

AUDITOR'S
FIFTIETH
ANNUAL REPORT
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF BOSTON,
AND THE
COUNTY OF SUFFOLK,
FOR THE FINANCIAL YEAR
1861-62.

1861, MAY 1, (Both INCLUDED,) APRIL 30, 1862.

CITY DOCUMENT, No. 58.



BOSTON:
J. E. FARWELL & CO., PRINTERS TO THE CITY,
No. 37 CONGRESS STREET.
1862.

CITY EXPENDITURES

ENGINE AND HOOK AND LADDER HOUSES.

Repairs on the various Houses, viz : —

Carpenter's Work and Stock,	919 87	
Painting and Glazing,	175 33	
Mason's Work and Stock,	113 09	
Slating,	71 74	
<i>Amounts carried forward,</i>	<u>\$1,280 03</u>	<u>\$490,174 93</u>

<i>Amounts brought forward,</i>	\$1,280 03	\$490,174 93
Repairing Paving in front of Houses,	86 06	
Plumbing and Copper Work,	58 98	
New Bell and hanging the same for House on Sumner Street, East Boston,	57 75	
Iron Work and Iron Collars for Stable Stalls in Steam Engine Houses,	54 86	
Repairing Stalls in Stables,	33 55	
Sheds for the protection of Ladders at House of Steamer No. 5, East Boston,	35 00	
Gas Pipe and Fixtures,	27 04	
Locks and extra Keys,	12 12	
Repairing Bell,	3 00	
Cleaning Vaults,	1 50	
	<u>1,649 89</u>	
<i>Amount paid by Treasurer, per item No. 20 of his account,</i>	1,683 64	
<i>Transfer by Auditor to Engine House, Ward XII.,</i>	33 75	
	<u>1,649 89</u>	

FIRE DEPARTMENT.

Expenses of this Department, exclusive of Engine and Hook and Ladder and Hose Carriage Houses; and of the Salaries of the Chief Engineer, and the Clerk of the Board of Engineers, which are charged under the head of Salaries.

The appropriation for the Fire Department included the Annual Expenditures of the Fire Department proper; the cost of carrying on the Fire Alarm System, and the cost and keeping in proper order for use, the Steam Fire Engines.

The rates of pay of the officers and members, and much other information on the business of the Department, will be found in the Appendix.

<i>Amount carried forward,</i>	<u>\$498,684 85</u>
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Amount brought forward, \$498,684 85
FIRE DEPARTMENT.

Annual compensation to the Nine Assistant Engineers, and to the Officers, and Members of the various Engines, Hook and Ladder, and Hose Companies,	46,483 45	
Paid for 8,341 feet new Leading and Suction Hose,	8,302 38	
Repairs of Engines, Hose Carriages, Hook and Ladder Carriages, and other apparatus, exclusive of Hose, belonging to the Department, including the cost of construction, by various mechanics, of four new Hose Carriages,	3,404 06	
Repairs on the Leading and Suction Hose, Caps, Badges, and other work in that branch,	1,856 60	
Grain, Hay, &c., for the Horses,	3,337 86	
Cost of connecting the Cochituate Water Pipes with the various Reservoirs,	1,986 53	
Fuel for Steam Fire Engines,	1,583 48	
Hire of Horses to draw the Engines and Hook and Ladders to and from fires,	1,256 42	
Rent of rooms in rear of Niles' Block, which were fitted up last year for Stables and Sleeping Rooms, for Steam Engine No. 4,	775 00	
Filling and Cleaning Reservoirs,	702 25	
New Hose Pipes, Caps, and Badges,	555 66	
Repairing Reservoirs,	520 33	
Shoeing Horses, and Medicines for same,	683 99	
<i>Amounts carried forward,</i>	<u>\$ 71,448 01</u>	<u>\$ 498,684 85</u>

