

AUDITOR OF ACCOUNTS'  
**ANNUAL REPORT**  
OF THE  
RECEIPTS AND EXPENDITURES  
OF THE  
CITY OF BOSTON AND THE COUNTY OF SUFFOLK,  
STATE OF MASSACHUSETTS,  
FOR THE FINANCIAL YEAR  
1870-71.

(No. 59 OF THE SERIES.)

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MAY 1, 1870, TO APRIL 30, 1871.  
(BOTH INCLUDED.)

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CITY DOCUMENT No. 50.



BOSTON:  
ALFRED MUDGE & SON, CITY PRINTERS, 34 SCHOOL STREET.  
1871.

## EXPENSES OF THE DEPARTMENTS.

### FIRE DEPARTMENT.

	1870-71.	1869-70.
Expenses and Salaries,	\$333,891 00	\$286,275 29
Fire-Alarm Department,	51,964 00	24,837 67
Repair of Engine Houses,	32,652 21	33,445 68
	<hr/> \$418,507 21	<hr/> \$344,558 64
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Income, 1870-71, \$3,810 73 ; 1869-70, \$1,729 83.

## CITY EXPENDITURES.

### *Engine and Hose House, East Street.*

Payment to carpenters for the completion of the two-story brick house on East street now occupied by Engine Co. No. 7. [Total cost of land and building, \$24,954.59.]

*Per item No. 25 of Treasurer's account,* 1,157 16

### *Engine House No. 4.*

*By order of the City Council a contract was made for re-building the engine house on the Bridge estate, so called, situated between Court street and Tremont row; after the contractor had commenced work on the building, the City Council ordered the removal of said building and Scollay's building adjoining, and laid the land out as a public street. The payments on account of said re-building were as follows, viz.: —*

Settlement with contractor,	\$3,750 00
Plans and specifications,	250 00
Rent of lodging-room and gas fixtures in temporary house,	87 39
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*Total for Engine House No. 4, as per item No. 28 of Treasurer's account,* 4,087 39

### *Engine House No. 4, Dorchester.*

Payment to contractors for the completion of a brick house with granite trimmings, on Norfolk street, Mattapan, including grading and paving yard,

*Carried forward,* 

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\$2,022,459 69

<i>Brought forward,</i>	\$2,022,459 69
— the building was commenced by the town of Dorchester, previous to the annexation, — now oc- cupied by Engine Co. No. 19,	
<i>Per item No. 26 of Treasurer's account,</i>	5,664 29

### ***Fire Alarm Department.***

*Payments for carrying on the telegraph system of fire  
alarms, including its extension into Dorchester.*

#### **ORDINARY.**

Salaries : John F. Ken-		
nard, Superintendent,	\$2,500 00	
Operators and repairers,	11,282 25	
	<hr/>	\$13,782 25
Gong striking machines and repairing		
all machinery,		2,026 15
Striking machines,		1,800 00
Automatic machines for signal boxes,		1,172 00
Instruments, including repairs,		1,123 68
Repairing belfries, damage by wires, etc.,		1,028 51
Frames for "list of signal boxes,"		619 00
Chemicals,		605 97
Bedding, gas fixtures, furnish-		
ing,	\$429 45	
Washing,	92 15	
	<hr/>	521 60
Iron work, — brackets, etc.,		485 37
Cartage and sundry small items,		375 75
Tools and hardware,		367 56
Wire,		347 64
Printing and stationery,		464 87
Horse and buggy hire for superinten-		
dent,		540 00
Expenses of Committee on Fire Alarm		
Department of 1870, to New York,		
Troy and other places,		500 00
Expenses of Committee on		
Fire Alarm Department :		
of 1870,	\$275 51	
of 1871,	113 35	
Carriage hire : Committee		
of 1870,	77 00	
of 1871,	44 50	
	<hr/>	510 36
<i>Total ordinary expenses,</i>	<hr/>	\$26,220 71
<i>Carried forward,</i>	<hr/>	\$26,220 71 \$2,028,123 98

FIRE DEPARTMENT.

