

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**

**1877-78.**

(No. 66 OF THE SERIES.)

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**MAY 1, 1877, TO APRIL 30, 1878.**

(BOTH INCLUDED.)

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**CITY DOCUMENT No. 55.**



**BOSTON :**  
**ROCKWELL AND CHURCHILL, CITY PRINTERS,**  
**No. 39 ARCH STREET.**  
**1878.**

## FIRE DEPARTMENT.

*The following property is in the charge of the Board of Commissioners of the Fire Department:—*

## ENGINE HOUSES.

	<i>Location.</i>	<i>No. of feet in lot.</i>	<i>Remarks.</i>
No. 1 . . .	Dorchester street . . . . .	5,698	Addition built, 1874. Municipal Court, S. Boston, armory, and two classes Bigelow School, in this building.
2 . . .	Fourth street . . . . .	3,101	Remodelled, 1870.
3 . . .	Bristol st. and Harrison ave. .	4,000	H. & L. No. 3 in this building.
4 . . .	Bulfinch street . . . . .	6,098	Chemical Engine No. 1 and Lan- cers' Armory in this building.
5 . . .	Marion street . . . . .	1,647	
6 . . .	Wall street . . . . .	1,372	
7 . . .	East street . . . . .	1,803	
8 . . .	Salem street . . . . .	2,568	
9 . . .	Paris street . . . . .	4,000	
10 . . .	River street . . . . .	1,836	
11 . . .	Sumner street . . . . .	4,010	Remodelled, 1870. Hook & Ladder No. 2 in this building.
12 . . .	Cor. Winslow and Dudley sts.	3,923	
13 . . .	Cabot street . . . . .	4,305	Remodelled, 1870.
14 . . .	Centre street . . . . .	5,627	
15 . . .	Dorchester avenue . . . . .	2,343	
16 . . .	River street, Dorchester Dist.	12,736	Hook & Lad'r No. 6 in this building.
17 . . .	Meeting-House Hill . . . . .	10,225	Old Engine-house on this lot.
18 . . .	Harvard street . . . . .	7,683	
19 . . .	Norfolk street . . . . .	9,000	
20 . . .	Walnut st., Dorchester Dist.	9,355	
21 . . .	Boston street . . . . .	4,463	
22 . . .	Dartmouth street . . . . .	3,445	
23 . . .	Northampton street . . . . .	4,186	
24 . . .	Cor. Warren and Quincy sts.	4,175	H'k & Lad'r No. 8 in this building.
25 . . .	Fort Hill square . . . . .	6,385	Altered from School-house.
26 . . .	Mason street . . . . .	2,600	Armory in this building.
27 . . .	Elm street, Charlestown Dist.	10,377	H'k & Lad'r No. 10 in this building.
28 . . .	Centre street, West Roxbury District . . . . .	14,356	H'k & Lad'r No. 11 in this building.
29 . . .	Chestnut-Hill ave., Brighton District . . . . .	14,729	Occupied by Chemical Eng. No. 4.
	Poplar st., cor. Washington, West Roxbury . . . . .	3,848	Occupied by Chemical Eng. No. 5.
	Washington street, between Atherton and Beethoven .	6,112	Occupied by Chemical Eng. No. 6.
	Harvard ave., near Cambridge st., Brighton Dist. . . . .	16,275	Occupied by Chemical Eng. No. 7.
	Mt. Vernon street, West Roxbury District . . . . .	1,682	
	Centre st., near Highland sta- tion, West Roxbury Dist. .		

