ANNUAL REPORT

OF THE

FIRE DEPARTMENT
AND WIRE DIVISION

OF THE

CITY OF BOSTON

FOR THE

YEAR ENDING DECEMBER 31, 1928

CITY OF BOSTON
PRINTING DEPARTMENT
1929

ANNUAL REPORT

OF THE

FIRE DEPARTMENT
AND WIRE DIVISION

OF THE

CITY OF BOSTON

FOR THE

YEAR ENDING DECEMBER 31, 1928

CITY OF BOSTON
PRINTING DEPARTMENT
1929

Boston Fire Department
October 17, 1931

OFFICIALS OF THE DEPARTMENT.

EUGENE C. HULTMAN,
Fire Commissioner.

HERBERT J. HICKEY,
Executive Secretary of the Department.

DANIEL F. SENNOTT,
Chief of Department.

GEORGE L. FICKETT,
Superintendent of Fire Alarm Division.

WALTER J. BURKE,
Superintendent of Wire Division.

EDWARD E. WILLIAMSON,
Superintendent of Maintenance Division.

ALBERT J. CAULFIELD,
Deputy Chief in Charge of Fire Prevention Division.

WILLIAM J. MCNALLY, M. D.,
Medical Examiner.

[Document 12 — 1929.]

ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE YEAR 1928.

Boston, January 2, 1929.

Hon. Malcolm E. Nichols,
Mayor of the City of Boston.

Dear Sir,— I have the honor to submit herewith the following report of the activities of the Boston Fire Department for the year ending December 31, 1928, as required by section 24, chapter 4, of the Revised Ordinances of 1925.

Fire Loss.

The total fire loss for 1928 in the City of Boston as estimated by the insurance companies amounted to $3,887,250. This loss is divided as follows, and compared with the loss for 1926 and 1927:

Year.	Buildings and Contents Insured Reported by Insurance Companies.	Buildings and Contents Uninsured Estimated by Insurance Companies.
1926	$4,991,952	$208,613
1927	3,501,794	192,847
1928	3,436,300	450,949

The above table shows that the insured loss reported by the insurance companies for the year 1928 is approximately 2 per cent less than in 1927, while compared with 1926 the insured loss in 1928 is 31 per cent less. On the other hand the uninsured loss estimated by the insurance companies for 1928 is 134 per cent greater than in 1927 and 116 per cent greater than in 1926. This apparently strange phenomenon of the insured loss constantly being reduced while the estimates of the insurance companies of uninsured losses during the same period have increased so largely, the Fire Commissioner is not able to satisfactorily answer.

For purposes of general comparison it is interesting to note that during 1928 when the loss in Boston decreased 2 per cent in insured losses that the total fire loss of the Commonwealth of Massachusetts showed an increase of 15 per cent.

During 1928 four large fires account for approximately $900,000 of the loss, namely:

		Insured Loss.
January 6	65 Tolman street	$137,570
April 15	Back Bay Station	220,000
April 28	26 and 28 Pittsburgh street	152,934
June 17	Rear of 312 Congress street	45,161

In addition to the insured loss on the foregoing fires the insurance companies added an estimated uninsured loss of $140,359 to the Back Bay Station fire and an estimated uninsured loss of $156,696 to the fire at rear of 312 Congress street as total of approximately $300,000 in uninsured loss on two fires.

These four fires, which caused over 25 per cent of the total loss for the year were all in buildings not equipped with automatic sprinklers. The cause of the fire in each case where it was possible to determine it was due to carelessness.

The fire loss in this city cannot be reduced to an amount that is reasonable until such time as the law gives to officials, charged with prevention of fires, authority to order the installation of sprinklers, and the public has been awakened by proper education to the criminal waste of the Commonwealth's productive

efforts by carelessness and negligence resulting in the tremendous destruction of life and property which now is occurring.

There were 7,696 alarms of fire during 1928, an increase of 364 over the year of 1927, but this increase is due to the fact that the city was visited by an epidemic of false alarms during 1928. In the past year there were 1,804 false and needless alarms as compared with 1,229 in 1927, an increase of 575. Active measures have been taken to reduce the number of false alarms which I believe will be effective.

FIRE PREVENTION.

The department has continued to carry out the policy of fire prevention so earnestly supported by your Honor. The inspection force was increased in numbers in order to meet the demands of this important division.

During the year all classes of buildings were inspected by members of this division as follows:

Buildings inspected	242,203
Buildings reinspected	9,265
Corrections by personal contact	30,275
Notices served at time of inspection	5,559
Personal inspections by officers in charge	1,794
Oil burner inspections	1,704
Oil burner reinspections	469
Oil burner defects corrected	417

Reports of hazardous conditions were sent to other departments as follows:

To Building Department, violation of building law	757
To State Fire Marshal	118

Eight hundred and six notices were sent to owners and occupants to correct hazardous conditions, and were followed up by inspections until conditions were corrected. Six hundred and twenty-five personal services were made by the constable attached to the Fire Prevention Division. Fifteen convictions were obtained during the year for failure to comply with the orders of the Fire Commissioner to remedy hazardous conditions.

The subject of arson and suspicious fires received the constant attention of the division and 104 suspicious fires were reported to the State Fire Marshal.

In addition to the inspections made by the inspection force of the Fire Prevention Division the following inspections were made by district and company officers.

Building inspections	41,553
Theater inspections	4,237
Schoolhouse inspections	3,841
Car house inspections	114
Public building inspections	930
Total number of inspections by Fire Prevention Division, district and company officers, including initial and reinspections of all types of buildings,	339,906

NEW EQUIPMENT.

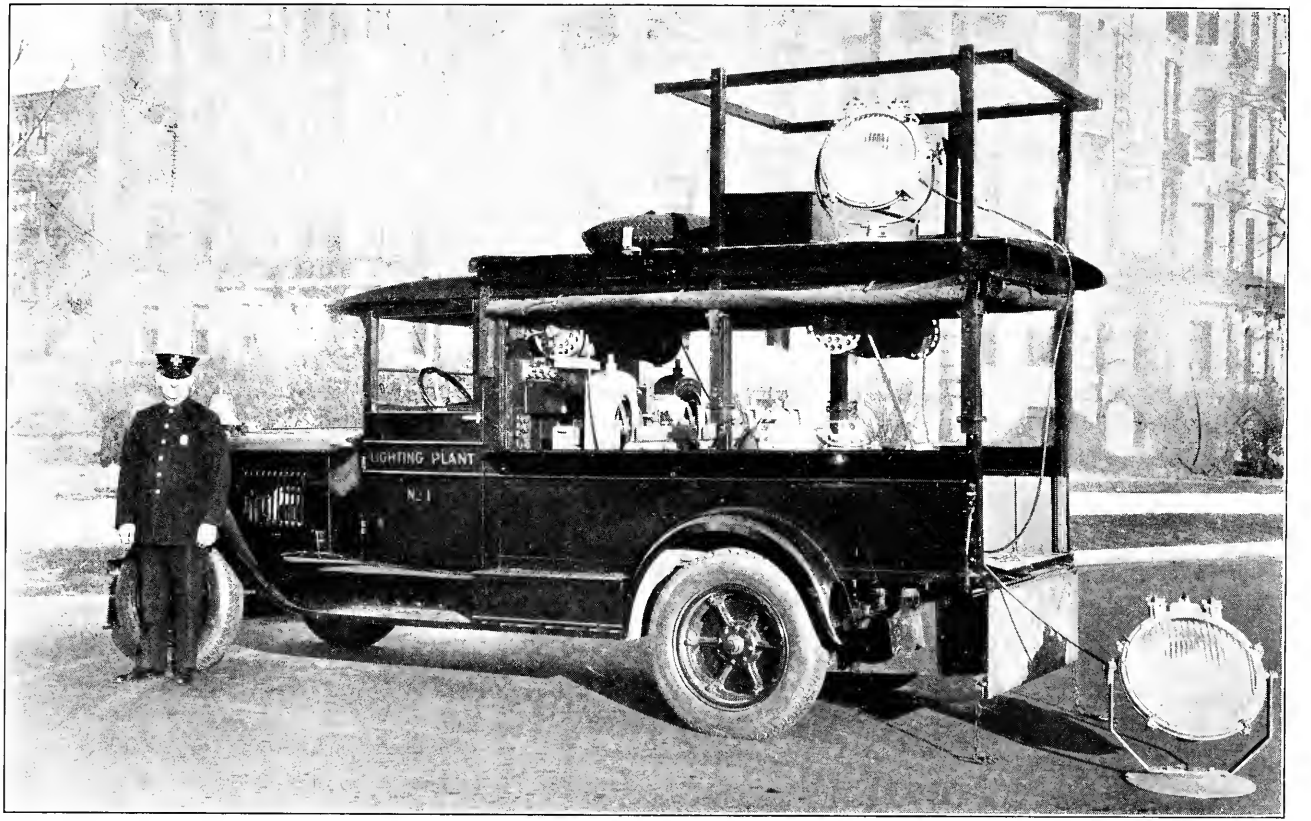
The department continued the policy established in 1927 of furnishing the men with humane equipment in order to remove some of the hazards encountered in the performance of their duties.

Four hundred and twenty-seven individual Wheat lights were furnished to Engines 1, 2, 3, 5, 9, 10, 11, 12, 13, 14, 15, 17, 18, 21, 22, 23, 24, 25, 26, 27, 29, 32, 33, 35, 36, 37, 38, 39, 40, 41, 43, 44, 47, 50, 52; Ladders 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 26, 29, 31. Rescue 1; Towers 1, 2, 3; Division 1, 2 and 3 cars; Districts 1, 2, 3, 5, 6, 7, 8, 9, 10, 11 cars; Assistant Chief of Department and the Emergency Crew of the Maintenance Division.

All service gas masks were placed in the following companies: Ladders 8, 10, 12, 13, 15, 17, 18, 23, 24, 28 and 30; Rescue 2. Six masks were placed on the cars of the following district chiefs: 2, 9, 10, 12, 13 and 14.

During the year the department constructed a new lighting plant in order to furnish light at night fires and at fires where buildings were heavily charged with smoke. The truck was manufactured by the General Motors Company and the following light equipment was assembled by the maintenance shop and installed on the truck.