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<i>Brought forward,</i>	\$26,220 71	\$2,028,123 98
<b>EXTENSION INTO DORCHESTER.</b>		
Five bells,	\$5,312 59	
Teaming and hoisting into towers,	480 00	
	<u>          </u>	\$5,792 59
Striking machines,	\$2,160 00	
Signal boxes,	1,450 00	
Gongs, bells in office, etc.,	1,040 20	
Ten pen registrar for office,	335 00	
	<u>          </u>	4,985 20
Wire,		8,933 54
Telegraph poles,	\$2,242 50	
Painting,	963 17	
	<u>          </u>	3,205 67
Labor,		2,698 00
Iron work, hardware, and insulators,		2,022 51
Carpenters' work on towers and machine rooms,		975 41
Hire of horse and wagon, cartage, and small items,		703 69
Expenses of superintendent and assistant to Bangor and other places,		84 50
Horse and buggy hire for superintendent,		52 00
Expenses of Committee on Fire Alarm Department: of 1870,	\$401 20	
Carriage hire of do.,	39 00	
	<u>          </u>	440 20
	<u>          </u>	24,893 31
<i>Total for Fire Alarm Department, as per item No. 30 of Treasurer's account,</i>		51,114 02
<b><i>Fire Department.</i></b>		
<i>Payments for this department; exclusive of the Fire Alarm system, repairs on engine, hook and ladder, and hose carriage houses, viz.:—</i>		
Salaries: John S. Damrell, Chief Engineer,		\$3,000 00
	<u>          </u>	
<i>Carried forward,</i>	\$3,000 00	\$2,079,238 00

<i>Brought forward,</i>	\$3,000 00	\$2,079,238 00
Henry W. Longley, Secretary to Board of Engineers,	1,500 00	
Assistant Engineers,	7,200 00	
Enginemen, firemen and drivers, and officers and members of the various engine, hook and ladder, and hose companies,	177,082 26	
Extra drivers, and extra service of members,	1,853 05	
Inspector of wooden buildings and steam boilers,	1,017 25	
Clerk in office,	928 08	
<i>Total for Salaries,</i>	\$192,580 64	
Repairs of engines, hose and hook and ladder carriages, and fuel wagons,	35,629 01	
Hose, hose pipes and couplings, including repairs,	23,483 71	
New apparatus, viz. :—Two steam fire engines exchanged, \$7,800 00		
Six two wheel hose carriages, 1,275 00		
Three coal wagons, 820 00		
One four wheel hose carriage, 600 00		
One pump with reel, 800 00		
	10,795 00	
Fire hats and badges, including repairs,	3,055 10	
Ladders, rakes, axes, lanterns, etc.,	1,226 20	
Spanners, belts, hose lines, etc.,	343 87	
Hydrant heads,	585 00	
Purchase and exchange of horses,	4,162 50	
Hay, grain, straw,	14,099 52	
Harnesses, blankets, whips,	2,907 84	
Shoeing horses,	2,241 72	
Medical attendance and medicine for horses, including pasturing,	802 35	
Hire of horses and pumps on account of snow, and to replace horses disabled,	455 97	
Furniture, and bedding, ordinary, \$3,523 50		
Refurnishing Engine No. 2, and H. & L. No. 1, 1,242 58		
Engine No. 14, 794 46		
Washing, 1,242 29		
	6,802 83	
Fuel :—for houses, \$2,833 77		
<i>Carried forward,</i>	\$2,833 77	\$299,171 26 \$2,079,238 00