## HOSE HOUSES.

	<i>Location.</i>	<i>No. of feet in lot.</i>	<i>Remarks.</i>
No. 2 . . .	Main st., Charlestown Dist. .	1,592	
3 . . .	Winthrop street, " . . . .	5,230	Armory in building.
4 . . .	Bunker Hill street, cor. Tufts st., Charlestown Dist. . . .	889	See Bunker-hill st. School-house.
5 . . .	Shawmut avenue . . . . .	1,346	
6 . . .	Chelsea street . . . . .	4,350	
7 . . .	Tremont street . . . . .	3,918	
8 . . .	North Grove street . . . . .	1,804	
9 . . .	B street . . . . .	1,610	
10 . . .	Washington Village . . . . .	4,000	Bell-tower erected in 1873.
12 . . .	Cor. of O and Fourth streets Cor. Longwood and Brookline avenues . . . . .	5,400	Occupied by Chem. Engine Co. No. 3. { Ward-room No. 11 in this b'lding.
	Church street . . . . .	3,412	{ Chem. Engine No. 2 in this b'lding.

HOOK AND LADDER HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Friend street . . . . .	1,676	
4 . . .	Dudley street . . . . .	7,161	
5 . . .	Fourth street . . . . .	2,469	
7 . . .	Meeting-House Hill . . . . .	2,430	
9 . . .	Main street, Charlestown . . . . .	3,755	Hose No. 1 in this building. Formerly occupied by H. & L. No. 3.
	Harrison avenue . . . . .	700	Now used as a repair-shop.
	Eustis street . . . . .		Formerly occupied by H. & L. No. 4.

Fuel House, Salem street, 417 feet of land.  
" " Washington street, near Dover, 1,007 feet of land.

STEAM FIRE ENGINES. — Twenty-nine, located as follows: nine in city proper; three in East Boston; three in South Boston; five in Roxbury District; six in Dorchester District; and one each in Charlestown, West Roxbury, and Brighton Districts.

FIRE BOAT. — One, located north side Central wharf.  
HORSE HOSE CARRIAGES. — Thirty located as follows, viz.: twelve in city proper; two in East Boston; three in South Boston, four in Roxbury District; two in Dorchester District; five in Charlestown District; one in West Roxbury District; and one in Brighton District; seventeen of which are located in engine-houses.

HOOK AND LADDER CARRIAGES. — Eleven located as follows, viz.: three in city proper; one in East Boston; one in Roxbury District; one in South Boston; two in Dorchester District; and one each in Charlestown, West Roxbury, and Brighton Districts.

CHEMICAL ENGINES. — Seven self-acting, located as follows: two in the city proper; one in Roxbury District; three in West-Roxbury District, and one in Brighton District.

PORTABLE EXTINGUISHERS. — Carried on four of the Hook and Ladder Carriages.

HORSES. — One hundred and thirty-seven.  
FUEL WAGONS. — One fuel wagon kept at the old Hose-house, on Salem street; one at Engine-house No. 25, Fort Hill square; one at Engine-house No. 11, on Sumner street, East Boston; one at Engine-house No. 13, on Cabot street, Roxbury District; one at Engine-house No. 16, Lower Mills, Dorchester District, one at Engine-house No. 21, Upham's corner, Dorchester District; one at coal depot No. 2, Washington near Dover street; one at Hook and Ladder House No. 5, South Boston; one at Engine-house No. 19, Mattapan, Dorchester District; one at Engine-house No. 20, Neponset, Dorchester District; one at Engine-house No. 4, Bulfinch street; one at Engine-house No. 23, Northampton street; one at Engine-house No. 18, Harvard street, Dorchester District; one at Engine-house No. 24, Warren street, Roxbury District; one at Engine-house No. 27, Charlestown District; one at Engine-house No. 28, West Roxbury District; one at Engine-house No. 10; and one at Engine-house No. 26, 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.

**WAGONS.** — Six Engineers', four supply (two in service and two in reserve), one commissioners' buggy.

**PUMPS.** — Thirty-five; thirty-three for carrying hose, and two for jobbing. Engineers' sleighs, five.

**FIRE LADDERS.** — Two hundred and eighty-two of different sizes, one Skinner Ladder Truck, with four Ladders. One aerial ladder and seven patent Bangor ladders.