<i>Amounts brought forward,</i>	\$ 71,448 01	\$ 498,684 85
Fuel for the Engine Houses,	640 69	
Gas and Gas Fixtures for Engine Houses,	628 87	
Expense of collecting apparatus after fires ; and carting machines to and from workshops for repairs ; and other miscellaneous expenses of the Department, not charged elsewhere,	626 81	
Harnesses, &c.,	509 66	
Ladders and Crotch Poles, purchase of new and repairs of old,	502 40	
Difference of Exchange of two pair of Steam Engine Horses,	450 00	
Water for the various Engine Houses,	397 00	
Washing Bedding,	362 69	
Refreshments furnished to out-of-town Companies, and to our own Department at large fires,	282 35	
Furniture, Utensils, Bedding, &c., for Engine Houses,	273 95	
Tallow, Oil, and Grease for the Engines,	207 26	
Reservoir Covers, — new ones furnished by and credited to the Internal Health Department,	175 00	
Stable Furniture, Tools, and Utensils, for the Stables and Engines,	172 23	
Warming apparatus for Engine Houses,	164 58	
Carriage Hire for Committee on the Fire Department,	135 55	
Printing and Stationery for the Department,	132 88	
<i>Amounts carried forward,</i>	\$ 77,109 93	\$ 498,684 85

FIRE DEPARTMENT.

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<i>Amounts brought forward,</i>	\$77,109 93	\$498,684 85
Incidental Expenses of the Committee on the Fire Department,	101 00	
Repairs of Fuel Wagons,	96 12	
Stakes, Mauls, and Ropes to be used in closing up the streets at fires, to prevent obstructions by crowds,	90 35	
Expenses connected with the great fire on Commercial Street and Eastern Avenue, Feb. 25, removing rubbish from Streets, taking down walls, &c., &c.,	86 26	
Fluid and Wicking for Torches,	78 40	
Neatsfoot Oil and Leather Preservative for Engine Hose, and Sperm Oil for the Engines,	82 35	
Damages. — Payment for injury caused by the Department,	66 67	
Expense of removing the Bell formerly used on the Boylston School House to the Church on the corner of Washington and Castle Sts.,	50 00	
Expenses of Engineer, and Committee on Fire Department, to Manchester, N. H., for purchase of a new Steam Engine,	50 00	
Cotton Waste, for cleaning Steam Engines,	43 50	
Ringling Alarm Bells at East Boston one year,	25 00	
Inspection fees, for the Boiler of Steam Engine No. 7, as required by law,	10 00	
Soap and Sponge,	81 71	
<i>Amounts carried forward,</i>	<u>\$77,971 29</u>	<u>\$498,684 85</u>

<i>Amounts brought forward,</i>	\$ 77,971 29	\$ 498,684 85
New Lanterns and repairing old ones,	117 77	
Varnish, Rotten Stone, and sundry small items,	13 55	
Removing dangerous Walls,	10 00	
Signs for Hydrants in Streets,	6 90	
<i>Total for Fire Department exclusive of Fire Alarm Telegraph,</i>	78,119 51	

TELEGRAPHIC FIRE ALARM.

The following payments have been made on this account, viz: —

Salary of Superintendent,	1,200 00	
Salary of Assistants,	3,756 00	
Drugs and Chemicals,	286 48	
One new Electro Magnetic Watch Clock for Office,	163 71	
Re-insulating Wires and putting up same,	119 00	
Hardware, Office Machinery, and Tools, for repairing,	137 57	
Iron Weights, Brackets, and other Iron Work,	116 31	
Cleaning the Office and Washing the Clothing and Bedding,	76 08	
Carpenter and Masons' Work, Repairing, &c., in Office,	72 21	
Castings,	65 25	
Water Board, for Water used as motive power,	65 00	
Plumbing,	60 79	
New Wires,	58 82	
Lead, Zinc, and Tin,	52 64	
Omnibus fares, and small cash disbursements of persons connected with the Fire Alarm Department,	43 29	
<i>Amounts carried forward,</i>	\$ 6,273 15	\$ 498,684 85

FIRE DEPARTMENT.

