

EIGHTEENTH ANNUAL REPORT

OF THE

FIRE DEPARTMENT,

FOR THE

YEAR ENDING DECEMBER 31, 1890.



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ROCKWELL AND CHURCHILL, CITY PRINTERS.  
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OFFICE OF THE BOARD OF FIRE COMMISSIONERS,  
74 TREMONT ST., BOSTON, JANUARY, 1891.

HON. NATHAN MATTHEWS, JR.,  
*Mayor of the City of Boston:—*

SIR,—In accordance with previous custom and requirements, a statement of the condition and operations of this department was rendered for the year ending April 30, 1890. The Revised Ordinances call for an annual report in January; and, in compliance with their provisions, the Commissioners respectfully submit the following record of service for the balance of the calendar year just closed, together with a summary of present resources, and certain recommendations bearing upon the general improvement of the department.

#### ALARMS AND LOSSES.

For the twelve months ending December 31, 1890, there were 1,043 bell and still alarms, besides nine second and four third alarms, the largest number, in a single year, in the history of the department. In the month of December alone there were 123 calls upon the force, the heaviest demand ever experienced in that month, and only twice exceeded in any month. Notwithstanding these facts, the department has been so far successful in preventing destructive fires that the loss shown for the eight months since the fiscal year opened is a little over half a million dollars, which falls considerably below the average of fire waste in this city.

#### DEPARTMENT INCREASE.

Some progress has been made in employing, for the benefit of the department, the special appropriation of \$510,000, made by the City Council soon after the Thanksgiving-day fire of 1889; but the Commissioners have found some obstacles in the way of pushing the work as rapidly as they desired. They are glad to announce, however, that the new house on Congress street is almost ready for occupancy by a double engine company. The house in East Boston, intended for a ladder company and an engine company, is also about completed; and the house that is building on Harrison avenue, for the accommodation of an additional ladder com-

pany, will probably be turned over to the department in a month or two. Ground has been broken for a new engine-house at Allston, and plans have been approved for another at Egleston square. A site for an engine-house at Washington Village, South Boston, was selected last summer, but there have been repeated delays in obtaining a satisfactory title, and the difficulties still seem to exist; so the Commissioners have abandoned the location, and selected one near it, which is about equally eligible, and can be purchased for the same money as the other. A communication will be sent to the City Council, through your Honor, in a very short time, in relation to this matter. Another important item of the general scheme to strengthen the department was the proposition to locate an engine-house at the North End, in the vicinity of Fulton and Commercial streets. The Commissioners have thus far been unsuccessful in finding a proper location at a reasonable price. This section sadly needs another piece of apparatus, but its value depends largely upon putting it in just the right place. A site for a chemical engine-house has been purchased in Ashmont, Ward 24, but no appropriation for the erection of a building has yet been made. It is desirable that a new ladder company shall be established at or near Grove Hall, Roxbury; but as yet a site available as to location and reasonable in price has not been found.

The lesson of the Thanksgiving fire of 1889, while it was fresh in the public mind, was wisely heeded by the City Council, and the special appropriation of \$510,000, already mentioned, was the result. Of this amount, \$165,000 was specified for the purpose of erecting a central station to contain a new and improved fire-alarm system, the offices of the Commissioners and Chief, several pieces of apparatus, with their companies, and other necessary appurtenances of a metropolitan fire service. The Commissioners have recommended several sites, but while the subject has been quite vigorously discussed for a twelvemonth, nothing has been definitely settled, and the money, which should by this time be providing largely increased protection to the property of our citizens, is still lying idle. The need of such headquarters is as great as ever, and while the Commissioners personally prefer, for obvious reasons, their present surroundings and associations, they are, nevertheless, officially more profoundly convinced than ever of the value of what they have recommended. They have presented the dangers of delay and the needs of concentration in all their aspects, and they do not feel it to be their duty to urge this matter with any further degree of importunity. They wish, however, to

emphasize the fact that the City Council voted this \$165,000 to strengthen the Fire Department, and its action seemed to receive the approval of that portion of the public most directly and largely interested. If this sum cannot be applied as originally intended, it should be employed in other ways to carry out the general purpose. A new house is needed at the South End, this present moment, to accommodate the second water-tower and a new engine company. The house of Ladder 13 needs rebuilding, as at present it is cramped, inconvenient, and unhealthy, especially for horses. Upon these and other immediate necessities the Commissioners will soon submit special communications.

#### IMPROVED BUILDING LAWS.

The Commissioners hope they are not exceeding their functions in urging a radical change and improvement in our building laws. Certainly that question concerns this department as nearly as do those matters directly within its own province. The fire loss of a city depends more upon the character of its streets and buildings than upon its fire department, and at present, in Boston, that character, from a safety point of view, is disreputable, and growing rather worse than better. Already buildings have been erected that no department can properly protect, in case of fire, because their elevations are out of reach. To say that these buildings are fire-proof does not meet the difficulty; it is merely a plea in mitigation. Buildings can be constructed so that they will not burn, but the contents are always combustible, and therein lies the danger when the department cannot reach the trouble. Our narrow streets make the height of buildings a most important consideration, but that is only one of many that a new law ought to cover. What its requirements in detail should be the Commissioners do not propose to suggest, as that would be an impertinent interference with those who have been appointed to consider the subject. They simply wish to add their testimony to the importance of the main question.

#### NEW APPARATUS.

During the year the working strength of the department has been increased by the addition of thirteen new steam fire-engines, two chemical engines, a new Hayes extension ladder truck to replace one destroyed, a new Preston extension ladder truck, now ready for delivery, two Abbott-Downing ladder trucks, two improved Hale water-towers, and hose wagons, coal wagons, district chiefs' wagons, hose and

small equipment to a considerable extent. When houses are completed so that all this can be put in service, the department will be stronger by fifty per cent. than it was a year ago. Another improvement is the introduction of more three-horse hitches on engines and ladder trucks. This feature has worked so well, especially where the runs are long or the hills are high, that it will be still further extended the present year. The first-size engines have been equipped with three-inch hose, thus enabling them, with Siamese connections, to throw very powerful street streams.

#### INSPECTION OF WIRES.

The present plan of running the wires of various electrical systems through our streets is one of the most formidable of the problems with which the department has to contend, and its complications are constantly increasing. While these systems have become institutions that we cannot spare, a further regulation of them is required in order to secure the greatest good of the greatest number. Electric wires are not only active agents in causing fires, but they also frequently embarrass the efforts of the department to extinguish them. Some of these lines are so thickly run in front of buildings as to render it almost impossible to raise ladders for ventilation, carrying up hose, or saving life. In a number of cases these lines were established before the buildings were erected, and the resultant relations are unfortunate. It might be a proper question of public policy to inquire whether in many such instances the wires might not be carried over the buildings, instead of alongside, until such time as the city shall get ready to order the wires underground. The creation of the new bureau for the inspection of wires and the appointment of an efficient head will probably greatly improve the present conditions; but it is doubtful whether the Inspector has yet sufficient authority to make as thorough a regulation as the situation demands.

#### FIRE-ALARM TELEGRAPH.

In accordance with the ordinance establishing the new bureau, the fire-alarm telegraph has been divorced from this department, which no longer has control of one of the most important branches of the service. This is an essential weakness of the ordinance, which seems, in this particular, not to have been considered in the light of experience. While the present Inspector understands the needs of the department and the relations of the fire-alarm telegraph to other systems, the future, under the present arrangement, is fraught with

menace to the best interests of the city and this department. This is the opinion not only of the Fire Commissioners, but of the Inspector of Wires as well.

#### PUBLIC CLOCKS.

While the department has been deprived of something that properly belongs to it, on the other hand it has been left responsible for a charge that is a solecism in its service. This is the care of the public clocks, a legacy of the old department of bells and clocks, which was transferred to the fire-alarm department, and at last lands in this, with which, naturally, it has as little to do as with the inspection of milk and vinegar. This department is not equipped for the proper performance of such a class of work, and it is earnestly advised that it be transferred to other hands.

#### COMPOSITION OF THE FORCE.

Of the 709 men that constitute the working force, about two-thirds are permanent; the remainder are call-men, who respond to fires on bell alarms. The proportion of permanent men has enlarged by slow degrees each year. The department should be put upon an entirely permanent basis as soon as possible. The Commissioners have urged this step in every report, and have made such progress as they could in spite of the fact that they have not been allowed the necessary appropriation to make the reform general. Could this be accomplished, it would make a very perceptible increase in the value of the force in our large outlying districts, and to this end the aid of the City Council is invoked. More attention than ever has been paid the past year to the drill and discipline of the force. The drill school has been in active operation, and all the permanent men, with the exception of the few cases excused for special reasons, have been through it. The engine school has also been doing good work in training to the duty of running and caring for engines such young men as possess natural aptitude, or have had special experience.

