_	4	3	17
Manufactories .	•	•	5	2	3	1	2	2	4	19
Sheds	•	•	2	5	1	2	3	2	2	17
Offices	•	•	4	$\frac{2}{3}$		1 1	1		1 1	4 7
Stables	•	•	$\frac{1}{2}$	3 2		1	1 1	2	3	11
Shops Churches	•	•	4	$\frac{2}{1}$	1	1	1	$\overset{\scriptscriptstyle 2}{1}$	J	3
Warehouse and loading	nor S	hod.	2	1	1			1		$\frac{3}{2}$
Offices and stores	ug s	neu	4		1					1
Creamery	•	•	1		_					î
Hospitals	•	•	-					1		1
Miscellaneous .		•		1	1	1	3		2	8
	·	·						_		
Totals .			54	51	28	33	62	58	<b>1</b> 12	398
					Wood	Fi	ire res	isting	T	otals
Now Duildings					40		161	1		201
New Buildings . Alterations .	•	•			186		10			$\begin{array}{c} 201 \\ 197 \end{array}$
Afterations .	•	•			100			_	_	131
Totals .					226		172	)		398
Totals .	•	•			220					
Totals .	•	•			220	WA	RDS.			
Buildings	•	•	1	2	3	WA		6		Totals
	٠	•	1 .31	2 37			RDS.			
Buildings	•	•		_	3	4	RDS.	6	7 ′	rotals 199 7
Buildings Wood	•	•		_	3 11	4	RDS.	6	7 7 37	Totals 199 7 2
Buildings Wood Wood and Cement	•	•	.31	_	3 11	4	RDS. 5 35	6	7 7 37	rotals 199 7
Buildings Wood Wood and Cement Wood and Concrete Wood and Metal Fireproofed wood	•		.31 2 3	37	3 11 1	4 17	RDS. 5 35 1 2	6 31 2	7 7 37 6	Totals 199 7 2 2 21
Buildings Wood Wood and Cement Wood and Concrete Wood and Metal Fireproofed wood Brick			.31	37	3 11 1	4 17	RDS. 5 35	6 31 2 3	7 7 37 6 2 1	Totals 199 7 2 2 21 10
Buildings Wood Wood and Cement Wood and Concrete Wood and Metal Fireproofed wood Brick Brick and wood	•		.31 2 3 2	37 2 1	3 11 1 5 2	4 17	RDS. 5 35 1 2	6 31 2 3 3	$   \begin{array}{c}     7 \\     37 \\     6   \end{array} $	Totals 199 7 2 2 21 10 5
Buildings Wood Wood and Cement Wood and Concrete Wood and Metal Fireproofed wood Brick Brick and wood Brick and Concrete			.31 2 3 2	37 2 1 2	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1	6 31 2 3 3 2	7 7 37 6 2 1 2 1	Totals 199 7 2 2 21 10 5 7
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block			.31 2 3 2 1 9	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1	6 31 2 3 3 2 13	7 7 37 6 2 1 2 1 54	Totals 199 7 2 2 21 10 5 7 109
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete .			.31 2 3 2 1 9 3	37 2 1 2	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1	6 31 2 3 3 2	7 7 37 6 2 1 2 1	Totals 199 7 2 2 21 10 5 7 109 24
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood			.31 2 3 2 1 9 3 1	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 1 8	6 31 2 3 3 2 13	7 7 6 37 6 2 1 2 1 54 3	Totals 199 7 2 2 21 10 5 7 109 24
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block  Concrete  Concrete and Wood  Steel			.31 2 3 2 1 9 3	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 1 8 1	6 31 2 3 3 2 13	7 7 37 6 2 1 2 1 54	Totals 199 7 2 2 21 10 5 7 109 24 1 8
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .			.31 2 3 2 1 9 3 1	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 1 8	6 31 2 3 3 2 13	7 7 6 37 6 2 1 2 1 54 3	Totals 199 7 2 2 21 10 5 7 109 24 1 8 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .			.31 2 3 2 1 9 3 1	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 11 8 11	6 31 2 3 3 2 13	7 7 6 37 6 2 1 2 1 54 3	Totals 199 7 2 2 21 10 5 7 109 24 1 8 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .			.31 2 3 2 1 9 3 1	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 1 8 1	6 31 2 3 3 2 13	7 7 6 37 6 2 1 2 1 54 3	Totals 199 7 2 2 21 10 5 7 109 24 1 8 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .			.31 2 3 2 1 9 3 1	37 2 1 2 10	3 11 1 5 2	4 17 1 5	RDS. 5 35 1 2 1 11 8 11	6 31 2 3 3 2 13	7 7 6 37 6 2 1 2 1 54 3	Totals 199 7 2 2 21 10 5 7 109 24 1 8 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel .  Artificial Stone .  Miscellaneous .  Galvanized iron .			.31 2 3 2 1 9 3 1 1	37 2 1 2 10 1	3 11 1 5 2 1 6 2	4 17 1 5 6 3	RDS.  5 35  1 2 1 8  1 1 8	6 31 2 3 3 2 13 4	7 7 6 37 6 2 1 2 1 54 3 6 6	Totals 199 7 2 2 21 10 5 7 109 24 1 8 1 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .  Galvanized iron .			.31 2 3 2 1 9 3 1 1	37  2 1 2 10 1	3 11 1 5 2 1 6 2	4 17 1 5 6 3 1 —	11 8 1 1 1 61	6 31 2 3 3 2 13 4	7 7 6 37 6 2 1 2 1 54 3 6 6	Totals  199 7 2 2 21 10 5 7 109 24 1 1 1 1 398
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .  Galvanized iron .  Totals .	bing	, perr	.31 2 3 2 1 9 3 1 1	37  2 1 2 10 1  53	3 11 1 5 2 1 6 2	$     \begin{array}{c}       4 \\       17 \\       \hline       1 \\       5 \\       \hline       6 \\       3     \end{array} $ 1   33	RDS.  5 35  1 2 1 8 1 1 8 1 1 61	6 31 2 3 3 2 13 4	7 7 6 37 6 2 1 2 1 54 3 6 6	Totals  199 7 2 2 21 10 5 7 109 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .  Galvanized iron .  Totals .  The number of plum  Number of permits	for	plum	.31 2 3 2 1 9 3 1 1 53 mits is bing i	37  2 1 2 10 1  53  ssueden ne	3 11 1 5 2 1 6 2 28 d during	4 17 1 5 6 3 1 — 33 192 1dings	RDS.  5 35  1 2 1 8 1 1 61  20 was s .	6 31 2 3 3 2 13 4	7 7 6 37 6 2 1 2 1 54 3 6 6	Totals  199 7 2 2 21 10 5 7 109 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Buildings  Wood  Wood and Cement  Wood and Concrete  Wood and Metal  Fireproofed wood  Brick  Brick and wood  Brick and Concrete  Cement Block .  Concrete  Concrete and Wood  Steel  Artificial Stone .  Miscellaneous .  Galvanized iron .  Totals .	for for	plum plum	.31 2 3 2 1 9 3 1 1  53  mits is bing ibing i	37  2 1 2 10 1  53  ssueden neein ol	3 11 1 5 2 1 6 2  28 d during build build	4 17 1 5 6 3 1 — 33 192 1dings 1dings	RDS.  5 35  1 2 1 8 1 1 61  20 was 5 5 5	6 31 2 3 3 2 13 4	7 7 6 37 6 2 1 2 1 54 3 6 6	Totals  199 7 2 2 21 10 5 7 109 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The total estimated cost of the new buildings and alterations during the year 1920 was \$1,384,456, while the estimated cost in 1919 was \$773,099, showing an increase of \$611,357.

The total number of permits issued during the year 1920, viz. 398, was 43 less than during the year 1919, when 441 permits for new buildings and alterations were issued.

There has been very little of speculative building of dwellings going on this year owing to the high cost of both labor and materials.

There has been, however, a considerable number of alterations of dwellings owing to the scarcity of rentals.

Single family houses have been altered into two family houses and some of the larger houses have been altered into small kitchenette suites. These types of alterations demand 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 1920 amounted to \$1,051.

The Commissioner has under his charge and direction the work of maintenance and keeping in repair all 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 nine-mechanics who perform most of the work of keeping the buildings in repair, the inspection of installation and care of all elevators, the supervision of construction of all new municipal buildings, the maintenance of the public bathing beach and public municipal baths in the Bennett and Bingham Schools and Lincoln Park.

The various activities in connection with the department work require a vast amount of time and attention in order to keep the property in proper condition for occupancy.

#### Coal.

As in the past years an invitation for bids was advertised for supplying the necessary tonnage of both anthracite and bituminous coal for the city buildings for the winter of 1920 and spring of 1921.

Two bids were received, one being from a local concern. After taking same under consideration His Honor, the Mayor, decided to reject both, as they were extremely high, and have all coal purchased direct by this department. The wisdom of this has been amply justified as there has been a large saving in money as a result of this decision.

#### Elevators

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

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

During the year 1920, there were 135 elevators inspected and 38 orders for repairs to be made, sent to the owners.

Plans and specifications were filed and applications granted for the installation of 10 new elevators.

#### School Buildings.

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

Every year just before the summer vacation arrives this department sends out a blank to be filled in by both the principals and janitors of schools of all requisitions and repairs needed.

These repairs and requests are taken up with the Superintendent of Schools and taken care of in the order which he suggests so far as the appropriation will allow.

First are taken into consideration the requests and repairs absolutely needed for the opening of schools. Then the others are taken up in the order of their importance. This in itself is a huge task as the wants of every section must be taken into consideration.

Among the necessary repairs that were taken care of this year are the following:

Four boilers were retubed. A number of new grates were installed and repairs made on 24 other boilers.

Steam repairs were made in 20 buildings. Plaster repairs were made in 11 buildings.

Plumbing repairs and new installations were made in 21 buildings. New water service with larger main installed in 3 buildings.

Mason repairs were made in 9 buildings beside repairs of fire boxes of boilers in nearly every building.

65 teachers' guest chairs were recaned.

3 teachers' couches were recovered.

Roof leaks and other roof repairs were taken care of on 14. buildings.

Carpenter repairs, such as:

Window cords.

Repairing and tightening furniture. Fitting up one room in Morse, Southern Junior High, Lowe and Hodgkins Schools with larger size furniture.

A new hall has been fitted up in the Knapp School by the removal of a partition between two class rooms and the installation of a Wilson Rolling lift partition. These two rooms can with this arrangement be used as separate class rooms, or, with the partition rolled up, make a hall with a seating capacity of 300.

## Painting:

The Hodgkins, Cummings, Prescott and Pope buildings were thoroughly painted and renovated throughout and a few of the rooms in the Boys' Vocational School were fitted up and painted.

At High School several rooms and office walls and ceilings tinted

and woodwork varnished.

3,000 desk tops, 40 Teachers' desks and 30 tables in various schools refinished and varnished.

All toilet seats finished in white enamel and several school toilets painted out.

Students' chairs in several buildings refinished and varnished.

Toilets at the Cutler School were thoroughly renovated, walls and

ceilings painted and woodwork varnished.

The lintels and sills of the Cutler School which are of artificial stone and had broken off in a very dangerous and unsightly manner have, during the year, been entirely replaced, adding a great deal to the looks and safety of this building which is located on Powder House Boulevard, a much travelled thoroughfare.

## Lighting:

Proper lighting of school rooms is a problem to which the head of this department has given considerable time and study. We have made a good start during the past two years and established a system, from experience gained by studying the methods used by other cities, which we intend to follow up until every school has the proper lighting required.

In the following buildings we have installed electric lighting systems with service lines, mains and cut-out boxes on each floor, of sufficient size to take care of the entire building at present and at any future time:

Northern Junior High, Bingham, Proctor, Lowe, Prescott, Glines and Knapp Schools.

Heating:

At the Glines School an additional direct heating system has been installed during the past year. This system has been recommended by this department for several years, and has proven satisfactory and

will eventually show quite a saving of fuel.

At the Central Heating Plant and Glines School a Coppus Blower system has been installed to the boilers enabling us to use a cheaper grade of anthracite coal instead of Bituminous, formerly used, with a saving of money on fuel, and the removal of the smoke nuisance which is so objectionable.

Fire Loss.

The city suffered a slight loss by fire at the Cummings School caused by spontaneous combustion. This loss was partially covered by insurance. The building was thoroughly renovated and repaired with very little loss of time to pupils, by fitting up two rooms at the Carr School during Christmas week, and using them for the scholars on half time.

The most pressing needs this year will be the following:

That the policy of yard resurfacing be continued so that the school yards may be kept sanitary and free from dust.

That the policy of painting as many school buildings as possible

during the year be continued.

Additional windows in the Edgerly School.

Outside enclosed fire escapes on the Edgerly, Morse and Highland School buildings. These buildings are three stories high and the old style type of construction with very little distance between stairways.

New heating and ventilating plant in the Morse School, doing away

with the present seven furnaces which are in bad condition.

New floors should be installed in both the Edgerly and Highland

School buildings.

Installing direct steam coils thermostatically controlled in the new wing of the Brown School, also the Pope school and the High School Annex. This would mean a great saving of coal and would eventually pay for itself. A start must be made this year on at least one of the buildings.

Extending the heat control system in the High School to the re-

mainder of the building.

The third story of the Pope School to be fitted up for a hall.

Installing motor and doing away with the present engine used to run the ventilating fan at the Bell School as this engine is in bad shape and would cost as much to be repaired as a new motor.

Removing the partitions between the fire rooms and coal bins in the Bingham, Durell, Morse and Highland Schools and replacing same

with eight-inch brick walls.

Continuation of the policy of installing sprinkler systems, doing as many buildings as possible during the coming year.

#### Fire Department Buildings.

There has been considerable work done and many improvements made in the several fire department buildings.

The front portion of the first floor of Hose 7 was torn out

because of decayed timbers and replaced with cinder fill and a concrete floor.

At the Union Square Fire Station extensive repairs had to be made on the tower and roof again this year as the building was struck by lightning during a severe thunder storm in August.

The great increase in the cost of fuel, light and labor curtailed a great number of the needed repairs during the past year

but much necessary work was accomplished.

The most pressing needs for this year will be the following:

New heating plants in Engine 6 and Hose 8, thus doing away with old and wholly inadequate furnaces. Repairs to Engine 6 house.

New floor in shop at Central Fire Station.

Interior and exterior painting of portions of Engine 1, Engine 2, Hose 3, Hose 5, Engine 6, Hose 7 and Hose 8 houses.

Several other minor repairs are being considered and will

be carried out as far as necessary.

I urgently recommend something being done to Engine 4 This building is in such bad shape that it does not seem wise to spend any money on repairs and as it is a well located building on a good lot of land, I urgently recommend it being torn down and a modern building erected on this There is much material in the present building which could be used in the new.

## Municipal Buildings.

The municipal buildings consisting of City Hall and City Hall Annex, are in fair condition generally.

Considerable new fittings and furniture have been request-

ed by various departments.

During the past year only such repairs as were absolutely necessary were attended to.

#### Libraries.

Very few repairs were necessary at any of the libraries the past year as the buildings are in very fair condition.

The outside of the Central Library building was repaint-

ed 2 coats and much of the furniture refinished.

At the West Somerville Branch Library the roof needs

repairing and some of the interior finish needs attention.

There is also quite a little new furniture required this year which must be furnished.

## Water, Highway, Sanitary, and Sewer Buildings.

Water Department buildings are in need of a new heating plant, as the old plant which was installed as a power plant for the high pressure pumps is not economical and wholly inade-

quate as a low pressure heating plant.

The Highway, Sanitary and Sewer buildings call for considerable repairs. Stall bottoms must be replaced, roof and other repairs made. One thing which calls for serious consideration is the replacement of glass of which there have been more than 200 lights replaced this year.

The Veteran Firemen's building which was Somerville's first Town Hall was repaired and refinished inside and out dur-

ing December.

#### Hospital Buildings.

General repairs were made this last year in these buildings, as follows:

New awnings were purchased and installed; principally on

the Tuberculosis Camp.

Quite extensive outside repairs were made to piazzas, steps,

etc., and some painting was done on the interior.

There is still much to be done, however, in order to keep these buildings in proper sanitary condition.

## City Home Buildings.

Quite extensive repairs have been made to the buildings during the past year, some of which are the following:

A new sun room was added to the Hospital wing.

A cement platform was built at the piggery, and a cement run was made into the barn.

A new hot water boiler was installed in the wash room.

Besides these considerable new furniture had to be purchased.

Request has been made by the Overseers of the Poor for considerable work to be done this coming year.

#### Police Buildings.

Very little was done during the past year to the Police Buildings outside of the necessary boiler repairs and the purchase of a few much-needed, metal lockers for the patrolmen.