## FIRE DEPARTMENT.

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<i>Brought forward,</i>	\$2,833 77	\$299,171 26	\$2,079,238 00
For engines,	1,964 12		
		4,797 89	
Gas,		3,586 02	
Cartage and expressing,		1,843 26	
Soap, tools, hardware, and small supplies,		1,486 15	
Neatsfoot oil and leather preservatives for hose; sperm oil, and fluids, for engines and lanterns,		1,037 53	
Water rates — houses,		635 00	
Watering streets, ice and small items,		323 62	
Testing engine boilers,		253 00	
Grain chests and small repairs,		188 72	
Damages by apparatus,		161 00	
Bellamy's hose protectors,		285 50	
Connecting steam heaters with engines,		598 69	
Allowance to members for injuries received while in the discharge of their duty,		875 00	
Refreshments for members at fires,		1,233 22	
Hydrants and reservoirs; for use of water at fires,	\$32,994 00		
Hydrants furnished and kept in order under direction Cochituate Water Board,	21,996 00		
Hydrant signs,	1,246 89		
Reservoirs, repairs, covers,	746 55		
		56,983 44	
Printing,		866 33	
Stationery and blank books,		196 95	
Advertising,		131 45	
Expenses of Chief Engineer to Manchester,		41 85	
Repairs on vehicle and harness, shoeing horse, used by Chief Engineer,		273 14	
Parade of the department, September 17, 1870:—			
Collation,	\$2,137 50		
Uniform shirts,	401 28		
Bands of music,	326 00		
Hire of horses and men and small items,	186 00		
<i>Carried forward,</i>	\$3,050 78	\$374,969 02	\$2,079,238 00

<i>Brought forward,</i>	\$3,050 78	\$374,969 02	\$2,079,238 00
Decorating Faneuil Hall,	75 00		
Expenses of Committee,	152 25		
Carriage hire,	46 50		
	<hr/>	3,324 53	
Entertaining visiting fire companies ; carriage hire, and refreshments,		353 75	
Expenses Committee on Fire Depart- ment of 1870, entertaining visitors from other places,		1,190 40	
Expenses Committee on Fire Department: —			
of 1870,	\$2,954 81		
of 1871,	99 60		
Carriage hire, committee of 1870,	391 00		
	<hr/>	3,445 41	
<i>Total for Fire Department,</i>			383,283 11
<i>Per item No. 29 of Treasurer's account,</i>	\$383,275 53		
<i>Add amount drawn by Auditor, but not paid,</i>		7 58	
		<hr/>	
		<u>\$383,283 11</u>	

## CITY INCOME.

*Fire Alarm Department.*

Sale of old material,	75 00
<i>Per item No. 143 of Treasurer's account.</i>	

*Fire Department.*

Sales of: — engines and old material,	\$2,546 73	
Horses,	475 00	
Manure,	321 00	
	<hr/>	\$3,342 73
Boarding horses — insurance brigade,	348 00	
Use of engines,	45 00	
	<hr/>	3,735 73
<i>Per item No. 142 of Treasurer's account.</i>		
<i>Carried forward,</i>		<hr/>
		\$7,918,165 56

## FIRE DEPARTMENT.

STEAM FIRE ENGINES. — Twenty-one, located as follows, viz.: six in city proper, three in East Boston, three in South Boston, three in Boston Highlands, and six in Dorchester.

HORSE HOSE CARRIAGES. — Fourteen located as follows, viz.: seven in city proper; one in East Boston; two, South Boston; four, Boston Highlands; five of which are located in Engine houses.

HOOK AND LADDER CARRIAGES. — Seven located as follows: two

in city proper ; one in East Boston ; one in Boston Highlands ; one in South Boston, and two in Dorchester.

**HORSES.** — Seventy-three.

**FUEL WAGONS.** — One fuel wagon, kept at the Hose-house in North Grove street ; one at the old Hose-house, on Salem street ; one at Engine-house, No. 11 on Sumner street, East Boston ; one at Engine-house, No. 14 on Centre street, Boston Highlands ; one at Engine-house, No. 13 on Cabot street, Boston Highlands ; one at Engine-house No. 16, Lower Mills, Dorchester, one at Engine-house No. 17, Meeting House Hill, Dorchester, one at Hook and Ladder-house No. 5, South Boston, each capable of conveying about two tons to be used in case of large fires, when more fuel is needed than is carried on the engines.

**FIRE HOOKS.** — Fourteen.

**FIRE LADDERS.** — Two hundred, of different sizes.

**HOSE.** — About 46,000 feet of leading, and 500 feet suction.

**STEAM FIRE ENGINE HOUSES.** — Eighteen, located as follows, viz. :

Corner of Fourth and Dorchester streets, S. B. ; Fourth, near K street, S. B. ; Washington, near Dover street ; Marion street, E. B. ; Wall street ; East street ; Paris street, E. B. ; Mount Vernon street, corner of River ; Sumner, corner of Orleans street ; Warren street, Boston Highlands ; Cabot street, do. ; Centre street, do. ; Temple street, Milton Lower Mills, Dorchester ; Meeting House Hill, do. ; Harvard street, Mount Bowdoin, do. ; Norfolk street, Mattapan, do. ; Walnut street, Neponset, do. ; Boston street, Upham's corner, do.