#### HORSES.

The horses of the department are among its most important factors. There are now about 250 in service, of which number the city owns 195. The others are extra winter horses, taken from various parties for the cold season, their care and keeping being accepted as an equivalent for the service they render. The general condition of these animals is

excellent, a recent report of the veterinary showing that out of the entire number there are not more than three or four unable to do duty. This showing attests the care and skill of the department veterinary, whose duties in this direction make him a very busy man. The hospital for horses is not an institution of which the department feels particularly proud; still recent alterations and repairs have improved it somewhat, and the Commissioners hardly feel warranted yet in recommending a new one, apart from some apparatus-house, as it would involve an expense rather disproportionate to the present needs. Quite a number of new horses will be required the coming year. During the year 23 were purchased, 10 sold or exchanged, 2 died, 4 were turned over to Inspector of Wires. The number of horses receiving treatment during the year was 123, resulting in 124 cases, of which 28—14 were horses taken for use during the winter months—were received at the hospital stable, and the balance were attended at the houses of their companies. Of the 124 cases treated, 1 died from injuries received while responding to an alarm of fire.

#### OFFICERS AND MEN.

The officers and men of the force have commendably sustained their high reputation for zeal, fidelity, and efficiency; and harmony and good feeling, the necessary conditions of good service, seem to pervade all ranks of the department. A large number of young men has entered the service during the last two years; but they are rapidly catching the spirit that they find there, and the training schools have materially aided their advance toward the status of trained firemen. There have been no additions to the pension roll since the last report; but, in the natural course of events, some will be made at the beginning of the department year.

#### THE POLICE.

The Commissioners are happy to have cause to again thankfully acknowledge the good offices of the Police Department and its efficient cooperation in times of need. Its part of the work at large fires is of utmost importance, and no instance during the year can be recalled where it has been neglectful of its duties or careless of its responsibilities.

#### THE PROTECTIVE DEPARTMENT.

This ally has earned anew the good opinion of the public the past year. It is prompt and progressive, and has ably seconded the efforts of the Fire Department in the old and pleasant fraternal spirit.

## THE FIRE MARSHAL.

This officer has well maintained the credit of his position, which, owing to the number of alarms, has necessarily been a busy one. His sources of information have been extended, and the office is now so organized that it promises to be of increasing value to the public.

## ORGANIZATION.

The present organization of the department consists of a Board of three Fire Commissioners, a Chief of Department, 11 District Chiefs, and other members, and employees of the repair-shops, to the number of 709 men.

## THE BOARD OF FIRE COMMISSIONERS

consists of three members. One member is appointed annually, for a term of three years, from the first Monday in May each year. The nomination is made by the Mayor, subject to confirmation by the Board of Aldermen.

ROBERT G. FITCH, *Chairman*, for three years from May, 1889. Term expires May, 1892.

JOHN R. MURPHY, for three years from May, 1888. Term expires May, 1891.

GEORGE H. INNIS, for unexpired term of RICHARD F. TOBIN, deceased. From December, 1890. Term expires May, 1893.

Salaries, \$3,500 each.

Frederick W. Smith, Jr., *Clerk*. Appointed by the Fire Commissioners. Salary, \$2,400.

## CHIEF OF DEPARTMENT.

LEWIS P. WEBBER, Headquarters, 74 Tremont street.

*District Chiefs.*

John F. Egan, Headquarters,	Engine-house	9.
C. H. W. Pope,	Ladder	9.
Lewis P. Abbott,	Engine-house	25.
Wm. T. Cheswell,	"	4.
John W. Regan,	"	26.
John A. Mullen,	"	1.
Patrick E. Keyes,	"	3.
Edwin H. Sawyer,	Hose-house	7.
Williston A. Gaylord,	H. and L. house	4.
J. Foster Hewins,	Engine-house	18.

*Call District Chief.*

James F. Rogers, assigned to that part of District 10 located in West Roxbury.

## CLERKS.

B. F. Underhill, Jr.,      David L. Adamson,  
A. Charles Scott,      Wm. E. Delano.

## FORCE AND PAY-ROLL.

*As established by the Board.*

1 Chief of Department . . .	\$3,500 per annum.
1 Assistant Chief and Inspector of Hose and Harnesses . . .	2,400 "
9 District Chiefs . . . . .	2,000 "
1 District Chief, call . . . . .	400 "
1 Superintendent of Apparatus Re- pairs . . . . .	2,000 "
3 Clerks . . . . .	1,500 "
1 Clerk . . . . .	1,000 "
1 detailed man as Clerk, Apparatus Repair-shop . . . . .	1,000 "
1 Veterinary Surgeon . . . . .	1,800 "
46 Captains . . . . .	1,600 "
30 Lieutenants . . . . .	1,400 "
38 Engine-men . . . . .	1,300 "
212 Men . . . . .	1,200 "
16 " . . . . .	1,100 "
82 " . . . . .	1,000 "
69 " . . . . .	250 "
66 " . . . . .	200 "
52 " . . . . .	175 "
24 Permanent Substitutes . . . . .	900 "
51 " " at . . . . .	720 "
4 Call Captains . . . . .	325 "

## FIRE DISTRICTS.

The city is divided into ten fire districts, as follows : —

- DISTRICT 1. — Comprises all that part of Boston known as East Boston.
- DISTRICT 2. — All that part of Boston formerly known as Charlestown.
- DISTRICT 3. — All that part east of a line beginning at the Charles-river drawbridge, and running through the centre of Charlestown street, Haymarket square, and Washington to Summer street, and North of Summer street and the N. Y. and N. E. R.R. passenger depot to the water.
- DISTRICT 4. — All that part west of District 3, and north of a line running through the centre of Winter and Park streets, and west of Beacon, to Arlington street, west side of Commonwealth avenue, to Chester park, to water.
- DISTRICT 5. — All that part south of Districts 3 and 4 to the centre of Dover-street drawbridge, and a line running through the centre of Dover, Berkeley, Boylston, east side of Commonwealth avenue, to Arlington, to Boylston street.
- DISTRICT 6. — All that part of Boston known as South Boston.
- DISTRICT 7. — All that part of Boston south of District 5, to the centre of Albany street; thence through the centre of Albany and Northampton streets, Columbus avenue and Chester park, to east side of Commonwealth avenue, to centre of Berkeley, to Dover street.
- DISTRICT 8. — All that part south and west of District 7, to the boundary line of West Roxbury, and west of Washington street to the Brookline boundary line, and including all of Ward 25, formerly Brighton.

DISTRICT 9. — All that part south of Districts 6 and 7, to West Roxbury line, running through the centre of Blue Hill avenue, Columbia, Green, Bowdoin, Church, and Commercial streets, to Dorchester avenue, thence due east to the water.

DISTRICT 10. — All the southerly part of Boston south of Districts 8 and 9, including West Roxbury.

ASSIGNMENT OF DISTRICTS.

Each district is placed under the charge of an Assistant Engineer, as follows :—

District.	Chief in Command.	COMPANIES IN DISTRICT.			
		Engines.	Chemical Engines.	Hook and Ladder.	Hose.
1	John F. Egan . . . . .	5, *9, 11	7	2	6
2	C. H. W. Pope . . . . .	27, 32, 36	9	*9	3
3	Lewis P. Abbott . . . . .	8, *23, 31	. . . . .	3, 14	. . . . .
4	Wm. T. Cheswell . . . . .	Tower, *4, 6, 10	1	1	8
5	John W. Regan . . . . .	7, *26	2	. . . . .	. . . . .
6	John A. Mullen . . . . .	*1, 2, 15	8	5	10, 12
7	Patrick E. Keyes . . . . .	*3, 22, 23, 33	. . . . .	3, 13, 15	5
8	Edw. H. Sawyer . . . . .	13, 14, 29, 34, 37	3, 6	11, 12	*7
9	Williston A. Gaylord . . . . .	12, 17, 21, 24	5, 19	*4, 7	. . . . .
10	J. Foster Hewins . . . . .	16, *18, 19, 30, 33, 39	4	6, 10, 16	. . . . .

\*Headquarters of District Engineer.

## WATER AND HYDRANTS.

The total number of hydrants in the city, January 1, was 5,677. In addition to these hydrants there are 238 fire reservoirs in different sections of the city that contain from 300 to 500 hogsheads of water, and can be used in an emergency. The number of hydrants added during the year is as follows: 24 Lowry, 79 Post, 2 Boston, and 63 Boston Lowry.

In all cases the Water Board have cheerfully complied with the requests of this Board in the establishment of hydrants, whenever necessity required.

