

[DOCUMENT 4—1920]

REPORT
OF THE
CITY AUDITOR
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF BOSTON AND THE COUNTY OF SUFFOLK
COMMONWEALTH OF MASSACHUSETTS
FOR THE FINANCIAL YEAR
1919-1920

FEBRUARY 1, 1919, TO JANUARY 31, 1920
(BOTH INCLUDED)



CITY OF BOSTON
PRINTING DEPARTMENT
1920

CITY INCOME.

Fire Department.

Permits for fires in open spaces, fireworks, blasting, transportation and storage of explosives,	\$7,252 75		
Sale of uniform cloth,	2,309 25		
Services of Fireboat No. 47, United States Government,	1,650 40		
Sale of badges,	1,072 00		
Sale of old material,	841 03		
Damage to apparatus,	536 75		
Sale of horses,	465 00		
Damage to fire alarm posts and boxes,	220 57		
Refund of salary,	130 94		
Sale of manure,	84 00		
Refund of amount drawn to pay traveling expenses,	10 00		
Refund of overpayment,	7 00		
Removal of dead horse,	5 00		
		\$14,584 69	
WIRE DIVISION (from June 10, 1919):			
Fees,	\$21,819 95		
Damage to automobile,	15 00		
Sale of horse and wagons,	125 00		
		21,959 95	
			36,544 64

(See, also, Wire Department.)

Fitzgerald Firemen's Gold Medal Fund.

Income,	30 00
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CITY PAYMENTS.

Fire Department.

Personal Service:			
Permanent employees,	\$1,992,837 23		
Temporary employees,	98 00		
Unassigned,	4,011 25		
		\$1,996,946 48	
Carried forward,		\$1,996,946 48	\$22,080,097 36

FIRE DEPARTMENT.

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<i>Brought forward,</i>		\$1,996,946 48	\$22,080,097 36
Service Other than Personal:			
Printing and binding,	\$156 90		
Postage,	385 11		
Advertising and posting,	62 95		
Transportation of persons,	1,660 09		
Cartage and freight,	597 02		
Hire of teams,	186 60		
Light and power,	12,848 32		
Rent, taxes and water,	3,061 88		
Communication,	2,198 36		
Motor vehicle repairs and care,	8,277 33		
Motorless vehicle repairs,	3,346 29		
Cleaning,	8,599 53		
Examinations,	668 00		
Testing materials and supplies,	140 00		
Expert and architect,	470 00		
Fees, etc.,	1,303 00		
Boiler inspection,	219 00		
Photographic and blue-printing,	164 69		
General plant,	43,471 40		
Horseshoeing and clipping,	15,095 75		
		102,912 22	
Equipment:			
Cable, wire, etc.,	\$15,572 61		
Electrical,	2,698 59		
Motor vehicles,	250,560 95		
Stable,	2,854 50		
Furniture and fittings,	4,335 88		
Office,	185 14		
Tools and instruments,	24,193 54		
Live stock,	3,575 00		
Wearing apparel,	1,396 67		
General plant,	458 08		
		305,830 96	
Supplies:			
Office,	\$4,323 37		
Food and ice,	942 54		
Fuel,	77,599 66		
Forage and animal,	41,891 85		
Medical, surgical, laboratory,	199 97		
Veterinary,	236 93		
Laundry, cleaning, toilet,	3,667 34		
Motor vehicle,	19,121 87		
Chemicals and disinfectants,	3,485 29		
General plant,	4,517 31		
Cloth,	2,421 80		
		158,407 93	
Materials:			
Building,	\$16,780 05		
Electrical,	3,568 46		
General plant,	33,860 15		
		54,208 66	
<i>Carried forward,</i>		\$2,618,306 25	\$22,080,097 36

<i>Brought forward,</i>		\$2,618,306 25	\$22,080,097 36
Special Items:			
Pensions and annuities,	\$198,724 41		
Workingmen's compensation,	530 00		
		199,254 41	
		<u>\$2,817,560 66</u>	

WIRE DIVISION.

From June 10, 1919.

