

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
1871-72.

(No. 60 OF THE SERIES.)

MAY 1, 1871, TO APRIL 30, 1872.

(BOTH INCLUDED.)

CITY DOCUMENT.—NO. 63.

BOSTON:
ROCKWELL & CHURCHILL, CITY PRINTERS,
122 WASHINGTON STREET.
1872.

EXPENSES OF THE DEPARTMENTS.

FIRE DEPARTMENT.

	1871-72.	1870-71.
Expenses and Salaries,	\$399,249 63	\$333,891 00
Fire-Alarm Department,	42,763 89	51,964 00
Repair of Engine Houses,	26,829 98	32,652 21
	<u>\$468,843 50</u>	<u>\$418,507 21</u>

Income, 1871-72, \$2,472 10; 1870-71, \$3,810 73.

CITY EXPENDITURES.

Engine and Hose House, Tremont Street.

Payments for erecting a two-story brick building, with Mansard roof, on Tremont Street and Cabot Street, now occupied by Hose Company No. 7. [Total cost of building and land, \$29,967 24.]

Contractors: — for masonry-contract,	\$8,875 00		
Extra work and material, including yard wall,	1,535 95		
	<u>\$10,410 95</u>		
Carpenter-contract	\$8,300 00		
<i>Carried forward,</i>	\$8,300 00	\$10,410 95	\$1,185,077 46
<i>Brought forward,</i>	\$8,300 00	\$10,410 95	\$1,185,077 46
Extra work and material, including finishing rear house,	1,526 10		
	<u>9,826 10</u>		
Plans and specifications,	429 37		
Heating apparatus,	187 96		
Paper hanging, marble mantel and centre piece,	182 76		
Lines and hooks in hose tower, fuel, printing and advertising,	143 10		
Commission for bonding and purchasing land,	87 00		
	<u>21,267 24</u>		
<i>Total for Engine and Hose House, Tremont Street, as per item No. 26 of Treasurer's account,</i>			21,267 24

Engine House No. 4, etc.

Payments on account of the building proposed to be erected on the Smith estate, Bulfinch Street, for Engine Co. No. 4, a Hose Company and an Armory for the National Lancers.

Plans and specifications,	\$1,200 00	
Advertising and printing,	97 04	
	<u>1,297 04</u>	
<i>Total for Engine House No. 4, etc., as per item No. 27 of Treasurer's account,</i>		1,297 04

Engine House No. 15.

Payments for the land on Dorchester Avenue and Broadway, and the erection thereon of a two-story brick building, with a Mansard roof — occupied by Engine Co. No. 15.

Land,	\$6,396 75	
Contractors: — Mason-con-		
tract,	9,298 00	
Sub contract for retaining		
wall,	1,225 00	
Extra work and materials,		
including fence and side-	956 62	
walk,		
	<hr/> 11,479 62	
Carried forward,	\$17,876 87	\$1,207,641 74

Brought forward,	\$17,876 87	\$1,207,641 74
Carpenter-contract,	\$7,500 00	
Extra work and material,	291 50	
	<hr/> 7,791 50	
Plans and specifications,	425 00	
Ventilators, paper-hangings and marble		
mantel,	320 76	
Heating apparatus,	175 40	
Fuel, fixtures for hose-tower, advertis-		
ing and printing,	227 41	
	<hr/>	
Total for Engine House No. 15, as per item No. 28		
of Treasurer's account,		26,816 44

Fire Alarm Department.

Payments for carrying on the telegraph system of Fire Alarm.

Salaries: John F. Ken-		
nard, Superintendent,	\$3,000 00	
Operators and repairers,	14,521 00	
	<hr/> 17,521 00	
Laborers,	1,082 00	
Bells,	5,785 78	
Wire, including cable to East Boston,	3,843 03	
Gong striking and automatic ma-		
chines, including repairs of all ma-		
chinery,	2,458 81	
Striking machines for bells,	2,330 00	
Repairs and alterations, belfries,		
weight-boxes and damages to build-		
ings,	1,910 62	
Chemicals,	790 68	
Iron work — brackets and tripods,	600 09	
Instruments,	381 00	
Hardware and tools,	257 81	
Hire of horse and wagon,	577 00	
Cartage, signs and small items,	552 09	
Tug-boats — East Boston cable,	254 00	
Frames for "list of signal boxes,"	200 00	
Hoisting bells into towers,	176 00	
Washing and furnishing, for sleeping-		
rooms, Central office, City Hall,	143 48	
Purchase and exchange of horse, buggy,		
harness, sleigh and robes — board		
and shoeing horse,	2,162 83	
	<hr/>	
Carried forward,	\$41,026 22	\$1,234,458 18

<i>Brought forward,</i>	\$41,026 22	\$1,234,458 18
Printing,	372 98	
Stationery and blank-books,	87 48	
Expenses of Committee on Fire Alarm Department:		
of 1871 — Refreshments, \$1,061 61		
Carriage hire,	123 75	
	<hr/>	1,185 36
Of 1872 — Refreshments,	\$87 85	
Carriage hire,	4 00	
	<hr/>	91 85
<i>Total for Fire Alarm Department, as per item No. 30 of Treasurer's account,</i>		42,763 89

Fire Department.