2 Model K 2,000-watt Kohler electric plants.
2 Type LCE 20-cast aluminum floodlights, having 20-inch hammered glass reflectors, arranged for 750 or 1,000 watt lamps.
2 Type LCE 16-cast aluminum floodlights, having 16-inch hammered glass reflectors, arranged for 500-watt lamps.
4 250-foot lengths of cable and connections, one for each light.
2 125-foot lengths of cable and connections additional.



NEW LIGHTING PLANT.—EQUIPPED BY THE MAINTENANCE SHOPS OF THIS DEPARTMENT.

Since the truck was installed it has given excellent service and has been of considerable assistance in reducing the fire loss and the possibility of serious accident to the men.

Other modern appliances of various kinds were placed in service in different companies.

Buildings.

Two new fire stations were opened during the year. One at Broadway, city proper, and the other at Parish street, Meeting House Hill.

On February 5, 1928, this department took possession of the new fire station on Parish street, Meeting House Hill. This building took the place of two old fire stations which were occupied by the same companies, and sleeping quarters and an office were provided for the District Chief of District No. 10. The building is of brick and limestone trimmings, three stories in height and is equipped with all the modern conveniences for a fire station. The cost of erection and construction was $104,703.33 above the land.

On April 17, 1928, the department took possession of the new building on Broadway, between Shawmut avenue and Washington street, and the following companies were quartered in that building: Engine Company 26, Engine Company 35, Rescue Company 1, and Water Tower Company 2. Offices and sleeping quarters were provided for the Chief and Assistant Chief of department, and the District Chief of District No. 5.

The building was erected at a cost of $210,540.90 above the land. The building is 84 feet wide by 105 feet long, three stories in height, of fireproof construction and embodies all the modern requirements of a building of this character. One of the particular features of this building is that the station is equipped with the latest type of electrical signaling system, so that by a series of lights operated from the patrol booth the members are informed as to just what apparatus responds to each alarm of fire. This is necessary because of the fact that four companies are quartered in this building.

A new concrete floor was installed in the quarters of Engine Company 19, Babson street, Mattapan, and other changes were made in the building in order to meet the requirements of the present day need.

A new concrete floor was installed in the quarters of Engine Company 34, Western avenue, Brighton, and extensive alterations made to meet the requirements of that company.

A new concrete floor was installed in quarters of Engine Company 45, Washington and Poplar streets, Roslindale, and the department is now remodeling this building so that the accommodations will be practically the same as they would be if a new building was erected on this site.

A new concrete floor was installed in the quarters of Engine Company 36, Monument street, Charlestown, and other extensive changes were made in this building in order to put it in first-class condition as a fire station.

Throughout the department many improvements and changes have been made in the fire stations. Many buildings have been painted throughout, roofs repaired, plastering renewed, and new window and door screens furnished. Metal weather stripping has been furnished for the doors and windows of several stations, not only for the protection of the health of the men, but for the conservation of heat.

Fire Apparatus.

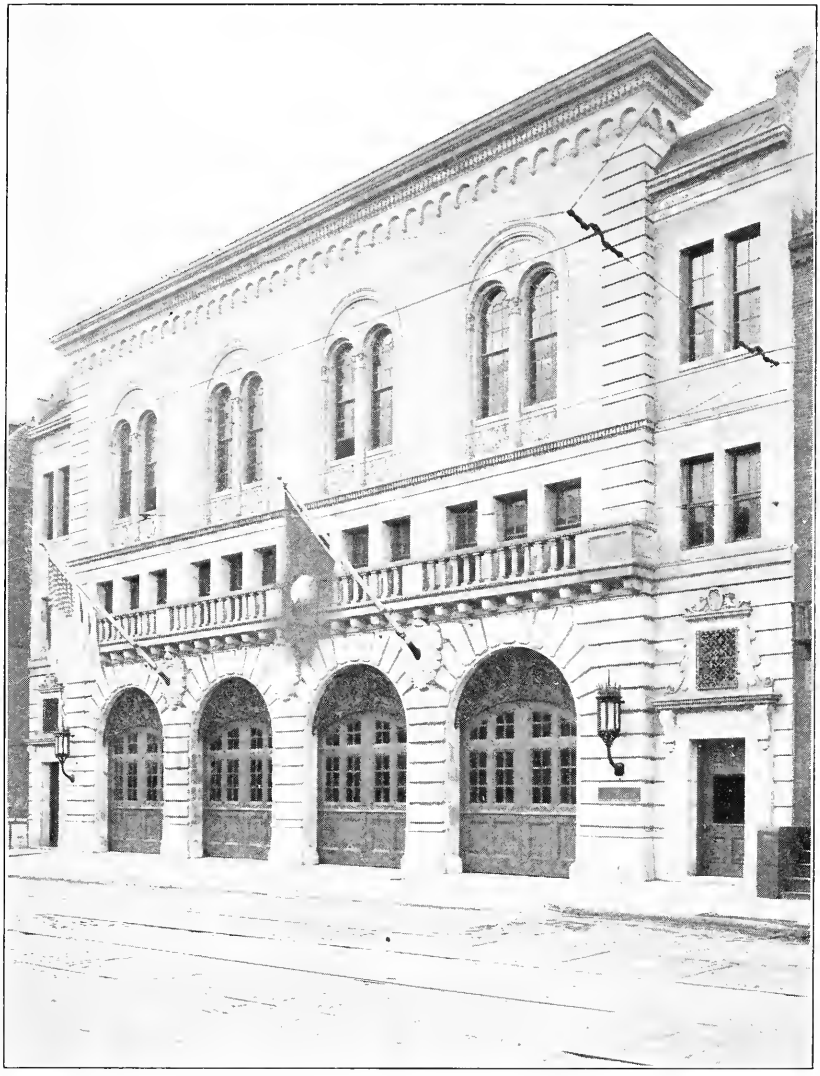
During the year the following new equipment was purchased, tested and placed in service.

6 Combination chemical and hose cars.
6 Aerial ladder trucks.
1 Combination pumper and hose car.
11 Chiefs' cars.
2 Roadsters with pickup bodies.
1 Coupe.

Ten pieces of major apparatus and seven smaller cars were traded in as part payment for new equipment.

In addition to the new equipment purchased, the following pieces of apparatus were painted during the year:

8 Pumpers.
6 Hose cars.
6 Ladder trucks.
1 Tractor.
10 Chiefs' cars.
9 Commercial trucks.
1 Lighting plant.



NEW FIRE STATION FOR ENGINE COMPANY 26–35, BROADWAY, CITY PROPER.—ACCEPTED FEBRUARY 5, 1928.

The following equipment received a general overhauling and was put in first-class condition by the shop mechanics:

11 Pumpers.
9 Hose cars.
4 Ladder trucks.
14 Chiefs' cars.
3 Commercial trucks.

Every effort has been made to keep the rolling stock of the department in the very best condition.

On the present motor equipment of the department fifty self-starting units, generators, and batteries were installed. In the first years of motor apparatus there were no self-starters and in later years the self-starter had not been developed sufficiently to be reliable. At the present time a satisfactory self-starter can be installed on the apparatus to make it more efficient and to eliminate the danger of injury to men from cranking.

Changes are being made in several pieces of apparatus in order to equip them with pneumatic tires. To do this, it is necessary to cut down the wheels. The installation of heavy pneumatic tires is prolonging the life of the apparatus.

FIREBOATS.

The three fireboats of the department were taken out of service for annual inspection by the United States steamboat inspectors, and at the same time were given a complete overhauling in order that they would be in a seaworthy condition. Approximately $12,600 was expended in making repairs to the fireboats during the year.

HOUSE EQUIPMENT.

The equipment of the houses has received careful attention and renewals have been made wherever necessary. New hot water heaters were installed in fifteen houses. This will eliminate the necessity of keeping a separate hot water heater burning to provide hot water for the house.

DRILL SCHOOL.

During the year thirty-nine appointees successfully passed the intensive course of instruction in the Department Drill School, together with officers and members of other departments.

Pump School.

Thirty-four officers and one hundred and six privates attended the course of instruction at the gasolene pump school and qualified as motor pump operators.

Chauffeurs' School.

Forty-six members of the department received instruction in the chauffeurs' school during the year and were certified as operators of department motor apparatus. In addition, special instructions were given to various members in different companies.

Company Drills.

The regular weekly company drills, under the supervision of district chiefs in the various districts, were held, and in addition lectures were given by deputy chiefs on the subjects of fire fighting, building inspection, etc., to the different companies in their divisions. In addition, in order to establish a uniform method of operation at fires the assistant chief of department was detailed to conduct a series of company drills throughout the department where companies worked under conditions, as near as it was possible to make them, as those encountered at fires.

Hydrants.

The following is a list of hydrants in service for fire purposes on December 31, 1928, showing the number and different types of same:

	Public.	Private.
Ordinary	4,098	136
Boston post	2,903	21
Lowry	1,090	31
Boston Lowry	455	5
B. & F. post	1,921	5
High pressure	451	
Boston	126	114
Chapman post	111	55
Ludlow post	7	13
Matthew post	.....	4
Coffin post	.....	1
Totals	11,162	385

OLD QUARTERS ENGINE 17 AND LADDER 7, PARIS STREET, MEETING HOUSE HILL.

NEW DISTRICT LINES.

The district lines of the various fire districts were revised during the year and new lines established in order to equalize the work of the various district chiefs. The lines have not been changed for many years and the constant growth of the city made it necessary that a new adjustment be made.

HIGH PRESSURE STATION.

The records of our two high pressure stations for the year are as follows:

	Station No. 1.	Station No. 2.
Total alarms to which pumps responded.....	220	181
Water discharge recorded on Venturi meters*..	3,600 gallons	1,500 gallons

*Owing to the construction of the Venturi meters, they do not record flows under 600 gallons per minute.

At the present time the high pressure system includes 16.80 miles of pipe with 451 high pressure hydrants.

CLOTHING.

ARTICLE.	Received and Distributed.	Repaired.	Reissued.
Trousers.....	1,273	1,074	31
Sack coats.....	428	180	79
Rubber fire coats.....	338	585	13
Overcoats.....	515	72	98
Fire hats.....	194	284	19
Uniform caps.....	830		
Chin straps.....	70		

MEDICAL.

Number of cases of illness on file	350
Number of cases of injury on file	1,559
Number of injured, but remained on duty . . .	1,313

EXAMINATIONS.