65

<i>Amounts brought forward,</i>	\$ 6,273 15	\$ 498,684 85
Printing and Stationery for Office,	42 82	
Freight, Expresses, and Carting,	32 75	
Carriage Hire and incidental expenses of the Committee on this Department,	28 50	
Labor in digging for the purpose of Repairing a Water Pipe connected with the motor in Church, corner of Washington and Castle Streets,	27 50	
Furniture for Office,	24 36	
Painting and Glazing Skylight, &c., damaged by the wires,	20 76	
Slating and Repairing Roofs damaged by wires, &c.,	19 73	
Incidental expenses, and damages paid for injury to property by the wires or otherwise,	15 53	
Use of Transit Instrument for Office, eleven months,	14 66	
Labor and Incidentals,	11 00	
Mason Work on Signal Boxes,	10 60	
Spy Glass for Office,	8 00	
Gas Fixtures for do.,	7 20	
Telegraphic Fire Alarm Dep't,	<u>6,536 56</u>	

RECAPITULATION.

Fire Department,	78,119 51	
Telegraphic Alarms,	6,536 56	
		<u>84,656 07</u>
<i>Amount paid by Treasurer, per item No. 21 of his account,</i>	84,540 16	
<i>Amount not yet called for,</i>	115 91	
	<u>84,656 07</u>	
<i>Amount carried forward,</i>		<u>\$ 583,340 92</u>

HOSE HOUSE IN WASHINGTON VIL-
LAGE, WARD XII.

Cost of 2,210 feet of land, cor- ner of Dorchester and Jenkins Streets, Washington Village,	925 00	
Contractors for the erection of the building,	991 00	
Extra work,	30 00	
	<hr/>	1,021 00
Plans, &c.,		35 00
Earth filling,		33 75
		<hr/>
		2,014 75
<i>Amount paid by Treasurer, per item No. 27 of his account,</i>	1,981 00	
<i>Transfer from Engine Houses,</i>	33 75	
	<hr/>	
	2,014 75	

HOSE HOUSE, NORTHAMPTON STREET.

Amount appropriated and reserved to meet the payment for this house which is now in progress, under contract,	3,000 00
<i>Per item No. 28 of Treasurer's account.</i>	

FIRE DEPARTMENT.

George W. Bird, <i>Chief Engineer,</i>	1,500 00	
George H. Allen, <i>Sec.</i> <i>to Board Engineers,</i>	800 00	
	<hr/>	2,300 00
<i>The Salaries of the Assistant En- gineers, \$ 250 per annum each, are charged to the appropria- tion for the Fire Department.</i>		

CITY INCOME

FIRE DEPARTMENT.

Received as follows : —		
From Chief Engineer for sale of old mate- rials,	28 50	
From Superintendent of Fire Alarms for same,	25 00	
	<hr/>	53 50
<i>Per item No. 78 of Treasurer's account.</i>		

APPENDIX.

HYDRANTS.

During the year thirty-six new hydrants have been established, as follows : Fifteen in the City proper, fourteen in South Boston, four in East Boston, and three in Roxbury.

Total number of hydrants established up to January 1st, 1862, 1,451, viz :—

In Boston Proper	. . . . .	938
South Boston	. . . . .	301
East Boston	. . . . .	179
Brookline	. . . . .	3
Roxbury	. . . . .	12
Charlestown	. . . . .	11
Chelsea	. . . . .	7
		<u>1,451</u>

FIRE DEPARTMENT.

ALL the Engines, Hose Carriages, Hook and Ladder Carriages, Fuel Wagons, and other property connected with this Department, belong to the City, and are under the control of the Chief Engineer and a Standing Committee of the Board of Aldermen.

The Department consists of a Chief Engineer, nine Assistant Engineers, a Secretary to the Board of Engineers, and twenty-two companies, viz :—

Ten Steam Fire Engine Companies,
Eight Horse Hose Companies,
One Hand Hose Company, and
Three Hook and Ladder Companies.