Personal Service:

Permanent employees, \$42,924 04

Service Other than Personal:

Printing and

binding, \$13 13

Postage, 175 00

Transportation of persons, 930 19

Premium on surety bond, 6 00

Motor vehicle repairs and care, 290 55

Fees, etc., 10 00

Photographic and blueprinting, 4 25

General plant, 1 65

Horseshoeing and clipping, 7 50

1,438 27

Equipment:

Electrical, \$15 81

Motor vehicles, 931 45

Stable, 10 00

Tools and instruments, 14 55

971 81

Supplies:

Office, \$669 45

Motor vehicle, 136 34

805 79

Materials:

Electrical, \$5 40

General plant, 34 10

39 50

Special Items:

Pension, 300 00

46,479 41

\$2,864,040 07

FIRE QUARTERS, READVILLE (HYDE PARK).

Continuation of Payments.

Contractor, M. S. Kelliher,

\$4,447 90

Architect, Joseph McGuinniss,

355 41

Expert services,

45 00

\$4,878 31*Carried forward,*\$22,080,097 36*Brought forward,*

\$22,080,097 36

RECAPITULATION.

Fire Department,
Fire Quarters, Readville,

\$2,864,040 07

4,878 31

2,868,918 38

CITY PROPERTY.

BELLS OWNED BY THE CITY.

LOCATION.	Material.	Weights in lbs.
<i>City Proper.</i>		
Building, Berkeley street and Warren avenue.....	Composition.	2,941
Faneuil Hall.....	Composition.	5,186
<i>Charlestown.</i>		
Van Nostrand's Brewery.....	Composition.	818
<i>East Boston.</i>		
Trinity Church, Trenton street.....	Composition.	1,700
<i>South Boston.</i>		
Lincoln Schoolhouse, Broadway.....	Composition.	3,110
<i>West Roxbury.</i>		
Engine House No. 30, Mt. Vernon street (stored).....	Steel.	1,000
<i>Brighton.</i>		
Engine House No. 29, Chestnut Hill avenue.....	Steel.	1,535
<i>Hyde Park.</i>		
Old Hose House, Hyde Park avenue.....	Composition.	926

FIRE DEPARTMENT.

STATIONS.

	Number of Feet in Lot.		Number of Feet in Lot.
CITY PROPER.		SOUTH BOSTON.	
Boylston and Hereford streets,	5,646	Andrew square.....	5,133
Bristol street and Harrison avenue.	4,000	Congress street.....	4,000
Bulfinch street.....	6,098	Dorchester street.....	8,167
Church street.....	3,412	Dorchester avenue.....	2,803
East street.....	1,893	Fourth street.....	3,101
Fort Hill square.....	4,175	Fourth and O streets.....	4,000
Friend street.....	1,676	Pittsburgh street.....	8,964
Harrison avenue.....	2,134		
Leverett street.....	2,269	DORCHESTER.	
Mason street.....	5,623	Callender and Lyford streets..	7,200
Northampton street.....	3,445	Columbia road.....	10,341
North Grove street.....	3,918	Dorchester avenue.....	4,875
River street.....	1,886	Harvard street.....	9,440
Salem street.....	2,568	Meeting House Hill.....	9,450
Warren avenue.....	7,500	Norfolk street.....	7,683
		River street.....	12,736
		Walnut street.....	9,000
		Washington street.....	6,875
CHARLESTOWN.			
Bunker Hill street.....	8,188	ROXBURY.	
Elm street.....	2,600	Cabot street.....	4,832
Main street.....	4,290	Centre street.....	5,713
Monument street.....	5,668	Dudley street.....	7,320
Winthrop street.....	5,230	Dudley street.....	3,923
		Longwood and Brookline avenues.	5,231
EAST BOSTON.		Tremont street.....	4,311
Marion street.....	3,265	Warren and Quincy streets...	4,186
Paris street.....	4,720		
Saratoga street.....	9,300	HYDE PARK.	
Saratoga and Byron streets...	10,000	Harvard avenue and Winthrop street.	9,450
Sumner street.....	4,010	Milton and Hamilton streets..	14,475
WEST ROXBURY.		MISCELLANEOUS.	
Centre street.....	10,377	Bristol street (Headquarters)..	23,679
Centre street.....	12,251	Atkinson street (veterinary hospital).	64,442
Walk Hill and Wenham streets,	11,253	Main street. (Fuel house)...	2,430
Washington street.....	3,848	Wareham street (workshop)...	8,500
Washington and Poplar streets,	14,729	618 Wareham street.....	3,816
BRIGHTON.			
Chestnut Hill avenue.....	14,358		
Harvard avenue.....	6,112		
Oak square.....	9,889		
Western avenue.....	4,637		