Inspections and examinations at Headquarters (recorded)	1,634
For appointment as probationary firemen	47
For appointment from probationary to permanent men,	29
At engine houses and at hospitals and also homes of firemen either sick or injured	1,500

The number of sick and injured this year was but slightly increased over last year. The number injured and remaining on duty was greatly increased, there being on file more than 464 cases of minor injuries than in the year 1927, in all 1,634. First aid service to citizens as well as firemen has been as prompt and efficient as ever.

FIRE ALARM DIVISION.

OPERATING RECORDS.

First alarms	3,821
Second alarms	87
Third alarms	27
Fourth alarms	6
Total	3,941

BOX ALARMS RECEIVED BUT NOT TRANSMITTED.

Same box received two or more times for same fire	278
Adjacent box received for same fire	235
Received from boxes but treated as stills	2
Total	515

STILL ALARMS RECEIVED AND TRANSMITTED.

Received from citizens by telephone	2,476
Received from Police Department by telephone	241
Received from Fire Department Stations	1,104
Received from boxes but treated as stills	2
Mutual aid alarms, adjacent cities and towns, classified as stills	50
Emergency services, classified as stills	106
Total	3,979

Still alarms received by telephone for which box alarms were later transmitted	263

NEW FIRE STATION ENGINE 17 AND LADDER 7, PARIS STREET,
MEETING HOUSE HILL.—ACCEPTED APRIL 17, 1928.

AUTOMATIC AND A. D. T. ALARMS.

Boston Automatic Fire Alarm Company:	
Transmitted by company to department stations	127
Department box alarms transmitted in connection with same:	
Before automatic alarms	3
After automatic alarms	7
American District Telegraph Company:	
Received at fire alarm office	38
Department box alarms transmitted in connection with same:	
Before A. D. T. alarm was received	4
After A. D. T. alarm was transmitted	1
Received A. D. T. alarm after still alarm was transmitted	3
A. D. T. alarms transmitted to department	31

SUMMARY OF ALARMS.

Alarms received:	
Box alarms, including multiples	4,456
Still alarms, all classes	3,979
Boston automatic alarms	127
A. D. T. alarms	38
Total received from all sources	8,600
Exclude following duplications:	
Box alarms received but not transmitted	515
Still alarms for which box alarms were transmitted,	263
Automatic alarms for which box alarms were transmitted	10
A. D. T. alarms for which other alarms were later transmitted	8
Total	796
Total alarms, with duplications eliminated, to which department apparatus responded	7,804

FIRE ALARM BOX RECORDS.

Boxes from which no alarms were received	429
Box test and inspections	11,346

NOTE.— All keyless doors are tested weekly.

CONSTRUCTION WORK.

A larger amount of underground cable (nearly 64,000 feet) was installed this year than usual due principally to the fact that cable ordered in 1927 was accepted too late to be installed until this year. About 4,000 feet of

ducts were laid underground, 38 posts were set, 8 were relocated and 20 were replaced by new. Automobiles caused damage to 74 posts. Fifty-five new fire alarm boxes were installed and 8 were removed from service. All boxes and posts were painted.

The bells in all keyless doors, nearly 1,000 in number, were removed as well as the glass key guards on boxes in Hyde Park. Advantage was taken by irresponsible and malicious persons of the fact that the warning signal was eliminated and the number of false alarms increased from 335 in 1927 to 871 in 1928. An increase of false alarms is always expected when a change in the type of box is made, to last until the newness is worn off, and toward the end of the year the number gradually diminished to normal. The probability of failure to sound the alarm, because of the misunderstanding caused by the ringing of the bell, has undoubtedly been eliminated.

The numbers of 423 boxes were changed, which included all boxes in East Boston and Charlestown as well as all private boxes. All boxes are being changed to strike three blows a second, the same as the tapper service. By speeding up, the average box will now transmit the first round of its signal in about six seconds.

All of the old obsolete, sector type boxes, about 875 in all, which have served so long, are still in service. An appropriation should be made to replace at least half of them with modern boxes this coming year. Fourteen more siren horns to warn traffic of the approach of fire apparatus were installed making a total of 23 horns and 22 bells now in service.

In order to overcome some difficulties encountered an increase in power from $7\frac{1}{2}$ watts to 50 watts for station WEY. at fire alarm headquarters was granted by the Radio Commission and orders were issued for a new set. Radio service between headquarters and the fire boats has been excellent.

UNDERGROUND CABLES INSTALLED.

East Boston.

	Cond.	Feet.
Prescott street, from Eagle street to Saratoga street	10	1,137
Saratoga street, from Austin avenue to Annavoy street	6	1,576
From Ladder 31 house to Day square	2	750

Charlestown.

	Cond.	Feet.
Engine house 32 to Main street	2	750

City Proper.

Marlborough and Hereford streets, from Massachusetts avenue to Newbury street	19	1,567
Washington and Warrenton streets, from Kneeland street, to Engine House No. 26,	19	1,396
Warrenton street, from Engine House 26 to Tremont street	19	1,020
Brimmer street, from Beacon street to Chestnut street	10	362
Walnut street, from Mt. Vernon street to Chestnut street	10	170
Warren avenue, from Columbus avenue to West Brookline street	10	263
Fairfield street, from Boylston street to Commonwealth avenue	6	697
Revere street, from Anderson street to Grove street	6	539
Commercial street from Endicott street to Charter street	6	853
Exeter street, from Huntington avenue to Boylston street	6	612
Huntington avenue and Garrison street, from West Newton street to St. Botolph street,	4	814
Harrison avenue, from Waltham street to Randolph street	4	619
Post connections	10	125
Post connections	6	109
Post connections	4	240

South Boston.

N street, from Bateman place to Columbia road	4	418
East Eighth street, from L street to N street,	6	1,384
Pole connections	6	130

Dorchester.

East Cottage street, from Columbia road to Humphreys street	6	954
Mt. Vernon street, at railroad	6	861
Quincy street, from Bellevue street to Columbia road	6	854
Arcadia park, Ditson and Charles streets to Geneva avenue	6	1,367
Centre street, from Allston street to Codman square	6	1,463

	Cond.	Feet.
Morton street, from Oakridge street to Norfolk street	6	4,759
Morton street, from Blue Hill avenue to Harvard street	6	2,173
Woodrow avenue, from Norfolk street to Ballou avenue	6	1,040
Homes avenue and Bowdoin street, from Geneva avenue to Oakley street	6	821
Washington street, from Welles avenue to Roslin street	6	660
Post and pole connections	20	170
Post and pole connections	10	271
Post and pole connections	6	145
Post and pole connections	4	965
Hyde Park.		
River street, at railroad bridge	15	480
Post and pole connections	6	224
Post and pole connections	4	430
Roxbury.		
Rockland street, from Warren street to Rockland avenue	10	579
Rockland street, from Walnut avenue to Rock street	10	666
Queensberry street, from Kilmarnock street to Audubon road	6	515
Longwood avenue, from Brookline avenue to Vila street	6	930
Parker street, from Tremont street to Heath street	6	2,429
Heath street, from Parker street to Schiller street	6	1,937
New Heath street, from Columbus avenue to Parker street	6	701
Magazine street, from George street to Engine 12	6	1,028
Massachusetts avenue and Magazine street, from Shirley street to Norfolk avenue	6	1,590
Perrin street, from Moreland street to Alaska street	6	1,202
Howard avenue, from Quincy street to Cunningham street	6	429
Coventry street, from Tremont street to Columbus avenue	6	365
Weston street, from Tremont street to Columbus avenue	6	300
Columbus avenue, from Massachusetts avenue to Camden street	6	574

	Cond.	Feet.
From Engine 24 to pole on Holborn street	4	665
Elm Hill avenue, from Cheney street to Seaver street	4	1,159
Post and pole connections	10	135
Post and pole connections	6	160
Post and pole connections	4	420
Jamaica Plain and West Roxbury.		
South street from Eliot street to Asticou road,	30	3,927
Weld Hill street, from Hyde Park avenue to Wenham street	10	398
Ashland street, from Hyde Park avenue to Washington street	10	4,562
Fairview street, from Robert street to South street	6	606
Florence street, from Ashland street to Hawthorne street	4	459
Post and pole connections	20	70
Post and pole connections	15	130
Post and pole connections	10	120
Post and pole connections	6	60
Post and pole connections	4	925
Brighton.		
Allston street, from Warren street to Bellvista road	6	430
From Engine 29 to Box 5271	2	930
Post and pole connections	6	347
Brookline.		
Washington street, from Village square to Fire Headquarters	4	1,412

BOX POSTS INSTALLED WITH DUCT LENGTHS.

City Proper.	
Union and Friend streets	9
Commercial and Charter streets	24
Revere street, opposite Irving street	5.5
Revere and Grove streets	8
Bowdoin and Derne streets	19
Chestnut and Walnut streets	4.5
Chestnut and Brimmer streets	21.5
Beach and Lincoln streets	14.5
Harrison avenue and Randolph street	16
Warren avenue and West Brookline street	27
Berkeley and Newbury streets	26
Dartmouth and Newbury streets	31
Dartmouth and Appleton streets	54.5
Commonwealth avenue and Fairfield street	13

Dorchester.

	Feet.
Columbia road and Quincy street	17
Bowdoin street, opposite Oakley street	203
Dorchester avenue and Greenmount street	88
Oakridge street and Southern Artery	100

Roxbury.

Columbus avenue and Coventry street	348
Columbus avenue and Weston street	286
Audubon road and Queensberry street	152
Commonwealth avenue and Ashby street	64
Elm Hill avenue and Seaver street	18.5
Harrison avenue and Hunneman street	26
Perth and Fayston streets	73
Blue Hill and Lawrence avenues	9.5
Heath and Walden streets	46

Brighton.

Allston street and Elizabeth avenue	97
Strathmore and Orkney roads	11.5
Sparhawk and Menlo streets	188
Cambridge and Windom streets	28

Hyde Park.

Sunnyside street, near Roxana street	80
Glenwood square	291

Jamaica Plain.

Dunster road and Dane street	379

POSTS REPLACED BY NEW.

(*Broken by Vehicles.*)

Pinckney and Anderson streets.
Jersey and Queensberry streets.
Albany and Way streets.
Marlborough and Gloucester streets.
Blue Hill avenue and Intervale street.
Atlantic avenue and Long Wharf.
Washington street, opposite Roslin street.
East Eighth and Old Harbor streets.
Roxbury and Kent streets.
Massachusetts avenue and Clapp street.
Church and Winchester streets.
Hemenway street, opposite Gainsborough street.
Sixty-two other posts were broken and parts were replaced.