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

## ENGINE-HOUSES.

No.	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Dorchester street . . . . .	5,898	Addition built, 1874. Municipal Court, South Boston, and two classes, Bigelow School, in this building.
2 . . .	Cor. of O and Fourth streets .	4,000	
3 . . .	Bristol st. and Harrison ave. .	4,000	Ladder No. 5 in this building.
4 . . .	Bullfinch street . . . . .	5,068	Chemical Engine No. 1, Lancers' Armory, and water-tower in this building.
5 . . .	Marion street, E.B. . . . .	1,547	
6 . . .	Leverett street . . . . .		
7 . . .	Rast street . . . . .	1,803	
8 . . .	Salem street . . . . .	2,363	
9 . . .	Paris street, E.B. . . . .	4,000	Reconstructed, 1890-91.
10 . . .	River street . . . . .	1,896	
11 . . .	Sumner street, E.B. . . . .	4,010	Remodelled, 1870. Ladder No. 2 in this building. During building on site of Engine-house 9, that company occupied this house, and Kugine Co. 11 assigned to Chemical House 7.
12 . . .	Dudley street . . . . .	7,161	Formerly occupied by Ladder No. 4.
13 . . .	Cabot street . . . . .	4,365	Remodelled, 1870.
14 . . .	Centre street . . . . .	5,627	
15 . . .	Dorchester avenue . . . . .	2,843	
16 . . .	River street, Dorchester Dist.,	12,736	Ladder No. 6 in this building.
17 . . .	Meeting-house Hill, Dorchester Dist. . . . .		Ladder-house No. 7 on this lot.
18 . . .	Harvard street, Dor. Dist. . .	10,225	
19 . . .	Norfolk street, " . . .	7,683	
20 . . .	Walnut street, " . . .	9,000	
21 . . .	Boston street, " . . .	9,355	
22 . . .	Dartmouth street . . . . .	4,463	
23 . . .	Northampton street . . . .	3,445	
24 . . .	Cor. Warren and Quincy sts. .	4,180	
25 . . .	Fort Hill square . . . . .	4,175	Ladder No. 8 and Ladder 14 in this building.
26 . . .	Mason street . . . . .	5,385	Engine No. 35 in this building.
27 . . .	Elm street, Charlestown Dist.,	2,600	
28 . . .	Centre st., W. Roxbury Dist. .	10,377	Ladder No. 10 in this building.
29 . . .	Chestnut Hill ave., Brighton District . . . . .	14,356	Ladder No. 11 in this building.
30 . . .	Mt. Vernon street, West Roxbury Dist. . . . .	16,275	
32 . . .	Bunker Hill street . . . . .	8,060	Built, 1883-84.
33 . . .	Cor. Boylston and Hereford sts.,	5,646	Ladder No. 15 in this building.

ENGINE-HOUSES. — *Concluded.*

	Location.	No. of feet in lot.	Remarks.
No. 34 . . .	Western ave., Brighton . . .		
36 . . .	Monument street . . . . .	5,568	
37 . . .	Cor. Longwood and Brookline avenue . . . . .	5,400	Occupied by Chemical Eng. No. 3.
CHEMICAL ENGINE-HOUSES.			
No. 2 . . .	Church street . . . . .	3,412	Occupied by Chemical Eng. No. 2.
4 . . .	Poplar st., cor. Washington, West Roxbury . . . . .	14,729	Ladder Co. 16 in this building.
5 . . .	Washington street, between Atherton and Beebeven . . .	3,348	
6 . . .	Harrard ave., near Cambridge street, Brighton Dist. . . . .	6,112	
7 . . .	Saratoga and Byron streets . .	10,000	
8 . . .	B street . . . . .	1,804	
9 . . .	Main street . . . . .		See Ladder-house 9.
10 . . .	Bustis street . . . . .	760	

## HOSE-HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 2 . . .	Main street, Charlestown Dist.,	1,592	Changed to coal depot, 1884.
3 . . .	Winthrop street . . . . .	5,290	Armory in building.
5 . . .	Shawmut avenue . . . . .	339	
6 . . .	Chelsea street . . . . .	1,246	
7 . . .	Tremont street . . . . .	4,259	Ladder No. 12 and Department Hospital in this building.
8 . . .	North Grove street . . . . .	3,918	
10 . . .	Washington Village . . . . .	1,619	
12 . . .	Fourth street . . . . .	3,101	Remodelled, 1870.

HOOK-AND-LADDER HOUSES.

	Location.	No. of feet in lot.	Remarks.
No. 1 . . .	Friend street . . . . .	1,676	
2 . . .	Summer street, K.R. . . . .		See Engine-house 11.
3 . . .	Harrison avenue . . . . .		See Engine 3.
4 . . .	Dudley street . . . . .	3,923	
5 . . .	Fourth street . . . . .	2,499	
6 . . .	River street, Dor. . . . .		See Engine-house 16.
7 . . .	Meeting-house Hill . . . . .		See Engine 17.
8 . . .	Port Hill square . . . . .		See Engine Co. 25.
9 . . .	Main street, Charlestown . . . . .	2,430	Chemical 9 in this building.
10 . . .	Centre street, W.R. . . . .		See Engine-house 28.
13 . . .	Washington, near Doverstreet, . . . . .	1,007	
14 . . .	Port Hill square . . . . .		See Engine-house 25.
15 . . .	Boylston, cor. Hereford street, . . . . .		Eng. 33 in this building.
16 . . .	Roelindale . . . . .		See Chemical Engine 4.
	Bristol street . . . . .		Occupied as a fire-alarm store-house.

Fuel-house, Salem street, 417 feet of land.

Repair-shop, corner of Albany and Bristol streets, 20,547 feet.

## HOSE.

The amount of hose purchased and condemned since May 1, 1890, to January 1, 1891, is as follows:—

	Purchased.	Condemned.
Leading, Cotton,	9,000 feet.	3,850 feet.
“ Rubber,	2,000 “	1,200 “
Chemical, Rubber,	600 “	250 “
Suction,	17 “	121 “
Total,	<u>51,617 feet.</u>	<u>5,421 feet.</u>

Amount of hose in use and in storehouse Jan. 1, 1891:—

	In use.	In storehouse.
Cotton,	52,154 feet.	7,400 feet.
Rubber,	4,813 “	1,350 “
Chemical,	4,521 “	650 “
Suction,	891 “	104 “
Hand,	2,865 “	
Total,	<u>65,244 feet.</u>	<u>9,504 feet.</u>

Recapitulation of the Number of Alarms of Fire, and the Losses and Insurance on the same, from

	Alarms.	Losses.	Insurance.	Population.
Sept. 1, 1820, to August 31, 1830 . . . . .	110	\$118,540	\$52,750	61,202
" 1830, " 1831 . . . . .	62	25,600	4,329	
" 1831, " 1832 . . . . .	89	68,195	40,973	
" 1832, " 1833 . . . . .	159	74,613	25,713	
" 1833, " 1834 . . . . .	309	60,405	37,925	
" 1834, " 1835 . . . . .	109	107,440	45,879	78,603
" 1835, " 1836 . . . . .	190	130,295	55,125	
" 1837, " 1838 . . . . .	105	32,118	20,238	
" 1838, " 1839 . . . . .	96	140,094	61,191	
" 1839, " 1840 . . . . .	113	77,673	58,632	85,000
" 1840, " 1841 . . . . .	140	102,975	36,929	
" 1841, " 1842 . . . . .	194	102,118	44,533	
" 1842, " 1843 . . . . .	252	123,966	90,088	
" 1843, " 1844 . . . . .	267	164,083	95,252	
" 1844, " 1845 . . . . .	223	294,591	169,440	114,266
" 1845, " 1846 . . . . .	289	226,383	155,205	
" 1846, " 1847 . . . . .	270	172,973	87,159	
" 1847, " 1848 . . . . .	282	222,273	162,885	
" 1848, " 1849 . . . . .	330	290,525	216,992	
" 1849, " 1850 . . . . .	240	123,690	76,197	138,738
" 1850, " 1851 . . . . .	338	380,107	192,937	
" 1851, " 1852 . . . . .	189	402,849	215,315	
" 1852, " 1853 . . . . .	205	515,167	295,056	
" 1853, " 1854 . . . . .	105	150,772	106,890	
" 1854, " 1855 . . . . .	174	337,604	301,947	169,568
" 1855, " 1856 . . . . .	167	409,353	287,832	
" 1856, " 1857 . . . . .	164	256,331	238,787	
" 1857, " 1858 . . . . .	161	300,667	316,207	
" 1858, " 1859 . . . . .	106	701,579	646,219	
" 1859, " 1860 . . . . .	194	621,383	471,853	171,902
" 1860, " 1861 . . . . .	172	617,213	465,928	
" 1861, " 1862 . . . . .	172	1,107,569	866,433	
" 1862, " 1863 . . . . .	141	307,429	120,909	
" 1863, " 1864 . . . . .	188	858,381	493,569	
" 1864, " 1865 . . . . .	131	550,749	318,667	
" 1865, " 1866 . . . . .	221	681,554	474,171	192,324