**HOSE.** — About 70,000 feet of leading, and 1,000 feet suction.

**SPARE APPARATUS.** — Two Steam Fire Engines, one Small Hose jumper at Deer Island and 850 feet cotton Hose; also one Hose Carriage in Engine-house No. 25, and one at Apparatus Repair Shop, Harrison avenue, with 450 feet hose; one in building owned by O. Nawn on Nawn street; one Hand Hose Carriage at Engine-house No. 8, Salem street, also one Hand Engine and one Chemical Engine at the house of Hose 7, Tremont street.

**RESERVOIRS.** — Two hundred and forty-four, of which thirteen are located at East Boston, eighteen at South Boston, forty-one in Roxbury District; eleven in the Dorchester District; thirty-eight in Charlestown District; twenty-two in West Roxbury District; three in Brighton District, and the balance in the different wards of the city proper. They contain from 15,000 to 55,000 gallons each, and are supplied with the Cochituate and Mystic water, except in West Roxbury and Brighton Districts.

**REPAIR SHOP.** — In the repair shop, one 15-horse power steam-engine, cylinder, 9 by 31 inches, Putnam Machine Co.; one 20-horse power upright tubular boiler; one 26-inch by 26-inch iron planer, 8-ft. table, 12-ft. bed; one 24-inch swing engine lathe, 10-ft. bed; one 16-inch swing engine lathe, 9½-ft. bed; two 14-inch swing engine lathes, 6-ft. bed; one 13-inch swing hand lathe, 7½-ft. bed; one 13-inch swing hand lathe, 9-ft. bed; one No. 2 upright drill; one Sturtevant Pressure Blower; three blacksmith's forges; one furnace for heating tires, together with numerous smaller tools and appliances, and also tools for repairing hose and harness.

**THE ENGINES, HOSE, HATS, 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 Board of Fire Commissioners.

**HYDRANTS.** — For supplying water in cases of fire, 4,189, viz.: in the city proper, 1,287; in South Boston, 476; in East Boston, 287; in Roxbury District, 769; in Dorchester District, 629; West Roxbury District, 278; Brighton District, 189; in Charlestown District, 208; and 16 on Deer Island. The hydrants are located at an average distance of 250 feet from each other.

#### TELEGRAPHIC FIRE ALARM.

**Magnetic Fire-Alarm Apparatus,** the whole cost of which is over \$100,000. Working lines of wire, about 250 miles; Signal Boxes in use, 266; Striking Machines, 52; Large Gongs, 60;

Small Gongs, 42; Tappers, 60; Vibrators, 15; Clocks — one electric watch-clock; two repeating three dial clocks for striking signals; Magneto-Electric Machine, for striking bells, 1, loaned to Tufts College; Relay Magnets, 15; Ten Pen Register, 1; Office Bells, 17; Telegraph Keys, 18; Dial instruments, 16; 13 Sounders and Keys, in charge of District Engineers.

STOCK AND FURNITURE. — 1 switch board; 1 large galvanometer; 15 small do., for signal batteries; 2 portable rheotropes; 1 chronometer; 1 set telegraphic apparatus in Superintendent's house; 4 sets telegraphic apparatus in assistants' houses; 2 repeating instruments; 1 small switch board; 870 cups, battery in use; 900 lbs. sulphate of copper; 300 lbs. zinc; 200 battery coppers; 200 lbs. sulphate of zinc; brackets, wire insulators, etc.; office furniture, bedsteads, bedding, and sundry other articles.

#### BELLS.

Faneuil Hall, steel, 6,816 lbs.

Boylston market, corner Washington and Boylston streets, composition, 529 lbs.

Boylston School-house, Washington, near Dover street, composition, 818 lbs.

Castle-street Church, corner Washington and Castle streets, composition, 1,760 lbs.

Saratoga street M. E. Church, East Boston, steel, 1,968 lbs.

Adams School-house, Sumner street, East Boston, steel, 2,995 lbs.

Chapman School-house, Eutaw street, East Boston, steel, 3,809½ lbs.

Dean School-house, Wall street, composition, 712 lbs.