Miscellaneous Causes.

Commonwealth avenue and Exeter street (defective duct).
Water and Gray streets (out of plumb).
Warren avenue, near bridge (defective gas connection).
Cambridge street, near gas works (raised).
River street and Reddy avenue (lowered).
Chestnut avenue and Chestnut place (defective gas connection).
Baxter and D streets (raised).
River and Malta streets (raised).

Box Posts Relocated.

	Feet, Duct Laid.
Harrison avenue and Kneeland street.	
River and Massasoit streets.	
Ashland street and Brown avenue	10
Ashland and Sheldon streets	27
Dorchester avenue and Park street	17
Commonwealth avenue and Essex street.	
River street and Metropolitan avenue.	
Cambridge and Spice streets.	

New Cable Posts.

	Feet.
Portland and Traverse streets (5 ducts)	47.5
Huntington avenue and Louis Prang street (4 ducts)	17.5
Hyde Park avenue and Ashland street (2 ducts)	48
Washington and River streets (small size).	

New Manholes.

Strathmore and Orkney roads.

New Handholes.

Columbia road and Quincy street.
Sunnyside street, near Roxana street.
Greenwood square.
Dunster road and Dane street.

New Pole Connections.

	Feet.
Holborn street and Holborn terrace	56
Oakridge and Morton streets	98
Randolph road and River street	175
Schiller and Heath streets.*	318
City square (elevated column)	23
Jerome street and Hancock street (extended)	142
Wood avenue and River street (extended)	144

* Installed by Telephone Company.

HOUSE CONNECTIONS.

	Feet.
Engine 34	100
Bowdoin School	50

DUCTS ABANDONED.

(Posts and Pole Connections.)

East Cottage street at Edward Everett square	25
Howard avenue at Dudley street	6
South Fairview street at Robert street	129
East Eighth street at L street	153
Morton street at Blue Hill avenue.	250
Norfolk avenue at Hampden street	70
Freeport street at Dorchester avenue	68
Hyde Park avenue and Weld Hill street	43
Ashland street at Hyde Park avenue	129
Ashland street at Washington	47
Parker street at Tremont	163
Columbus avenue at Ruggles street	6
Myrtle street at Bowdoin School	294
Dorchester avenue at Park street	35
Sullivan square	12

PUBLIC FIRE ALARM BOXES INSTALLED.

1215. Union and Friend streets.
1232. Commercial and Charter streets.
1353. Cambridge and North Grove streets.
1365. Revere and Grove streets.
1367. Bowdoin and Derne streets.
1373. Chestnut and Walnut streets.
1384. Chestnut and Brimmer streets.
1436. Beach and Lincoln streets.
1523. Tremont and Church streets.
1539. Newbury and Berkeley streets.
1556. Warren avenue and West Brookline street.
1571. Newbury and Dartmouth streets.
1577. Commonwealth avenue and Fairfield street.
1635. Harrison avenue and Randolph street.
2143. Perrin and Alaska streets.
2152. Rockland street and Rockland avenue.
2156. Rockland and Rock streets.
217. Holborn and Gannett streets.
2179. Elm Hill avenue and Seaver street.
2212. Columbus avenue and Camden street.
2217. Columbus avenue and Coventry street.
2262. Fort avenue and Highland Park street.
2317. Commonwealth avenue and Ashby street.
2348. Audubon road and Queensberry street.
2485. Custer and Goldsmith streets.

2714. Walter and Symmes streets.
2783. Sanborn avenue and Rumford road.
3168. Columbia road and Quincy street.
3177. Blue Hill and Lawrence avenues.
3239. Dorchester avenue and Greenmount street.
3286. Bowdoin and Oakley streets.
3433. Centre and Sanborn streets.
3531. Oakridge street and Southern Artery.
3546. Fottler road and Walk Hill street.
3568. Randolph road and Hollingsworth street.
3591. Wood avenue and Seminole street.
3715. Wood avenue and Westminster street.
5145. Allston street and Elizabeth avenue.
5168. Strathmore and Orkney roads.
5195. Bostonia avenue and Regent street.
5253. Sparhawk and Menlo streets.
6266. Saratoga and Annavoy streets.
7452. Columbia road and N street.

Schoolhouse Boxes Installed.

12–1515. Boys Continuation School, Warrenton street.
12–2516. Henry Abrahams School, Mehler street.
2734. Patrick F. Lyndon School, Russett road and Weld street.
3734. Hyde Park High School, Greenwood square.
3826. William Ellery Channing School, Sunnyside street.

Private Fire Alarm Boxes Installed.

14–1313. Boston Garden.
15–1653. Boston College High School, Harrison avenue.
12–2344. Post Office Garage, Boylston and Ipswich streets.
12–2353. Beth Israel Hospital, Brookline avenue.
4157. Boston and Maine Railroad yard, near shed No. 25.
4158. Boston and Maine Railroad yard, near shed No. 35.
4159. Boston and Maine Railroad Roundhouse.

Fire Alarm Boxes Relocated.

1363. From Bowdoin School to Irving street, opposite Revere street.
1545. From Rice School to Dartmouth and Appleton streets.
2121. From George T. Angell School to Harrison avenue and Hunneman street.
2221. From Columbus avenue and Walpole street to Columbus avenue and Weston street.
2484. From Jamaica street, opposite No. 45, to Jamaica street and Jamaica place.
2715. From Walter and Ashfield streets to Walter and Mendum streets.

3173. From Phillips Brooks School to Perth and Fayston streets.
3573. From Oakland and Tampa streets to Oakland street and Wood avenue.

FIRE ALARM BOXES REMOVED FROM SERVICE.

1316. North Station, Causeway and Nashua streets.
1317. North Station, Lowell and Brighton streets.
1335. Somerset and Allston streets.*
1483. Boys' Continuation School, Common street.
12–1625. Way Street School.
2734. Weld street and Russett road.*
3724. Greenwood square.*
468. Hood's Milk Depot, 494 Rutherford avenue.

FIRE ALARM BOXES IN SERVICE.

Total number	1,460
Owned by Fire Department	1,025
Owned by Schoolhouse Department	258
Owned by Boston Automatic Fire Alarm Company	51
Privately owned	126

FIRE DEPARTMENT BOXES.

On box posts	629
On poles	377
On buildings	15
In buildings	4
Equipped with keyless doors	894
Equipped with "quick-action" doors	125
Equipped with key doors	6
Equipped with auxiliary attachments	2
Succession type	371
Designated by red lights	751

SCHOOLHOUSE BOXES.

On box posts	55
On poles	23
On buildings	116
In buildings	64
Equipped with keyless doors	199
Equipped with key doors	53
Equipped with auxiliary attachments	255
Succession type	129
Designated by red lights	55

* Fire Department boxes removed from service and Schoolhouse boxes installed in place thereof.

Boston Automatic Fire Alarm Company Boxes.

On poles	4
On buildings	15
In buildings	32
Equipped with keyless doors	8
Equipped with key doors	43
Equipped with "quick-action" doors	3
Equipped with auxiliary attachments	51
Succession type	6

Private Boxes.

On poles	11
On buildings	39
In buildings	76
Equipped with keyless doors	14
Equipped with key doors	95
Equipped with "quick-action" doors	17
Equipped with auxiliary attachments	15
Succession type	80

Fire Alarm Boxes in Districts.

District 1	84	District 9	100
District 2	72	District 10	123
District 3	38	District 11	134
District 4	78	District 12	92
District 5	73	District 13	128
District 6	98	District 14	127
District 7	98	District 15	101
District 8	113		

Classification of Fire Alarm Boxes.

Academies	4	Prison	1
Adjoining city	1	Public halls	2
Airport	1	Railroad shops	5
Armory	1	Railroad stations	4
Asylums	4	Railroad yards	14
Car houses	9	Retail stores	4
Cemetery	1	Restaurant	1
City yard	2	Schoolhouses (public)	258
Garage	1	Schoolhouses (parochial)	5
Home for Aged People,	1	Stockyard	1
Hospitals	24	Street boxes (public)	1,015
Hotels	5	Theaters	28
Manufacturing plants	26	Warehouses	8
Museum	1	Wharves	9
Navy Yard	7	Wholesale houses	3
Office buildings	8		
Power stations	6		

POSTS AND CABLE TERMINAL BOXES.

Box posts in service	684
Cable posts in service (large size)	77
Cable posts in service (small size)	23
Pole cable boxes in service (underground connections),	256

CIRCUITS.

Box circuits	79
Tapper circuits	18
Gong circuits	16
Special signaling circuits	3
Telephone lines to department stations	68
Telephone lines to Kenmore Exchange	10
Special lines:	
Boston Protective Department	1
American District Telegraph Company	1
Boston Automatic Fire Alarm Company	1
Tie lines:	
Wire Division	1
Police Headquarters	1
Edison Electric Illuminating Company	1

FIRE ALARM APPARATUS.

Tappers in service	165
Boston tappers in adjoining cities and towns	10
Tappers connected to systems of adjoining cities and towns in Boston stations	6
Gongs in service	94
Combination sets (relays and tappers)	21
Registers in service (outside of fire alarm office)	29
Relays on tapper circuits (outside of fire alarm office)	24
Telephones in department system	152
Public telephones, rented by department	21
Traffic horns in service	23
Traffic bells in service	22

SUMMARY OF WORK DONE IN 1928.

	Approximate Number of Feet.
Line wire used in new work and replacements	12,300
Line wire removed from service	43,850
Aerial cable installed	2,500
Conductors in same	4,600
Aerial cable removed from service	1,075
Conductors in same	3,650
Underground cable installed	63,902
Conductors in same	548,221

	Number of feet. Approximate
Underground cable replaced	5,727
Conductors in same	57,854
Conduits laid underground	3,644
Ducts in same	3,934
Ducts abandoned	1,430
Manholes built	1
Handholes built	4
Fire alarm boxes installed by this department	43
Fire alarm boxes installed by Schoolhouse Department,	5
Fire alarm boxes installed on private property	7
Fire alarm boxes relocated	8
Fire alarm boxes removed from service	8
Box posts installed	34
Box posts relocated	8
Box posts reset or replaced by new	20
Cable posts installed	4
Cable posts relocated	1
Underground cable boxes attached to poles	6
Underground pole cable boxes removed from service	12

WIRE DIVISION.