Eleven thousand nine hundred fifty feet of land and part of building adjoining the South Ferry, East Boston, quarters of Engine Company No. 47.

FIRE ENGINES.—Forty-seven in service, located as follows: 12 in city proper, 4 in East Boston, 6 in South Boston, 5 in Roxbury, 7 in Dorchester, 4 in Charlestown, 4 in West Roxbury, 3 in Brighton and 2 in Hyde Park.

FIREBOATS.—Three in service, located at Northern Avenue Bridge, South Ferry, East Boston, and 521 Commercial street.

HORSE HOSE WAGONS.—Twenty-one in service, located as follows: 4 in city proper, 2 in East Boston, 1 in South Boston, 3 in Roxbury, 3 in Dorchester, 2 in Charlestown, 3 in West Roxbury, 2 in Brighton and 1 in Hyde Park.

LADDER TRUCKS.—Thirty-one in service, including 10 extension ladder trucks, located as follows: 7 in city proper, 2 in East Boston, 3 in Roxbury, 4 in South Boston, 5 in Dorchester, 2 in Charlestown, 4 in West Roxbury, 3 in Brighton and 1 in Hyde Park.

CHEMICAL ENGINES.—Eight in service, located as follows: 2 in city proper, 1 in East Boston, 1 in Roxbury, 1 in West Roxbury, 2 in Dorchester and 1 in Hyde Park.

WATER TOWERS.—Three in service, 2 located in city proper and 1 in South Boston. All motor drawn.

PORTABLE EXTINGUISHERS.—Carried on ladder trucks, hose wagons, chemical engines and water towers, and located in the department houses.

MOTOR VEHICLES.—Eight trucks, 6 touring cars and 24 runabouts.

Motor boat.

HORSES.—One hundred eighty-five.

FUEL WAGONS.—Forty-one, each capable of conveying about 2 tons.

FIRE LADDERS.—Four hundred fifty of different sizes.

HOSE.—One hundred twenty-six thousand five hundred eighty-six feet leading and 1,967 feet of suction.

SPARE APPARATUS.—Nine steam fire engines, including 2 motor drawn, 8 hose wagons, 5 hook and ladder carriages and 4 chemical engines and 1 water tower, motor drawn.

REPAIR SHOP.—In the repair shop, one 25 horse power steam engine, cylinder, 9 by 31 inches, Putnam Machine Company; one 26-inch by 26-inch iron planer, 8-foot table, 12-foot bed; one buzz planer; one board planer; one mortising machine; one 14-inch swing engine lathe, 6-foot bed; one 14-inch swing engine lathe, 10-foot bed; one power hammer, one No. 2 upright drill, five blacksmith's forges; one furnace for heating tires, one 28-inch swing standard engine lathe, one 14-inch speed lathe, 10-foot bed; two 25-inch shaping machines, one sewing machine, one hose expander machine, one upsetting machine, one 72-inch radial drill, two Blake pumps for feeding boilers, one Knowles triplex pump for testing hose, one band saw, one circular saw, one grinder, one bolt cutter, one combination tool, shears and punch, together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

Three upright tubular boilers, 100 horse power.

Three dynamos for lighting and fire alarm, one tire upsetter.

One 15 horse power electric motor.

WIRE DIVISION.