Recapitulation. — *Concluded.*

	Alarms.	Losses.	Insurance.	Population.
Sept. 1, 1866, to Dec. 31, 1866 . . . . .	64	\$308,560	\$383,700	
Jan. 1, 1867, " 1867 . . . . .	284	402,115	340,775	
" 1868, " 1868 . . . . .	298	401,100	314,700	290,750
" 1869, " 1869 . . . . .	335	447,723	335,075	
" 1870, " 1870 . . . . .	497	555,571	756,463	
" 1871, " 1871 . . . . .	549	704,329	554,951	
" 1872, " 1872 . . . . .	610	1,316,549	1,203,983	
" 1873, " 1873 . . . . .	620	2,680,933	2,010,633	
" 1874, to April 30, 1874 . . . . .	281	941,483	1,607,782	
May 1, 1874, " 1874 . . . . .	782	1,228,493	3,677,038	342,000
" 1875, " 1875 . . . . .	483	541,272	3,078,433	
" 1876, " 1877 . . . . .	500	481,354	2,827,628	
" 1877, " 1878 . . . . .	514	516,000	3,803,910	
" 1878, " 1879 . . . . .	563	403,451	3,501,948	
" 1879, " 1880 . . . . .	571	1,299,490	4,602,551	
" 1880, " 1881 . . . . .	731	1,183,818	6,543,006	362,000
" 1881, " 1882 . . . . .	395	615,836	4,849,346	
" 1882, " 1883 . . . . .	727	314,154	7,209,353	
" 1883, " 1884 . . . . .	793	908,554	7,981,897	
" 1884, " 1885 . . . . .	927	1,960,393	3,068,295	
" 1885, " 1886 . . . . .	735	821,948	7,082,541	
" 1886, " 1887 . . . . .	827	911,509	6,771,654	
" 1887, " 1888 . . . . .	975	784,667	10,155,625	
" 1888, " 1889 . . . . .	962	1,078,333	12,146,304	
" 1889, " 1890 . . . . .	963	4,746,809	16,023,562	
" 1890, Jan. 1891 . . . . .	679	556,567	9,397,054	

Total number of actual fires . . . . .	527
Confined to one building . . . . .	435
Extended to others . . . . .	10
Wharves, vessels, grass, etc. . . . .	82

BUILDINGS.

Slightly damaged . . . . .	314
Considerably damaged . . . . .	28
Totally destroyed . . . . .	13
Not damaged . . . . .	100

<sup>1</sup>The losses and insurance of the great fire of the 9th of November, 1872, are not included in the above table. The amount of property destroyed can be set down at \$75,508,000; the area, 65 acres; buildings destroyed, 776, of which 709 were brick and stone, and 67 wood.

TABLE NO. 1.

MONTHS.	ALARMS RECEIVED.					LOSS.		INSURANCE.		ALARMS.				BUILDINGS.				Tree, Grass, Lumber, etc.	Wharf, Vessels, Cool-pile, etc.					
	FROM WHICH.					Buildings.	Contents.	Buildings.	Contents.	True.	False.	Needless.	Still.	No Fire.	No Damage.	Slight Damage.	Considerable Damage.			Totally Destroyed.	Out of the City.	Confined to one Building.	Extended to others.	
	Fire Patrol.	Members.	Police.	Citizens.	Automatic.																			Unknown.
<b>1890.</b>																								
May . . . . .	1	5	13	51	3	1	72	\$8,330	\$16,010	\$540,710	\$498,345	43	2	7	20	8	11	36	3	1	1	43	13	4
June . . . . .	2	8	13	64	8	1	85	34,802	89,280	331,329	339,170	37	1	12	35	3	13	41	4	..	..	55	25	19
July . . . . .	1	5	16	85	4	2	108	37,422	70,190	369,370	310,267	49	2	16	41	6	18	36	7	2	1	62	1	19
August . . . . .	..	3	13	46	1	..	63	3,755	9,840	403,700	400,700	55	..	11	14	3	9	35	1	..	..	49	..	6
September . . . . .	..	3	7	45	4	..	59	12,160	10,703	183,803	65,700	29	1	12	17	7	6	27	..	4	..	23	..	5
October . . . . .	..	6	7	57	1	1	72	6,069	16,839	577,839	239,896	37	1	16	18	2	34	3	1	1	1	46	..	7
November . . . . .	2	1	21	69	3	3	90	6,706	18,716	410,100	354,650	45	3	8	43	6	19	40	4	2	1	69	2	19
December . . . . .	4	5	26	79	4	2	121	47,988	168,310	1,375,350	1,297,263	69	4	9	49	4	15	70	7	3	..	57	3	14
Total . . . . .	30	30	116	401	22	10	679	\$167,722	\$398,965	\$5,305,563	\$4,002,461	334	14	94	237	41	100	314	28	33	6	433	16	82

TABLE NO. 2.  
 Exhibiting the Number of Alarms for the Days of the Week, from May 1, 1890, to Jan. 1, 1891.

MONTHS.	Sunday.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	TOTALS.	REMARKS.
May . . . . .	8	7	8	9	8	13	19	72	Alarms not included.
June . . . . .	13	16	14	12	10	13	7	86	
July . . . . .	7	8	13	14	26	29	11	108	2 seconds and 2 thirds not included.
August . . . . .	6	6	8	7	9	11	16	63	
September . . . . .	8	7	17	6	6	9	6	69	1 second not included.
October . . . . .	8	8	21	9	11	12	8	72	1 second not included.
November . . . . .	12	5	15	10	17	22	17	99	
December . . . . .	17	18	23	24	11	14	14	121	2 seconds and 2 thirds not included.
Totals . . . . .	86	70	119	61	65	123	68	676	9 seconds and 4 thirds not included.

TABLE NO. 3.

Exhibiting the Number of Alarms for each Hour of the Day, from May 1, 1890, to Jan. 1, 1891.

Months.	12 to 1 A.M.	1 to 2 A.M.	2 to 3 A.M.	3 to 4 A.M.	4 to 5 A.M.	5 to 6 A.M.	6 to 7 A.M.	7 to 8 A.M.	8 to 9 A.M.	9 to 10 A.M.	10 to 11 A.M.	11 to 12 A.M.	Total A.M.	12 to 1 P.M.	1 to 2 P.M.	2 to 3 P.M.	3 to 4 P.M.	4 to 5 P.M.	5 to 6 P.M.	6 to 7 P.M.	7 to 8 P.M.	8 to 9 P.M.	9 to 10 P.M.	10 to 11 P.M.	11 to 12 P.M.	Total P.M.	Grand Total
	May	9	..	4	..	1	2	2	4	1	1	4	0	97	2	5	8	4	2	4	..	6	9	2	..	2	45
June	1	..	1	1	1	2	1	2	1	2	3	1	22	7	5	6	5	3	5	4	11	5	2	2	2	63	85
July	..	..	1	2	1	2	2	3	4	3	3	3	30	2	2	3	3	4	4	11	6	7	8	7	5	69	108
August	..	..	4	2	1	2	..	2	1	1	5	3	22	2	..	3	4	3	5	2	2	9	0	1	1	46	63
September	1	1	..	1	1	1	1	4	3	2	6	4	22	4	4	1	2	2	2	1	5	4	2	6	2	37	50
October	..	..	2	1	4	1	4	3	..	..	5	1	20	..	..	1	1	2	6	9	6	4	9	4	2	46	72
November	2	2	..	1	..	2	3	..	5	4	4	4	23	1	0	0	8	7	10	0	5	10	7	6	2	71	90
December	..	..	2	2	2	1	4	2	5	7	5	7	34	5	2	3	5	6	7	1	11	14	11	7	7	37	221
Totals	30	38	13	13	11	12	12	22	24	15	37	30	251	24	21	52	37	40	43	41	44	68	50	33	25	458	679

TABLE No 4.

Showing the Number of Alarms for the Different Sections of the City, from May 1, 1890, to Jan. 1, 1891.