The underground district for the year was prescribed in accordance with chapter 240, Acts of 1926, as follows:

Marginal street, East Boston, from Orleans to Jeffries street; Jeffries street, from Marginal to Maverick street; Tufts street, Charlestown, from Bunker Hill to Medford street; Corey street, from Moulton to Medford street; Warren street, from Thompson square to Park street; Park street, from Warren to Common street; Hancock street, Dorchester, from Columbia road to Bowdoin street; Bowdoin street, from Hancock street a distance of 1,132 feet to the present underground district 130 feet north of the north line of Quincy street; Ramsey street, from Dudley to Hamlet street; River street, Hyde Park, from present underground district at Edgewater drive, Mattapan, to present underground district at West street, Hyde Park; Carolina avenue, Jamaica Plain, from South street to Newbern street; Lane park, Brighton; Franklin street, Brighton, from Lincoln street northerly, a distance of 1,857 feet to a point 106 feet north of the north line of Weitz street.

The requirements of the law with regard to previously prescribed underground districts have been complied with to the satisfaction of the division.

During the year the fires and accidents due to electrical causes were with slight exceptions insignificant in character, the total insurance loss for fires in so far as could be determined being $11,957.36.

The income from permits to perform interior electrical work was $96,122.37.

INTERIOR DIVISION.

All new electrical construction in department stores, hotels, apartment houses, etc., of which the division had knowledge was carefully inspected, and where time and conditions permitted, old installations were inspected and changes where necessary in the interests of safety were called for.

Regular inspections of the permanent installations of theaters, places of amusement and public halls were also made in compliance with the law governing the same.

The division has been diligent in its endeavors to prohibit the installation and use of sub-standard equipments and materials, such as bridge lamps with improper cords feeding the same, electrical toys, curling irons, toasters, etc., which may prove to be a fire hazard if installed and used.

Following is a table showing a summary of the work of the division.

Notices of new work received	25,246
Number of permits issued to turn on current	18,343
Number of incandescent lamps inspected	2,026,943
Number of motors inspected	13,452
Number of buildings in which wiring was completely examined	5,152
Number of inspections made	45,940
Number of inspections made of theaters, places of amusement and public halls	1,325

During the year there were one hundred fires and three accidents to persons caused by electricity, as follows:

Fires in interior of buildings	96
Fires on poles	3
Fires in manholes	1
Injuries to persons	3

Exterior Division.

The underground district for the year 1928 as prescribed under authority of chapter 240, Acts of 1926, comprised the following streets:

East Boston.

Marginal street, from Orleans street to Jeffries street.
Jeffries street, from Marginal street to Maverick street.

Charlestown

Tufts street, from Bunker Hill street to Medford street.
Corey street, from Moulton street to Medford street.
Warren street, from Thompson square to Park street.
Park street, from Warren street to Common street.

Dorchester.

Hancock street, from Columbia road to Bowdoin street.
Bowdoin street, from Hancock street a distance of 1,132 feet to the present underground district 130 feet north of the north line of Quincy street.
Ramsey street, from Dudley street to Hamlet street.

Mattapan and Hyde Park.

River street, from present underground district at Edgewater drive, Mattapan, to present underground district at West street, Hyde Park.

Jamaica Plain.

Carolina avenue, from South street to Newburn street.

Brighton.

Lane park.
Franklin street, from Lincoln street northerly, a distance of 1,857 feet to a point 106 feet north of the north line of Weitz street.

Making a total distance of four miles as provided by law.

In these prescribed streets from which poles and overhead wires were to be removed, there were standing, on January 1, 1928, a total of one hundred eighty-four (184) poles (not including the trolley poles of the Boston Elevated Railway, which are exempt), supporting a total of six hundred forty-five thousand eight hundred (645,800) feet of overhead wires, or a little more than one hundred twenty-two (122) miles, owned by the Edison Electric Illuminating Company, New England Telephone and Telegraph Company, Charlestown Gas and Electric Company, Boston Fire

Department (Fire Alarm Branch), Boston Police Department (Police Signal Service) and American District Telegraph Company.

In addition to the regular inspection work necessary on account of new construction the inspection of old overhead construction is also included in the duties of our inspectors.

During the past year the inspectors of this division have reported ninety-six (96) poles decayed at base and twenty (20) poles leaning or a total of one hundred sixteen (116) poles, which were replaced by new poles or reset by the various companies at the request of this department.

Sixty-five (65) abandoned poles were also reported by our inspectors and were removed by the owners at our request.

The following table shows the overhead work from January 1 to December 31, 1928, inclusive:

Number of new poles in new locations	424
Number of poles replaced, reset or straightened	683
Number of poles removed	310
Number of poles now standing in the public streets	18,030
Number of defects reported	1,525
Number of defects corrected	1,219
(Other defects in process of correction.)	
Number of notices of overhead construction	12,482
Number of overhead inspections	19,493
Number of overhead reports	9,135
Amount of overhead wires removed by owners (in feet)	1,724,763

UNDERGROUND CONSTRUCTION.

The ducts used for the underground conduits of the drawing-in system are of the following type:

1. Vitrified clay (laid in concrete).
2. Fiber (laid in concrete).
3. Iron.
4. Wood.

In side or residential streets a considerable amount of special underground construction for electric light and power purposes (110–220 volts) of a type known as the "Split Fiber Solid Main System" has been installed.

The electrical approvals for underground electrical construction numbered 5,080.

Number of inspections of underground construction, 8,888.

Number of reports of underground electrical construction, 4,912.

Character of Cable Used by the Various Companies.

COMPANY.	Kind of Insulation.	Size.
Boston Elevated Railway	Rubber and paper	No. 4/0 to 3,000,000 C. M.
Boston Fire Department (Fire Alarm Branch).	Rubber	2 to 30 conductor.
Boston Police Department (Police Signal Service).	Rubber	7 conductor.
Boston Schoolhouse Commission	Rubber	4 and 6 conductor.
Charlestown Gas and Electric Company.	Rubber, varnished cambric, paper.	6 to 4/0.
Edison Electric Illuminating Company.	Rubber and paper	No. 10 to 1,500,000 C. M.
New England Telephone and Telegraph Company.	Paper, pulp, rubber, silk and cotton.	2 to 1,212 pair.
Western Union Telegraph Company and Mutual District Messenger Company.	Rubber and paper	11 to 125 pair.

Table Showing Underground Work for the Year 1928.

COMPANY.	Feet of Conduit.	Feet of Duct.	Feet of Cable.	Number of Manholes.	Number of Services.
Boston Elevated Railway	3,368	13,312	85,419	14	
Boston Low Tension Wire Association.	343	446			
Boston Schoolhouse Commission	.....	.....	1,788		
Boston & Maine Railroad	156	1,560			
Charlestown Gas and Electric Company.	5,881	34,723	66,866	8	101
Edison Electric Illuminating Company.	70,856	399,068	1,501,179	287	2,588
Fire Alarm Branch (B. F. D.)	784	2,597	63,902	.....	35
New England Telephone and Telegraph Company.	9,822	33,796	133,723	11	84
Police Signal Service (B. F. D.)	214	364	20,850	.....	5
Western Union Telegraph Company and Mutual District Messenger Company.	.....	.....	3,119		
Totals	91,424	485,866	1,876,846	320	2,813

NOTE.— "Split Fiber Solid Main System" is included in the above figures, comprising 12,981 feet of conduit and 25,562 feet of duct of the Edison Electric Illuminating Company and 3,387 feet of conduit and 6,596 feet of duct of the Charlestown Gas and Electric Company.

Table Showing the Amount and Distribution of Boston's Electrical Power December 31, 1928.

COMPANY.	Total Rated Horse Power of Boilers.	Total Rated Horse Power of Engines.	Capacity of Incandescent Lamps in Kilowatts.	Capacity of Arc Lamps in Kilowatts.	Kilowatts of Motors.	Kilowatts of Mixed Load.	Number of Stations.
Boston Elevated Railway	49,064	248,970	4,215	15	362,892	87,215	19
Edison Electric Illuminating Company	54,424	292,816	*	*	*	*	61
Charlestown Gas and Electric Company	.....	.....	2,150	170	2,000	1,000	1
Quaker Building Company	620	400	125	.....	106	.....	1
Hanover Street Trust	500	360	140	.....	75	215	1
Totals	104,608	542,546	6,630	185	365,073	88,430	83

* Unknown (Meter capacity connected to lines of Edison system, 1,028,719 kilowatts.)

LIST OF WIRE DIVISION EMPLOYEES, DECEMBER 31, 1928.

	Salary. Per Annum.
1 Superintendent	$4,000
1 Chief inspector	2,900
1 Chief clerk	2,700
1 Chauffeur	1,700
1 Clerk and cashier	2,100
1 Clerk and stenographer	1,800
1 Clerk	1,600
1 Clerk	1,300
1 Engineer	2,500
6 Inspectors	2,500
1 Inspector	2,400
3 Inspectors	2,300
13 Inspectors	2,200
4 Inspectors	2,000
4 Inspectors	1,900
1 Stenciler	1,600
1 Stenographer (assistant cashier and stenographer)	1,700
1 Stenographer	1,500
1 Stenographer	1,200
1 Telephone operator (telephone operator and clerk)	1,200

Statement of Appropriation and Expenditures from January 1, 1928, to December 31, 1928.

Appropriation		$106,603 78

Expenditures.

A–1.	Employees	$96,673 95
F–7.	Pensions	600 00
B–1.	Printing and binding	22 35
B–3.	Advertising	131 80
B–4.	Carfares	2,890 15
B–12.	Premium on bond	24 00
B–13.	Telephones	594 54
B–39.	General plant	62 95
D–1.	Office forms, etc.	2,113 71
D–11.	Gasolene, etc.	299 51
E–10.	Batteries	9 83
E–13.	Stenciling materials, etc.	146 50
	Total expenditures	$103,569 29
	Unexpended balance	$3,034 49

List of Property — Wire Division.