Hose No. 12, South Boston, composition, 800 lbs.

Princeton street School-house, East Boston, composition, 2,470 lbs.

Everett School-house, Northampton street, composition, 1,501 lbs.

Franklin place School-house, corner Tremont street and Franklin place, Roxbury District, composition, 2,958 lbs.

George street School-house, Roxbury District, composition, 4,160 lbs.

Lawrence School-house, B street, South Boston, steel, 3,400 lbs.

Lewis School-house, Dale street, Roxbury District, composition, 3,104 lbs.

Engine-house No. 29, Chestnut Hill avenue, Brighton District, steel, 1,535 lbs.

Chemical Engine-house No. 6, Harvard avenue, Brighton District, composition, about 400 lbs.

Lincoln School-house, Broadway, South Boston, composition, 3,110 lbs.

Quincy School-house, Tyler street, composition, 2,941 lbs.

Rice School-house, Appleton street, composition, 3,042 lbs.

Sharp School-house, Anderson, corner Pinckney street, composition, 900 lbs.

Smith street School-house, Roxbury District, composition, 4,083 lbs.

Andrew School-house, Dorchester street, Washington Village, steel, 2,995 lbs.

Wells School-house, Blossom street, composition, 1,675 lbs.

Engine-house No. 1, Dorchester street, South Boston, composition, 2,911 lbs.

Engine-house No. 11, Orleans, corner of Sumner street, East Boston, composition, 817 lbs.

Engine-house No. 12, Warren street, Roxbury District, composition, 3,509 lbs.

Engine-house No. 16, Temple street, Dorchester District, composition, 4,149 lbs.

Engine-house No. 17, Meeting House Hill, Dorchester District, composition, 4,000 lbs.

Engine-house No. 18, Harvard street, Dorchester District, composition, 3,184 lbs.

Engine-house No. 19, Mattapan, Dorchester District, composition, 2,927 lbs.

Engine-house No. 20, Walnut street, Dorchester District, composition, 3,061 lbs.

Engine-house No. 21, Boston street, Dorchester District, composition, 3,026 lbs.

Hancock School-house, Parmenter street, composition, 4,090 lbs.

Repair shop, corner of Harrison avenue and Wareham street, steel, 1,000 lbs.

City Hall, Charlestown District, composition, 5,600 lbs.

Rubber Factory, Charlestown District, composition, 999 lbs.

Bunker Hill School-house, Charlestown District, 2,009 lbs.

Warren School-house, Charlestown District, composition, 3,000 lbs.

Chemical Engine-house No. 4, composition 470 lbs.

Chemical Engine-house No. 7, composition 300 lbs.

Frothingham School-house, Charlestown District, composition, 3,000 lbs.

Engine-house, Centre street, West Roxbury District, composition 4,000 lbs.

#### PUBLIC CLOCKS.

Andrew School-house, South Boston.

Bennett School-house, Brighton District.

Bigelow School-house, corner Fourth and E streets, South Boston.

Boston Young Men's Christian Union Building, Boylston street.

Charles-street Church.

Christ Church, Salem street.

City Hall, Charlestown District.

Dudley street, Roxbury District.

Gaston School-house, South Boston.

High School, Charlestown District.

Lincoln School-house, Broadway, South Boston.

Lynde-street Church, corner Lynde and Cambridge streets.  
 Methodist Church, Winthrop street, Roxbury District.  
 Metropolitan Stables, Tremont street, Roxbury District.  
 Odd Fellows' Building, Tremont street.  
 Old State House, State street.  
 Old South Church, Washington street, corner Milk.  
 South Evangelical Church, West Roxbury District.  
 Phillips Church, Broadway, South Boston.  
 St. Stephen's Church, corner of Hanover and Clark streets.  
 Suffolk County Jail, Charles street.  
 Tremont M.E. Church, corner Tremont and Concord streets.  
 Warren-street M.E. Church, Roxbury District.