MONTHS.	BOSTON.				So. BOSTON.				EAST BOSTON.				ROXBURY.				DORCHESTER.				CHARLESSTOWN.				W. Roxbury.				BRIGHTON.				Total Alarms.
	Bells.	Sills.	Falls.	Needles.	Total.	Bells.	Sills.	Falls.	Needles.	Total.	Bells.	Sills.	Falls.	Needles.	Total.	Bells.	Sills.	Falls.	Needles.	Total.	Bells.	Sills.	Falls.	Needles.	Total.	Bells.	Sills.	Falls.	Needles.	Total.			
May . . . . .	17	10	5	27	8	3	11	6	3	8	1	9	1	3	8	1	8	5	3	1	8	5	3	1	8	2	1	1	3	3	1	4	72
June . . . . .	26	7	6	39	5	5	6	3	3	6	5	6	1	11	4	13	6	4	18	1	21	2	2	1	3	2	1	1	3	3	3	85	
July . . . . .	25	15	3	43	4	4	13	3	4	9	5	5	1	10	5	2	7	10	6	15	6	8	9	3	2	2	4	3	2	5	108		
August . . . . .	23	4	11	38	1	8	4	1	5	4	5	1	9	3	3	4	6	1	7	1	7	1	1	1	3	1	1	1	3	3	83		
September . . . . .	19	7	5	31	3	5	6	3	2	5	3	1	2	6	1	8	3	5	11	2	1	3	1	3	1	1	1	1	1	3	99		
October . . . . .	30	13	1	44	6	4	6	3	1	6	3	1	4	2	1	2	5	1	3	6	1	1	1	1	3	1	1	1	1	1	72		
November . . . . .	32	18	3	53	6	8	3	1	4	3	8	1	13	4	6	1	10	1	3	1	4	2	1	6	4	1	1	1	1	4	99		
December . . . . .	31	24	2	58	5	6	3	1	11	8	3	1	6	12	6	3	18	8	2	1	10	10	3	1	15	5	4	1	1	1	121		
Totals . . . . .	303	95	7	405	44	57	1	8	71	30	10	4	46	37	33	5	6	70	38	14	1	6	52	57	25	2	19	82	12	7	3	679	

TABLE NO. 5.

*Showing the Different Causes of Fires and Alarms, from  
May 1, 1890, to Jan. 1, 1891.*

Alarms, accidental, <i>automatic</i> . . . . .	17
“ needless . . . . .	94
“ false . . . . .	14
“ out-of-town fire . . . . .	5
Ashes, hot, in wooden receptacle . . . . .	11
Boiling over of tar . . . . .	5
“ “ fat or glue-pot . . . . .	6
Bonfires . . . . .	31
Boiler explosion . . . . .	1
Building fire with kerosene . . . . .	6
Chimneys, burning of soot in . . . . .	10
Careless use of lamps, candles, etc. . . . .	8
“ “ fire . . . . .	3
“ — pipe or cigars . . . . .	13
“ — smoking . . . . .	6
“ — clothes too near stove . . . . .	1
Defective flue . . . . .	15
“ stove-pipe . . . . .	2
“ grate . . . . .	2
“ furnace . . . . .	1
Electric-light wires . . . . .	17
Explosion of chemicals . . . . .	3
Fireworks . . . . .	13
Friction of machinery . . . . .	7
Gas, explosion of . . . . .	2
“ ignition of leaky pipe . . . . .	3
“ jet setting fire . . . . .	24
Hot iron and coals igniting wood-work . . . . .	3
Incendiary . . . . .	13
“ supposed . . . . .	12
Ignition of spirits, etc. . . . .	4
Light mistaken for fire . . . . .	2
Kerosene lamp, breaking or explosion of . . . . .	29
“ “ upsetting of . . . . .	7
“ stove, careless use and explosion of . . . . .	14
Matches and rats . . . . .	15
“ careless use of . . . . .	22
“ children playing with . . . . .	39
Overheated stove . . . . .	10
“ furnace or oven . . . . .	14
“ steam-pipe . . . . .	3

## FIRE DEPARTMENT REPORT.

XXV

Ruins rekindling . . . . .	2
Slacking of lime . . . . .	2
Smoke or steam mistaken for fire . . . . .	5
Spontaneous combustion . . . . .	25
Sparks from another fire . . . . .	2
"    "    furnace or stove . . . . .	14
"    "    engine . . . . .	2
"    "    locomotive . . . . .	6
"    "    forge . . . . .	2
"    "    chimney . . . . .	16
Unknown . . . . .	90
Upsetting stove . . . . .	1
Water-pipes, thawing out of . . . . .	3
Wood in oven igniting . . . . .	2
Total . . . . .	<hr/> 679

CASUALTIES.

Name.	Company.	Date.	Box.	Injury.
Flanagan, T. B.	Ladder Co. No. 1	July 21, 1890	14	Arm injured.
Johnson, A. E.	" " 1	December 30, "	28	Eye injured.
Fischlmann, John	" " 5	June 8, "	121	Back injured.
Black, D. S.	" " 6	July 4, "	.....	Trampled on by horse in stall.
Black, D. S.	" " 6	November 4, "	.....	Injured by horse in stall.
Crafts, Geo. G.	" " 8	October 15, "	.....	Foot injured by nail in quarters.
Boothby, J. F.	" " 10	October 5, "	.....	Wrist cut.
Rooney, Robert	" " 12	November 15, "	621	Ankle sprained.
Barnes, D. B.	" " 12	June 16, "	65	Ankle sprained.
Coulter, W.	" " 12	August 2, "	87	Finger cut.
Brell, J. F.	" " 15	October 25, "	256	Leg fractured coming down sliding pole.
Hortley, T. J.	Hoos "	November 25, "	53	Knee injured.
O'Seal, T. C.	" " 7	June 21, "	83	Hand injured exerting horses.
McWhirk, J. F.	" " 7	September 25, "	.....	Tendon of leg ruptured.
Smith, Jos.	Chemical Eng. Co. No. 2	October 7, "	129	Head cut by glass.
Madison, John E.	" " " 2	May 10, "	63	Arm injured.
Cheeswell, W. T.	District Chief	October 5, "	33	Ribs broken by a collision.
Evaas, T. H.	Engine Co. No. 1	July 21, "	14	Foot injured.
Lewis, W. H.	" " 2	July 2, "	118	Leg injured by fall.
	" " 2	October 18, "	121	

Name	Engine Co. No.	Month	Day	Age	Days	Particulars
Russell, D. J.	"	June	4	4	1	Hand hit by horse in quarters.
Amaden, Edwin	"	November	25	25	1	Foot sprained in quarters.
O'Connor, J. J.	"	December	24	24	69	Arm injured.
McCarthy, J. J.	"	December	5	4	1	Foot injured by horse in quarters.
Lannery, John R.	"	June	14	14	15	Head injured, thrown from truck &
Smith, Chas. P.	"	July	2	2	15	Cut by glass.
Theoburn, J. H.	"	December	5	5	148	Foot injured, thrown from horse-wagon.
O'Brien, C. J.	"	"	5	4	148	Hip " " " "
Smith, C. P.	"	"	5	5	148	Leg and wrist injured, thrown from horse-wagon.
Beland, T. P.	"	November	14	14	28	Arm injured.
Adams, H. W.	"	December	3	3	1	Horse stepping on foot at hose & quarters.
Hearn, C. J.	"	October	20	20	1	Back injured in quarters.
Donahoe, J. R.	"	November	19	19	1	Knee injured by fall.
Rolon, C. F.	"	July	7	7	1	Ankle sprained at drill school.
McCarthy, B.	"	December	7	7	Still	Leg injured by fall on ice.
Garland, R. F.	"	October	8	8	95	Back sprained.
Dawson, Gardner	"	November	21	21	1	Leg broken at trial of engine.
Johanson, E. D.	"	"	26	26	1	Arm injured at drill school.
Murray, J. S.	"	August	12	12	67	Ankle sprained.
Bolton, J. T.	"	December	24	24	69	Foot injured.
Crowley, W. E.	"	November	19	19	817	Hip injured at quarters.
O'Connell, J. F.	"	"	5	5	1	Head injured at drill school.
Crosby, F. M.	"	July	2	2	40	Right arm torn off by being caught in engine. Died in hospital July 3.

CASUALTIES. — *Continued.*

Name.	Company.	Date.	Box.	Injury.
Haley, James A. . . . .	Engine Co. No. 26 . . . . .	July 30, 1910	46	Cut by glass.
Peckham, H. A. . . . .	" " 26 . . . . .	August 30, "	131	Thrown from District Chief Regan's wagon.
Brockett, L. W. . . . .	" " 32 . . . . .	September 24, "	434	Knee injured.
Williams, G. R. . . . .	" " 37 . . . . .	June 26, "	. . . . .	Knee sprained at quarters.
Cresgan, J. T. . . . .	" " 37 . . . . .	November 5, "	219	" " at fire.