- 1 high potential testing apparatus.
- 1 transformer.
- 1 test board, capacity 220 volts, 300 amperes.
- 1 auxiliary test board, capacity 220 volts, 150 amperes.
- 1 reflecting galvanometer, condenser, telescope, scales, etc.
- 1 set resistance coils. (Standard.)
- 1 lamp stand and scale.
- 1 shunt coil.
- 1 set double connector posts.
- 1 discharge key.
- 1 reversing key.

- 1 electrostatic voltmeter, No. 70647.
- 1 1,500-volt direct current voltmeter, No. 3438.
- 1 300-volt Weston direct current voltmeter, No. 3317.
- 1 300-volt Weston direct current voltmeter, No. 6020.
- 1 300-volt Weston direct current voltmeter, No. 15459.
- 1 300-volt Weston direct current voltmeter, No. 15455.
- 1 300-volt Weston portable direct current voltmeter, No. 15456.
- 1 300-volt Weston alternating direct current voltmeter, No. 1044.
- 1 15-volt Weston direct current voltmeter No. 4747.
- 1 3-150-volt Weston direct current voltmeter, No. 2147, miniature type.
- 1 0-150 to 300 double reading Weston direct current voltmeter, No. 28981.
- 1 0-150 to 300 double reading Weston direct current voltmeter, No. 28982.
- 1 0-150, 0-300 alternating current and direct current Weston voltmeter, No. 147.
- 1 500-ampere Weston direct current ammeter, No. 2428.
- 1 50-ampere Weston direct current ammeter, No. 2381.
- 1 1,500 mil-ampere Weston direct current mil-ammeter, No. 2433.
- 1 200-ampere T. & H. alternating current ammeter, No. 29421.
- 1 15-ampere T. & H. alternating current ammeter, No. 21507.
- 1 Queen testing set, No. 389.
- 1 standard resistance coil with wheatstone bridge.
- 1 generator, 50,000 ohms.
- 6 bichloride of silver batteries, each 60 cells.
- 2 automobiles (1 touring car, 1 Ford truck).
- 3 robes.
- 2 blankets.
- 2 cameras (complete).
- Miscellaneous tools used in connection with overhead construction.
- Draughting instruments.

FIRE ALARM SERVICE.

- Telegraphic fire alarm plant.

PUBLIC CLOCKS.

City Proper.—Courthouse, Christ Church, Salem street; Odd Fellows Hall, Tremont street; Old South Church, Old State House, Suffolk County Jail, St. Stephen's Church, Hanover street; Tremont Street M. E. Church; Young Men's Christian Union Building.

South Boston.—Gaston Schoolhouse, Lincoln Schoolhouse, Phillips Church, St. Augustine's Church, and one, formerly on Ticknor Schoolhouse, stored by Schoolhouse Department.

East Boston.—London Street Church, Lyceum Hall, Trinity Church and Orient Heights Church.

Roxbury.—The movement of the clock formerly in Winthrop Street Church is stored by the Fire Alarm Branch, Boston Elevated Railway house, Columbus avenue; Roxbury High Schoolhouse.

Dorchester.—Franklin Field, Peabody square, Baker Memorial Church, Upham's Corner, and one, formerly on Tileston Schoolhouse, stored by Schoolhouse Department.

Brighton.—Bennett Schoolhouse.

Jamaica Plain.—Unitarian Church.

Roslindale.—Congregational Church.

West Roxbury.—South Evangelical Church.

The movement of the clock formerly in old City Hall, Charlestown, is stored by the Fire Alarm Branch.

TRUST FUNDS.

FITZGERALD FIREMEN'S GOLD MEDAL FUND.

Bequest of JOHN E. FITZGERALD, the income to be collected by the City Treasurer and paid annually to the Fire Commissioner, to be used yearly in buying a gold medal to be presented to the fireman who, in the judgment of the Fire Commissioner, had performed the most meritorious act and whose conduct has called for special mention. Received bond from Executors of the estate of Henry S. Russell, Fire Commissioner, May 24, 1905.

Invested in registered certificate of indebtedness of the Commonwealth of Massachusetts, due January 1, 1941, interest at three per cent per annum	\$1,000 00
Cash in City Treasury, January 31, 1920.	455 75
	<u>\$1,455 75</u>

APPROPRIATIONS, 1919-1920.