I urgently recommend a new heating plant be installed in the stable and garage in the rear. This is needed to properly heat these buildings as the heater in the stable is beyond repair and there is no heat in the garage.

#### Bathhouse.

The public bathhouse on the Mystic River at Wellington Bridge was opened and maintained as usual last year with a very good attendance. No serious accidents were reported for the year.

We were able to secure 500 tons of sand for the resanding of the beach which was greatly appreciated by the patrons.

The theft of bathing suits by the patrons is causing a great deal of trouble and thought to the Building Commissioner and a very large unnecessary expenditure of money by the City. Changes are being planned to eliminate this trouble the coming year.

We hope with these changes to give better service and expect that the bathing beach will another year be taxed to its utmost.

## Park Buildings.

This coming year the building located in Broadway Park will need considerable attention in the way of repairs as the building leaks badly and new sills must be installed.

I heartily recommend the erection of a permanent bandstand in Broadway Park as it is fair to assume that we will continue to have more band concerts here in the future than in the past, and there is no permanent place to have such affairs in the city.

There is considerable agitation being made for a new recreation building to be located in Recreation Field, West Somerville; this building to have toilet facilities for the public and locker and shower-bath rooms for the various athletic teams.

Drawings have been made by the Building Commissioner for such a building and an appropriation of about \$3500 stands available to be used, but this amount is entirely inadequate and should be greatly increased.

#### In General.

The Commissioner of Public Buildings has had the cooperation of all branches of the City Government, including ilis Honor, the Mayor, the honorable members of the Board of Aldermen and all the city officials, and desires to thank them for their kindly consideration.

Respectfully submitted,

GEORGE L. DUDLEY,
Commissioner of Public Buildings.

# REPORT OF THE COMMISSIONER OF ELECTRIC LINES AND LIGHTS.

Somerville, Mass., January 1, 1921.

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

## Gentlemen:—

I most respectfully submit my twelfth annual report as Commissioner of Electric Lines and Lights for the year ending December 31, 1920.

#### Inspection of Wiring in Buildings.

With conditions gradually approaching the normal and prices of materials being somewhat reduced, installations of electric lights and appliances have increased in number.

While few new buildings have been erected this past year a larger number of old houses have been wired for electric-

lights, heating and cooking appliances.

Careful inspection has been made of all work done for which permits have been issued and other old work has been

followed up as far as possible.

The practice of attaching unapproved wiring and appliances to existing installations by persons using electricity still continues but soon comes to the attention of the Inspector, who, if conditions are found to be dangerous, notifies the owner of the premises and if defects are not remedied the removal of the meter is liable to occur.

Very few refuse to rectify such conditions after being notified, as want of proper information is generally the cause of

existing defects.

Occasionally work is done by unlicensed workmen causing considerable annoyance to the customer who should not employ such persons who have not a State License to do wiring. No work should be accepted until inspected and approved.

I again call your attention to the unwise practice of overfusing circuits for light or power. The approval of an installation provides that proper fuses are supplied and they should not be changed to larger sizes.

Changes in the construction of buildings that interfere with the existing wiring should be immediately reported to the inspection department.

The ordinance passed July 1, 1918, requiring permits to be obtained to do work in the City has been a great help in keeping the inspections down to a minimum.

Number of notifications of new work	1400
Number of inspections of new work	1897
Number of re-inspections of new work	57
Number of inspections of old work	98
Number of defective installations of old work	10
Number of defective installations remedied	8
Number of re-inspections of old work	10
Total number of inspections	2080
Number of permits issued to the Edison Electric Il-	1
luminating Company for installing meters, lamps,	
etc.,	1909
Number of permits issued to the Malden Electric Com-	
pany	3

#### Fire Alarm System.

The Fire Alarm System is in first class condition and is giving excellent service, being rated as one of the best systems in the State.

240 bell alarms have been received and transmitted during the year.

Over the central telephone desk with connections to each Fire Station 448 calls for fire have been received and telephone alarms sent to the different stations.

2 A. D. T. alarms have been received at headquarters and transmitted over our own system to the fire stations.

One blow is struck on inside bells in all fire stations at 8 A. M. an 6 P. M. to announce the change of day and night forces.

The central office equipment consists of the following:

2 — 6 circuit operating boards.

1 — 5 circuit tapper board.

1 — 5 circuit gong board.
2 — 16 circuit storage battery charging boards.

1 — 32 circuit protector board.
1 — 12 circuit automatic repeater.

1 — 1 dial, 4 number manual transmitter.

2 — 5 circuit punching registers.

13 punching registers and take up reels.

2 automatic time and date stamps.

1 master clock.

940 cells storage battery.

5-10 foot, 4 shelf battery racks.

4 metropolitan tappers and 2 gongs.

The apparatus outside of the central office consists of the following:

131 signal boxes.

8 tower strikers.

45 gongs.

10 punching registers.

20 tappers.

1 automatic steam whistle.

9 private telephones.

About 60 miles of overhead wires. About 78 miles of underground wires.

6200 feet of old overhead wire has been replaced by new.

No new underground wires were installed last year but provisions are made to continue the work during the present year.

#### Police Signal System.

The police signal system is giving the same excellent service as in former years.

Boxes have been thoroughly tested and found to be in good working order. Some replacements have been made this past year and some others will have to be made this year on account of wear.

The system consists of the following:

1 —4 circuit police desk.59 street signal boxes.4 special boxes.

About 19½ miles of overhead wire. About 13 miles of underground wire.

## Supervision of Poles and Wires on the Streets.

The same attention has been given to the condition of poles and wires on the streets as in previous years. A number of defective poles have been replaced by companies owning the same. New poles have been placed in locations granted for the purpose of supplying lighting and telephone service and abandoned poles have been removed.

1		Re- Re-	
	poles.	placed. mo	ved. set.
New England Telephone & Telegraph Co.	5	23	1 8
Edison Electric Illuminating Co	21	182	. 4
Boston Elevated Railway Co	2	2	. 4
Postal Telegraph Co		2	
Permits given to the New England Tel. &			
Tel. Co. for attachments to the Edison			
Company's poles	195		
Permits given to the Edison Electric III. Co.			
for attachments to the New England			
Tel. & Tel. Company's poles	91		

#### Street Lighting.

The matter of street lighting has had the same attention as in previous years and additional lights have been placed in various parts of the city.

More lights are required in the western part of the city

as some new streets are inadequately lighted.

Our contract with the Edison Company for street lighting having expired, the cost of street lighting has been materially increased, necessitating economy in the placing of new lights.

Additional spot lights have been installed at places where traffic officers are posted and are of great assistance to them.

The number of street lights January 1, 1921, are as follows:

133 Magnetite lights.

376 - 600 C. P. lights.

108 - 125 C. P. lights.

940 - 60 C. P. lights.

#### Recommendation.

I respectfully recommend that an assistant inspector be employed to enable the department to more thoroughly cover all old installations of electrical wiring in the City.

#### Conclusion.

I wish to thank His Honor, the Mayor, the members of the Board of Aldermen and the several departments for the many courtesies received.

Respectfully yours,

WALTER I. FULLER,

Commissioner of Electric Lines and Lights.

## REPORT OF SANITARY DEPARTMENT.

CITY HALL, SOMERVILLE,

January 26, 1921.

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

#### Gentlemen:

I have the honor to submit to you the report of the Sanitary Department for the year 1920.

		Collec	tion	of As	hes a	and Paper.	
1						Ashes	Paper
					(	Cubic Yards)	(Cubic Yards)
January						15,080	300
February			•	•		<b>14,1</b> 00	******
March						14,600	720
April .						11,110	2,100
May .						10,743	2,080
June .				•		9,138	1,840
July .				•	•	7,555	1,880
August .					•	8,255	2,190
September						7,660	2,780
October						7,580	2,740
November						8,025	3,020
December	•	•		•	•	9,755	3,260
Totals		•				123,601	22,910

During the year the Sanitary Department paid to the Highway Department \$6,810.39 for the use of teams. Collections of garbage amounted to 2,275 cords, all of which was disposed of at the department yard.

			Бер	artn	nenta	Reve	enue.				
Sale of	garbage						•			<b>\$1</b> 6,083	20
Th	e equipi	ment	and	its	valu	ation	folle	ows:			
Horses										\$9,000	00
Vehicles				•				•		13,675	00
Harness	es, blanl	kets,	etc.							2,665	00
Stable e	quipmen	t, etc							•	300	00
Fittings	in black	smith	shop	, ç	•	•		•	•	75	00
										\$25.715	00

There is no public dump within the city limits and the dumps now used by this department are located in the city of Medford and are subject to the rules and regulations of the Medford Board of Health.

Respectfully submitted, Edgar T. Mayhew,

Supt. of Sanitary Department.

## REPORT OF THE LICENSE COMMISSION.

To His Honor the Mayor,

Dear Sir: -

The License Commission respectfully begs leave to submit to you and the people of our city the following report of its engagements and activities since its creation early last year. Your commission entered upon its duties zealously and with a keen desire to respond fully to the obligations imposed upon it.

Applications for Common Victuallers, Lord's Day, Lodging House, Inn Holders and Second Hand Automobile Dealer's Licenses were received and acted upon by the Commission as herein set forth.

#### Common Victuallers.

- 60 Applications Received.
- 44 Applications Granted.
- 8 Applications Rejected.
- 10 Licenses Transferred.
- 1 License Revoked.

## Lord's Day.

- 130 Applications Received.
- 114 Applications Granted.
  - 4 Applications Rejected
  - 22 Licenses Transferred.
  - 5 Licenses Revoked.

#### Lodging House.

- 54 Applications Received.
- 50 Applications Granted.
- 4 Applications Rejected.
- 6 Licenses Transferred.
- 3 Licenses Revoked.

#### Inn Holders.

2 Applications Received.

2 Applications Granted.
Applications Rejected.
Licenses Transferred.
Licenses Revoked.

#### Second Hand Automobile Dealers.

- 57 Applications Received
- 39 Applications Granted.
  Applications Rejected.
  - 1 License Transferred.
  - 2 Licenses Revoked.

During the year 298 applications for licenses were received and carefully investigated and your commission was at all times in close touch with conditions respecting licensed places and rules and regulations governing licensed places have been adopted by the commission looking to the proper administration of licensed places.

Lodging houses have been compelled to carry registers which have been and will continue to be of considerable service and assistance to the Assessors and the Police Department. Abuses existing in the past in some of the eating places of the city have been eradicated through the co-operation of the holders of the licenses.

During December of this year special meetings of the commission were held to enable holders of second hand automobile dealers licenses to renew their licenses and thus obtain their number plates in time to comply with the new regulations of the Highway Commission.

The commission wishes to acknowledge the splendid and valuable services rendered it by its Inspector Daniel G. Simonds in investigations and Miss Anne M. Gridley, who has served your commission in the capacity of secretary.

Very respectfully submitted,

EUGENE M. CARMAN, Chairman, William H. Smith, William J. Shanahan.

## SOMERVILLE WATER WORKS.

#### SOMERVILLE, MIDDLESEX CO., MASSACHUSETTS.

Settled, when part of Charlestown, 1630. (Home of Colonial Governor John Winthrop).
Incorporated a town, 1842.
Established a city, 1872.

Location: Somerville City Hall (near centre of the city) is 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, 94,000.

Entire population on line of pipe and supplied with water.

Water works owned by City of Somerville.
Construction commenced in 1868.

Source of supply: Metropolitan system, taking water of the Nashuariver at Clinton, Mass.

Range of pressure on street mains: Low service 35 to 65 pounds. High service 45 to 100 pounds.

Mayor.

Hon. Charles W. Eldridge.
Water Commissioner.
Frank E. Merrill.

Office of the Water Department..

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, 1921.

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

I present herewith my report for the year ending December 31, 1920, this being the forty-seventh annual report of the water department and my twenty-first as water commissioner:

## Revenue and Expenditures.

## Water bills have been issued as follows:—

"Annual" water charges, amounting to .			\$40,229	50
"Additional" water charges, amounting to			1,230	63
"Metered" water charges, amounting to			216,246	33
			\$257,706	46
Annual and				
Additional	Mete	red	•	
Abatements and refunds				
on above charges . \$1,043 75	\$339	83		
			1,383	58
Income from sale of water Receipts; water service assessments .	\$1,905	10	\$256,322	88,
Receipts; labor and materials sold: —	, ,			
Miscellaneous accounts . \$4,797 65 Less abated and carried				
to 1921 accounts . 359 29				
\	4,438	36		
			6,343	46:
Total income of water works			\$262,666	34.

This amount was used as follows:-

For water works purposes:—

#### Under Control of the Water Commissioner.

Water	Work	S	Mainte	}-				
nan	ice				\$61,306	77		
Water	Works	ext	tension		6,051	40		
Miscella	aneous	acc	counts		4,438	36		
					-		\$71,796	53.

#### Not Under Control of the Water Commissioner.

Interest on water loan bonds .		\$80 00
Maturing water loan bonds		2,000 00
Metropolitan water works assessment		127,505 74
Maintenance water works buildings	•	986 64

\$130,572 38

## For other municipal purposes:—

#### Not Under Control of the Water Commissioner.

Surplus	•	•		•	\$60,297 43

\$262,666 34

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.

Appropriation	made	e by	Boa	rd of	Alde	rme	n.			\$62,500	00
Transferred fr											
count .										3,400	00
Department ac						·	·			1,094	
						· inta	•			4,500	
Water works										4,500	19
Amount expen											
operation,	maii	nten	ance,	and	rene	ewai	or		-		
the water							•	<b>\$61,306</b>	77		
Amount expen	ded	for	mate	rials	used	in	ex-				
tension of	the '	wate	r wo	rks				4,500	15		
Miscellaneous								4,438	36		
Labor and ma				ned n	nunici	nal	de-	, -			
partments					i di i	par	40	1,094	64		
	•		•	•	•	•	•	1,001	0.1		
Balance:								454	Ort		
Unexpende	α.		•	•	•	•	•	154	81		
								\$71 494	79	\$71,494	79
								ψι <b>τ</b> ,τυτ	13	ψι1,101	13
								-			
	'WAT	ER	WOR	KS E	XTE	1510	N A	CCOUNT.			
Nummonriation	n o d o	hv	Board	d of	Aldorr	nen				\$12,000	00

Appropriation made by Boar Amount expended for labor	<b>\$12,000 00</b>					
in extension of the wat				\$6,051	40	
Transferred by Board of A						
to Water Maintenance	Ac	count	•			
to Interest account.	- 24			2,400	00	
Balance: unexpended .				148	60	
e				\$12,000	00	\$12,000 00

#### Cost of Water Works.

The total cost of water works on December 31, 1919, as represented by the expenditures from appropriations for water works ex-	
tension was	\$1,073,196 79
Expended during the year 1920, on extension account	6,051 40
Total expenditures, December 31, 1920 .	\$1,079,248 19

#### Water Debt.

Water loan bonds have been issued on funded debt account to the amount of \$1,017,000; the last of these bonds was paid in October, 1920, and there is now no water-works debt.