7 150–300 volt Weston Direct Current Double Reading Voltmeters.
1 300–volt Weston Direct Reading Alternating and Direct Current Voltmeter.
1 1,500–volt Weston Direct Reading Voltmeter.
1 50-ampere Weston Direct Reading Ammeter.
2 300–volt Weston Alternating and Direct Current Voltmeters.
1 15-ampere Thomson Alternating Ammeter.
1 1,500-ampere Weston Direct Reading Milammeter.
1 1,200-ampere Thomson Alternating Ammeter.
1 500-ampere Weston Direct Reading Ammeter.
1 15–volt Weston Direct Reading Voltmeter.
1 Queen testing set.
3 Bichloride of Silver Batteries, each 60 cells.
1 120–volt Weston Direct Current Miniature type Voltmeter.
1 150–volt Weston Direct Current Miniature type Voltmeter.
1 Ford truck.
1 Buick sedan.
1 Buick runabout.
1 Camera complete.

Recommendations.

Mutual Aid.

Once again I wish to call attention to the mutual system now in effect between the Boston Fire Department and the departments of adjoining municipalities. Some years ago a courtesy agreement was entered into between neighboring cities and towns whereby the Boston department would respond to certain so-called border boxes outside the city limits, and the departments outside Boston would come into this city in response to alarms from similar Boston boxes. Under this arrangement Boston responded to forty-eight alarms in suburban communities in 1928. In addition, a pressing call for help was received from Fall River during the conflagration in that city. Such a call as the latter from a community in distress cannot go unanswered, accompanied as it may be with a serious liability to the city. Nevertheless the Fire Commissioner of Boston has never been authorized by the City Council, the proper body to grant such authority, to send the men and apparatus of this department outside the city limits. In view of recent legislation the Fire Commissioner can do nothing to extend or strengthen any system of mutual aid. While any system of mutual aid which can be devised will be of greater value to the adjoining municipalities than it is likely to be to this city, I recommend that the City Council take action in order that Boston may legally take part in a comprehensive but limited system of metropolitan mutual aid in fire protection.

Relocation of Fire Stations.

During the past year a step forward has been made to effect a consolidation of fire stations. With the opening of the fire station on Broadway it was possible to place Engine Company 26, Engine Company 35, Rescue Company 1 and Water Tower Company 2 in one fire station, at the same time increasing the efficiency of these fire-fighting units in the congested value section of the city.

In other sections of the city there are stations within a short distance of each other housing one company and a few men. A typical example of this exists in the

West End section where Engine Company 4 and Water Tower Company 1 on Bulfinch street, Engine Company 6 on Leverett street and Ladder Company 24 on North Grove street are all within a narrow radius of each other. Funds should be provided to erect a fire station in a central location, such as Bowdoin square, to house all these companies and abandon the stations on Bulfinch street, North Grove street and Leverett street.

Other combinations which should receive consideration are as follows:

Engine 2 at O and Fourth streets, South Boston, and Ladder 19 on Fourth street, South Boston. Both these houses should be abandoned and a new station erected in the vicinity of K or L street where these companies would be in a better location to serve the entire community.

Engine 8 on Salem street and Ladder 1 on Friend street should be consolidated in one station in the vicinity of Cross and Richmond streets. These two companies are now located on narrow and congested streets, resulting in frequent delays in responding to alarms of fire.

Engine 3 and Ladder 3, Harrison avenue and Bristol street, and Engine 23 on Northampton street. These companies should be consolidated in a station in the vicinity of Harrison avenue and Wareham street. Both these houses are antiquated and require constant attention. In a short time it will be necessary to rebuild them. The department now owns considerable land at the location recommended which might be adapted for use as a fire station with the purchase of a small piece of additional land for a site.

Engine 13 on Cabot street and Ladder 12 on Tremont street. With the purchase of a piece of land adjoining Ladder 12 an addition could be provided to house Engine 13, and the present quarters of Engine 13 could be disposed of.

There are other stations located in outlying sections of the city, in some instances they are practically on the border. Nearly all of these houses are over fifty years old, built to accommodate a call fire department, and are in need of extensive repairs or rebuilding. When it is possible to provide the funds, these companies should be moved to other locations where they will be centrally located in the districts they are called upon to serve.

The department has continued its policy of remodeling fire stations which are properly located, and which are in condition to give good service for many years. This work has been done out of the tax levy. There are a few cases where the remodeling requires a large expenditure which in my opinion could be best taken care of by a loan. The first case of this character which should receive attention is the quarters of Engine 22 and Ladder 13. This is a well built station in an excellent location which was erected in the days of horse-drawn apparatus. It now requires considerable alteration which should not be delayed.

Maintenance Shop.

The present maintenance shop is suffering from lack of adequate floor space. It is well equipped, and every effort is made to adapt it to the requirements of motor apparatus. It was erected just prior to the advent of motor-driven equipment, but the department has far outgrown it. Plans should be made to enlarge the shop and department garage, so that there would be proper coordination between all the shops of the department, and at the same time accommodate the growing needs of the department.

Respectfully submitted,

EUGENE C. HULTMAN,
Fire Commissioner.

FINANCIAL STATEMENT.

Expenditures for the Year.

Personal Service:		
Permanent employees	$3,405,157 08	
Unassigned	4,046 04	
		$3,409,203 12
Service Other than Personal:		
Printing and binding	$85 60	
Advertising and posting	139 70	
Transportation of persons	1,339 51	
Cartage and freight	224 66	
Hire of teams and auto trucks,	194 50	
Light, heat and power	31,731 97	
Rent, taxes and water	3,319 44	
Bond and insurance premiums,	15 00	
Communication	10,861 42	
Motor vehicle repairs and care,	14,754 01	
Cleaning	5,872 68	
Medical	1,024 99	
Expert	470 00	
Fees, etc.	628 00	
Photographic and blueprinting,	1,506 91	
General plant	81,149 99	
		153,318 38
Equipment:		
Cable, wire, etc.	$11,890 92	
Machinery	1,989 40	
Electrical	11,953 75	
Motor vehicles	180,471 13	
Furniture and fittings	9,377 53	
Office	1,029 81	
Marine	22 20	
Tools and instruments	41,204 72	
Wearing apparel	30,696 79	
General plant	5,060 63	
		293,696 88
Supplies:		
Office	$8,956 63	
Food and ice	638 82	
Fuel	82,659 91	
Medical, surgical, laboratory	137 29	
Carried forward	$92,392 65	$3,856,218 38

Brought forward . . .		$92,392 65	$3,856,218 38
Laundry, cleaning, toilet . .		3,357 97	
Motor vehicle		28,814 54	
Chemicals and disinfectants .		3,395 11	
General plant		4,576 10	
		————	132,536 37
Materials:			
Buildings		$23,286 02	
Electrical		4,025 02	
General plant		42,434 56	
		————	69,745 60
Special Items:			
Pensions and annuities . .		$298,937 49	
Workingmen's compensation .		130 44	
		————	299,067 93
			$4,357,568 28
Wire Division:			
Personal Service:			
Permanent employees . .		$96,673 95	
Service Other than Personal:			
Printing and binding,	$22 35		
Advertising and posting	131 80		
Transportation of persons	2,890 15		
Bond and insurance premiums . .	24 00		
Communication .	594 54		
General plant . .	62 95		
	————	3,725 79	
Supplies:			
Office	$2,113 71		
Motor vehicle . .	299 51		
	————	2,413 22	
Materials:			
Electrical . . .	$9 83		
General plant . .	146 50		
	————	156 33	
Special Items:			
Pensions and annuities . .		600 00	
		————	103,569 29
			$4,461,137 57

New Central Fire Station:		
Balance of Payments:		
Contractor, John B. Dolan	$63,111 81	
Architect, John M. Gray Company	1,893 09	
		$65,004 90
New Fire Station, Engine 17 and Ladder 7, Dorchester:		
Balance of Payments:		
Contractor, Phandor Company,	$39,659 92	
Architect, John M. Gray Company	951 83	
		$40,611 75

RECAPITULATION.

Fire Department	$4,357,568 28	
Wire Division	103,569 29	
New Central Fire Station	65,004 90	
New Fire Station, Engine 17 and Ladder 7, Dorchester	40,611 75	
		$4,566,754 22

INCOME.

Permits for fires in open spaces, fireworks, blasting, transportation and storage of explosives,	$23,420 75	
Reimbursement of claims on contract *	6,125 00	
Sale of old material	1,445 35	
Sale of badges	615 75	
Sale of coal	70 00	
Damage to apparatus, etc.	1,070 01	
Damage to boxes and posts	1,790 31	
Moving box	147 25	
Easement	5 00	
Refund on electric light bill	1 46	
	$34,690 88	
WIRE DIVISION:		
Permits	96,122 37	
		$130,813 25

* The amount of $6,125 reimbursed to the City of Boston under a claim on a contract was credited to B–39, General Plant, in order to pay the balance due on the contract.

FIRE DEPARTMENT ORGANIZATION.

Fire Commissioner, EUGENE C. HULTMAN.
Executive Secretary, HERBERT J. HICKEY.
Chief of Department, DANIEL F. SENNOTT.
Superintendent of Maintenance, EDWARD E. WILLIAMSON.
Superintendent of Fire Alarm Division, GEORGE L. FICKETT.
Superintendent of Wire Division, WALTER J. BURKE.
Deputy Chief in charge of Fire Prevention Division, ALFRED J. CAULFIELD.
Medical Examiner, WILLIAM J. MCNALLY, M. D.

CLERKS.

Fire Department.

James P. Maloney, George F. Murphy, Edward L. Tierney, William J. Hurley, Frank M. Fogarty, Thomas W. O'Connell, Henry J. Egan, William J. O'Donnell, Warren F. Fenlon, James H. Finnerty, William D. Slattery, Eugene J. Sullivan, William V. Doherty, Edward L. Barry, Dorothy E. Campbell, Edward W. Purcell, Bertha G. McNamara, Joseph A. Magner.

Wire Division.

Chief Clerk, John F. Flanagan.

William McSweeney, Celina A. O'Brien, Mary F. Fleming, May D. Marsh, James P. McKenna, Mary E. Sullivan, James F. McClafferty.

HEADQUARTERS.