**FIRE DEPARTMENT.**

	1877-78.	1876-77.
Expenses and Salaries,	\$550,999 00	\$560,052 76
Fire Alarm Telegraph,	<sup>1</sup> 18,146 18	<sup>1</sup> 27,272 35
Bells and Clocks,	2,481 25	2,995 62
Repairs of buildings,	4,060 44	5,523 44
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	\$575,686 82	\$595,844 17
	<hr/>	<hr/>

Income, 1877-78, \$5,671 50 ; 1876-77, \$4,024 53.

<sup>1</sup> Extension to Brighton included.

***Fire-Alarm Telegraph.***

*Payments for carrying on the telegraph system of  
Fire Alarms.*

Salaries : — John F. Kennard, Super- intendent,	\$2,300 00	
Operators and repairers,	9,894 43	
	<hr/>	\$12,194 43
Iron-work, tools, hardware and sup- plies,		1,981 10
Chemicals,		712 35
Board of and shoeing horses, and repairs of vehicles and harnesses,		531 46
		<hr/>
Carried forward,	\$15,369 84	\$5,924,234 58

FIRE DEPARTMENT.

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<i>Brought forward,</i>	\$15,369 84	\$5,924,234 58
Wire,	498 40	
Damages to roofs,	477 66	
Horse and wagon hire, car fares and tolls,	876 91	
Instruments and repairs,	318 75	
Repairs of cupola Charles-street Bap- tist Church,	100 00	
Printing,	98 56	
Poles,	60 00	
Use of structure for wires on Chel- sea Bridge during the rebuilding,	50 00	
Washing,	36 79	
Stationery and small items,	36 71	
Brighton Extension :—		
Machinery,	\$509 00	
Wire,	105 12	
Tools and hardware,	67 03	
Lumber,	48 86	
Labor,	8 00	
	<hr/> 738 01	

*Total for Fire-Alarm Telegraph, as per item No. 33  
of Treasurer's account,*

18,146 13

***Fire Department.***

*Payments for this department, including inside re-  
pairs on Engine, Hook and Ladder and Hose  
Carriage Houses, exclusive of the Fire-Alarm  
system, viz.:—*

**SALARIES.**

David Chamberlin, Commis- sioner,	\$3,000 00
Greely S. Curtis, to March 25, 1878, do.	2,958 38
Charles H. Allen, to May 6, 1877, do.,	300 00
Henry W. Longley, from May 25, 1877, do.,	2,550 00
Frederick W. Smith, Jr., clerk,	1,612 50
Wm. A. Green, chief engineer,	3,000 00
District Engineers and Inspector,	16,500 00
Call Engineers, engine- men, assistant en- ginemen and drivers, and officers and	

*Carried forward,* 

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\$29,920 83

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\$5,942,380 71



<i>Brought forward,</i>	\$29,920 88		\$5,942,380 71
members of the various engine, hook and ladder, and hose companies,	334,169 88		
Clerks in office,	2,012 50		
<i>Total for Salaries,</i>		\$366,102 71	
HORSES, etc.			
Hay, grain and straw,	\$17,068 84		
Shoeing,	4,282 71		
Purchase of,	8,321 47		
Harnesses and repairs,	1,992 30		
Horse and wagon hire,	462 25		
Medical attendance and medicine,	267 85		
		27,894 92	
Repairs of apparatus,		9,024 17	
Hose and repairs,		6,091 80	
Fuel for houses,	\$4,379 96		
Engines,	591 19		
		4,971 15	
Gas for engine-houses,		4,398 90	
Repairs of houses,		4,232 76	
Furniture and bedding,	\$786 62		
Washing,	2,324 84		
		8,111 46	
Oils and leather preservatives for hose; sperm oil and fluids for engines and lanterns; tools and supplies,		2,341 77	
Water-rates,		1,388 50	
Machinery and tools for repair shop,		922 05	
Printing,		698 33	
Stationery,		519 17	
Two wagons,		500 00	
Allowances to injured firemen,		433 00	
Fire hats, badges and buttons,		318 64	
Extinguisher charges,		248 13	
Repairs on reservoirs and hydrants,		237 35	
Car fares,		221 20	
Custom House and Inspector's charges and small items,		122 69	
Watering streets,		93 50	
Damages by collisions,		51 75	
Hydrants and Reservoirs: — for use of water at fires,	\$72,558 00		
Hydrants furnished and kept in order under			
<i>Carried forward,</i>	\$72,558 00	\$433,418 95	\$5,942,380 71