(Engine No. 4 is temporarily located in a stable on Bulfinch street. Engine No. 8 is located in Hose-house No. 1 and Engine No 15 is temporarily located in Hook and Ladder-house No. 5.)

**HOSE CARRIAGE HOUSES.** — Ten, located as follows, viz. : Salem street ; Hudson street ; North Grove street ; Northampton street ; Shawmut avenue ; Chelsea street, E. B. ; Church street ; B street, S. B. ; Dorchester street, Washington Village, S. B. ; Cabot street, B. H.

**HOOK AND LADDER HOUSES.** — Six, located as follows, viz. : Harrison avenue, corner of Wareham street ; Friend street ; Sumner street, corner of Orleans, East Boston ; Eustis street, Boston Highlands ; Fourth street, So. Boston ; Meeting House Hill, Dorchester.



**SPARE APPARATUS.** — Five Steam Fire Engines ; one Hand Engine at Deer Island ; there is one Hose Carriage, with 400 feet of hose, located on the Mill-dam. This hose is only used by the residents of that part of the city. Also one Hose Carriage in House No. 1, Salem street, with 1,000 feet of hose, and one in Hook and Ladder House, Harrison avenue, with 1,000 feet of hose. One at South City stable, and one at City Hospital. There are in Ward 16, four Hand Engines, formerly the property of the town of Dorchester.

**RESERVOIRS.** — One hundred and eighty-one, of which thirteen are located at East Boston, eighteen at South Boston, fifty-one at Boston Highlands, and the balance in the different Wards of the city. They contain from 15,000 to 55,000 gallons each, and are mostly supplied with the Cochituate water.

**THE ENGINES, HOSE, CAPS, AXES, LADDERS,** and all the other apparatus used by the Fire Department, are owned by the city, and are under the care and control of the Chief Engineer of the Fire Department.

**HYDRANTS.** — For supplying water in cases of fire, 2,097, viz. : in the city proper, 1,100 ; at South Boston, 362 ; at East Boston, 205 ; at Boston Highlands, 416, and 14 Lowry hydrants in Dorchester ; an increase of 150 in all, over last year. The hydrants are located at an average distance of 250 feet from each other.

The Annual Report of the Chief Engineer of the Fire Department, for 1870, gives a full and particular description of the property under his charge, December 31, 1870.

#### TELEGRAPHIC FIRE ALARM.

*The following property is in charge of the Superintendent :*

**MAGNETIC FIRE ALARM APPARATUS,** the whole cost of which is over \$80,000.

**WORKING LINES OF WIRE,** about 100 miles.

**SIGNAL BOXES** in use, 151.

**STRIKING MACHINES,** 42.

**ENGINE-HOUSE ALARM GONGS,** 38.

**ENGINEERS' GONGS,** 16.

**CLOCKS.** — One electric watch clock ; one repeating three dial clock, for striking signals.

MAGNETO-ELECTRIC MACHINE, for striking bells, 1.

RELAY MAGNETS, 11.

TEN PEN REGISTER, 1.

OFFICE BELLS, 13.

TELEGRAPH KEYS, 11.

STOCK AND FURNITURE. — 1 switch-board ; 1 large galvanometer for spare and local battery ; 1 do., for testing purposes ; 10 small do., for signal batteries ; 1 rheostat for measuring circuits ; 1 chronometer ; 1 set telegraphic apparatus in Superintendent's house ; 4 sets telegraphic apparatus in assistants' houses ; 3 miles new iron wire ; 300 insulators ; 200 iron brackets ; 1,000 lbs. zinc ; 1,000 sulphate of copper ; 600 porous cups for batteries ; lot of old machinery and old iron, useless except for repairing other machinery, or to sell as old material ; office furniture, bedsteads, bedding, and sundry other articles.