#### Water Works Income from 1898 and its Distribution.

The water income and its distribution from 1898 to 1920, inclusive, is shown in the following table:—

'Total water	rinco	me,	years	1898	to	1920,	ìn-	1
clusive						•		\$5,400,199 <sup>1</sup> 8
Distribution	:							

#### Water Works Account.

Water Worl	ks Cor	struction	on,	Renev	wal,			
'Maintena	nce, Op	eration	and	Misc.	Ac-			
counts						\$1,351,054	17	
Water bonds		•		•	•	274,000	00	
Interest		4		•		86,575	00	
Metropolitan	Water	Assess	men	ts .		2,143,799	90	
Maintenance	Water	Works	buile	dings		5,849	33	
							\$3,861,278	40
							• • •	

#### Other Municipal Accounts.

	appropriati	ons an	d ger	neral		
revenue	account	•	•	•	<b>\$1</b> ,538,920 '	78
					\$5,400,199	18

## Water Distribution System - Construction

#### STREET MAINS.

Approximate number of feet of street macity, January 1, 1920, (including	hydrant	
branches and blow-offs)		541.645
Feet of street mains laid in 1920.		4 00 4
Feet of hydrant branches laid in 1920.		114
Feet of blow-off branches laid in 1920.		<b>1</b> 3
Total feet of pipe laid	• •	1,222

Feet of pipe	removed	or replac	ced .			974	
Net increase	in feet of	f pipe		•			248
Total approxi				eity .	• •	,	541,893 102,63
The size follows:—	es and le	engths of	pipe la	aid and	discont	inued	are as
Size 1"	Feet Laid	Feet Discontin	nued S	Size 4" 6" 8" 10"	Feet Laid 21 391 62 609	Disco	Feet ontinued 72 655 50 .
The pip as follows:-		ructed a	ind rep	olaced (			
		S	ize of Pir	pe Feet L	Fe Disc aid tinu	on- I	Size Discon- tinued
Constructed:- Mystic Ave Windsor St Do. Con. wi Replaced:-	nue .		6" 6" · 6"	$egin{array}{c} 17 \ 220 \ 6 \ \end{array}$		ou l	em <b>u</b> eu
Congress P. Linden Plac Linehan Co- Linwood Pl	e . urt .		12" 2" 6" 4" 12"	9 139 32 8 600	13 3	82 8	6" 1" 1" 1" 6"
Linwood St		}	6" 10"	4 36		30	4"
Poplar St., I	East .	{				6	6"
Poplar St.,	West	}	10"	24	1	.8 6	4" 6"
Hydrant bra		olow-off st con-			,		
nections .	•	•		127	12	2	
				1,222	97	4	
		Hydran	· ·				
Number of fi 1920 Number set of Number remo	during ye	ear .		ary 1,	23 21	1,177	
Net increase				•		2	
Total nun	_						1,179
Number of pr 1920						64	
Number set b	y private	companie	es durin	gtne		0	

Total number of private fire hydrants receiving their supply from the city mains	6 0 24 2 0 ——6 2	1,856 32	64
		8	
Net increase in number of gates Total number of gates in city	•	24	<b>1,</b> 880
Number of check-valves in city		183 2	
Total number of blow-offs		-	185
Number of waterposts in city January 1, 1920 Number removed during the year		74	
Total number of waterposts			72
Number of drinking fountains in city.  Number of car-sprinkler, connections in city		quinterprise.	8 17
Water Services.			
Number of services in city January 1, 1920 .  (approximately)  Number laid during the year  Number permanently discontinued	28 18	13,544	
Net increase in services		10	
Total number of water services in city			13,554
Amount received for services laid in 1920.  Number feet service pipe in city January 1, 1920 (city and private) approximately.  Number feet laid during the year	1,214 845	467,177	\$1,905.10
Increase in feet of service pipe		369	
Total feet service pipe (city and private) (approximately) Total service mileage (approximately) .		~	467,54ช 88.55

Size, number and l	ength of s	ervices ins	stalled in 19	920:
15-5%"-485' 4-34"-340'	3-1"-214"	1-2"-33"	4-4"-112'	1-6''-30'
Number of fire services in (Included in above)	nstalled du	_		4
Location Beacon St. — Bailie Basi Fitchburg St. — The Grea	t Atlantic	& Pacific	No. 1	Size 6"
Tea Co	low Co	• ' •	2 1	4". 4"
r	Water M	eters.	•	
Number of water meters	in city, Jar	nuary 1, 192	20 .	10,319
Number installed during t Number reset		ew		160 123
				283
Number removed on accor	e of water	and for	sub-	199
stitution of other met	ers		• -	133 
Net increase in number of Number of motor register				150 3
Total number of meters a Per cent. of all services	an <mark>d registe</mark>	rs	· .	10,472 77.26
•				
Operating	Meters De	ecember 31,	1920.	
Cigo 5/" 3/" 1"	11/"	2" 3"	4'' 6''	Total
Size 5%" ¾" 1" No. 10052 273 87	$\frac{1}{2}$ 15	26 8		10469
Motor and elevator registers				3
				10472
The meters installe	d in 1920	were class	ed as follow	/s:
Applications of property o New services				32 <b>4</b> 5
New services General installation .			•	83
Reset	. :		•	123
Total . : .				283
Meters were remove	ed for the	following	causes:—	
Vacancies and temporary	non-use of	water .	•	60
Services permanently disc Replaced by other meters			•	13 60
Total				133

Meters installed yearly on old and new services under the State Compulsory Meterage law, which requires complete meterage of city by the year 1928:—

	Average installation	Meters	Set in excess		Meters
	required on	set on	* of	Total	set on
Year	old services old	services	requirements	excess	new services.
1908	411	755	344	344	147
1909	411	637	226	570	201
1910	411	501	. 90	660	169
1911	411	528	117	777	200
1912	411	423	12	789	236
1913	411	432	21	810	. 255
1914	411	422	11	821	· 231
1915	411	439	28	849	217
1916	411	434	23	872	203
1917	411	163	248 (less)	* 624	154
1918	411	82	329 (less)	* 295	39
1919	411	166	245 (less)*	50	23
1920	411	<b>11</b> 5	296 (less)*	246†	45

<sup>\*</sup> On account of war-time conditions of labor and material.

The tollowing table shows the progress of meter installation of Somerville by years and the results therefrom in water consumption:

	•				Per	r Capita.
			Number	Number		Con-
		Popu-	of	of	Per Cent	sump-
Year		lation	Services	Meters	Metered	tion
1897	• • • • • • • • • • • • • • • • • • • •	58,000	9,601	•••••	(1	Est.) 88
1898	• • • • • • • • • • • • • • • • • • • •	59,000	9,806	143	1.5	" 88
1899	* *************************************	61,000	10,053	226	2.25	" 88
1900	• • • • • • • • • • • • • • • • • • • •	62,000	10,291	202	2	" ' 38
1901	* * * * * * * * * * * * * * * * * * * *	64,000	10,520	224	2	" 88
1902	* * * * * * * * * * * * * * * * * * * *	66,000	10,710	269	2.5	" 88
1903	* * * * * * * * * * * * * * * * * * * *	.68,000	10,854	647	6	" 88
1904	•	69,000	11,059	1,272	11.5	89
1905	• • • • • • • • • • • • • • • • • • • •	70,000	11,279	2,092	18.5	<b>S</b> 9
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	<b>57</b>	79
1913	* * * * * * * * * * * * * * * * * * * *	82,000	12,827	7,856	61	72
1914	* * * * * * * * * * * * * * * * * * * *	85,000	13,034	8,499	<b>6</b> 5	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	Census	93,033	13,554	10,472	77.26	77

<sup>†</sup> Deficiency.

## Summary of Pipes and Fixtures of the Water System December 31, 1920.

Feet of main pipe (ap	proxi	natel	( <b>y</b> -)					541,893
Feet of service pipe	(appro	xima	itely)					467,546
Service connections (	appro	xima	tely)		•			13,554
Public fire hydrants		•	•					1,179
Private fire hydrants		•						64
Gates			. /					1,880
Check valves .				-			•	8
Meters		•				•		10,472
Motor registers .								3
Waterposts .								72
Car-sprinkler connect	ions							17
Blow-offs	•	•						185
Drinking fountains an	d trou	ighs			•			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:—

	Sinking			Maturing	
Year	Fund	Maintenance	Interest	Bonds	Total
1898	No division	made			\$14,250 19
1899	"	66			20,975 58
1900	"	66		١.	28,689 24
1901	\$12,491 73	<b>\$</b> 12,033 <b>7</b> 9	\$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
				_	110.500.00

\$2,143,799 90

There has been credited to the city by the commonwealth as its proportion of the amounts received from entrance fees, water supplied outside the district, and water furnished to water companies the sum of \$9,056.10.

The daily consumption of water in Somerville, as recorded by the Venturi meters, operated by the Metropolitan water works, is shown below by months for the year 1920:—

Month	Gallons per day	Gallons per capita	Month	Gallons per day	Gallons per capita
January	8,574,600	92	July	7,052,700	75
February		89	August	7,031,600	75
March		85	September.	6,763,100	72
April	6,862,200	74	October	6,761,800	72
May	6,782,700	73	November .	6,636,600	71
June		73	December	6,636,300	70

## The consumption for the year was:-

Low-service system	2,058,666,000 gallons 568,240,000 gallons
Total consumption	
Average daily consumption	<b>7,1</b> 77,300 gallons
Average daily consumption, per capita, for Somerville	77 gallons
Average daily consumption, per capita, for Met-	
ropolitan district	105 gallons

The following table shows the daily per capita consumption of water in the cities and towns in the Metropolitan Water District for the year 1920, as registered by the Metropolitan meters.

City or Town	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Zea <b>r</b>
Arlington	57	59	54	50	55	54	66	77	57	53	49	48	56
Belmont	54	55	57	60	51	52	57	70	54	, 50	47	46	54
Boston	148	147	134	119	114	122	122	122	120	121	117	116	125
Chelsea	94	90	85	77	74	72	<b>7</b> 5	74	75	69	65	66	76
Everett	96	92	89	81	80	80	82	85	84	85	87	86	86
Lexington	63	62	70	62	64	67	74	84	68	66	61	5 <b>7</b>	66
Malden	58	58	<b>57</b>	55	55	56	58	64.	<b>6</b> 0	55	53	40	57
Medford	49	48	46	42	45	46	48	44	42	42	40	40	44
Melrose	64	64	67	59	57	58	63	67	61	59	55	54	61
Milton	44	46	48	44	45	49	47	43	45	49	48	43	46
Nahant	123	119	95	74	122	169	281	272	205	127	78	66	145
Quincy	105	103	93	89	88	92	95	98	94	90	86	85	93
Revere	73	. 72	66	60	63	69	80	78	68	63	62	59	68
Somerville	92	89	85	7.4	73	73	<b>7</b> 5	<b>7</b> 5	72	72	71	70	77
Stoneham	129	131	127	99	91	92	98	102	84	85	80	83	100
Swampscott	63	65	67	66	73	89	112	113	96	80	72	70	81
Watertown	97	105	98	95	94	96	99	101	88	71	65	65	89
Winthrop	56	156	56	50	52	54	70	71	59՝	52	49	48	56
Met. Dist	123	121	112	100	96	102	104	105	101	101	97	96	105

The district, in order of consumption, beginning with the lowest, stands as follows for the year 1920:—

							Gallons 1	Per Cent.
						Total	Per Capita	Services
City	or Tow	n				per Day	per Day	Metered
Medford						1,739,700	44	100
Milton .	•		Ē.		•	430,900	46	100
Belmont	•					591,400	54	100
Arlington	•	•	•	•	•	1,055,600	56	100
Winthrop		•			•	876,400	56	100
Malden .		•			•	2,793,300	57	97
Melrose .	•				•	1,108,100	61	100
Lexington	•	0.	•	•	•	424,300	66	100
Revere .						1,975,900	68	79
Chelsea		•				3,316,400	76	99
Somerville			•			6,636,300	77	77
Swampscot	tt .		• .			657,200	81	100
Everett .						3,455,200	86	68
Watertown	١.					1,911,700	89	100
Quincy		•	•			4,472,500	93	90
Stoneham						660,100	100	99
Boston		•	-			94,297,400	125	74
Nahant						192,600	145	75
	trict			•		127,265,500	105	74

#### Construction — Maintenance — Operation.

Substantially the same conditions in building costs prevailed as during the previous year and but little call has arisen for extension of the water distribution system.

The only construction work of importance was the installation of a 6" main in the unpiped portion of Windsor street, in anticipation of the laying of permanent paving.

The right to lay a water pipe in Linden Place having been granted to the city by the abutting owners a 2" pipe was installed in place of the existing service pipe which was badly corroded and unserviceable.

In anticipation of the permanent paving of a portion of Linwood street the old 6" main was replaced with a 12" pipe between Congress place and Dix place, and side street branches, hydrant branches and service pipes in that section of the street were renewed.

A blow-off was constructed in Linwood street at the crossing of Poplar street; also one in Union square westerly from Stone avenue.

By order of the Board of Aldermen the large fire hydrant which has stood in the middle of Union square for many years was removed to make way for a monument to the veterans of the World War; a smaller hydrant has been substituted for the

one removed and has been installed in the sidewalk westerly from Stone avenue.

Several fire hydrants have been broken by motor cars and trucks and bills for replacement have been rendered and collected.

Service installation has reached a very low point, only twenty-eight having been laid during the year; ten old ones were discontinued leaving a net increase of but ten services. Installation was in the following class of premises:

Church		•	1.	Office building	1
Factories		•	2	Residences	5
Factory fire pipes		•	2	Stores	4
Garages			5	Warehouse; service and fire	
Gasoline filling stati	ion		1	pipes combined	2
Laundry			1	Yards and shops	4

The service maintenance account is yearly growing as the older pipes become filled up with sediment and rust and during the summer season it requires two gangs to keep up with the demands for attention.

During the year we attended to and improved 1,185 cases of deficient service.

On account of inability to obtain the proper quality of labor we were obliged to slow down on water meter installation and at the end of the year we faced a deficiency of 246 in the number required for the city's installation under the State Meterage Act. Steps have been taken, however, to remedy this situation and before the end of another year we shall have caught up with our quota.

Water income for the year has shown a substantial increase, amounting to \$262,666.34 as compared with \$248,544.27 the previous year.

Department accounts show all bills contracted for payment during the year as settled and substantial unexpended balances at the closing of the books.

#### Labor

The only change in the wage rate was that of May 2 when wages were advanced by the mayor 25 cents a day, making the rate for common labor \$4.00 a day and for skilled labor \$4.10 a day; the same advance was granted to the foremen and meter readers.

#### **Pensions**

Two names have been added to the pension list during the year, viz: Patrick J. Bergin to date from May 20th at rate of \$12.30 a week and John Brady to date from November 17 at

rate of \$12.00 a week. There are now six pensioners on the water department list.

#### Water Debt

A noteworthy event of the year was the extinguishment of the water debt, the last of the water loan bonds having been paid in October.

Bonds were issued at intervals from 1869 to 1896, the total amounting to \$1,017,000; since the latter date the entire cost of maintenance and extension of the water-works system has been paid from the water income, together with the maturing bonds, interest charges, Metropolitan water assessments and other accounts.

## Shop Improvements

I sincerely hope that some action may be taken during the coming year toward improving the working conditions at our shop. None of the changes that I recommended last year have been carried out and we are still handicapped by lack of proper facilities to carry on our necessary and ever-increasing repair work; this can and should be remedied at an early date.

Respectfully submitted,

FRANK E. MERRILL,

Water Commissioner.

Street Mains, Gates, Hydrants, Etc., Laid, Set, and Removed in 1920.

ER	RE- MOV'D	.oV			_										
WATER	SET.	.oV		_			1				•	·····			
BLOW-OFFS.	RE- MOV'D	· N													
011		.oV													
BLO	SET.	Size.	1										~~~~		
	REMOVED	Kind		Ch.	Hol.	Hol G	Mat.			B.M.		Ch	B.M.	Cof.	
ANT	RE	.əzi8		"9	,,9	"9	,,9			4		"9	*4	,,9	
HYDRANTS.	SET.	Kind		Ç	Çō.	Co.	Ę	:		Co.		Co.	Mat.		Cof.
		Size.		,9	.9	,,9	,"9			.9		.9	9	20	9
	RE- MOV'D	Size. Kind													
38.	MC	02:2													
GATES	SET.	Kind			Ren.	Smith	Ren.	Ren.			Ren.	nem.	Ren.	Ren.	Ren.
		.9zi2			,,9	<b>"</b> 9	,,9	,,9			"9	0	,,9	"9	,,9
	REMOVED.	Feet.		9						တ္က			ಣ		
Ĕ.	REM	.9zi2		,,9					**				**		
PIPE	LAID.	·1994		4			4		(	တ က			, m		,
	L	.9zi2		<i>"</i> 9			. "9		3	12″ 6″			"9		
	WANTEDOOR	, , , , , , , , , , , , , , , , , , ,	Hydrant replacement: 9 ft north from Charlestown	Street Gate on hydrant branch: 9 ft north from north line	of Charlestown St., 2 ft 6 in. out from hydrant Hydrant replacement: opposite Mead Street Gate on hydrant branch: Opposite Mead St., 4 ft out	from hydrant Hydrant replacement: 50 ft north from Clyde Street Gate on hydrant branch: 50 ft north from Clyde St.,	3 ft out from hydrant Hydrant removal: 127 ft north from Vernon St. Hydrant: 132 ft north from Vernon Street	north	Replaced street main: From connection with 12" gate on west line of Linwood St. to connection with	new 12" main in Linwood St, Hydrant replacement: 97 ft east from Line St. Gate on hydrant branch: 97 ft east from east line of	Gooney St., 3 ft out from hydrant Gate on hydrant branch: 9 ft south from Tyler St., 4	it out irom nydrant Hydrant replacement: 4 ft from Orchard Street Gate on hydrant branch: 4 ft north from north line of	Orchard St., 4 ft out from hydrant Hydrant replacement: 9 ft west from Fellsway West		Gate on hydrant branch: 173 ft south from south line of Somerville Ave., 3 ft out from hydrant
•	mercrans	SIREEI.	Allen Street		Cameron Ave.	Cedar Street	Central Street		Congress Place	Cooney Street	Dane Street	Day Street	Jaques Street	Kilby Street	