<i>Brought forward,</i>	\$72,588 00	\$433,418 95	\$5,942,380 71
direction Boston Water Board,	48,372 00		
		120,930 00	
			554,848 95
<i>Per item No. 34 of Treasurer's account,</i>	\$553,995 62		
<i>Add amount drawn by Auditor, but not paid,</i>		353 33	
		\$554,348 95	

**Fire Alarm Telegraph.**  
 From sale of old wire,  
*Per item No. 39 of Collector's account.*

103 09

**Fire Department.**  
 From sale of apparatus, \$2,000 00  
 " " manure, 713 00  
 " " old hose, 193 45  
 " " pump and heaters, 87 85  
 Rents of tenements in Engine-houses, 754 24  
 Use of engines, 80 00  
 Material and labor for other depart-  
 ments, 1,842 96

5,671 50

*Per item No. 38 of Collector's account.*

*Carried forward,*

\$4,133,722 05

244

DEPARTMENT EXPENSES.

Fire Department.							Fire Alarm Departm't.
Year.	Amount.	Apparatus in service, including Fire-boat since 1872-73.				Men.	Amount.
		S. E.	H. C.	C. E.	H. & L.		
1860-61	\$96,291 98	9	9	. .	3	245	\$8,203 81
1861-62	80,419 51	10	9	. .	3	260	6,536 56
1862-63	90,984 50	10	9	. .	3	258	6,775 16
1863-64	109,834 66	10	9	. .	3	266	11,921 78
1864-65	135,730 65	10	9	. .	3	267	12,399 74
1865-66	137,551 92	11	9	. .	3	280	17,070 73
1866-67	151,624 63	11	9	. .	3	281	26,119 18
1867-68	180,218 46	14	13	. .	4	281	23,998 67
1868-69	229,047 43	14	13	. .	4	353	40,741 91
1869-70	286,275 29	21	15	. .	7	389	24,837 67
1870-71	333,891 00	21	14	. .	7	466	51,964 00
1871-72	399,249 63	21	17	. .	7	472	42,763 89
1872-73	605,310 90	22	16	. .	7	475	40,507 00
1873-74	591,640 27	23	13	1	11	650	51,092 49
1874-75	591,848 35	29	12	5	11	650	35,258 25
1875-76	564,275 49	29	11	5	11	668	21,497 61
1876-77	560,052 76	29	11	7	11	660	30,267 97
1877-78	550,999 00	29	11	7	11	630	20,627 38

Year.	Repairs Fire Department Buildings.	Erection Fire Department Buildings.
	Amount.	Amount.
1860-61 . . .	\$5,823 95	\$8,106 39
1861-62 . . .	1,649 89	5,014 75
1862-63 . . .	4,926 55	5,952 60
1863-64 . . .	4,095 94	773 83
1864-65 . . .	7,146 92	4,600 00
1865-66 . . .	9,441 46	28,053 29
1866-67 . . .	8,135 16	2,000 00
1867-68 . . .	26,237 40	20,601 36
1868-69 . . .	14,963 69	7,545 97
1869-70 . . .	33,445 68	53,790 77
1870-71 . . .	32,652 21	19,008 84
1871-72 . . .	26,829 98	59,230 95
1872-73 . . .	16,024 35	72,567 95
1873-74 . . .	28,778 37	151,801 58
1874-75 . . .	14,099 45	105,167 80
1875-76 . . .	6,668 43	34,862 13
1876-77 . . .	5,523 44	8,950 21
1877-78 . . .	4,060 44	568 37