Each Engine Company has one Engineman, one Fireman, one Driver, and eight Hosemen ; and the apparatus is drawn by two or more horses.

The Engineman, the Fireman, and the Driver are all the time on duty in or about the Engine Houses ; and the horses are at all times ready for immediate service.

One of the Hosemen designated by the Board of Engineers is recognized as *Foreman of the Hose*.

The Engineman has the whole charge of the Engine and its appurtenances, and is responsible for the care, good order, and well working of the Engine ; and is accountable for the proper performance of all the duties required of the Fireman and Driver.

The Fireman, besides his duties as such, is also to discharge the duty of Steward of the Company.

The Driver has charge of the Stable and Horses, and all that belongs to that branch of the service, and is to assist the Fireman in the discharge of his duties as Steward.

The *Foreman of the Hose* is to perform the duties of placing the engine at fires, taking command of the Hosemen, and also to act as Clerk of the company.

All the hose carriages drawn by horses, are constructed to carry *eight hundred feet* of two and one half inch hose. Nine men, including the driver, are employed for each hose carriage, the driver being in constant attendance in the capacity of Steward and Clerk of the company.

PAY OF THE DEPARTMENT.

That of the Chief Engineer is \$ 1,500 per annum.

That of the Assistant Engineers is \$ 250 each per annum.

Engineers of Steam Engines receive \$ 60 00 per month.

Firemen, 50 00

Drivers' Apparatus, 50 00

Foremen of Hose, 150 00 per year.

Hosemen, 125 00

Foremen of Hook and Ladder Companies \$ 150 00 *per annum* ; Assistant Foremen, Clerks, Stewards, Axemen, and Rakemen, \$ 125 per annum ; Members, \$ 100 per annum, — all payable quarterly, with the exception of those who are constantly employed on Steam Engines, who receive their salary monthly.

The Hand Hose Company is located at Washington Village, South Boston, and its members are required to do duty only in that section, except in cases of large fires. It is composed of eight members, and their compensation is as follows : —

Foreman	.	.	.	.	\$ 50 per year.
Steward	.	.	.	.	50
Hoseman	.	.	.	.	30

FIRE ALARMS.

All the Apparatus connected with this Department is under the care and control of the Superintendent of Fire Alarms and a Joint Standing Committee of the City Council.

A constant watch is kept at the Office in Court Square, night and day, by the operators. Each operator serves two alternate terms of three hours each, as principal, and the same as assistant operator; so that twelve hours service at the office out of every twenty-four is required from each operator. No operator is permitted to sleep during his watch, unless expressly relieved by same one else, and by consent of the Superintendent.

Each operator is accountable to the Superintendent for any omissions or mistakes that may occur at the Central Office during his hours of duty.

An accurate account is kept of the time of giving each alarm, and of the District and Station from which it originates, and all other necessary information.

The City is divided into seven Alarm Districts. Each District is subdivided into Stations, at each of which is a Signal Box. There are now fifty-two Signal Boxes or Stations, the number in a District varying from six to twelve.

Alarms are transmitted to the Office, from the Signal Stations or Boxes, by turning a crank in the Box. The Police Officers and one other person only, resident near each Box, have keys to the Boxes.

Alarms are usually given in less than a minute from the time the crank is turned in any Box.

THE MERIDIAN BELLS.

Forty-one Bells, at their various locations on Churches, School Houses, Engine Houses, and Police Stations, are struck from the Fire Alarm Office *precisely* at noon every day. Care is taken to secure the utmost accuracy in the time; for which purpose a first-rate chronometer and a transit instrument of the best quality are used, and observations of the Sun are made as often as is necessary.

FIRE POLICE. — Previous to the year 1860 special officers were appointed distinct from the regular force to do Police duty at fires. Since that date the regular Police have performed that service. Under the present regulations a certain number of officers at each Police Station form a regular detail to do the Fire Police duty on their respective stations.