## THE FIREMEN'S RELIEF FUND.

The trustees of this fund, for the year ending Dec. 31, 1890, submitted a statement showing the net proceeds of the ball given in its aid to be \$15,064.30. Of the disbursements, \$15,700.53 were on account of relief, \$20,000 was invested in a City of Boston bond.

The amount of money invested April 30, 1890, was \$104,000.

Respectfully submitted,

ROBERT G. FITCH,  
JOHN R. MURPHY,  
GEORGE H. INNIS,  
*Fire Commissioners.*

STEAM FIRE-ENGINE COMPANIES.

No.	Location.	Built by.	Put in Service.	CYLINDERS.		PUMPS.		Capacity of Waterworks at 200 revolutions per minute.	
				Diameter.	Stroke.	Number.	Stroke.		
1	Dorchester, near Fourth, S. W.	Amosberg Mfg. Co.	Sept. 17, 1873	7½	8	4½	8	Double.	600 gallons.
2	Fourth st., cor. O, S. R.	Harrison & Co.	Nov. 15, 1867	7½	8	4½	8	Double.	600 gallons.
3	Marble cor., cor. Bristol.	Clapp & Jones	Aug. 23, 1868	8	8	5½	8	Double.	900 gallons.
4	Dalhousie st.	Manchester Locom. Works	May 2, 1868	6½	8	4½	8	Double.	300 gallons.
5	Marble cor., E. R.	Amosberg Mfg. Co.	Nov., 1868	7½	8	4½	7	Double.	600 gallons.
6	Leverett st.	Sibley Mfg. Co.	April 13, 1868	Rotary				Rotary.	700 gallons.
7	East st.	Clapp & Jones	April 16, 1868	8	7	2	7	Double.	600 gallons.
8	Arden st.	Freeman & Jorlot	April 28, 1868	7½	8	4½	6	Double.	600 gallons.
9	Paul st., E. R.	Harrison & Co.	Oct. 14, 1873	7½	8	4½	8	Double.	600 gallons.
10	Cor. Vermont and Riverside.	Amosberg Mfg. Co.	Feb. 1, 1870	7½	8	4½	8	Double.	500 gallons.
11	Seaver st., E. R.	Amosberg Mfg. Co.	April 9, 1873	6½	8	4½	8	Double.	300 gallons.
12	Dudley st.	Amosberg Mfg. Co.	March 27, 1883	4½	8	4½	8	Double.	600 gallons.
13	Calcut st.	Freeman & Jorlot	April 16, 1878	7½	8	4½	8	Double.	500 gallons.
14	Centre st.	Amosberg Mfg. Co.	Sept. 17, 1878	6½	8	4½	8	Double.	600 gallons.
15	Dorchester cor. and Broadway.	Amosberg Mfg. Co.	Dec. 1, 1880	7½	8	4½	8	Double.	600 gallons.
16	Towley st., Dorchester	Sibley Mfg. Co.	April 8, 1880	Rotary				Rotary.	700 gallons.
17	Meritag House Hill	Amosberg Mfg. Co.	Sept. 1, 1879	7½	8	4½	8	Double.	600 gallons.
18	Haward st., Dorchester	Manchester Locom. Works	Nov., 1880	6½	8	4	8	Double.	600 gallons.
19	Nash st., Dorchester	Wm. Miller	Dec. 27, 1880	8	7½	5½	7½	Single.	600 gallons.
20	Water st., Dorchester	Manchester Locom. Works	Nov., 1880	6½	8	4	8	Double.	600 gallons.
21	Boston st., Dorchester	Manchester Locom. Works	Oct. 16, 1880	6½	8	4½	8	Double.	600 gallons.
22	Dorchester st.	Sibley Mfg. Co.	Aug. 7, 1882	Rotary				Rotary.	700 gallons.
23	Northampton st.	Sibley Mfg. Co.	Sept. 10, 1880	Rotary				Rotary.	700 gallons.
24	Warren cor. Queen st.	Clapp & Jones	Feb. 23, 1885	7	7	4½	7	Double.	600 gallons.
25	Foot Hill st.	Clapp & Jones	Nov., 1886	8	8	5½	8	Double.	900 gallons.
26	Mass st.	Clapp & Jones	April 1, 1888	8	7	4	7	Double.	600 gallons.
27	Elm st., Charleston	Amosberg Mfg. Co.	July 1, 1872	7½	8	4½	8	Double.	600 gallons.
28	Centre st., W. Roxbury	Sibley Mfg. Co.	April 28, 1888	Rotary				Rotary.	700 gallons.
29	Charter st., Brighton	Harrison & Co.	Jan. 1, 1874	7½	8	4½	8	Double.	500 gallons.
30	Mt. Vernon st., W. Roxbury	Harrison & Co.	July 3, 1885	7	8	4-8-10	8	Single.	525 gallons.
31	South side India wharf	Clapp & Jones	July 3, 1888	10	10	8	10	2 sets of pumps.	6,414 gallons.
32	Dorchester Hill st., Charleston	Manchester Locom. Works	March 28, 1888	6½	8	4½	8	Double.	600 gallons.
33	Dighton st., Charleston	Sibley Mfg. Co.	Feb. 26, 1888	Rotary				Rotary.	700 gallons.
34	Wentworth st.	Harrison & Co.		7½	8	4-8-10	8	Double.	600 gallons.
35		Clapp & Jones	Aug. 8, 1890	8	8	6½	8	Double.	900 gallons.
36		Manchester Locom. Works	Dec., 1890	6½	8	4	8	Double.	600 gallons.
37		Amosberg Mfg. Co.	July 1, 1897	7½	8	4½	8	Double.	600 gallons.
38	Not in service	Clapp & Jones	Nov., 1869	8	8	5½	8	Double.	900 gallons.
	Water-Tower	Krauss City Fire Department Supply Co.	May 16, 1893	Height 14 feet.					
	Water-Tower	Krauss City Fire Department Supply Co.	Nov., 1899	Height 25 feet.					

In Reserve.

Hotel B. Old No. 6	Amosberg Mfg. Co.		6½	8	4½	8	Double.	600 gallons.
" C.	Harrison & Co.	Oct., 1873	7½	8	4½	8	Double.	600 gallons.
" E. "	Amosberg Mfg. Co.	Nov., 1867	7½	8	4½	8	Double.	600 gallons.
" F. " Myan	Amosberg Mfg. Co.	Sept., 1868	8	12	4½	12	Double.	825 gallons.
" G.	Sibley Mfg. Co.	Sept., 1899	Rotary					600 gallons.
Old No. 17	Harrison & Co.	March, 1867	7½	8	4½	8	Double.	500 gallons.
" "	Sibley Mfg. Co.	July, 1899	Rotary					700 gallons.
Now	Sibley Mfg. Co.	Aug., 1899	Rotary					700 gallons.
" "	Manchester Locom. Works	Dec., 1890	6½	8	4	8	Double.	600 gallons.

CHEMICAL-ENGINE COMPANIES.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Press.	Capacity, Gals.	NUMBER OF MEN.		
						Permanent.	Call.	Total.
1	Balfinch street.....	Babcock Manufacturing Co.....	Oct. 4, 1880.	5,080	100	5	.....	5
2	Church street.....	" ".....	April 25, 1874.	5,200	100	5	.....	5
3	Longwood avenue.....	" ".....	July 27, 1874.	2,720	100	3	1	4
4	Washington street, Roselleville.....	" ".....	Jan. 20, 1875.	2,705	100	2	2	4
5	Engleton square.....	C. H. Holloway.....	Sept. 21, 1876.	5,134	170	3	.....	3
6	So. Harvard street.....	Babcock.....	May 1, 1876.	5,020	140	3	.....	3
7	Cor. Saratoga and Byron sts., E.E.	Altered by Hunsan.....	Sept. 27, 1880.	3,000	100	3	.....	3
8	B street, S.E.	" ".....	Oct. 27, 1887.	5,120	100	3	.....	3
9	Main street, Charlestown.....	Rebuilt by Hunsan.....	July 17, 1880.	2,690	100	3	.....	3
10	Eastia street, Roxbury.....	" ".....	Sept. 13, 1889.	2,690	100	3	.....	3
<b>In Reserve.</b>								
11	Repair shop.....	Rebuilt by Hunsan.....	July 17, 1880.	2,600	100			
A	" ".....	Babcock Manufacturing Co.....	Nov. 21, 1874.	3,740	100			
One New.	" ".....	" ".....	Oct. 4, 1890.		100			

## HORSE-HOSE COMPANIES.

Number.	Location.	Built by.	Put in Service.	Weight as drawn to Fire.	Number of Men.		
					Permanent.	Call.	Total.
3	Winthep street, Charlestown.....	Amoskeag Manufacturing Co.....	Sept. 13, 1888.	2,830	2	9	11
5	Stavmut avens.....	L. B. Button, N.Y.....	Sept. 17, 1870.	2,850	3	.....	3
6	Chelsea street, E.R.....	Hanneman & Co.....	Sept. 1, 1890.	2,400	2	5	7
7	Trumont street.....	Amoskeag Manufacturing Co.....	July 4, 1893.	2,830	3	.....	3
8	No. Grove street.....	" " " ".....	July 4, 1893.	3,175	5	.....	5
10	Dorchester street, S.E.....	" " " ".....	March 1, 1893.	2,560	5	.....	5
12	Fourth, between K and L sts., S.B.....	William Ghehrst.....	June 11, 1873.	2,800	4	.....	4

In Reserve — Hose-Carriage Belief, A, B, C, D, E, F. Also 2 new Hose Wagons.