							-			Management of the last of the	-			-		
			PIPE.			GATES	ES.		H	HYDRANTS.	NTS.	BLO	BLOW-OFFS.		WATER POSTS	ER Si
		LAID.		REMOVED		SET.	REN	REMOVED	SET.		REMOVED	SET.	RE- MOV'D	1	SEL N	RE- MOV'D
STREET.	DESCRIPTION.	Size.	Feet. Size.	Feet.	.9zi2	Kind	.əzi2	Kind	Size. Kind	.9zi2	риіЯ	Size.	.oN Size.	.oV •	'oN	.oV
Laurel Street	Hydrant replacement: 49 ft north from Greene Street Gate on hydrant branch: 49 ft north from north line of Greene St., 4 ft out from hydrant	,,9	9	9 "9	· •	6" Ren.			6″ Co.	4,"	Big.					
Linden Place	Replaced street main: From connection with main in Linden Ave. to point 126 ft west from west line of Linden Ave.	2" 139		1" 139	 \z	2" Ch.	1,,									
Linenan Court	Replaced street main: From connection at point of it east from east line of Linwood St. to connection with 12" main in Linwood St.  Gate: On east line of Linwood St. 4 ft north from			1" 32	,9	Smith	1,"									
Linwood Place	Replaced street main: From connection with 4" gate 3 ft east from west line of Linwood St. to connection with 12" main in Linwood St.	<u>*</u> *	∞	1, 8	*	4 2 3 3										. 9
Linwood Street		12" 600			<del>7</del> '		-									
	north from north line of Dix Place Blow-Off: 6 ft 6 in. south from north line of Poplar St. West and 28 ft east from west line of Lin- wood St.	, <sub>4</sub>	4 o	<b>ී</b>	<u>-</u> -	4" Ren.	,,6					4"				_
	Waterpost: 770 ft west from Poplar Street, (WP NO. 30) Hydrant removal: 2 ft south from Linwood Place Hydrant: 48 ft north from Congress Place Gate on hydrant branch: 48 ft north from Congress Place and 3 ft 6 in, out from hydrant	<b>"</b> 9		1 <sup>4</sup> <sup>4</sup>		6" Smith		WOLFER E SHOULD SEE STREET		4"	Hol G.					
	Hydrant removal: 48 it south from Lamson Court Hydrant: 23 ft north from Dix Place Gate on hydrant branch: 23 ft north from Dix Place and 2 ft 6 in. out from hydrant	<b>.</b>	o		<u>.</u>	6" Ren			<u>°</u>	•		<u>;                                    </u>				

	6" Hol.G.	7 Ton "1	# poi:	6" Hol.G.	6" Hol C.				6" Hol.G. 6" Ch.	8" Hol.G.
Co.	Ço.	6	9	Co.	Co.				Co.	Ço.
,,9	.9	"3	•	,9	19				<u>"9</u>	9
							Ch.	Ch.	•	Ch. Cof.
							9	, 9	•	2,2,8
-	Smith	Smith	Ren.		Smith	Ken.	Ren.	Ren.	Smith	Ren.
		,,9	,,9			9	10″	10″	9	,,9
	24	න <u>ැ</u>			ۍ ص	30				809
	,,9	," <sub>9</sub>	<b>:</b>		.9	4.0	•	6		, 2, 20 2, 20
6	24	or.		17	5	36		<del>*</del> 7.	ರ	7.5
<b>"9</b>	,,9	,,9		,9	,9	10″		01 —————	, , ,	10"
Hydrant: 14 ft south from Poplar Street Gate on hydrant branch: 14 ft south from Bonlar St	and 3 ft out from hydrant Hydrant replacement: 6 ft north from Moreland St. Gate on hydrant branch: 6 ft north from north line of	Moreland St., 3 ft out from hydrant Hydrant replacement: 463 ft north from Washington St.	Gate on hydrant branch: 463 ft north from north line of Washington St. 4 ft out from hydrant Street main: From connection with 6 in main in Mystic Ave. at point 136 ft south from south line of Tenney Court to point 153 ft south from south	Hydrant replacement: West corner of Milton St., Gate on hydrant branch: On west line of Milton St.,	Hydrant replacement: 16 ft east from Hillside Ave. Gate on hydrant branch: 16 ft east from west line of	Poplar Street East Replaced street main: From connection with 6 in main in Poplar St. East at point 11 ft east from east line of Linwood St. to connection with 12 in. main in Linwood St.	On east li om south ain: Fror St. West	west time of Linwood St. to connection with 12 in. main in Linwood St. Gate replacement: On west line of Linwood St., 10 ft north from south line of Poplar St. West. Hydrant replacement: 608 ft north from north line of	Summer St.  Gate on hydrant branch: 608 ft north from north line of Summer St., 4 ft out from hydrant Hydrant removal: 80 ft west from Willow Place. Hydrant: 1 ft west from west line of Water Street	of South St. and 1 ft east from west line of Water St., 2 ft out from hydrant Waterpost: 32 ft east from Cedar Street (WP No. 69) Hydrant removal: Centre of Union Square Hydrant: North side of Union Square 64 ft west from Stone Ave.
Linwood Street	Main Street	Myrtle Street	Mystic Ave.	Orchard Street	Pearl Street	Poplar Street East	Poplar Street West	Putnam Street		Summer Street Union Square

		1									4						
			PIPES	ω			GATES	-:		HYDRANTS	NTS		BLOW-OFFS.	-OFF		WATER	
THE HATE	Degratement	LAID.	1	REMOVED.	ED.	SET.	RE	REMOVED	S	SET.	REMOVED	VED	SET,	RE- MOV'D	SET.	RE-	-4-C
		.əzi2	Feet.	Size.	Feet.	Kind.	.əziZ	Kind.	.9zi2	.bniA	Size.	Kind	Size. .oN	Size.	No.	No.	
Union Square Webster Street Washington Street Windsor Street	Gate on hydrant branch: North side of Union Square, 64 ft from Stone Ave. 4 ft out from hydrant Blow-Off: 52 ft west from west line of Stone Ave. and 23 ft 6 in south from north line of Union Square. Hydrant replacement: 25 ft east from east line of Cross St., 2 ft 6 in. out from hydrant Hydrant replacement: 42 ft east from east line of Cross St., 2 ft 6 in. out from hydrant Hydrant replacement: 42 ft east from east line of Durant St. in sidewalk 1 ft 6 in. back from hydrant Hydrant: 35 ft north from Cambridge city line, 4 ft out from hydrant Court (Boynton Yard) Hydrant removal: 150 ft south from Glass House Court (Boynton Yard) Hydrant branch: 214 ft south from south line of Glass House Court (Boynton Yard) 3 ft. out from hydrant Street main: From connection with 6 in. main at point 250 ft south from south line of Glass House Court (Boynton Yard) to dead end, at point 35 ft north from Cambridge city line Street main: Connecting with old Middlesex Paper Co.'s pipe running through private land to Conlon Court	6, 6, 6, 7, 12, 13, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	250 250 4 4 4 4 4 9 1222 1222 1222 1222 1222 12	9	8 25 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	6" Ren. 6" Ren. 6" Ren. 6" Ren. 6" Smith 6" Smith	∞		6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	Co. Co.		Co. Co.	1	1			1
Feet of pipe laid: Feet of pipe discontinued Gates set Gates discontinued Hydrants set Hydrants discontinued	4" and under;     6";     8";     10";     12"     Total       tinued     269     655     50      974       5     2     1      974       1ed     6     14     1		-  '.\$ }'	Chap Coff Hol	nsselg P. P. man in Va yoke	Key:  - Rensselaer Valve Co.  - A. P. Smith Mfg. Co. Chapman Valve Mfg. Co Coffin Valve Co Holyoke (Norwood Eng. C	": "Mfg. Ifg. Cod E	Co. The Co.)		Mat. — B. M. — type) Big — G — G2 C — C0	Mather Bosto Bigelow Gate type.	Mathews (R. D. Boston Machine Bigelow Gate type.	(R. D. Machine type,	D. —	Wood (Disco	Wood & Co.) (Discontinued	ed ed

## SUMMARY OF STATISTICS. FOR THE YEAR ENDING DECEMBER 31, 1920.

In form recommended by the New England Water Works Association.

### SOMERVILLE WATER WORKS

SOMERVILLE, MIDDLESEX COUNTY, MASS.

### General Statistics.

Population, census 1920; 93,033; present, estimated 94,000.

Date of construction: Commenced in 1868.

By whom owned: City of Somerville.
Source of supply: Metropolitan water system.
Mode of supply: Water is delivered into the city's mains, under both high and low pressure, by the Metropolitan Water Works.

# Statistics of Consumption of Water.

Census population, 1920, 93,033. Population on lines of pipe, Dec. 31, 1920, 94,000. Population supplied, Dec. 31, 1920, 94,000. Total consumption for the year, 2,626,906,000 gallons. Average daily consumption, 7,177,300 gallons. Gallons per day to each inhabitant, 77.

# Statistics Relating to Distribution System, 1920.

### MAINS.

Kind of pipe, cast iron.

Sizes, from 4-inch and under to 20-inch. Laid 1,222 feet; discontinued 974 feet; net extension, 248 feet.

Total now in use, 102.63 miles.

Number of hydrants added during year (public, 2; private, 0), 2.

Number of hydrants (public and private) now in use, 1,243.

Number of stop gates added during year, 24.

Number of stop gates now in use, 1,880.

Number of blow-offs, 185.

Range of pressure on mains, 35 pounds to 100 pounds.

## SERVICES.

Kind of pipe: Lead; wrought iron — lead-lined; wrought iron cement-lined; cast iron.

Sizes, one-half to eight inches.

Extended 1,214 feet; discontinued 845 feet.

Total now in use, 88.55 miles.

Number of service taps added, 28; discontinued, 18; net increase, 10.

Number now in use, 13,554.

Number of meters added, 283; meters and motor registers discontinued, 133; net increase, 150.

Number now in use, 10.472.

Percentage of services metered, 76.26.

Percentage of water receipts from metered services, 84.

Number of motors and elevator registers added, 0; removed, 0.

Number now in use, 3 (included in number of meters).

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		i i i	\$65,745 13 \$0 00 2,000 00 986 64		\$6,051 40	127,505 74	60,297 43	\$262,666 34
FINANCIAL STATISTICS. EXPENDITURES.	Water Works Maintenance:— Operation (management, repairs and renew- sets)	Special:— Miscellaneous accounts	Interest on bonds	Mains \$2,423 72 Services 1,881 78 Meters	Total construction	Metropolitan water assessment Balance: —	Total balance	34 Total
FINANCIA REVENUE.	\$40,416 38 . 215,906 50	\$25	4,438 30					\$262,666 34
RE	From Water Rates:— Fixture rates Meter rates	Total from consumers From other sources:— Water service assessments	Labor and materials	•				Total

\$1,079,248 19 None 

# REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

Office of Sealer of Weights and Measures, City Hall Annex, Somerville, January 1, 1920.

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

The following report of the sealer of weights and measures for the year 1920 is respectfully submitted:—

During the past year, a great many inquiries have been received from the citizens of our city, indicating their interest relative to matters of weights and measures, and numerous complaints have been investigated and adjusted satisfactorily between the parties concerned. Two cases have been prosecuted and convictions obtained.

The total tests as shown in the following table are less numerous than last year owing in a great extent to the fact that many of the old measures and even balances and weights are being discarded for the modern computing scale.

Particular attention has been paid to gasoline and oil pumps as these need more attention than any other measuring device.

### ANNUAL REPORT.

### Work of Weights and Measures Department for 1919.

Number of	scales	seal	ed						1,665	
Number of	weight	ts sea	led			•			3,781	
Number of									64	
Number of									4,948	
Number of					led				176	
Number of					•	• /		•	141	
Number of	miscel	laneo	us sea	aled w	rood t	aske	ts		34	
								-	<del></del>	
Total	•	•	•		•	•				10,809
Number of					•				37	
Number of	weight	s adji	usted		•				55	
								-		
Total			•							92

Number of scales condemned	5	
Number of weights condemned	23	
Number of dry measures condemned	3	
Number of liquid measures condemned	45	
Number of yard sticks condemned	0	
Number of Gas pumps condemned	0	
- · · · · · · · · · · · · · · · · · · ·	<del></del>	
Total		76
Number of scales and weights out of use non-		
m sealed	14	
Number of inspections in stores and street.	343	
		357
		11,334

Benjamin S. Abbott,
Sealer of Weights and Measures.

# REPORT OF THE LAW DEPARTMENT.

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

The annual report of the law department for the year ending December 31, 1920, is as follows:

A petition and bill were presented to the legislature for changing the boundary line between Somerville and Medford. The city governments of the two cities were unable to agree upon the changes to be made and no act was passed by the legislature.

Hearings were held before a committee of the legislature and before the Middlesex county commissioners in regard to the proposd widening of Bridge street in Cambridge. The cost was estimated at several hundred thousand dollars and no decision could be reached as to where the cost should fall and no definite action was taken. It seems to me unfair that any special burden should be placed on the city of Somerville for this improvement.

An act was secured making more clear the law relative to the protection of persons furnishing materials or labor for public works. Chapter 210 of the Acts of 1920.

I acted for the prosecution in a number of cases in behalf of the board of health and the inspector of milk.

A claim before the industrial accident board was tried and a decision was given in favor of the city, but the contractor who employed the claimant paid him a substantial sum of money at my suggestion. A hearing which lasted five days was held in the Somerville police court on an appeal by a fireman who had been discharged by the city-government. His discharge was sustained by the court. Claims for injuries received by reason of defects in public ways were settled for an amount considerably less than the average in former years.

Very respectfully,

FRANK W. KAAN,

City Solicitor.

# REPORT OF CHIEF ENGINEER OF FIRE DEPARTMENT.

Somerville, Mass., January 31, 1921.

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

Gentlemen, — Herewith I have the honor of submitting, for your information, the annual report of the fire department for the year ending December 31, 1920:—

## Alarms of Fire.

Number of bell a	larms					•		240	
Number of still a	alarms	\$				•		448	
Total alarms					•			(	688
Number in ex	xcess	of 19	919						26
Value of buildings at ri	isk							\$653,945	00
Insurance on buildings			•					411,650	
Damage to buildings								74,396	
Value of contents.		•		•				303,825	
Insurance on contents			•		•		•	229,975	
Damage to contents	•	•		•	•	•	•	61,832	
Total value at risk		•			•			957,770	
Total insurance .								641,625	00
Total damage .	•		•	•	•	•	•	136,228	95

## List of Probable Causes.

								_
Accidental .		•	•	•	•	•	•	5
Automobiles								<b>1</b> 3
Bonfires .								15
Candle dropped in						-		1
				•	•	•	•	-
Carelessness with				•	•	•	•	5
Careless meter n	nan						•	3
Children playing v	with 1	match	ies					18
Cigar or cigarette	thro	wn o	n awr	ing				4
Cigars, cigarettes	and p	pipes						15
Closet fires								5
Clothing hanging	too n	near s	tove					3
Decorations on Ch								2
Defective chimney		ilus ti		•	•	• •	•	ā
•	2	•	•	•	•	•	•	9
Defective stovepi	pe	•		•	•	•	•	5
Dump fires .	•						•	4
Electric car .								3
Electric wires								3
False alarms	•	•	•	•	•	Ť	•	46
	•		1- 21	•	•	•	•	70
Filling gas tanks	on au	tomo	biles	•			•	Э

Firecrackers .						. 2
Fire in Boston .		•			•	. 3
Fire in Cambridge						. 2
Fire in Medford						. 2
Grass fires		•				. 14
Hot ashes in wooden re	ecepta	acles	•			. 6
Incendiary			•			. 6
Smoke from Chimney			•			. 4
Smoking in bed .						. 4
Spark from forge		•				. 3
Spark from furnace		•				. 5
Spark from Locomotiv	е	•				. 4
Spark on roof .						. 5
Spontaneous Combusti	on			. "		. 5
Thawing water pipes						. 3
Unknown	•	•				. 4
Wood near stove.						. 2
Wires on trees and pol	es			•		. 2
						240

slstoT	$\begin{array}{c} 240 \\ 448 \\ 2,2554 \end{array}$	95,250 46,050	4,481	144	1,400	ಸರ	29	54
Ladder 3.	44 34 81	2,000					• •	2
Ladder 2.	96 2 170	• • • •	1,077	÷	:	:	• 1	C†
Ladder L.	100 21 119		2,169	23	:	•	01	<del></del>
Hose 8.	71 43 20134	7,000	126	∞ i	0).0	1	16	:
√ əsoH	95 53 197	7,500 6,250	:	14	1,000	:	•	ಯ
Hose 5.	8 4 8 2 8 8 8 2 8 8 8	15,650 $12,550$	140	41	1,875	೧೦	ശ	•
Hose 3.	96 51	7,250	:	• (	870	:	12	•
Engine 6.	$\frac{31}{76}$	14,600 $1,750$	24	23	989	:	13	• • •
Engine 4.	115 18 301					:	:	•
Engine 2.	121 52 204	21,200	:	15	:		2	•
Engine 1.	182 55 444	14,050 11,750	:	20	2,450	:	12	2
	Bell alarms responded to Still alarms responded to	Feet of 2½ in. hose used	Feet of ladders used	Chemical extinguishers used	Gallons of chemical used.	Times on duty at other stations	Times responded out of town	Rubber covers used

On February 2nd. the two-platoon system was inaugurated in compliance with the Act of the Legislature, Chapter 132 Acts of 1919, by the voters at the election November 2nd., this necessitated the addition of thirty men to the permanent force that the minimum efficiency may be maintained. During the year one (1) permanent man resigned, one was discharged, one (1) callman was advanced to the permanent force, one (1) resigned and two (2) placed on the pension roll. The membership of the department now consists of one-hundred and ten permanent men and five (5) callmen classified as follows,—

### Manual Force.

1 Chief Engineer,

1 Deputy Chief,
1 District Chief,

7 Captains,

- 1 Master Mechanic,
- 11 Lieutenants,

3 Enginemen,

85 Permanent men.

5 Callmen.

## Apparatus.

- 1 Second size, horse drawn steam fire engine. 1 Third size, horse drawn steam fire engine,
- 2 Horse drawn combination chemical and hose wagon,

1 Horse drawn hose wagon,

1 Horse drawn combination chemical and ladder truck,

1 Horse drawn ladder truck,1 Motor driven ladder truck,

4 Motor driven combination chemical and hose wagons,

1 Second size tractor drawn steam fire engine,

1 Motor driven 900 gallon pumping engine and hose wagon, 1 Motor driven 750 gallon pumping engine and chemical,

1 Motor driven supply and wrecking wagon,

1 Automobile, chief's car,

- 1 Automobile, deputy chief's car, 1 Automobile, district chief's car, 1 Automobile, Master Mechanic's car,

1 Horse drawn chief's buggy,

- 1 Horse drawn relief ladder truck,
- 3 Horse drawn exercising wagons,

1 Supply wagon.

### Horses.

There are nineteen (19) horses in the department, two (2) have died and two (2) have been purchased during the year. Six of the horses located at Engine No. 6 Station will be immediately disposed of inasmuch as this station has been fully motorized. No more horses will be purchased unless some unforeseen accident arises.