		Per Annum.
1	Commissioner	$7,500
1	Executive secretary	3,300
1	Chief clerk	2,800
1	Executive clerk	2,800
1	Medical examiner	3,500
2	Clerks	$1,800–$1,900
1	Clerk	$1,600–$1,700
1	Clerk	$1,400–$1,500
1	Clerk	$1,300–$1,400
1	Clerk	$1,200–$1,300
1	Elevatorman and assistant janitor	$1,700
		Per Week.
1	Cleaner	$18.00
		Per Annum.
1	Assistant engineer (messenger)	$2,000–2,100
2	Hoseman clerks	$2,000–2,100
1	Hoseman clerk	2,000

17

FIRE PREVENTION DIVISION.

	Per Annum.
1 Chief Fire Prevention	$2,800–$2,900
1 Clerk	2,000
1 Clerk	$1,600–$1,700
1 Clerk	$1,200–$1,300
1 Stenographer	1,100
1 Constable	1,600
1 Captain Fire Prevention	$2,500–$2,600

FIRE-FIGHTING BRANCH.

	Per Annum.
1 Chief of Department	$5,500–$6,500
1 Assistant Chief of Department	4,000
6 Deputy chiefs	4,000
30 District chiefs	3,500
75 Captains	$2,500–$2,600
110 Lieutenants	$2,300–$2,400
2 Aids to-Chief (lieutenant)	$2,300–$2,400
2 Aids-to-Chief	$2,200–$2,300
3 Aids-to-Commissioner (private)	$2,200–$2,300
3 Engineers (marine)	$2,200–$2,300
6 Masters	$2,100–$2,200
3 Engineers	$2,100–$2,200
6 Assistant engineers	$2,000–$2,100
46 Apparatus operators	$2,100–$2,200
47 Assistant apparatus operators	$2,000–$2,100
1,094 Privates:	
769	$2,000–$2,100
217	$1,900–$2,000
37	$1,800–$1,900
31	$1,700–$1,800
33	$1,600–$1,700
7	1,600
1,435	

MAINTENANCE DIVISION.

	Per Annum.
1 Superintendent of maintenance	$3,500
1 Superintendent, High Pressure Steam and Marine Service	$2,900–$3,000
1 General foreman	$2,800–$2,900
1 Motor apparatus engineer	$2,800–$2,900
1 Storekeeper and property clerk (hoseman),	$2,300–$2,400
1 Master carpenter (hoseman)	$2,200–$2,300
1 Foreman painter	$2,100–$2,200
1 Foreman auto repairer	$2,300–$2,400
1 Clerk and bookkeeper	$2,200–$2,300

	Per Annum.
1 Clerk	$1,800–$1,900
1 Clerk	1,800
1 Master hose repairer	2,200
2 Clerks	1,600
5 Engineers in charge	$2,300–$2,400
11 Engineers (High Pressure Service)	$2,100–$2,200
13 Engineers, motor squad	$2,200–$2,300
	Per Day.
3 Firemen (7 day)	$6.50
	Per Week.
3 High Pressure engineers	$43.00
1 Engineer	42.00
	Per Annum.
1 Master steamfitter	$2,300
1 Master apparatus painter	$2,000–$2,100
	Per Day.
46 Mechanics	$6.00
6 Blacksmiths.	
9 Painters.	
5 Carpenters.	
3 Steamfitters.	
3 Machinists.	
16 Auto repairers.	
1 Auto trimmer and canvas worker.	
2 Auto mechanics.	
1 Rubber goods repairer.	
2 Plumbers	$6.50
2 Wheelwrights	6.25
4 Leading auto repairers	6.50
7 Helpers (mechanic's assistants)	$5.00–$5.50
1 Vulcanizer and assistant storekeeper	5.50
1 Chauffeur	5.50
3 Laborers	5.00
1 Brick mason	7.00
1 Mason	6.00
	Per Annum.
1 Supervisor, building repairs	$2,400–$2,500

121

FIRE ALARM DIVISION.

	Per Annum.
1 Superintendent of fire alarm	$4,000
1 Supervisor of construction	3,300
1 Aid-to-superintendent	$2,200–$2,300
1 Batteryman	$2,000–$2,100
1 Clerk	$1,700–$1,800
1 Assistant to custodian	1,900
1 Assistant foreman of construction	$2,400–$2,500

		Per Annum.
1	Instructor of telegraphy	$2,500
1	Chief operator	3,000
3	Principal operators	$2,500–$2,600
5	Operators	$2,300–$2,400
7	Assistant operators	$1,600–$2,100
1	Property clerk and storekeeper	$2,000–$2,100
		Per Day.
1	Attendant and guide	$5.50
4	Cable splicers	6.50
5	Inside wiremen	6.50
1	Laborer	5.00
9	Lineman	6.00
2	Machinists (7 day)	6.00
1	Machinist (6 day)	6.00
1	Radio electrician	$2,000–$2,100
4	Repairers and linemen	6.25
53		

CHIEF OF DEPARTMENT.

DANIEL F. SENNOTT.

The chief is in charge of the fire protection of the city, which is divided into three divisions, each commanded by a deputy chief, which are subdivided into fifteen districts, each commanded by a district chief.

Assistant Chief of Department, HENRY A. FOX.

DIVISION 1.

Deputy Chiefs, HENRY J. POWER AND JOHN J. KELLEY.

Headquarters, Ladder House 8, Fort Hill Square.

This division comprises Districts 1, 2, 3, 4, 5.

District 1.

District Chiefs, THOMAS E. CONROY and HENRY KRAKE.

Headquarters, Ladder House 2, Paris Street, East Boston.

Apparatus Located in the District.— Engines 5, 9, 11, 31 (fireboat), 40, 47 (fireboat), Ladders 2, 21, L–31.

District 2.

District Chiefs, PHILIP A. TAGUE and HAMILTON A. MCCLAY.

Headquarters, Engine House 50, Winthrop Street, Charlestown.

Apparatus Located in the District.— Engines 27, 32, 36, 50, Ladders 9, 22.

District 3.

District Chiefs, JOHN J. KENNEY and JOHN F. GOOD.

Headquarters, Ladder House 18, Pittsburgh Street.

Apparatus Located in the District.— Engines 25, 38, 39, 44 (fireboat), Ladders 8, 18, Water Tower 3.

District 4.

District Chiefs, Avery B. Howard and John F. McDonough.

Headquarters, Engine House 4, Bulfinch Street.

Apparatus Located in the District.— Engines 4, 6, 8, Ladders 1, 24, Water Tower 1.

District 5.

District Chiefs, Louis C. I. Stickel and John F. Watson.

Headquarters, Engine House 7, East Street (temporary).

Apparatus Located in the District.— Engines 7, 10, 26, 35, Ladder 17, Rescue 1.

Division 2.

Deputy Chiefs, Thomas H. Downey and William F. Quigley.

Headquarters, Engine House 22, Warren Avenue.

This division comprises Districts 6, 7, 8, 11.

District 6.

District Chiefs, Michael J. Teehan and Edward G. Chamberlain.

Headquarters, Engine House 1, Dorchester Street, South Boston.

Apparatus Located in the District.— Engines 1, 2, 15, 43, Ladders 5, 19, 20.

District 7.

District Chiefs, Napeen Boutilier and Michael F. Minehan.

Headquarters, Engine House 22, Warren Avenue.

Apparatus Located in the District.— Engines 3, 22, 33, Ladders 3, 13, 15, Water Tower 2.

District 8.

District Chiefs, Frank J. Sheeran and Victor H. Richer.

Headquarters, Ladder House 12, Tremont Street.

Apparatus Located in the District.— Engines 13, 14, 37, Ladders 12, 26.

District 11.

District Chiefs, Thomas H. Andreoli and Cornelius J. O'Brien.

Headquarters, Engine House 41, Harvard Avenue, Brighton.

Apparatus Located in the District.— Engines 29, 34, 41, 51, Ladders 11, 14.

Division 3.

Deputy Chiefs, Walter M. McLean and Frank A. Sweeney.

Headquarters, Ladder House 23, Washington Street, Grove Hall.

This division comprises Districts 9, 10, 12, 13, 14, 15.

District 9.

District Chiefs, William H. McCorkle and Edward J. Locke.

Headquarters, Engine House 12, Dudley Street.

Apparatus Located in the District.— Engines 12, 21, 23, 24, Ladder 4.

District 10.

District Chiefs, Francis J. Jordan and Charles H. Long.

Headquarters, Engine House 18, Harvard Street, Dorchester.

Apparatus Located in the District.— Engines 17, 18, 52, Ladders 7, 29.

District 12.

District Chiefs, John N. Lally and Dennis Driscoll.

Headquarters, Engine House 28, Centre Street, Jamaica Plain.

Apparatus Located in the District.— Engines 28, 42, Ladders 10, 23, 30.

District 13.

District Chiefs, Charles A. Donohoe and Patrick J. V. Kelley.

Headquarters, Engine House 45, Corner Washington and Poplar Streets, Roslindale.

Apparatus Located in the District.— Engines 30, 45, 53, Ladders 16, 25.

District 14.

District Chiefs, James Mahoney and James F. Ryan.

Headquarters, Engine House 46, Peabody Square, Dorchester.

Apparatus Located in the District.— Engines 16, 20, 46, Ladders 6, 27.

District 15.

District Chiefs, John P. Murray and Michael D. Sullivan.

Headquarters, Engine House 48, Corner Harvard Avenue and Winthrop Street, Hyde Park.

Apparatus Located in the District.— Engines 19, 48, 49, Ladder 28.

FIRE DEPARTMENT STATIONS.

STATIONS.	Location.	Ward.	Number of Feet.	ASSESSED VALUES.			Remarks.
				Total.	Land.	Buildings.	
Engine 1	Dorchester and Fourth streets	6	8,169	$51,400	$10,800	$40,600	Engine 1 and Ladder 5.
Engine 2	O and Fourth streets	6	4,000	19,200	2,200	17,000	
Engine 3	440 Harrison avenue	3	4,000	30,000	11,000	19,000	Engine 3 and Ladder 3.
Engine 4	5 Bulfinch street	3	6,098	100,000	60,900	39,100	
Engine 5	64 Marion street	1	3,625	28,200	2,000	26,000	
Engine 6	24 Leverett street	3	2,269	40,000	10,000	30,000	
Engine 7	East street	3	1,893	90,000	47,300	42,700	
Engine 8	133 Salem street	3	2,568	60,700	25,700	35,000	
Engine 9	60 Paris street	1	4,720	33,300	8,300	25,000	Engine 9 and Ladder 2.
Engine 10	60 River street	5	1,886	24,500	14,200	10,300	
Engine 11	761 Saratoga street	1	10,000	45,000	5,000	40,000	Engine 11 and Ladder 21.
Engine 12	411 Dudley street	8	7,320	40,000	10,900	29,100	
Engine 13	201 Cabot street	9	4,832	14,800	4,800	10,000	
Engine 14	27 Centre street	9	5,713	19,600	4,600	15,000	
Engine 15	109 Dorchester avenue	6	2,803	24,200	4,200	20,000	
Engine 16	45 River street	17	12,736	20,600	3,200	17,400	
Engine 17	Parish street	15	9,450	100,000	3,300	96,700	Engine 17 and Ladder 7.