HOOK-AND-LADDER COMPANIES,

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fire.	Number of Ladders.	NUMBER OF MEN.		
						Forma- ment.	Chd.	Total.
1.	Warren square.....	Abbott-Dovring Co.....	Dec. 30, 1890.	8,800	12	13	.....	13
2.	Sumner street, cor. Orleans, E. B. ....	Wm. Hunt.....	October, 1893.	6,000	12	2	9	11
3.	Harrison ave., cor. Bristol st. ....	Abbott-Dovring Co.....	June 2, 1886.	9,535	22	17	.....	17
4.	Dudley street, Highland District ..	Hunnsman & Co. ....	April 15, 1872.	8,065	26	10	.....	10
5.	Fourth street, near Doxchester.....	" "	March 3, 1876.	6,040	17	10	.....	10
6.	Temple street, Doxchester.....	" "	August 15, 1873.	6,043	19	1	9	10
7.	Keating House Hill .....	Jacobs & Freeman .....	January, 1869.	6,000	14	2	9	11
8.	Fort Hill square.....	Abbott & Downing .....	Jan. 26, 1860.	9,535	14	17	.....	17
9.	Main street, Charleston.....	Leverick & Co., N. Y. ....	Oct. 4, 1872.	4,320	10	3	15	18
10.	Centre street, Jamaica Plain.....	Hunnsman & Co. ....	Dec. 31, 1870.	5,400	12	1	9	10
11.	Chaumont Hill avenue, Brighton ..	" "	January, 1874.	4,350	13	1	11	12
12.	Tremont street, Highland District ..	Ryan Bros .....	July 31, 1850.	6,550	15	13	.....	13
13.	Washington street, near Dever .....	La. France Fire-Engine Co., Elmira, N. Y. ....	March 12, 1890.	6,800	Hayes Extension.	4	.....	4
14.	Fort Hill square.....	La. France Fire-Engine Co., Elmira, N. Y. ....	April 25, 1884.	8,265	Hayes Extension.	.....	*	.....
15.	Boyleston street.....	Fire Extinguisher Manuf. Co., Chicago.....	April 28, 1888.	10,600	Extension.	13	.....	13
16.	Rockdale .....	Royal's Shop .....	September, 1886.	5,400	15	2	5	7

\* In charge of Hook and Ladder No. 4.

HOOK-AND-LADDER COMPANIES, — IN RESERVE.

Number.	Location.	Builders.	Put in Service.	Weight as drawn to Fires.	Number of Ladders.
	Bealief A, old 2	Hunneman & Co	April 25, 1883.	5,373	
	" B, old 8	Repair Shop			
	" C, old 1.				
	Aerial Ladder	Aerial Ladder Co.	March 28, 1876.	6,000	
	Old one	Hunneman	Dec. 29, 1876.	5,306	
	One new	Abbott-Downing Co.	1880.	9,333	

FUEL-WAGONS.

Location.	Builder.	Put in Service.	Number of Coal Boxes.	Weight of Wagon.	Weight of Coal.
Engine-house No. 11, Summer street, E. Boston	Abbott & Dowling	1865.	8	1,280 lbs.	800 lbs.
Coal Depot, Main street, Charlestown.	Abbott & Dowling	1865.	8	1,280 "	1,600 "
Engine-house No. 29, Chestnut Hill avenue.	J. T. Ryan	1870.	10	1,650 "	1,800 "
Engine-house No. 29, Chestnut Hill avenue.	J. T. Ryan	1870.	10	1,650 "	2,000 "
Engine-house No. 8, North Grove street.	J. T. Ryan	1873.	8	1,075 "	2,052 "
Hook & Ladder No. 3, Harrison avenue.	J. T. Ryan	1873.	8	1,075 "	1,250 "
Engine-house No. 19 M. Vernon street.	J. T. Ryan	1873.	8	1,200 "	800 "
Engine-house No. 18, Harvard street, Dorchester District.	J. T. Ryan	1871.	8	1,780 "	2,000 "
Engine-house No. 14, Tappan street, Dorchester District.	J. T. Ryan	1871.	8	1,273 "	1,400 "
Engine-house No. 14, Tappan street, Dorchester District.	J. T. Ryan	1871.	8	1,116 "	1,300 "
Engine-house No. 28, Centre street, West Roxbury District.	A. D. Ryan	1873.	6	1,116 "	1,300 "
Engine-house No. 33, Abbott street.	J. T. Ryan	1870.	10	1,715 "	1,900 "
Engine-house No. 8, North Grove street.	J. T. Ryan	1873.	10	1,700 "	2,000 "
Engine-house No. 9, Park street, E. Boston.	Abbott-Dowling Co.	Jan. 3, 1873.	10	1,800 "	2,000 "
Engine-house No. 12, E. Fourth street, So. Boston	Abbott-Dowling Co.	Sept. 26, 1877.	10	1,800 "	2,000 "
Engine-house No. 24, Warren street.	J. T. Ryan	1883.	8	1,750 "	1,900 "
Engine-house No. 30, North street, Dorchester District.	J. T. Ryan	April 13, 1881.	4	750 "	500 "
Engine-house No. 40, Westing House Hill.	J. T. Ryan	1881.	8	1,050 "	1,250 "
Engine-house No. 17, Meeting House Hill.	J. T. Ryan	May 1, 1886.	8	1,050 "	1,250 "
Engine-house No. 25, Northampton street.	J. T. Ryan	1881.	8	1,050 "	1,250 "
Coal Depot, Shaving street.	J. T. Ryan	1881.	8	1,050 "	1,250 "
Engine-house No. 38, West Roxbury	The Department Shop	Feb. 16, 1887.	6	1,400 "	1,000 "
Engine-house No. 35, West Roxbury	Abbott-Dowling Co.	Feb. 30, 1888.	8	1,675 "	1,250 "
Engine-house No. 12, Dudley street.	Abbott-Dowling Co.	Oct. 9, 1888.	10	1,750 "	2,000 "
Engine-house No. 84, Western avenue, Brighton	Abbott-Dowling Co.	Nov. 1, 1888.	8	750 "	500 "
Engine-house No. 36.	Abbott-Dowling Co.	Sept. 24, 1890.	8	750 "	500 "
Engine-house No. 37.	Abbott-Dowling Co.	Sept. 13, 1890.	8	750 "	500 "
Engine-house No. 14.	Abbott-Dowling Co.	Sept. 23, 1890.	8	750 "	500 "

Fuel-wagons in reserve, 1 old.  
Two new wagons.