Officers who are on duty on two or three certain beats at opposite extremes of the Station, whether by day or night, are under instructions to repair to any fire occurring on the Station at the earliest possible moment, and others, if necessary, are sent from the Station House as soon as practicable.

The regulations require the officers on adjoining beats to cover the beats left vacant by officers at the fire, so that none of the territory is left unprotected.

CITY PROPERTY

CITY BUILDING, corner of Court Square and Williams Court, covering about 2,035 feet of land.

This Building is occupied by the Second Police Station ; the Chief Engineer of the Fire Department ; the Magnetic Telegraph Fire Apparatus and attendants ; Superintendent of Lamps ; and is also used as a Ward Room for the Citizens of Ward Four, on Election Days.

FIRE DEPARTMENT. — See Appendix, page 307.

STEAM FIRE ENGINES. — Ten, located as follows, viz : six in City proper, two at East and two at South Boston.

HORSE HOSE CARRIAGES. — Eight, located as follows, viz : six in City proper, one each in East and South Boston.

HAND HOSE CARRIAGE. — One at Washington Village.

HORSES. — Thirty-four.

FUEL WAGONS. — Two in Engine House, East Street, and one on Paris Street, East Boston ; one in Engine House No. 1 ; one in Engine House No. 2, at South Boston.

FIRE HOOKS. — Nine.

FIRE LADDERS. — Eighty-eight, of different sizes.

HOSE. — About Eighteen Thousand feet of leading and suction.

STEAM FIRE ENGINE HOUSES. — Ten, located as follows, viz : Broadway, near Dorchester Street ; Fourth, near K Street ; Washington, near Dover Street ; Court Square ; Marion Street ; Wall Street ; Purchase Street ; North Bennet Street ; Paris Street, foot of Mount Vernon Street.

HOSE CARRIAGE HOUSES. — Nine, viz : Salem Street ; Hudson Street ; Fruit Street ; Northampton Street ; Shawmut Avenue ; Chelsea Street ; Warren Street ; B Street ; Washington Village.

HOOK AND LADDER HOUSES. — Three, viz : City Stables on Harrison Avenue ; Friend Street ; Paris Street, E. B.

SPARE APPARATUS. — One Steam Fire Engine ; one Hook and Ladder Carriage ; three Hand Engines ; about Eight Hundred feet of three-inch leather Hose. There is one Hose Carriage with Four Hundred feet of Hose, located on the Mill Dam. This hose is only used by the residents of that location.

RESERVOIRS. — One hundred and thirty-two, of which thirteen are located at East Boston ; nineteen at South Boston ; and the balance in the different wards of the City. They contain from 300 to 400 hogsheads each, and are mostly supplied by rain water from the roofs of buildings.

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 case of fire. 909 in the City proper ; 262 at South Boston ; 173 at East Bos-

ton. Total, 1,344, — an increase of 11 over last year. The Hydrants are located at an average distance of 250 feet from each other.

TELEGRAPHIC FIRE ALARMS.

The following property is in charge of the Superintendent of this Department, viz : —

MAGNETIC FIRE ALARM APPARATUS, in the City Building, the whole cost of which was over \$ 25,000.

WORKING LINES OF WIRE, about sixty miles.

SIGNAL BOXES, in use, fifty-two.

STRIKING MACHINES, twenty-eight, six of which are not in use.

ENGINE HOUSE GONGS, ten, one of which is not in use.

CLOCKS. — One Electric Watch Clock, in use ; one do. not in use, but for sale. One Repeating Clock for striking signals ; one do. for tapping-box signals.

TAPPING-BOX SIGNALS. — Thirteen.

One MAGNETO ELECTRIC MACHINE, for striking bells.

RELAY MAGNETS. — Ten.

OFFICE FURNITURE. — One Switch-Board, one large Galvanometer, for Alarm Battery, five small do. for Signal Batteries, 8,000 feet new Iron Wire, 400 Insulators, 50 Iron Brackets, 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, as per Schedule on file in the Auditor's Office.