#### Hose.

The amount of serviceable hose is 8,850 feet of two and one half inch double jacket, rubber lined, cotton hose and 1,750 feet of three quarter inch chemical hose. There has been purchased 500 feet of two and one half inch hose, and 1,150 feet condemned. As stated in my previous reports, there should be at least 12,000 feet of two and one half inch hose in the department, at least 2,000 feet should be purchased this year.

## Brief Resume.

The average loss has been \$11,350, a month, being \$5,000 a month more than the previous year. The months of January and February totalled one half of the entire year's loss.

The following table gives the losses by months,—

January					\$37,838	69
February	•				29,365	00
March .					1,467	
April .			•		27,992	00
May .					12,981	00
June .					1,493	50
July .					1,163	50
August .	•				2,908	00
September					1,315	00
October					6,951	00
November					8,784	26,
December		•		•	3,970	00
					<b>\$1</b> 36,228	95

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

January 5, 7:35 A. M. Box 225, 37 Union Square, the Bacon Hall building owned by Herbert Jay; occupants involved, H. G. Applin and W. N. Casey; damage to building \$950. to contents \$76. the probable cause, steam pipe and rubbish.

January 5, 8:17 P. M. Box 443, a second alarm was sounded for this fire, 2 College Circle, commercial building owned by E. S. Sparrow, the occupants, Baker School Supply Co. and others, damage to building \$4,250. to contents \$5,835. Cause, spontaneous combustion.

January 7, 8:40 A. M. Box 337, Incinerator owned by the City of Somerville, occupied by D. DeStefano Co. damage to building \$2,500. to contents \$3,400. Cause, spark in waste paper.

January 15, 10:53 P. M. Box 225, 285 Washington Street, wood working mill owned and occupied by Davenport-Brown Company, damage to building \$200. to contents \$4,115.79 due to water damage from sprinkler system. Cause, spark falling into sawdust.

January 19, 11:38 A. M. Box 28, 33 Laurel Street, dwelling owned and occupied by Andrew McLaughlin, damage to building, \$3,800. to contents \$850. Cause, overheated heater.

January 22, 4:35 P. M. Box 15, a second alarm was sounded for this fire, 48 Washington Street, New England Vinegar Works owned and occupied by Arthur E. Rowse, damage to buildings \$2,281. to contents \$8,980.15. Cause, careless smoker.

February 1, 12:22 A. M. Apartments and store at 245-247 Highland Avenue owned by Thomas J. Conroy, occupants, L. M. Copeland et al. damage to building \$452.63; to contents, \$5.627. Cause, defective heater.

February 17, 10:55 P. M. Box 24, Columbia Street, Storage warehouse and stable owned by J. P. O'Neil, occupied by Consolidated Paper Bag Co., damage to building \$800, to contents \$5,000. Cause, careless smoker.

February 20, 8:12 P. M. Box 423, 233b Highland Avenue, stores and apartments owned by Mrs. Mary Reid, occupied by owner et. al. damage to building \$2,300. to contents \$440. Cause, lamp igniting draperies.

February 27, 7:36 A. M. Box 116, a second alarm was sounded for this fire, 106-118 Broadway, block of dwellings owned by Joseph Cohen and others; occupants Emanuel Horne et. al. damage to buildings \$7,927.70, to contents \$1,780. Cause. overheated stove.

April 1, 2:51 P. M. Box 225, a second alarm was sounded for this fire, 37 Union Square, Bacon Hall Building owned by Herbert Jay, occupied by Garhart Dental Specialties Co. and others; damage to building \$18,774. to contents \$6,418. Cause, defective chimney connection.

April 6, 8:09 P. M. Box 25-225, 6 Union Square, Storehouse and offices owned by Charles H. Brigham; occupied by Brydle Building Material Co. damage to building \$1,500. to contents \$2,800. Cause, careless smoker.

April 23, 8:50 P. M. Box 448-452, Elevated Railroad car park at Clarendon Hill, owned by B. E. Ry. Co. damage to cars and snow plow \$1,800. Cause, electric wires.

May 1, 3:32 P. M. Box 42, 29 Kent Street, Chemical &

Coloring Works owned and occupied by W. F. Beattie, damage to building \$2,000. to contents \$10,000. Cause, defective motor in boiler room.

August 10, 1:55 A. M. Box 42, 1 Beckwith Circle, Apartment house owned by Jacob Leventhal, occupants Daniel O'Keefe et. al. damage to building \$1,300. to contents no claim. Cause, overheated gas stove.

October 17, 10:13 P. M. Box 217, Cummings School building on School Street owned by the City of Somerville, damage to building and contents \$3,285. Cause, spontaneous combustion.

October 20, 7:09 A. M. Box 431, 44 Lexington Avenue, dwelling owned by E. O. Russell and occupied by owner and another, damage to building \$1,134. to contents \$251.40. Cause, hot ashes in wooden receptacle.

November 7, 8:00 A. M. Box 336, 140 Central Street, dwelling owned by Charles F. Maguire M. D. occupants George Simpson et. al. damage to building \$5,800. to contents \$1,600. Cause, cloths in hot water boiler closet.

December 19, 9:54 A. M. Box 431, 50 Lexington Avenue, dwelling owned by Charles E. Byrnes, occupied by owner and another, damage to building \$1,198. to contents \$276. Cause defective stove pipe.

December 29, 5:30 P. M. Box 446, 141 Orchard Street, dwelling owned by Henry S. Wilkins, occupants Carl C. Rideout et. al. damage to building \$1,435. to contents \$141. Probable cause, careless smoker.

False Alarms lead the list of all causes for calling out the apparatus, each year this class of alarms increases in number, some immediate steps should be taken to apprehend and prosecute this class of criminal offenders; the detailing of a man to follow up each case, as it occurs, would be profitable inasmuch as more than 75% of the damage to apparatus occurs when answering false alarms and this is not inconsiderable. Every self respecting citizen, having his community's interest at heart, should lend assistance in every possible way to gain and give information leading to the capture of the false alarm ringers, one never knows, when the department is responding to a useless alarm, how soon his own home and property needs that very apparatus to save his possessions from destruction.

Defective Chimneys and Connections, This class of fires can be eliminated entirely by the employment of a little time or money in having the chimneys cleaned each year. This character of fire is one of the hardest that the department has to cope with inasmuch as chimneys are invariably constructed

in or near the center of the building, inclosed in lath and plaster and timbers, thereby causing considerable damage to the interior walls and ceilings in their extinguishment.

Hot Ashes In Wooden Receptacles, Again hot ashes, in improper receptacles, come to the forefront as one of the useless causes of fire alarms, the small expense needed to procure proper metal barrels is insignificant when compared with the usual loss incident to fires caused by the use of wooden boxes or barrels; as I have urged in many previous reports, I again ask that an ordinance be passed prohibiting the use of anything other than metal receptacles.

Children Playing With Matches, Again fatalities have attended this class of fires; on March 20th, three small children, left alone in their home, got possession of matches left in a most favorable place for such purposes and set fire to their bedding and clothing resulting in most painful burns from which two of them died and the third maimed for life. Everything possible has been said by department chiefs, newspaper articles and fire prevention papers and notices to warn careless and negligent parents of this ever present danger, yet in our commadity alone we have been called, not counting the many times it has occurred without our knowledge or notice being given, twenty-eight times this past year. Daily we are being solicited to save the lives of innocent children the world over, here is the opportunity to also do some home missionary work.

### Recommendations.

During the year contract have been made to purchase motor apparatus to complete the motorization of six of the eight stations; on December 13th. an Auburn Roadster was put into service for the use of the district chief and on December 31st. a triple combination Seagraves pumper was assigned to Engine No. 6 Station; on or about February 1, 1921, a Seagraves city service truck will replace Ladder No. 3 at Engine 2 Station. There are but two stations wherein the equipment is not motorized and it is my recommendation that these two stations be given consideration the coming year; four more pieces will fully equip the department with motor apparatus.

Engine No. 4 Station, located at the corner of Highland Avenue and Grove Street, has been built forty-eight years, and is in such a condition and of such a type as to be totally unsuited for continued use as a fire station, more especially when

motor apparatus is installed. This is a most ideal location and the lot most suitable for the erection of an up-to-date station, I urge this matter be given serious consideration at the very earlest favorable moment.

### In Conclusion.

I wish to express my thanks to His Honor the Mayor and to the Board of Aldermen for their confidence and attitude i matters pertaining to the discipline and efficiency of the department.

I commend those officers and members whose loyalty and interest has made it possible for the department to maintain its usual standing and efficiency.

Respectfully submitted,

Sewall M. Rich,

Chief Engineer.

# REPORT OF THE CHIEF OF POLICE.

January 31, 1921.

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

Gentlemen; — I respectfully submit the annual report of the Somerville police department for the year ending December 31, 1920.

Α	r	r	e	s	t	s
---	---	---	---	---	---	---

Whole number With and with On summons	nout	warra	ants		•	•	•	994 643	1,637
Males . Females .		•	•	•				1,526 111	1,637
Americans Foreign Born		•	•		•	•		1,176 461	1,637
Residents Non-residents	: "				•	•		877 760	1,637
									1,637

# 1. — Crimes and Offenses Against the Person.

Assaults	•		•	2
Assault, indecent .	•			1
Assault with dangerous	weap	on .		3
Assault and battery	•			90
Assault and battery on	office	rs .		2
Intimidation of employe	es		•	3
Kidnapping				1
Manslaughter				1
Rape	•		•	1
Rape, attempt				2
Rape, accessory to.				2
Robbery	•			2
Threats	•			5
Throwing missiles .				3

# 2. — Crimes and Offenses Against Property.

Breaking and entering			•	42
Breaking and entering, attempt				1
Breaking and entering railroad can				1
Breaking and entering railroad can				2
Breaking glass				$2\overline{6}$
Concealment of leased property				1
Destroying electric lamps .				19
Destroying electric lamps, attempt	Ĭ		Ĭ	9
Injury to personal property .			•	3
Injury to railroad signal.	•	•	•	ĭ
Larceny	•	•	•	$12\overline{2}$
Larceny, attempt			•	7
· · · · · · · · · · · · · · · · · · ·			•	1
Larceny in building Larceny from person	•	•	•	1
Receiving stolen goods			•	17
	•	•	•	
Trespass	•	•.	•	101
Trespass, wilful	•	•	•	11
Unlawfully riding freight car.	٠	•,	•	$\frac{2}{2}$
		•	•	3
Unlawfully using registered bottles	٠	•	•	15

# 3. — Crimes and Offenses Against Public Order, Etc.

388

Absent without leave from United	States	Army	2
Adultery			4
Bastardy			15
·Capias			5
Carrying firearms without licence			4
Contempt of court			5
Cruelty to animals			5
Default	•		18
Deserters from United States Army			2
Deserters from United States Navy	7.		2
Desertion of wife			1
Disturbing public assembly .			1
Disorderly house, keeping .			2
Disturbing the peace			4
Dog keeping, unlicensed			1
Drunkenness			270
Drunkenness, common			2
Fornication			3
Fugitives from justice	•		<b>3</b> 3
Giving false alarms of fire .			3
Idle and disorderly			8
Indecent exposure of person .	•		2
Lewdness	•		9
Lewd cohabitation	•		8
Lewd and lascivious			2
Lottery, promoting	•		4
Neglected children	•	• • •	9
Neglect to support	•	•	56
Peddling, unlicensed			1
Polygamy			1
Safe keeping, contempt of court			1

	ı
Safe keeping, demented	. 15
Safe keeping, escape from Industrial School	
Safe keeping, escaped insane inmates :	. 2
Safe keeping, escaped from Lyman School	. 1
Safe keeping, escaped from Middlesex Count	У
training School	. 1
Safe keeping, infirm	. 2
Safe keeping, insane Safe keeping, feeble minded Safe keeping, prisoners for out of town officer	. 5
Safe keeping, feeble minded	3.
Safe keeping, prisoners for out of town officer	's <b>2</b>
Safe keeping, runaway children	. 19
Safe keeping, State ward	. 1
Safe keeping, State ward Stubbornness	. 10
Suspicious person	. 1
Straggler from United States Navy .	. 1
Unlawfully having shot gun	. 1
Vagrants	. 3
Violation of city ordinances	. 74
Violation of health regulations	. 5
Violation of labor laws	. 20
Violation of liquor laws	. 17
Violation of Lord's Day	. 64
Violation of milk laws	. 21
Violation of motor vehicle laws	. 349
Violation of motor vehicle laws Violation of parole	2
Violation of pool room laws Violation of terms of probation	. 2
Violation of terms of probation	. 20
Violation of school laws	. 25
Violation of weights and measure laws.	. 11
Violation of weights and measure laws.	
	1,131
	1,101.
Recapitulation.	
(1) Crimes and Offenses Against the Perso	n 118
(2) Crimes and Offenses Against Property	
(3) Crimes and Offenses Against Public Offenses Agains	
3. 4.	. 1,131
der, etc	. 1,101
Total number of arrests made	. 1,637
Bailed to appear at other courts	. 14
Cases in which nolle prosequi was entered	· — —
Contempt of court	. 43
Defaulted	. 5
Delivered to Jail, Superior Court, bail surrende	. 15
capias, etc	. 6
Delivered to police court, violation of proba	
tion, etc	23
Released by probation officer, drunkenness, etc.	
Surrendered to other officers, institutions, etc.	. 96
Dismissed by court	1
Pending cases	1 2
	2

 $\operatorname{NOTE},$  — Three hundred and seventy-eight of the above number of cases were juveniles and delinquents.