## SALT-PUNGS.

District.	Location.	No.	Miscellaneous.
1.....	Engine-house 9.....	1	
2.....	Engine-house 27.....	1	District Chief's Pungs, 8.
3.....	Engine-house 8.....	1	Spare Pungs, 1.
4.....	Engine-house 3.....	1	Caravan.
5.....	Engine-house 26.....	1	
6.....	Engine-house 1.....	1	Wagons (District Chief's), 11.
7.....	Engine-house 3.....	1	Wagons, Spare, 6.
7.....	Engine-house 23.....	1	
8.....	Engine-house 29.....	1	
8.....	Engine-house 13.....	1	Supply Wagons, 2.
8.....	Engine-house 14.....	1	
9.....	Ladder-house 4.....	1	
9.....	Engine-house 17.....	1	
9.....	Engine-house 12.....	1	
10.....	Engine-house 28.....	1	
10.....	Engine-house 18.....	1	
Spare.....	At Shop.....	2	
	Fire Alarm Dept.....	2	

During the past year (May 1, 1890, to January 1, 1891), 173 hydrants have been established and 39 abandoned, as follows:—

	ESTABLISHED.					ABANDONED.					Net Increase.
	Boston Lowry.	Post.	Lowry.	Boston.	Total.	Boston Lowry.	Post.	Lowry.	Boston.	Total.	
City Proper . . . . .	22	6	8	0	16	0	0	1	5	9	7
South Boston . . . . .	0	3	2	0	5	0	0	0	1	1	5
East Boston . . . . .	1	6	1	0	8	1	1	1	1	4	4
Roxbury . . . . .	10	10	4	0	24	3	0	1	3	7	17
Dorchester . . . . .	23	24	1	1	49	2	0	3	2	7	42
West Roxbury . . . . .	17	12	0	0	29	5	0	0	0	5	24
Brighton . . . . .	11	11	2	1	25	4	1	0	0	5	20
Charlestown . . . . .	4	0	3	0	7	0	0	0	1	1	6
Totals . . . . .	68	79	24	2	173	15	2	6	16	39	134

## TOTAL NUMBER OF HYDRANTS, JANUARY 1, 1891.

	Boston Y.	Boston Lowry.	Post.	Lowry.	Boston.	Total.
City Proper . . . . .		68	205	664	303	1440
South Boston . . . . .	1	17	74	200	272	554
East Boston . . . . .		24	78	127	131	350
Roxbury . . . . .		52	118	664	136	909
Dorchester . . . . .		164	227	372	81	1054
West Roxbury . . . . .		146	353	113	55	654
Brighton . . . . .		50	202	96	36	354
Deer and Long Islands and Quincy . . . . .			21			21
Charlestown . . . . .		27	49	192	8	281
Totals . . . . .	1	567	1312	2608	1189	5677

ESTIMATED VALUE OF PROPERTY UNDER CHARGE OF THE  
BOARD OF FIRE COMMISSIONERS.*Apparatus.*

46 Steam Fire Engines . . .	\$100,000 00	
13 Chemical Engines . . .	17,000 00	
21 Ladder Trucks . . .	26,200 00	
2 Water Towers . . .	8,100 00	
1 Fire Boat . . .	50,000 00	
32 Coal Wagons . . .	6,400 00	
49 Hose Wagons . . .	12,250 00	
18 Salt Pungs . . .	450 00	
9 Pungs . . .	250 00	
17 District Chiefs' Wagons . . .	2,375 00	
2 Supply Wagons . . .	300 00	
1 Caravan . . .	200 00	
	<hr/>	\$223,525 00

*Horses, Etc.*

195 Horses . . .	\$39,000 00	
200 Harnesses . . .	10,000 00	
	<hr/>	49,000 00

*Hose.*

74,000 feet . . .	20,000 00
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*Furniture, Bedding, and House Supplies.*

20 Permanent Engine Cos. . .	\$13,300 00	
15 Call Engine Cos. . .	7,875 00	
9 Permanent Ladder Cos. . .	4,500 00	
7 Call Ladder Cos. . .	2,800 00	
10 Chemical Engine Cos. . .	3,000 00	
7 Hose Companies . . .	2,100 00	
1 Fire Boat . . .	200 00	
	<hr/>	33,775 00

*Fire Hats, Etc.*

Fire Hats . . .	\$2,000 00	
Badges and Devices . . .	1,609 50	
Buttons . . .	2,534 18	
Fire-alarm Keys . . .	500 00	
	<hr/>	6,643 68

Carried forward,

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\$332,943 68

*Brought forward,* \$332,943 68

*Apparatus Repair Shop.*

Machinery . . . . .	\$8,000 00	
Stock and Store House supplies,	6,000 00	
Harness stock and supplies . .	1,360 05	
Old material at shop . . . . .	2,500 00	
	<u>          </u>	17,860 05

*Headquarters.*

Store House supplies . . . . .	1,000 00	
Total . . . . .	<u>          </u>	<u>\$351,803 73</u>

Expenditures of the Fire Department from May 1, 1890, to January 1, 1891.

	Expenditures, February, March, April, 1890.	May.	June.	July.	August.	September.	October.	November.	December.	January.	Total.
Salaries	\$19,315 43		\$29,393 27	\$16,825 39	\$20,860 28	\$21,221 50	\$19,430 32	\$20,226 81	\$21,719 10	\$20,991 96	\$202,071 42
Repairs of apparatus	15,278 97	\$623 27	3,633 00	2,100 15	2,208 41	4,791 03	2,491 73	2,659 34	2,864 94	2,156 32	41,869 26
Repairs of hoses	339 15	66 83	547 72	351 00	230 94	431 31	53 39	391 36	152 02	250 42	2,425 07
New hose	1,601 02	1,664 30		81 75	2,117 90			231 92	1,360 11		7,206 70
Repairs of hose	335 11		50 00	49 00	22 50	65 91	30 75	165 00	60 04	85 44	986 90
Fuel for engines and hoses	4,002 23	1,165 15	486 40	534 59	365 86	124 03	889 52	1,708 79	2,993 70	848 80	13,993 70
Gas	2,616 91	914 44	510 70	654 70	632 82	262 36	171 82	927 44	427 03	1,033 77	8,159 82
Printing and stationery	430 80	264 13	70 11	132 84	216 72	271 80	196 70	217 25	114 46	38 98	2,110 31
Furniture, bedding, etc.	601 02	381 36	108 70	428 31	275 70	108 38	583 30	473 40	348 43	251 79	3,137 71
Small supplies and equipments	103 95	173 41	166 20	237 35	164 92	61 31	10 50	394 43	44 17	366 43	2,337 36
Horses purchased and exchanged	2,100 00		1,456 00	368 00	1,699 00	533 00	28 67		1,263 00		7,277 67
Hay, grain, straw, etc.	4,100 84	623 72	1,233 81	1,678 90	1,860 57	1,295 91	1,490 91	2,261 73	1,246 31	2,064 81	19,417 06
Horse-hire, keeping, etc.	42 50	128 74	75 90	112 85	20 22	64 58		89 17	18 63	30 10	638 23
Washing	814 48	292 96	228 28	366 96	332 22	269 31	311 17	388 38	616 76	325 24	2,669 99
Shoeing	1,289 00	183 39	150 81	344 63	733 42	499 37	563 03	186 47	569 29	770 18	6,274 75
Harness and repairs	951 08	341 09	151 28	61 23	203 57	110 54	311 25	243 87	608 29	101 88	3,669 04
Oils, etc.	213 02	41 92	31 65	35 75	261 26	140 20	10 00	721 85	100 18	92 42	1,714 39
Hats, badges, buttons, etc.	380 25	118 74	40 30	367 01		365 38	13 00	1,350 36	16 55	65 00	3,479 26
Lockers and repairs	2 00		300 00		32 00					360 00	774 00
Tools, and machinery for shop	106 67	23 75					8 00	44 90	47 50	10 92	222 40
New apparatus	7,658 00			588 00	175 00		412 00	245 00	3,900 00	350 00	14,938 00
Extra services	62 00	225 00	12 40	68 00	72 34	667 81	63 73	199 84	734 94		1,929 42
Water for horses and boat		1,664 75									1,664 75
Contingencies	674 02	1 20	1,561 26	381 29	37 50	302 00	298 43	36 82	1,081 92	221 10	4,291 69
Building hydrants		11 00									11 00
Pensions	2,918 80		948 87	979 37	971 22	1,487 88	1,622 77	1,625 46	1,033 85	1,697 98	11,131 33
Damage to property		31 85		45 86	23 00	6 96		66 40			150 01
Cambridge fair								400 00			400 00
Rental of telephones		1,628 00						119 26			1,747 26
Fire-alarm equipments		30 00	30 25	67 75	1,192 37	241 31	1,194 44	87 31	224 40		3,447 07
Water, and keeping in repair hydrants and reservoirs		71,028 40									71,028 40
	\$238,180 49	\$91,610 37	\$72,375 02	\$26,301 86	\$54,369 44	\$78,000 85	\$61,226 72	\$65,629 46	\$85,723 37	\$69,421 38	\$2,019,695 97
Equipment	4,370 00		7,000 00			17,228 00	8,775 00	2,600 00	8,268 00	6,863 00	54,034 00
Check, East Boston				200 00							200 00

Expenditures of the Fire-Alarm Telegraph for 1890.

	February.	March.	April.	Total.
Salaries	\$1,850 00	\$1,900 00	\$1,115 20	\$4,865 20
New construction	208 00	382 29	2,360 40	3,050 69
Repair-shop work	10 88	15 05	5 48	31 41
Printing and stationery	70 45		86 34	156 79
Damages	6 18		11 20	17 38
Cambridge observatory				
Contingencies	82 70	300 78	40 25	423 73
	\$2,457 71	\$2,699 79	\$1,598 78	\$6,756 28
East Boston check			700 00	700 00