Payments for this department ; exclusive of the Fire Alarm system, repairs on Engine, Hook and Ladder, and Hose carriage houses, viz. : —

Salaries : John S. Damrell, Chief Engineer,	\$3,300 00	
Henry W. Longley, Secretary to Board of Engineers,	1,800 00	
Assistant Engineers,	6,750 00	
Enginemmen, firemen and drivers, and officers and members of the various engine, hook and ladder, and hose companies,	198,070 48	
Extra drivers, and extra service of members,	2,438 74	
Clerk in office,	939 00	
Inspector of wooden buildings and steam boilers, two months,	169 00	
<i>Total for Salaries,</i>	<hr/>	\$213,467 22
Repairs of engines, hose and hook and ladder carriages, and fuel wagons,	39,142 82	
Hose, hose pipes and couplings, including repairs,	28,208 40	
Fire hats and badges, including repairs,	1,903 79	
Ladders, rakes, axes, lanterns, etc.,	1,101 31	
Spanners, belts and hose lines,	471 25	
Hose carriage,	250 00	

<i>Carried forward,</i>	<hr/>	<hr/>	\$284,544 79	\$1,277,222 07
-------------------------	-------	-------	--------------	----------------

FIRE DEPARTMENT.

87

<i>Brought forward,</i>		\$284,544 79	\$1,277,222 07
Hay, grain and straw,		14,960 86	
Harnesses, including repairs, blankets and whips,		3,799 55	
Horses,		2,125 00	
Shoeing horses,		2,441 73	
Medical attendance and medicine for horses,		661 18	
Hire of horses and pungs on account of snow, and to replace horses disabled,		159 50	
Harness, repairs of vehicle and harness, and shoeing horse used by Chief Engineer,		251 00	
Furniture and bedding,	\$3,829 87		
Washing,	1,293 22		
		5,123 09	
Fuel — for houses,	\$3,063 89		
For engines,	1,111 39		
		4,175 28	
Gas,		3,780 65	
Supplies, tools and hardware,		2,483 45	
Cartage, expressing and freight,		1,541 44	
Oils and leather preservatives for hose ; sperm oil, and fluids, for engines and lanterns,		814 21	
Water rates — houses,		620 00	
Small repairs and signs,		492 98	
Chemicals for fire extinguishers,		215 50	
Damages by apparatus, tolls and small items,		211 51	
Allowance to members for injuries received while in the discharge of their duty,		700 00	
Refreshments for members at fires,		381 14	
Hydrants and reservoirs : —			
for use of water at fires,	\$35,838 00		
Hydrants furnished and kept in order under direction Cochituate Water Board,	23,892 00		
Hydrant signs,	1,204 57		
Reservoirs repairs, covers, and signs,	784 44		
		61,719 01	
Printing,		788 77	
<i>Carried forward,</i>		\$391,990 64	\$1,277,222 07

<i>Brought forward,</i>	\$391,990 64	\$1,277,222 07
Advertising,	260 54	
Stationery and blank books,	198 25	
Parade of the department,		
September 18, 1871:—		
Collations,	\$2,392 50	
Bands of music,	486 00	
Horse killed—hired for a relief, and injured in engine house,	350 00	
Hire of horses and men and small items,	282 68	
Music Hall, rent and gas,	195 05	
Decorating Music Hall,	75 00	
Refreshments for Committee,	36 00	
Carriage hire,	11 00	
	<hr/>	3,828 23
Expenses sub-committees and Chief Engineer to Chicago, Portland, Manchester and Fitchburg,		380 75
Expenses Committee on Fire Department: of 1871—		
Refreshments,	\$1,965 87	
Carriage hire,	398 95	
	<hr/>	2,364 82
Of 1872, Refreshments,	\$216 90	
Carriage hire,	9 50	
	<hr/>	226 40
<i>Total for Fire Department, as per item No. 29 of Treasurer's account,</i>		399,249 63

Smith Estate, Bulfinch Street.

Payment for the estate purchased of J. B. Smith, on Bulfinch street, on which is to be erected a building to contain an Armory for Company A, First Batt. Cavalry, M.V.M. (National Lancers), and accommodations for S. F. Engine No. 4, and other fire apparatus,

55,000 00,

Per item No. 91 of Treasurer's account.

CITY INCOME.

Fire Alarm Department.

From Police Department—proportional cost of East Boston cable,

700 00

Per item No. 195 of Treasurer's account.

Fire Department.

Sales of:—hose,	\$403 10	
Horses,	248 50	
Manure.	180 00	
	<hr/>	\$831 60
Use of engines,		494 50
Boarding horses—insurance brigade,		446 00
<i>Per item No. 143 of Treasurer's account.</i>	<hr/>	1,772 10
<i>Carried forward,</i>		<hr/> \$3,569,301 04

CITY PROPERTY.

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. — Seventeen, located as follows, viz.: seven in city proper; two in East Boston; two in South Boston; four in Boston Highlands, and two in Dorchester; seven 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-seven.