# Miscellaneous Reports.

	d automobile			•	•	•	•	38
Abandone	d motorcycle	•	•			•		1
Accidents	reported .		•		•			554
Accidenta	l shooting							1
	of property s	tolen						\$35,172 10
	of stolen prop		· onwara	à	•	•	•	24,494 17
			COACIC	u	•	•	•	
	f property d		•	•	•	•	•	176 70
	f property lo		•	•	•	•	•	1,674 10
	of property for	ound	•	•	•	•	•	277 68
Assaults								11
Assault a	nd battery .							7
Attempts	to break and	l enter						67
	to commit 1		·	•	•	Ť	Ť	13
	to commit s		•	•	•	•	•	6
		uicide	•	•	•	•	•	
Attempts		•	. •	•	•	•	•	3
	and entering				•	•	•	2
Broken ra	il, Boston E	levated	Railw	ay				1
Buildings	broken and	entered,	nothin	ng sto	olen			53
Building of								1
	dangerous fi		w and	ice	•	•	·	3
		om sho	w and	100	•		•	363
	found open		•	•	•	•	•	
	false alarms	oi.	•	•	•	•	•	5
Cats kille	d			· 37	•	•		2
Cellar flo	oded		•				•	1
Cruelty to	animals.							3
	nals found.							13
Defective		•	•	•	•	•	•	$\frac{10}{12}$
Defective		•	•	•	•	•	•	
"	building .	•	•	•	•	•	•	, 1
	catch basins		•	•	•	•	•	54
"	chimney .				•	•		1
"	coal hole.						•	1
46	curb stone							1
46	drinking fou	intains						4
66	electric lam		•	•	•	•	•	- 4
"			•	•	•	•	•	1
66	electric light	SWILCH	•	•	•	•	•	
	fences .		•	•	•	•	•	8
66	fences, light	ed .		•		•	•	2
"	gas gate box	ces .						2
66	hydrants .							12
46	man holes a	nd cove	rs	_				5 .
44	poles .	na covo	- ~	•	•	•		4
46	_	gomriao	•	•	•	•	•	15
46	police signal	service	•	•	•	•	•	1,0
	sewers .	•	•	•	•	•	•	4
46	sidewalks.	•	•	•	•	•	•	384
"	sidewalk, lig	ghted						\ 1
46	signs and sig	gn posts					•	90
46	stand pipe							. 1
44	streets .							116
. "	street, light	Ne						1
46		ou .	•	•	•	•	•	3
	tree guards	•,	•	•	•	•	•	
	voting list h		•	•	•	•	•	1
44	water gate	boxes		•	•	•	•	21
"	wires .	•					•	<b>6</b> 0
Demented	person .							1
Disturbance								28
	ces suppress	hed						3
Distui Dall	oca suppressi		•		•	•		

CHIEF OF POLICE.	369
CITIES OF TODICE.	90.7
Dogs killed	26
Dogs reported mad	2
Dogs vicious	5
Electric lamps broken	12
Feeble minded boy cared for	1
Fire, alarms given for	4
Fire, danger of	. 1
Fires extinguished without alarm	3
Fire, false alarms of	35
Fire, needless alarm for	1
Fires reported	170
Gaming	1
Gas leaks	7
Gas poisoning	1
Houses unoccupied	44
Indecent exposure of person	8
Larcenies, no value given	132
Larcenies	423
Lost children	310
Lost children, found	310
Malicious mischief	26
Missing persons	74
Missing persons, found	- 28
Murder	1
Neglected children	1
Obstructions on railway	2 7
Obstructions on sidewalks lighted	$\frac{i}{2}$
Obstructions on sidewalks, lighted	
" in streets	31
Panes of glass broken	127
Permits to labor on the Lord's Day	83
Persons bitten by dogs	9
Person helped home	1
Person shot	1
Pole dangerous	1
Property damaged and destroyed	76
Property lost, no value given	69
Property found, no value given	86
Rescued persons from fire	3
Robberies	8
Robbery, attempt	1
Runaway children	29
Runaway children, found	29
Runaway horses	9
Runaway horses, stopped	4
Runaway team	1
Runaway team stopped	1
Sidewalks dangerous from snow and ice	204
Steps dangerous	2
Steps dangerous from snow and ice	2
Stray bullets fired	2
Stray cats	r
Stray cows found	9

Stray cats
Stray cows found
Stray dogs
Stray dogs found
Stray horses
Stray horses found
.

Stray teams	
Stray teams found	6
~	10
Streets dangerous from snow and ice	34
Street lights reported	4,179
Streets and sidewalks flooded	27
Strike	1
Subways, flooded	2
Sudden deaths	10
Suicides	6
Summonses served for witnesses and defendants to	
appear in court at other places	623
Suspicious persons	107
Threats	3
Trees, dangerous	36
Trees, dangerous	29
Trespass, Willul	26
Unlawful appropriation of horses	2
Unlocked United States mail box	1
Violation of Board of Health regulations	11
Violation of city ordinances	156
Violation of Lord's Day	1
Violation of motor vehicle laws	17
Walking on railroad track	1.
Water pipes, leaking	115
Windows broken	42
Motor Vehicle Report	
Motor Vehicle Report.	
	all trans-
An officer was detailed to investigate, card index and file	all trans-
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.	all trans-
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported. Number of licenses granted by License Commission for the	all trans-
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.	
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	G
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 <b>4</b> 2
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	G
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 42 9
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 <b>4</b> 2
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 42 9
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An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 42 9 57
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	57 3,175
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	6 42 9 57
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	57 3,175
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	3,175 1,114
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	3,175 1,114 5,947
An officer was detailed to investigate, card index and file fers of motor vehicles and stolen ones reported.  Number of licenses granted by License Commission for the sale and transfer of automobiles and motorcycles.  First class	3,175 1,114

## OFFICIAL ROSTER OF DEPARTMENT.

# Chief of Police.

Charles A. Kendall.

# Captain.

Eugene A. Carter.

### Lieutenants.

Charles E. Woodman

James M. Harmon

John A. Ray.

Inspectors.

Thomas Damery

Michael T. Kennedy

Sergeants.

William G. Kenney Frank H. Graves James M. Lynch

Ernest Howard Robert T. Blair Thomas P. Walsh

39 — Walter C. Oesting

#### Patrolmen.

1 - Edward M. Carter 2 — Francis A. Perkins 3 — Theodore E. Heron 4 — Daniel G. Simons 5 — Samuel Burns 6 — John A. Dadmun 7 — George L. Rice 8 — Myron S. Gott 9 — Charles W. Reick 10 - Frank C. Hopkins 11 — Hudson M. Howe 12 — Sanford S. Lewis 13 — Henry A. Sudbey 14 — Thomas F. McNamara 15 — Louis F. Arnold 16 — Charles S. Johnston 17 — Claude L. Crossman 18 - John J. Cummings 19 — Edmund J. Keane 20 — Denis Neylon 21 - Denis Downey 22 — Edward M. Davies 23 — George A. C. Peters 24 — Louis J. Belzarini 25 — Walter Reed 26 — Dennis G. Mulqueeney 27 — Patrick J. Doolin

28 — Edward J. Hopkins 29 - Walter L. Groves 30 — Frederick G. Jones 31 — Joseph A. Dwyer 32 — Augustine J. Fitzpatrick 33 — Patrick McGrath 34 — Bernard McCabe 35 — Harry C. Young 36 — Robert D. Dewar 37 — Peter Moore 38 — Albert C. Hawes

40 - John L. Cameron 41 — Francis P. Higgins 42 - John J. McCahey 43 — Alexander Morrison 44 — Daniel J. Powers 45 — Jeremiah O'Connor 46 — Charles E. Wilson 47 — William J. Warner 48 — Timothy Buckley 49 - John J. Killourhy 50 — Charles J. Sharry 51 — Thomas M. Sharry 52 — Michael J. O'Loughlin 53 — Charles W. Shepherd 54 — John F. Cruise 55 — John J. Shay 56 — Edward G. Butman 57 - John P. L. O'Keefe 58 — Alfred E. Robitaille 59 — Allan S. Burns 60 — William H. Donovan 61 — George R. Allan 62 — Jeremiah Keniry 63 — James Murray 64 — Charles J. Fulton 65 — Edward F. Culliton 66 — Alfred J. McFadden 67 — James A. Fitzpatrick 68 — Elmer E. G. Raymond 69 - Frank J. Roche 70 — Augustine F. Sharry 71 — Daniel M. O'Connell 72 — Chester C. F. Warner 73 - George D. MacDonald 74 — Charles F. Lacey 75 — William E. Dwyer

76 — Charles H. McAvoy

#### Reservemen.

77 — James F. Holmes

80 — Patrick J. Lyons 81 — Alfred S. Macomber

78 — Earle W. Elliott

79 — Michael J. Dowd, Jr.

### Chauffeurs and Patrol Drivers.

James W. Lundergan

James H. White

John H. McKenzie.

### Matron.

Mrs. Mina T. Weeks.

### Assistant Matron.

Mrs. Katherine Woods.

# Pensioners, Retired On Half Pay.

John E. Fuller,	Mar. 23, 1906	Frederick H. Googins,	Mar.	12,	1915
Ira S. Carleton,	May 9, 1907	Robert R. Perry,	Apr.	14,	1916
James J. Pollard	Feb. 27, 1908	Jacob W. Skinner,	Dec.	31,	1917
Melville C. Parkhurst,	Oct. 31, 1909	Elmer E. Drew,	July	25,	1918
Herbert Hilton,	Dec. 21, 1911	Ernest S. Goff,	July	11,	1919
Ezra A. Dodge,	Mar. 14, 1914	Charles W. Allen,	Mar.	26,	1920
George H. Carleton,	Mar. 27, 1914	Jotham Chisholm,	Apr.	23.	1920

### CHANGES IN FORCE.

### Appointments.

James F. Holmes, appointed, reserveman, Apr. 22, 1920. Earle W. Elliott, appointed, reserveman, Apr. 12, 1920. Michael J. Dowd, Jr., appointed, reserveman, Apr. 10, 1920. Patrick J. Lyons, appointed, reserveman, Apr. 10, 1920. Alfred S. Macomber, appointed, reserveman, Apr. 10, 1920.

#### Promotions.

Reserveman, Daniel M. O'Connell, promoted to patrolman, Jan. 10, 1920. Reserveman, Chester C. F. Warner, promoted to patrolman, Jan. 10, 1920. Reserveman, George D. MacDonald, promoted to patrolman, Jan. 10, 1920. Reserveman, Charles F. Lacey, promoted to patrolman, Apr. 10, 1920. Reserveman, William E. Dwyer, promoted to patrolman, Apr. 10, 1920. Reserveman, Charles H. McAvoy, promoted to patrolman, Apr. 10, 1920.

### Retirements.

Patrolman, Charles W. Allen, placed on pension roll, Mar. 26, 1920. Patrolman, Charles W. Stevens, placed on pension roll, Mar. 29, 1920. Patrolman, Jotham Chisholm, placed on pension roll, Apr. 23, 1920.

### Deaths.

Retired patrolman, Charles W. Stevens, died May 31, 1920. Patrolman, George L. Smith, died Sept. 27, 1920.

# Police Signal Service.

. ones orginar convers	
Number of on duty calls made by the patrolmen Telephone calls made by the officers and patrolmen	263,467 <b>44,1</b> 51
"White" Combination Automobile Service.	
Number of runs made in conveying prisoners to station Number of prisoners conveyed Number of sick and injured conveyed Number of miles run in conveying prisoners to station	15. 17 15.
	975 0
Total number of miles run during the year	375.0
"Reo" Combination Automobile Service.	
Number of runs made in conveying prisoners to station.  Number of prisoners conveyed	378- 465 363-
Total number of miles run during the year	2,985.1
Touring Car Reports.	
Number of prisoners conveyed to station  Number of sick and injured conveyed  Number of prisoners conveyed to and from jail  Horse Drawn Patrol Wagon, Ambulance and Pung Roumber of runs made in conveying prisoners to station Number of prisoners conveyed  Number of miles run in conveying prisoners to station Number of sick and injured conveyed  Number of miscellaneous runs	7 6 4 eports. 13 21 25 285 7

### REPORT OF POLICE MATRON.

January 31, 1921.

To Charles A. Kendall, Chief of Police.

Dear Sir:—

I herewith submit my report as matron for the year ending December 31, 1920. The following females and minors were committed to my care, charged with the following offenses, etc.

Accessory before the	fact,	rap	е.					1
Adultery								3
Assault and battery	•					•	•	7
Breaking glass.								3
Demented .								6
Default warrants	•		•					7
Disturbing the peace								2
Drunkenness .								12
Failure to grant righ	t of	way	· .					1
Failing to stop auton	aobile	e aft	er cai	ising	injury	7		1
Fornication .					•		•	1
Idle and disorderly								6
Injury to personal	prope	erty						1
Insane	•							1
Keeping disorderly he	ouse							1
Keeping intoxicating	liqu	ors						1
Larceny								7
Lewd and lascivious	coha	bita	tion					5
Lewdness .	•						•	3
Lost children .								<b>5</b> 3
Neglected children								5
Not stopping automo	bile	on	signal					1
Received stolen prop	erty							3
Runaways .		•			•		•	3
Safe keeping .								3
Stubbornness .								2
Threats								2
Trespass	. 0							9
Vagrancy .	•							1
Violation of board of	f hea	lth	rules			.1		1
Violation, city ordina	ınce							1
Violation of parole						•		1
Violation of probation	n							1
Violation of school la	aws							3
Total		. ,						158

I have reported at police station each morning and attended sessions of the juvenile court looking after minors who have been in court.

Respectfully submitted,
MRS. MINA T. WEEKS,
Matron.

### Conclusion.

To His Honor the Mayor, Charles W. Eldridge for his continued fairness and sound judgment on all matters concerning this department, members of the board of aldermen, court officials, heads of other city departments for their co-operation, press representatives, and to members of this department for their fidelity to duty, my most sincere thanks are due,

Respectfully submitted,

CHARLES A. KENDALL,

Chief of Police.

# REPORT OF THE CITY CLERK.

Office of the City Clerk, January 1, 1921.

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

Gentlemen: — The following is respectfully submitted as the forty-ninth annual report of the City Clerk of the City of Somerville, and is for the year ending December 31, 1920.

The receipts and payments were as follows:-

# Receipts.

Balance from year 1919, being for dog censes issued in December, 1919:					
5 males at \$2.00		\$10	0.0		
1 female at \$5.00	•	5			
1 spayed at \$2.00			00		
- 12 to 100 ft - 100					
		\$17	00		
Less city clerk's fees paid to the ci	ty				
treasurer, 7 at \$ .20		1	40		
				\$15	60
For dog licenses issued in 1920:—					
631 males at \$2.00		\$1,262	0.0		
156 females at \$5.00		780			
86 spayed at \$2.00		172			
3 kennel at \$25.00		75			
· ·				2,289	00
For hunting and fishing licenses issue in 1920:—	ed				
396 resident hunters at \$1.00 .		\$396	00		
3 alien hunters at \$15.00 .		45	00		
251 resident fishermen at \$ .50.		125	50		
3 alien fishermen at \$1.00 .		3	00		
2 non-resident fishermen at \$1.00		2	00		
				571	50
Recording mortgages, assignments, etc	3.,				
941 papers		\$914	60		
Certificates of marriage intentions, —					
1292 licenses and 2 duplicates at \$1.00		1,294			
Furnishing copies of records		273	55		

Licenses: —		~ 1	0.0
Auctioneers, 27 licenses at \$2.00.	•	54	00
Billiard and pool tables and bowling a leys: —	al-		
28 licenses for 95 ta- bles and 70 alleys, including 2 tables			
granted in 1919, at \$2.00 \$330 ( 1 license for 2 tables	00		
granted in 1920 and paid in 1919 at \$2.00 4	00	326	00
· Drain layers, 3 licenses at \$1.00 .		3	00
Engines and motors,—  35 licenses for 62 motors, 4 boilers and 1			
portable gas engine at \$1.00 \$35 ( 2 licenses for 3 mo-	00	,	
tors, paid in 1919 . 2 (	00	33	00
Garages,  249 licenses, including 6 granted in 1919, at \$2.00 \$498 ( 6 licenses paid in	00		
1919 12 (	00	492	00
Gasoline tanks, — 29 licenses at \$1.00		29	00
Hackney carriages, — 11 licenses a \$1.00	•	11	00
Innholders and common victuallers, 3 victuallers' licenses, including granted in 1919 at \$2.00.		6	00
Intelligence offices, — 2 licenses \$2.00	at	4	00
Junk and second hand licenses, — 22 licenses, including			
2 granted in 1919, at \$25.00 \$550 ( 43 licenses, including	00		
2 granted in 1919, at 10.00	00	980	00

Lord's day, sale of ice cream, confectionery, soda water and fruit, on,—			
96 licenses, including 1 granted in	400		
. 1919, at \$5.00	480	00	
Second hand motor vehicles, — 26 licences, including 8 granted in 1919,			
at \$10.00	260	00	
Street Musicians, — 5 licenses for 5 per-			
sons at \$ .50	2	50	
including 1 granted in 1919, at \$1.00	107		
Wagon stands, — 6 licenses at \$1.00.	6	00	
Permits for projections over sidewalks,— 28 permits, for 4 awnings, 18 signs, 2 swing arms, 1 post and sign, 1 post			
and clock and 2 barber poles, including 4 permits granted in 1919, at \$1	28	00	1
Filing certificates, under Acts of 1908,			
Chap. 502, — 2 at \$ .50		00	
Interest on deposits	7	45	
Notices of hearings (public service corporations)	12	91	
Repairing and sale of junk badges	7	50	
Sale of old ballots	42	60	
Sale of stationery and postage	5	46	
Witness fees		60	
Optometrists' registration, 6 at \$ .50 .	3	00	
Physicians' registration, 5 at \$ .25	1	25	5,392 42
Total receipts			\$8,268 52
Payments.			
To Joseph O. Hayden, county treasurer, June 1 and December 1, recepits for dog licenses from December 1, 1919 to November 30, 1920, both inclusive:—			
626 males at \$2.00	<b>\$1,252</b>		
157 females at \$5.00	785 170		
3 kennel at \$25.00	75		
	\$2,282	00	
Less city clerk's fees, 871 at \$ .20 .	174		\$2,107 80
			φ2,101 00

To the Commissioners on Fisheries and Game, for licenses for hunting and fish- ing in 1920,—		
396 resident hunters at \$1.00 3 alien hunters at \$15.00	\$396 00 45 00 125 50 3 00 2 00	
	\$571 50	
Less city clerk's fees, 655 at \$ .15	98 25	473 25
To the city treasurer, monthly: —		
City clerk's fees for issuing and recording dog licenses, 876 at \$ .20 .  City clerk's fees for issuing and record-	<b>\$17</b> 5 20	
ing fishing and hunting licenses, 655 at \$ .15	98 25	
All the receipts above specified, except for dog licenses and fishing and hunting licenses	5,392 42	5,665 87
Total payments		\$8,246 92
Balance, January 1, 1921, being for dog licenses issued in December, 1920: —		
10 males at \$2.00 . \$20 00 2 spayed at \$2.00 . 4 00	\$24 00	
Less city clerk's fees paid to the city treasurer, 12 at \$ .20	2 40	
		\$21 60

The decrease from previous years in amounts received as fees for licenses as innholders and common victuallers, to keep open places of business on the Lord's Day for sale of ice cream, confectionery, soda water and fruit, and as dealers in second-hand motor vehicles, is due to the change in June of the municipal board having control of such licenses.