FIRE DEPARTMENT.

A. PERSONAL SERVICE AS PER SCHEDULE A	\$1,988,729 35
1. Permanent employees	\$1,985,331 35
2. Temporary employees	98 00
3. Unassigned	3,300 00
B. SERVICE OTHER THAN PERSONAL	112,275 00
1. Printing and binding	\$200 00
2. Postage	275 00
3. Advertising and posting	50 00
4. Transportation of persons	900 00
5. Cartage and freight	600 00
6. Hire of teams and auto trucks	300 00
Carried forward	\$2,325 00 \$2,101,004 35

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APPROPRIATIONS, 1919-1920.

Brought forward	\$2,325 00	\$2,101,004 35
8. Light and power	12,500 00	
10. Rent, taxes and water	3,065 00	
13. Communication	1,800 00	
14. Motor vehicle repairs and care	12,000 00	
15. Motorless vehicle repairs	6,500 00	
18. Cleaning	7,000 00	
25. Examinations	400 00	
27. Testing materials and supplies	150 00	
28. Expert and architect	375 00	
32. Towing	400 00	
35. Fees, service of venires, etc.	1,310 00	
36. Boiler inspection	250 00	
37. Photographic and blueprinting	200 00	
39. General plant	50,000 00	
41. Horseshoeing and clipping	14,000 00	
C. EQUIPMENT		184,250 00
1. Cable, wire, etc.	\$18,000 00	
3. Electrical	3,000 00	
4. Motor vehicles	125,000 00	
6. Stable	2,800 00	
7. Furniture and fittings	5,500 00	
9. Office	200 00	
13. Tools and instruments	23,000 00	
14. Live stock	5,000 00	
16. Wearing apparel	1,250 00	
17. General plant	500 00	
D. SUPPLIES		156,595 00
1. Office	\$3,000 00	
2. Food and ice	800 00	
3. Fuel	82,645 00	
4. Forage and animal	42,000 00	
5. Medical, surgical, laboratory	200 00	
7. Veterinary	300 00	
8. Laundry, cleaning, toilet	3,750 00	
11. Motor vehicle	14,000 00	
13. Chemicals and disinfectants	3,000 00	
16. General plant	4,500 00	
18. Cloth	2,400 00	
E. MATERIALS		44,100 00
1. Building	\$13,000 00	
9. Machinery	100 00	
10. Electrical	3,000 00	
13. General plant	28,000 00	
F. SPECIAL ITEMS		200,530 00
7. Pensions and annuities	\$200,000 00	
11. Workingmen's compensation	530 00	
		<u>\$2,686,479 35</u>

FIRE DEPARTMENT.

Commissioner, 1 at \$5,000 per year	\$5,082 17
Chief clerk, 1 at \$2,500 per year	2,541 35
Clerk, 1 at \$2,100 per year	2,134 31
Supervisor of pay accounts, 1 at \$1,800-\$2,000 per year	1,963 61
Clerk, 1 at \$1,800 per year	1,829 56
Chief, license bureau, 1 at \$1,700-\$1,800 per year	1,795 00
Clerk, 1 at \$1,600-\$1,700 per year	1,693 24
Clerk, 1 at \$1,500-\$1,600 per year	1,591 48
Clerk, 1 at \$1,400-\$1,500 per year	1,489 90
Clerk, 1 at \$1,200-\$1,300 per year	1,286 73
Clerks, 2 at \$1,200 per year	1,794 78
Chief of department, 1 at \$4,500 per year	4,573 90
Deputy chiefs, 2 at \$3,500 per year	7,114 72
District chiefs, 15 at \$3,000 per year	45,736 35
Captains, 63 at \$2,000 per year	128,050 65
Lieutenants, 92 at \$1,800 per year	168,319 52
Marine engineers, 3 at \$1,700 per year	5,183 40
Engineers, 49 at \$1,500-\$1,700 per year	81,275 30
Assistant engineers, 51 at \$1,100 to \$1,600 per year	79,668 09
Aide to chief, 1 at \$1,800 per year	1,829 56
Aide to commissioner, 1 at \$1,400-\$1,600 per year	1,557 10
Privates, 933 at \$900 to \$1,600 per year	1,280,490 79
Supervisor of motor apparatus, 1 at \$3,500 per year	3,557 36
Veterinary surgeon, 1 at \$3,000 per year	3,049 09
<i>Carried forward</i>	<u>\$1,833,607 96</u>

APPROPRIATIONS, 1919-1920.