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 Summer 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; one at Engine-house No. 21, Ward 16, 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 LADDERS. — Four hundred of different sizes.

HOSE. — About 50,000 feet of leading, and 600 feet suction.

STEAM FIRE ENGINE HOUSES. — Twenty, located as follows, viz.: Corner of Fourth and Dorchester streets, S. B.; Fourth, near K street, S. B.; Washington, near Dover street; Bulfinch 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., corner Broadway and Dorchester avenue, South Boston ; 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. 8, is located in Hose-house No. 1, on Salem street.

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. ; Tremont 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 ; Five Hand Engines, one located at Deer Island with 600 feet of cotton hose. 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.

RESERVOIRS. — One hundred and eighty-one, of which thirteen are located at East Boston, eighteen at South Boston, fifty-one at Boston Highlands, eleven in the Dorchester District, 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, 2,375, viz. : in the city proper, 1048 ; at South Boston, 382 ; at East Boston, 221 ; at Boston Highlands, 484, and 240 Lowry Hydrants in Dorchester ; an increase of 278 in all, over last year. The hy-

drants are located at an average distance of 250 feet from each other.

The Annual Report of the Chief Engineer of the Fire Department, for 1871, gives a full and particular description of the property under his charge, December 31, 1871.

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, 157.

STRIKING MACHINES, 44.

LARGE GONGS, 34.

SMALL GONGS, 53.

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 lbs. 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.

BELLS.

Faneuil Hall, Steel, 5,816 lbs. (city property).

Bowdoin square Church, composition, 3,882 lbs.

- King's Chapel, corner Tremont and School sts., composition, 2,800 lbs.
- St. Stephen's Church, corner Hanover and Clark sts., composition, 1,961 lbs.
- St. Mary's Church, corner Endicott and Cooper sts., composition, 1,451 lbs.
- Dean School House, Wall st., composition, 712 lbs. (city property).
- Charles street Church, composition, 1,883 lbs.
- Church street Church, composition, 1,059 lbs.
- Tremont M. E. Church, corner Tremont and Concord sts., steel, 3,324 lbs.
- Boylston Market, corner Washington and Boylston sts., composition, 529 lbs. (city property).
- Old Franklin School, Washington, near Dover st., composition, 818 lbs. (city property).
- Ticknor School House, Washington Village, steel, 2,995 lbs. (city property).
- Chapman School House, Eutaw st., East Boston, steel, 3,109½ lbs. (city property).
- Adams School House, Sumner st., East Boston, steel, 2,995 lbs., (city property).
- Saratoga M. E. Church, East Boston, steel, 1,961 lbs. (city property).
- Lawrence School House, B st., So. Boston, steel, 3,400 lbs. (city property).
- Channing School House, East st., steel, 1,363 lbs. (city property).
- Engine House No. 11, Orleans st., corner Sumner, East Boston, composition, 817 lbs. (city property).
- Berkeley st. Church, composition, 2,538 lbs.
- Hose House No. 2, Hudson st., composition, 800 lbs. (city property).
- Old Phillips School House, Anderson, corner Pinckney st., composition, 900 lbs. (city property).
- Hollis st. Church, composition, 1,800 lbs.
- Everett School House, Northampton st., composition, 1,501 lbs. (city property).

- Lincoln School House, Broadway, South Boston, composition, 3,110 lbs. (city property).
- Maverick St. Catholic Church, East Boston, composition, 2,000 lbs.
- Castle St. Church, corner Washington and Castle sts., composition, 1,760 lbs. (city property).
- Shawmut avenue Church, composition, 1,909 lbs.
- Wells School House, Blossom st., composition, 1,675 lbs. (city property).
- St. Stephen's Church, Purchase st., composition, 515 lbs.
- Engine House No. 12, Warren st., B. H., composition, 3,509 lbs. (city property).
- Engine House No. 16, Temple st., Dorchester, composition, 4,149 lbs. (city property).
- Engine House No. 18, Harvard st., Dorchester, composition, 3,184 lbs. (city property).
- Engine House No. 20, Walnut st., Dorchester, composition, 3,061 lbs. (city property).
- Engine House No. 21, Boston st., Dorchester, composition, 3,026 lbs. (city property).
- Hook and Ladder House No. 3, corner Harrison Avenue and Wareham st., steel, 1,000 lbs. (city property).
- Engine House No. 1, Dorchester st., South Boston, composition, 2,911 lbs. (city property).
- Lewis School House, Dale st., B. H. composition, 3,104 lbs. (city property).
- Old South church, corner Washington and Milk streets, composition, 1,700 lbs.
- George st. School House, B. H., composition, 4,160 lbs., (city property).
- Smith st. School House, B. H., composition, 4,803 lbs. (city property).
- Franklin Place School House, corner Tremont st. and Franklin pl. B. H., composition, 2,958 lbs. (city property).
- Engine House, No. 19, Mattapan, Dorchester, composition, 2,827 lbs. (city property).
- Engine House No. 17, Meeting House Hill, Dorchester, composition, 4,000 lbs. (city property).