At the city election in 1919 it was voted to authorize the granting of licenses for the sale of intoxicating liquor. Because of such vote and in accordance with the provisions of law, a licensing board was appointed. This board has the power of granting the various classes of licenses above referred to and collects the fees therefor.

#### Licenses and Permits.

Besides the licenses mentioned in the foregoing list of receipts, licenses and permits have been granted by the Board of Aldermen, without charge, as follows:—

Children under fifteen to take part in entertainments	8
Newsboys	7
To give band concerts (one permit for three con-	
certs)	1
To hold political meetings in streets and squares .	3
To hold religious services in streets and squares .	1
To install branch single track railway across street.	1
To locate World War memorial tablet in square.	1
To move buildings through streets	3
To parade in streets, with music, etc	2
To suspend wire across street	1

### Births.

#### 1920.

Number of births reported by physicians and midwives for 1920.

Males .				•	1152
Females					1003

A canvass of the city is at present being made under the direction of the city clerk as required by section 5, chapter 29, of the Revised Laws, to ascertain the facts required for record relative to children born during the year.

As the information derived from such canvass will not be available in time sufficient for its incorporation in this report, a statement in full of the births of 1919 will be given in the city clerk's report for the year 1921.

#### 1919.

The following is a statement in full of the births for 1919.

Number o	f bir	ths	(exclu	sive	of still	bir	ths)	in	Somerville	
in 191	9 reg	iste	red							<b>1</b> 889
Less than	prev	ious	year		•					92
Males					•				. 935	
Females			•					Α.	954	
										1889

Born of American parents. Born of foreign parents. Born of American father and Born of foreign father and Born of American mother an nationality. Born of foreign mother and	nd fore America nd fathe	ign an m er of	mother other unknov	vn		745 741 185 209	
nationality	•		•	•		1	1000
Normalian of satill bindles in C	7		1010	- ~			1889
Number of still-births in S registered .							53
Number of births in other pl	aces in	1919	registe	red			531
							2473
Number of cases of twins .				•			31
	Marr	iages	•				
Number of intention certification	ates iss	ued :	in 1920				1292
More than previous year.	•	•					66
	•	•	•	•			1352
More than previous year . Both parties American .	•	•	•	•	847		125
Both parties foreign .	1	•	•		215		
American groom and foreign	bride	i.			131		
Foreign groom and America					159		
					—	1352	couples
First marriage of					2357		
Second marriage of	•	•		6	330		
Third marriage of	•	•	•		15		
Fourth marriage of	•	•	•		2	1050	1
						1352	couples
	D						
(Exclu	Dear give of		l_hirthe	`			
				• )			
Number of deaths in Some	rville ii	n 192	20 .				1137
Less than previous year .	•	/ .	•	•		~~~	63
Males	•	•	•	٠		526	
remaies	•	•	•	•		611	1137
Under ten years of age .						238	1191
10 and under 20 years of ag	e .	•	•	•		29	
20 and under 30 years of ag	ė .					53	
30 and under 40 years of ag	е.					60	
40 and under 50 years of ag	е.		•			82	
50 and under 60 years of ag	е.					161	
60 and under 70 years of ag	е .	•	•			163	
70 and under 80 years of ag	е.	•	•	•		215	
80 and under 90 years of ag	е.	•	•	•		118	
90 years of age and over .	•	•	•	•		18	4405
Age of oldest person decease	d		95 yea	ra			1137
Born in Somerville	u .	•	oo yea	15		237	
Born in other places in the	United	State	es .	•		490	
Of foreign birth						408	
Birthplace unknown						2	
					-		1137

Number	of	deaths	in	January			121	
Number	of	deaths	in	February			198	
Number	of	deaths	in	March			104	
Number	of	deaths	in	April.			80	
				May .			90	
Number	of	deaths	in	June .			61	
Number	of	deaths	in	July .		•	78	
Number	of	deaths	in	August			64	
Number	of	deaths	in	September			70	
Number	of	deaths	in	October			81	
Number	of	deaths	in	November			95	
Number	of	deaths	in	December			95	

The number of still-births during the year was sixty-five. In addition to the above 260 deaths which occurred elsewhere were recorded in Somerville, almost the entire number of persons deceased having been residents of this city.

1137

# ASSESSED POLLS AND REGISTERED VOTERS.

				<del></del>	<u>-</u>			REGIST	ered V	OTERS.			
WARI	)	Per.		Assessed Polls, April 1, 1920	Dec. 3, 1919 Men	Dec. 3, 1919 Women	Re- vised Lists of July 24, 1920 Men	Re- vised Lists of July 24, 1920 Women	Added in Aug. Sept. & Oct. 1920 Men	Add- ed in Aug. Sept. & Oct. 1920 Women	Oet. 13, 1920 Men	Oct. 13, 1920 Women	Voted Nov. 2, 1920
Ward	1 1 1 1	Pet.	1 2 3 4	1,580 1,103 563 603	750 552 279 224	53 35 31 46	682 501 265 200	47 30 29 43	114 99 24 10	391 294 132 61	796 600 289 210	438 324 161 104	1,072 795 372 260
				3,849	1,805	165	1.648	149	_ 247	878	1,895	1,027	2,499
Ward	$\frac{2}{2}$	Pet.	1 2 3	961 1,762 742	384 806 377	5 11 5	346 738 340	10 4	33 126 36	150 455 186	379 864 376	154 465 190	454 1,121 459
				3,465	1,567	21	1,424	18	195	791	1,619	809	2,034
Ward	3	Peţ.	1 2	1,398 1,289	907 749	119 111	842 722	106 101	94 89	617 523	936 811	723 624	1,471 1,275
				2,687	1,656	230	1,564	207	183	1,140	1,747	1,347	2,746
Ward	44	Pet.	$\frac{1}{2}$	1,433 1,375	778 712	53 88	708 671	48 87	135 122	. 539 482	843 793	587 569	1,263 1,212
				2,808	1,490	141	1,379	135	257	1,021	1,636	1,156	2,475
Ward	5 5 5	Pet.	1 2 3	1,521 1,164 997	818 688 600	181 123 160	777 652 566	163 104 137	169 109 82	667 446 312	946 761 648	830 550 449	1,636 1,180 953
				3,682	2,106	464	1,995	404	360	1,425	2,355	1,829	3,769
Ward	6 6 6	Pet.	$\begin{array}{c}1\\2\\3\\4\end{array}$	1,144 1,336 987 1,298	1,005 820 805	223 63 65	588 614 496 762	166 75 37 62	85 120 115 148	356 361 443 542	673 734 611 910	522 436 480 604	1,040 1,001 1,006 1,383
				4,765	2,630	351	2,460	340	468	1,702	2,928	2,042	4,430
Ward 	7 7 7 7 7	Pet.	1 2 3 4 5	1,131 1,375 1,561 1,116 830	773 742 892 680 469	49 70 62 43 30	727 715 816 628 424	43 64 53 32 27	114 152 160 127 164	543 601 629 530 368	841 867 976 755 588	586 665 682 562 395	1,339 1,435 1,510 1,227 915
				6,013	3,556	254	3,310	219	717	2,671	4,027	2,890	6,426
City			]	27,269	14,810	1,626	13,780	1,472	2,427	9,628 .	16,207	11,100	24,379

# ELECTIONS.

The following is a statement of the votes cast, in the several wards of the city, for the candidates for the various offices, and on various questions, at the state election held November 2, 1920.

CANDIDATE. PARTY.			7,	VARDS.			2	
CANDIDATE. TAKIT.	1	2	3	4	5	6	7	Total.
PRESIDENTIAL ELECTORS.								
Marcus A. Coolidge, et als. Democratic	731	1147	800	436	862	1000	1137	6113
Peter O'Rourke, et als. Socialist Labor	8	8	8	6	12	11	15	68
John J. McEttrick, et als. Socialist	53	69	41	53	75	96	110	497
Charles Sumner Bird et als. Republican								
Blank	1638 69	730 80	1861 36	1946 34	2754 66	3221 102	5096 68	17246 455
GOVERNOR.								
Channing H. Cox Republican Walter S. Hutchins Socialist	1515 24	555 25	1815 25	1899 27	$\frac{2688}{47}$	3228 59	5280 62	16980 269
Patrick Mulligan Socialist Labor John J. Walsh Democratic	12 822	$\frac{21}{1248}$	40 757	$\begin{array}{c} 6 \\ 452 \end{array}$	18 906	19 982	21 870	137 6037
Blank	126	185	109	91	110	142	193	956-
LIEUTENANT GOVERNOR.								
Marcus A. Coolidge Democratic David Craig Socialist Labor	627 11	941 11	610	362 8	660 17	762 14	717 48	4679 117
Alvin T. Fuller Republican Thomas Nicholson Socialist	1459 15	737 19	1594 17	1654 26	2322 45	$28\overline{50} \\ 49$	4368 53	14984 224
Robert M. Washburn Independent Guy A. Ham	221	85	367	300	552	564 1	982	3071
Blank	166	241	150	125	173	190	258	1303
SECRETARY.								-
Frederic W. Cook Republican	1722 531	848 833	2055 496	1985 303	2959 563	3451 654	5542	18562 3911
Edward E. Ginsburg Democratic Anthony Houtenbrink Socialist Labor	19 30	10 30	8 30	$\begin{array}{c} 7 \\ 26 \end{array}$	12 46	14 75	21 77	91
Edith M. Williams Socialist Blank	197	313	157	154	189	236	255	1501
TREASURER.								
Cooper II Is always		i					110	
James Jackson Republican	48 1448	52 457	63 1752	1818	2560	90 3121	119 5162	16318
Patrick O'Hearn Democratic Albert L. Waterman Socialist Labor	763	28 1204	23 759	26 444	53 918	56 939	56 808	284 5835
Blank Water man Socialist Labor	12 186	$\frac{12}{281}$	129 129	8 135	12 171	20 204	27 254	111 1360
AUDITOR.								
Alonzo B. Cook Republican Alice E. Cram Democratic	1498	551	1757	1837	2648	3159 934	5174 854	16624 5641
Stephen J. Surridge Socialist Labor Herbert H. Thompson Socialist	$ \begin{array}{c c} 722 \\ 19 \\ 28 \end{array} $	1093 9 35	748 16 18	448 9 29	842 12 41	14 70	25 57	104 278
Blank	232	346	207	152	226	253	316	1732

CANDIDATE. PARTY.				WARDS	· .			
	1	2	3	4	5	6	7	Total.
ATTORNEY GENERAL								
J. Weston Allen Republican Morris I. Becker Socialist Labor John Weaver Sherman	1483 13	513 9	1780	1852 5	2609 12	3155 17	5236 23	16628 86
Socialist Michael L. Sullivan Democratic Blank	34 755 214	40 1180 292	29 742 188	32 441 145	52 890 206	76 921 261	77 786 304	340 5715 1610
CONGRESSMAN, 9TH DISTRICT								
Maurice F. Ahearn Democratic Charles L. Underhill Republican	891 1427	1364 455	961 1635	554 1773	1083 2477	1131 3049	1055 5003	7039 15819
Joseph H. Soper Blank	181	215	150	148	209	249	368	1 1520
COUNCILLOR, FOURTH DISTRICT			•					
John C. F. Slayton Republican Joseph F. Cotter	1656	769	1969	1983	2850	3383 <b>1</b>	5449	18059
Blank	843	1265	777	492	919	1046	977	6319
SENATOR, THIRD MIDDLESEX DISTRICT								
Charles M. Austin Republican John M. Webster Arthur D. Healey M. J. Diggins	1717	799	1995 1 2 1	2020	2958 2	3430 9	5481	18400 1 13 13
Blank	782	1235	747	455	809	991	945	5964
REPRESENTATIVES, 23RD DISTRICT (3)								
William J. Bell Republican Harvey E. Frost Republican Patrick Henry Ryan Walter H. Snow Republican Blank	1548 1541 575 1429 2404		1855 1838 491 1748 2306	1939 1820 387 1752 1527	2865 2631 836 2538 2437			8207 7830 2289 7467 8674
REPRESENTATIVES, 24TH DISTRICT (3),			3					
E. Agnes Blood Warren C. Daggett Peter F. Donnelly Wilbur F. Lewis John M. Woods Blank			1231 669 1088 409 582 2123			1132 3068 894 2800 3004 2392	1128 4942 771 4805 4765 2867	3491 8679 2753 8014 8351 7382
COUNTY COMMISSIONERS, MIDDLESEX COUNTY								
Alfred L. Cutting Republican Walter C. Wardwell Republican Joseph Vigilanti Blank	1593 1576 1829	682 790 2596	1858 1932 1702	1883 1861 1206	2765 2770 2003	3196 3243 1 2420	5113 5164 2575	17090 1 <b>7336</b> 1 14331

CANDIDATE PARTY		tion of the second	,	WARDS		,		Total
CAMPIDATE TARIT	1	2	3	4	5	6	7	
SHERIFF  John R. Fairbairn Republican James J. Murphy Blank	1615 884	898 1136	1889 1 856	1853	2740 1029	3237 1193	5193 1233	17425 1 6953
SHALL AN ACT ENTITLED "AN ACT TO REGULATE THE MANUFACTURE AND SALE OF BEER, CIDAR AND LIGHT WINES," AND IN WHICH IT IS PROVIDED THAT ALL BEVER- AGES CONTAINING NOT LESS THAN ONE HALF OF ONE PER CENT AND NOT MORE THAN TWO AND THREE FOURTHS PER CENT OF ALCOHOL BY WEIGHT AT SIXTY DEGREES FAHRENHEIT SHALL BE DEEMED NOT TO BE INTOXI- CATING LIQUOR, WHICH ACT PASSED THE HOUSE OF REP- RESENTATIVES BY A VOTE OF 121 IN FAVOR AND 67 AGAINST, AND PASSED THE SENATE BY A VOTE OF 26 IN FAVOR AND 6 AGAINST, AND WAS THERE- AFTER VETOED BY HIS EXCEL- LANCY THE GOVERNOR, AND FAILED OF PASSAGE IN THE SENATE OVER THE SAID VETO BY A VOTE OF 14 IN FAVOR AND 22 AGAINST, BE AP- PROVED? Number of "Yes" votes Number of "Yes" votes Number of "NO" votes Blank	1161 1000 338	1187 454 393	1029 1428 289	842 1370 263	1291 2024 454	1621 2220 589	1807 1804 715	8938 12400 3041
TABULATION OF ABSENT VOT- ER BALLOTS				٠				
(Tabulated from precinct records of election).  Number of votes cast  Number rejected as defective  Number rejected as not a voter  Number rejected, voted in person	11	3	17	6	25	11	-11	117

# 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	*93,033

<sup>\*</sup>Census.

#### ORDINANCES.

Somerville, January 1, 1921.