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<i>Brought forward</i>	\$1,833,607 96
Medical examiner, 1 at \$1,800 per year	1,829 56
Superintendent of fire alarms, 1 at \$3,000 per year	3,049 09
Assistant superintendent and chief operator, 1 at \$2,500 per year	2,541 35
Supervising operator, 1 at \$1,800 per year	1,829 56
Principal operators, 4 at \$1,800 per year	7,318 24
Operators, 2 at \$1,600-\$1,700 per year	3,386 48
Assistant operators, 3 at \$1,400-\$1,600 per year	4,469 70
Assistant operators, 4 at \$1,100 to \$1,600 per year	5,593 26
Foreman of construction, 1 at \$2,200 per year	2,236 07
Assistant foreman of construction, 1 at \$1,600-\$1,700 per year	1,693 24
Superintendent of repair shop, 1 at \$3,000 per year	3,049 09
Storekeeper, 1 at \$1,800 per year	1,829 56
Master plumber, 1 at \$1,600-\$1,700 per year	1,693 24
Master mechanics, 2 at \$1,500-\$1,600 per year	3,217 52
Stockman, 1 at \$1,400-\$1,500 per year	1,489 90
Engineer motor apparatus, 1 at \$1,500-\$1,700 per year	1,658 68
Foreman auto mechanics, 1 at \$1,400-\$1,500 per year	1,489 90
Machinist, 1 at \$29.75-\$33.25 per week	1,699 25
Machinists, 2 at \$28-\$31.50 per week	3,213 00
Machinist, 1 at \$25.50-\$28.50 per week	1,456 50
Machinists, 11 at \$24-\$27 per week	15,147 00
Cable splicers, 3 at \$28.50-\$31.50 per week	4,846 50
Inside wiremen and electricians, 4 at \$27.60-\$30.60 per week,	6,271 20
Repairers and linemen, 11 at \$24-\$27 per week	15,147 00
Plumbers, 2 at \$26.40-\$29.40 per week	3,008 40
Steamfitter, 1 at \$24-\$27 per week	1,377 00
Blacksmith, 1 at \$25.50-\$28.50 per week	1,456 50
Blacksmiths, 4 at \$24-\$27 per week	5,508 00
Blacksmith's helpers, 4 at \$19.50-\$22.50 per week	4,554 00
Boiler repairer and ironworker, 1 at \$24-\$27 per week	1,377 00
Wheelwrights, 2 at \$24-\$27 per week	2,754 00
Firemen, 2 at \$28-\$31.50 per week	3,213 00
Engineer, 1 at \$28-\$31 per week	1,589 00
Painter, 1 at \$25.50-\$28.50 per week	1,456 50
Painters, 7 at \$24-\$27 per week	9,639 00
Carpenters, 3 at \$24-\$27 per week	4,131 00
Horseshoer, 1 at \$19.50-\$22.50 per week	1,138 50
Hose and harness repairers and carriage trimmers, 2 at \$24-\$27 per week	2,754 00
Hose and harness repairer, 1 at \$21-\$24 per week	1,218 00
Vulcanizer, 1 at \$21-\$24 per week	1,218 00
Chauffeur, 1 at \$21-\$24 per week	1,218 00
Teamsters, 2 at \$21-\$24.50 per week	2,471 00
Hostlers, 3 at \$21-\$24.50 per week	3,706 50
Laborer, 1 at \$18-\$21 per week	1,059 00
Janitress, 1 at \$11.55-\$14.55 per week	722 10
	<u>\$1,985,331 35</u>

TEMPORARY \$98 00

UNASSIGNED \$3,300 00