The following ordinances have been adopted since the printing of the annual reports for the year 1919:—

#### Ordinance No. 91.

## An Ordinance Relative to the Fire Department.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:—

Section 1. Section 1 of Chapter XVIII of the Revised Ordinances of 1911 is hereby repealed and the following substituted in place thereof:

Section 1. The fire department shall consist of a chief engineer, a deputy chief, two district chiefs, a master mechanic, and as many other officers and members as the board of aldermen shall from time to time determine. The two district chiefs shall each perform the duties of a captain.

Each engine company shall consist of not more than fourteen men and shall be organized as follows: Captain, lieutenant, hosemen, and, if the engine is operated with steam, an engineman and an assistant engineman or if motor driven, drivers or operators.

Each hose company shall consist of not more than ten men and shall be organized as follows: captain, lieutenant, drivers or operators, and hosemen.

Each ladder company shall consist of not more than sixteen men and shall be organized as follows: captain, lieutenant, drivers or operators, and laddermen.

When two or more companies are housed in the same station, one only of such companies shall have a captain, and he shall have the authority and responsibility and perform the duties of that office with reference to all of such companies, except that, when in attendance at alarms or fires and in going to and returning from the same, such authority, responsibility and duties shall devolve, with reference to all such companies other than his own, upon their respective lieutenants

Sect. 2. Section 3 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 3. The chief engineer and deputy chief shall also be fire wards of the city.

Sect. 3. Section 4 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 4. The chief engineer shall have the sole and absolute control and command over all members of the department and all other persons present at fires, and shall take prompt measures to arrange the engines and other apparatus in the most advantageous manner, and issue such orders as he may deem necessary. In case of the absence of the chief engineer at a fire, the deputy chief, and if he is not present the district chief or in his absence the officer designated to act in that capacity, shall during such absence, have and exercise all the power and authority of the chief engineer, and shall perform the duties of his office; and if the

engineer or no chief be present, the captain who first arrives with his apparatus at a fire shall exercise such authority until the arrival of a superior officer, and until the arrival of one of said officers such authority is to be exercised by the lieutenant who first arrives with his apparatus.

Sect. 4. Section 5 of said chapter is hereby repealed and the following substituted in place thereof: Sect. 5. Whenever it shall be determined at any fire, by the officer in command, to be necessary to pull down or demolish any building in order to prevent the spreading of fire, the same may be done by his order, in accordance with the statute in such case made and provided.

Section 7 of said chapter is hereby repealed and the Section 5. following substituted in place thereof: Sect. 7. The members of the uniformed fire-fighting force shall be divided into two bodies or platoons, which shall be designated as a day force and a night force, and the day force and the night force shall alternate on tours of duty every The hours of duty of the day force shall be from eight third day. o'clock ante meridian to six o'clock post meridian, and the hours of duty of the night force shall be from six o'clock post meridian to eight o'clock ante meridian; provided, that on every third day for the purpose of alternating the day force with the night force and vice versa, the number of hours of duty herein stated may be exceeded, but one force shall be at liberty at all times except in case of a conflagration, the officer having charge of the fire-fighting force shall have full authority to summon and keep on duty any or all of the members of the fire-fighting force while the conflagration continues. The members of the fire department shall be entitled to fourteen days' vacation each year, without loss of pay. Members absent from duty on account of injury caused while in the performance of duty, and such injury being certified to by the city physician, shall receive full pay for a period not exceeding sixty days, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. A substitute in the fire department incapacitated on account of injury caused while in the performance of duty in said department, and such injury being certified to by the city physician, shall receive pay equal to that paid to a member of the department during his first year, for a period not exceeding sixty days, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. Members of the department absent from duty on account of sickness, and such sickness being certified to by the city physician, shall be entitled to full pay for not more than twenty days' absence on any one occasion, provided however that the chief engineer of the fire department, with the approval of the city physician and mayor, may grant such extension of time as may be deemed necessary. No pay will be allowed under this ordinance if the sickness or injury is feigned, simulated, exaggerated, or arises from carelessness, improper or vicious conduct, excessive indulgence of appetite or other bad habits, or from improper practices, or if the sick or injured person shall fraudulently, by concealment, false statement, or otherwise seek to deceive or mislead the attending physician or surgeon in relation to his case, or if he refuses or neglects to conform to the instructions of the attending physician or surgeon. At the discretion of the chief engineer of the fire department any member shall be entitled to full pay during absence not exceeding three days for the purpose of attending a funral in his immediate family.

Section 6. Ordinance No. 63 is hereby repealed.

Sect. 7. This ordinance shall take effect upon its passage.

Approved August 2, 1920

#### Ordinance No. 92.

# An Ordinance Relative to Street Railways.

Be it ordained by the Board of Aldermen of the City of Somerville, as follows:-

Chapter XXV of the Revised Ordinances of 1911 entitled "Street

Railways" is hereby amended by adding the following thereto.

Section 1. No person shall use or cause or allow to be used any portion of a public street as the terminal of a route for a street railway car unless permission therefor has been granted by the board of aldermen to the street railway corporation operating said car.

Sect. 2. No person shall cause or allow a street railway car to remain standing in any public street for the purpose of using said street as the terminal of a route for such car unless permission therefor has been granted by the board of aldermen to the street railway corporation operating said car.

Sect. 3. Whoever violates any provision of this ordinance shall be subject to a penalty not exceeding twenty dollars for each offense.

Sect. 4. This ordinance shall take effect fifteen days after its passage.

Approved January 4, 1020

In submitting this, my final report, I wish to express to his honor, the mayor, the board of aldermen and all departmental officials and employees of the city my appreciation of the uniform kindness and courtesy that has been extended by them throughout the whole of my official service. It is my opinion, if I may be permitted to record it herein, that Somerville has been unusually fortunate in the character and ability of its mayors and aldermen throughout its existence as a city and that its government always has been and I sincerely trust always may be carried on with the purpose expressed in the preamble of the constitution of our Commonwealth, — "to furnish the individuals who compose it with the power of enjoying in safety and tranquility their natural rights and the blessings of life."

Frederic W. Cook,

City Clerk.

# CITY GOVERNMENT AND OFFICERS FOR 1920.

## Mayor.

CHARLES W. ELDRIDGE, 47 Highland Road.

#### Board of Aldermen.

President, RICHARD L. RICE Vice-President, HIRAM N. DEARBORN

WARD ONE.

# . . 68 Mt. Pleasant Court James J. Shay, Alderman-at-large William F. Burns . . . . Lyman A. Hodgdon . . . . 21 Illinois Avenue 8 Indiana Avenue WARD TWO. 12 Dimick Street 11 Allen Street 7 Linden Street WARD THREE. . 60 Prescott Street . 73 Avon Street . 19 Greenville Street George A. Berry, Alderman-at-large . WARD FOUR. 296½ Broadway 64 Flint Street Richard L. Rice, Alderman-at-large . John S. Smith, Jr. 52 Sydney Street WARD FIVE. William J. Bell, Alderman-at-large 380 Medford Street Fred Allen . 121 Central Street Francis W. K. Smith . . 133 Central Street WARD SIX. 39 Highland Road 83 Belmont Street 78 Belmont Street Enoch B. Robertson, Alderman-at-large . Almon F. Heald . . . . . John E. Locatelli WARD SEVEN. 86 Electric Avenue 27 Hall Avenue 18 Hall Avenue

# Standing Committees of the Board of Aldermen.

ELECTRIC LINES AND LIGHTS — Aldermen Robertson, Shay, Berry, Haley and Phelps.

FINANCE — The President, Aldermen Allen, Berry, Donnelly, Heald, Hodgdon and Mason.

LEGISLATIVE MATTERS — Aldermen Harris, Dearborn, Smith of Ward 4, Smith, of Ward 5 and Burns.

LICENSES AND PERMITS — Aldermen Dearborn, Heald, Abbott, Donnelly, Smith of Ward 5, Burns and Smith, of Ward 4.

Public Property — Aldermen Berry, Bell, Locatelli, Coldwell and Hodgdon.

Public Safety — Aldermen Bell, Abbott, Dearborn, Robertson and Smith of Ward 4.

Public Service — Aldermen Shay, Robertson, Bell, Mason, Haley, Nichols and Phelps.

Public Works — Aldermen Locatelli, Allen, Shay, Harris, Phelps, Coldwell and Nichols.

#### School Committee.

Chairman, Herbert Cholerton. Vice-Chairman, William M. Morrison.

#### Members.

Charles	W.	Eldri	idge,	Mayor	(e:	x-officio)	•	47	High	land	road.
Richard	L.	Rice,	Pres.	Board	of	Aldermen,	(ex-officion	) 2	$296\frac{1}{2}$	Broa	dway

			WAR	D ONE.		
Francis J. Fitzpatrick William T. McCarthy		•	•	•	•	76 Broadway 38 Pearl street
			WAR	D TWO.		
Daniel H. Bradley Christopher J Muldo				•	•	19 Concord avenue 88 Concord avenue
			WARD	THREE.		
Charles W. Boyer Oscar W. Codding			•		•	104 Summer street 59 Vinal avenue
			WAR	o FOUR.		(
Frank M Hawes . Edward I. Tripp .			•		•	257 School street 21 Wigglesworth street
			WAF	RD FIVE.	_	
Harry M. Stoodley Miss Minnie S. Turne		•	· :			283 Highland avenue 64 Hudson street
			WAF	BD SIX.		P
Walter I. Chapman William M. Morrison	•	•	•	0.00	•	18-A Central street 97 Rogers avenue
			WARI	SEVEN.		
Herbert Cholerton Paul O. Curtis .	•			•	•	94 College avenue 41 Mason street

Superintendent and Secretary - Charles S. Clark.

#### Assessors.

FRED E. WARREN, Chairman (term expires 1923.)
WINSOR L. SNOW (term expires 1921).
HARRY VAN IDERSTINE (term expires 1923).
J. ROBERT FENELON (term expires 1922).
DAVID B. ARMSTRONG (term expires 1921).

#### Assistant Assessors.

FRED B. CLAPP.

JOHN S. McGOWAN.

LAWRENCE J. WARD.

JOHN M. NANGLE. LEONARD C. SPINNEY. SAMUEL C. WISWALL.

#### Board of Health.

ROBERT M. LAVENDER, Chairman (term expires 1922).

WARREN C. BLAIR (term expires 1922).

JOHN E. GILLIS, M. D., (term expires 1921).

Clerk—Laurence S. Howard.

Agent—George I. Canfield.

Medical Inspector — Frank L. Morse, M. D.

Mnspector of Animals and Provisions—Charles M. Berry.

Inspector of Milk and Vinegar—Herbert E. Bowman.

# Licensing Board.

EUGENE M. CARMAN, Chairman (term expires 1926).
WILLIAM H. SMITH (term expires 1924).
WILLIAM J. SHANAHAN (term expires 1922).

#### Overseers of the Poor.

FRED E. DURGIN, Chairman (term expires 1923).

MICHAEL COLL, Vice-Chairman (term expires 1921).

HENRY F. CURTIS (term expires 1922).

Agent — WILLIAM E. COPITHORNE.

Warden City Home—J. FOSTER COLQUHOUN.

Matron City Home — CATHERINE COLQUHOUN.

#### Planning Board.

WILLIAM F. RILEY, Chairman (term expires 1921).

DAVID J. KELLEY, Secretary (term expires 1924).

HARRISON L. EVANS, (term expires 1920).

PAUL R. VALENTINE, (term expires 1922).

GEORGE. J. RAUH, (term expires 1923).

#### Registrars of Voters.

Edwin D. Sibley, Chairman (term expires 1921).

Douglass B. Foster (term expires 1923).

CHARLES LEO SHEA (term expires 1922).

FREDERIC W. Cook, City Clerk.

# Public Library Trustees.

THOMAS M. DURELL, Chairman (term expires 1922)

J. FRANK WELLINGTON (term expires 1923).

FREDERICK W. PARKER (term expires 1921).

WILLIAM L. BARBER (term expires 1922).

CHARLES L. NOYES (term expires 1923).

HERBERT E. BUFFUM (term expires 1923).

GILES W. BRYANT (term expires 1921).

DAVID H. FULTON (term expires 1921).

FRANK M. BARNARD (term expires 1922).

Librarian and Secretary—George H. EVANS.

# Recreation and Playground Commission.

CHARLES S. CLARK, Chairman (term expires 1921)
GEORGE L. DUDLEY, Secretary (term expires 1922).
ERNEST W. BAILEY (term expires 1922).
JOHN F. COLQUHOUN (term expires 1922).
FRANCES M. WEEKS (term expires 1921).
ELIZABETH MONGAN (term expires 1921).
Vacancy

# City Clerk.

FREDERIC W. COOK.

Assistant City Clerk—Jason M. Carson.

City Treasurer and Collector of Taxes.

JOSEPH S. PIKE.

City Messenger. Fred E. Hanley.

Mayor's Secretary.
LEON M. CONWELL.

City Solicitor. FRANK W. KAAN.

City Auditor. Howard E. Wemyss.

City Engineer.
ERNEST W. BAILEY.

Commissioner of Streets.

ASA B. PRITCHARD.

Commissioner of Public Buildings and Inspector of Buildings.

George L. Dudley.

Commissioner of Electric Lines and Lights.
Walter I. Fuller.

Water Commissioner.

FRANK E. MERRILL.

Superintendent of Sanitary Department.

EDGAR T. MAYHEW.

Clerk of Committees

RICHARD A. KEYES.

Chief of Police.

CHARLES A. KENDALL.

Chief Engineer of the Fire Department.

SEWALL M. RICH.

City Physician.

C. CLARKE TOWLE, M. D.

Inspector of Plumbing.

DUNCAN C. GREENE.

Inspector of Milk and Vinegar.

HERBERT E. BOWMAN.

Inspector of Animals and Provisions.

CHARLES M. BERRY.

Inspector of Petroleum.

SEWALL M. RICH.

Sealer of Weights and Measures.

BENJAMIN S. ABBOTT.

Fence Viewers.

CHARLES M. BERRY, HOWARD LOWELL,

Agent of Military and State Aid and Soldiers' Relief and Burial Agent.

BENJAMIN S. ABBOTT.

#### Constables.

MAURICE F. AHEARN.
CHARLES M. AUSTIN.
CHARLES W. F. BENNETT.
GEORGE H. CARLETON.
EUGENE A. CARTER.
WINSLOW W. COFFIN.
WILLIAM E. COPITHORNE.
ALBION B. CROCKER.
WARREN C. DAGGETT.
THOMAS DAMERY.
CHARLES L. ELLIS.
ARTHUR L. GILMAN.

FRED E. HANLEY.
JAMES M. HARMON.
FRED W. JACKSON.
HARRY E. JACKSON.
CHARLES A. KENDALL.
MICHAEL T. KENNEDY.
ELBRIDGE G. LAVENDER.
EDWARD E. MARSH.
LOUIS A. MORRIS.
JOHN A. RAY.
JOHN F. SCANNELL.
CHARLES E. WOODMAN.

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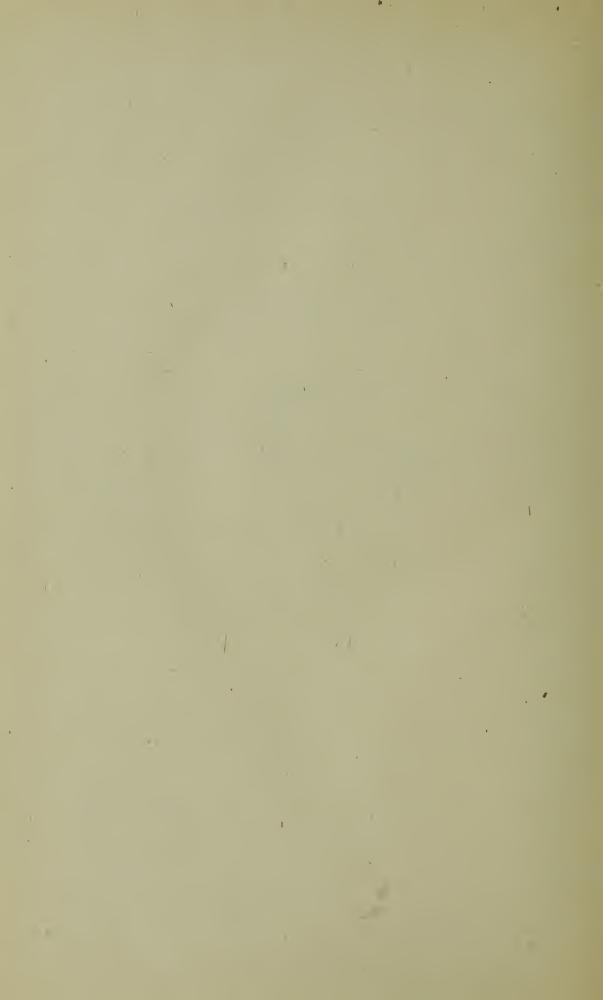
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