Engine 18	30 Harvard street	17	9,440	18,800	3,800	15,000	
Engine 19	128 Babson street	18	7,683	14,500	1,500	13,000	
Engine 20	32 Walnut street	16	7,500	18,200	3,000	15,200	Engine 20 and Ladder 27.
Engine 21	641 Columbia road	7	10,341	77,900	12,900	65,000	
Engine 22	72 Warren avenue	4	7,500	65,000	24,500	40,500	Engine 22 and Ladder 13.
Engine 23	84 Northampton street	8	3,445	11,000	5,200	5,800	
Engine 24	434 Warren street	12	4,186	18,300	3,300	15,000	
Engine 25	Fort Hill square	3	4,175	146,000	104,400	41,600	Engine 25, Ladder 8, Water Tower 1.
Engine 26, 35, etc	194 and 196 Broadway	3	8,150	265,200	65,200	200,000	
Engine 27	Elm street	2	2,600	17,500	3,200	14,300	
Engine 28	659 Centre street	19	10,377	44,000	15,600	28,400	Engine 28 and Ladder 10.
Engine 29	30 Chestnut Hill avenue	22	14,358	38,600	8,600	30,000	Engine 29 and Ladder 11.
Engine 30	1940 Centre street	20	12,251	25,000	4,000	21,000	Engine 30 and Ladder 25.
Engine 31	531 Commercial street	3	*				
Engine 32	440 Bunker Hill street	2	8,188	25,000	7,400	17,600	
Engine 33	941 Boylston street	5	5,648	102,000	73,400	28,600	Engine 33 and Ladder 15.
Engine 34	444 Western avenue	22	4,637	17,800	800	17,000	
Engine 36	44 Monument street	2	5,668	21,000	2,800	18,200	Engine 36 and Ladder 22.
Engine 37	352 Longwood avenue	4	5,231	25,000	15,700	9,300	Engine 37 and Ladder 26.
Engine 38 and 39	344 Congress street	6	4,000	53,000	26,000	27,000	
Engine 40	258 Sumner street	1	4,010	67,000	3,000	64,000	
Engine 41	16 Harvard avenue	21	6,112	34,500	6,100	28,400	Engine 41 and Ladder 14.
Engine 42	3089 Washington street	11	3,848	22,900	2,900	20,000	Engine 42 and Ladder 30.

*No land or building assessed to Fire Department, but all under "Atkins Wharf."

Fire Department Stations.—Concluded.

Stations.	Location.	Ward.	Number Feet.	Assessed Values.			Remarks.
				Total.	Land.	Buildings.	
Engine 43	5 Boston street	7	5,133	$19,600	$4,600	$15,000	Engine 43 and Ladder 20.
Engine 44	Northern avenue	6	.....	31,000	.....	31,000	
Engine 45	4246 Washington street	19	14,729	30,400	7,400	23,000	Engine 45 and Ladder 16.
Engine 46	1884 Dorchester avenue	16	4,875	23,700	3,700	20,000	
Engine 47	Adjoining South Ferry	1	11,950	31,600	21,600	10,000	
Engine 48	Harvard avenue	18	9,450	40,100	6,100	34,000	Engine 48 and Ladder 28.
Engine 49	217 East Milton street	18	14,475	35,600	3,600	32,000	
Engine 50	34 Winthrop street	2	3,000	28,900	3,900	25,000	
Engine 51	425 Faneuil street	22	9,889	42,000	2,000	40,000	
Engine 52	120 Callender street	14	7,200	13,200	1,200	12,000	Engine 52 and Ladder 29.
Engine 53	16 Walk Hill street	19	11,253	17,800	2,800	15,000	
Ladder 1	152 Friend street	3	1,676	40,000	26,800	13,200	
Ladder 4	198 Dudley street	8	3,923	40,000	5,900	34,100	
Ladder 9	333 Main street	2	4,290	16,000	6,000	10,000	
Ladder 12	1046 Tremont street	9	4,311	25,600	8,600	17,000	
Ladder 17	160 Harrison avenue	3	2,134	28,100	10,700	17,400	
Ladder 18	9 Pittsburgh street	6	8,964	58,000	31,300	26,700	Ladder 18 and Water Tower 3.

Ladder 19	715 East Fourth street	6	3,100	10,700	1,700	9,000
Ladder 23	Washington street	14	6,875	21,800	3,400	18,400
Ladder 24	North Grove street	3	3,918	19,800	9,800	10,000
Ladder 31	381 Saratoga street	1	9,300	40,600	5,600	35,000
Headquarters	60 Bristol street	3	15,679	118,000	19,600	98,400
Bureau of Supplies and Repairs.	363 Albany street	3	8,000	68,000	18,000	50,000
Fire alarm shop	11 Wareham street	8	8,500	40,000	12,700	27,300
Garage	618 Harrison avenue	8	3,816	11,000	7,600	3,400
Veterinary Hospital	Atkinson street *	8	46,042	90,000	69,100	20,900
Rescue 1	25 Church street	5	3,214	32,000	20,400	11,600
Fire Alarm station	59 Fenway†	4	.....	268,000	.....	268,000

* Assessed as 46,042 feet of land to the Public Works Department.
† No assessment on land. Building is in the Park Department.

Engines.

Number.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Capacity.	Weight, (Pounds.)
1	American-LaFrance	Dec. 19, 1921			5½		6	1,000 gallons.	11,300
2	Seagrave triple combination pump	June 20, 1917			5¾			750 gallons.	15,550
3	American-LaFrance pump	April 30, 1926			5½		6	750 gallons.	12,000
4	American-LaFrance pump	May 3, 1926			5½		6	750 gallons.	12,000
5	American-LaFrance pump	Sept. 27, 1919			5½		6	1,000 gallons.	11,030
6	American-LaFrance pump	July 13, 1922			5½		6	750 gallons.	11,030
7	American-LaFrance pump	Nov. 22, 1921			5½			1,000 gallons.	11,300
8	American-LaFrance pump	May 25, 1925			5½		6	750 gallons.	11,030
9	American-LaFrance pump	July 24, 1923			5½		6	750 gallons.	11,030
10	American-LaFrance pump	Sept. 3, 1920			5½		6	1,000 gallons.	11,300
11	American-LaFrance pump	May 21, 1925			5½		6	750 gallons.	11,030
12	American-LaFrance pump	July 19, 1922			5½		6	750 gallons.	11,030
13	American-LaFrance pump	July 20, 1922			5½		6	750 gallons.	11,030
14	American-LaFrance pump	May 23, 1925			5½		6	750 gallons.	11,030
15	American-LaFrance pump	Oct. 22, 1924			5½		6	750 gallons.	11,030
16	American-LaFrance pump (triple combination).	Dec. 5, 1919			5½		6	750 gallons.	12,000

17	American-LaFrance pump	Aug.	14, 1923			5½	....	6	750 gallons.	11,030
18	American-LaFrance pump	Oct.	28, 1921			5½	....	6	750 gallons.	11,030
19	Seagrave triple combination pump	May	9, 1917	Repair Shop	1925	5¾	.....	6½	750 gallons.	15,500
20	American-LaFrance pump	Oct.	29, 1921			5½	....	6	750 gallons.	11,030
21	American-LaFrance pump	Oct.	16, 1924			5½	.....	6	750 gallons.	11,030
22	American-LaFrance pump	Aug.	31, 1923			5½	.....	6	750 gallons.	11,030
23	American-LaFrance pump	May	1, 1920			5½	.....	6	1,000 gallons.	11,300
24	American-LaFrance pump	July	21, 1922			5½	.....	6	750 gallons.	11,030
25	American-LaFrance pump	April	30, 1926			5½	.....	6	750 gallons.	12,000
26	American-LaFrance pump	Dec.	10, 1920	American-LaFrance Company	1923	5½	.....	6	1,000 gallons.	11,300
27	American-LaFrance pump	July	17, 1923			5½	.....	6	750 gallons.	11,030
28	American-LaFrance pump	May	12, 1926			5½	.....	6	750 gallons.	12,000
29	American-LaFrance pump	Sept.	19, 1923			5½	.....	6	750 gallons.	11,030
30	American-LaFrance pump	Oct.	18, 1921			5½	.....	6	750 gallons.	11,030
31	G. F. Blake Manufacturing Company fireboat.		1914			17	10	11	1 pump, 3,000 gallons.	104 tons.
32	American-LaFrance pump	May	15, 1926			5½	.....	6	750 gallons.	12,000
33	American-LaFrance pump	Aug.	28, 1923			5½	.....	6	750 gallons	11,030
34	American-LaFrance pump	Aug.	6, 1923			5½	.....	6	750 gallons.	11,030
35	American-LaFrance pump	Oct.	26, 1928			5½	.....	6	750 gallons.	12,000
36	American-LaFrance pump	May	22, 1925			5½	.....	6	750 gallons.	11,030
37	American-LaFrance pump	July	11, 1923			5½	.....	6	750 gallons.	11,030
38	American-LaFrance pump	May	3, 1926			5½	.....	6	750 gallons.	12,000

Engines.— Concluded.

NUMBER.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Capacity.	Weight. (Pounds.)
39	American-LaFrance pump	Oct. 14, 1924			5½		6	750 gallons.	11,030
40	American-LaFrance pump	July 24, 1923			5½		6	750 gallons.	11,030
41	American-LaFrance pump	July 20, 1919			5½		6	750 gallons.	11,030
42	American-LaFrance pump	Oct. 10, 1924			5½		6	750 gallons.	11,030
43	American-LaFrance pump	Oct. 14, 1922			5½		6	750 gallons.	11,030
44	American Fire Engine Company (fireboat).	Aug. 1895			12¾ H. P. 18 L. P.	10	11	2 sets of pumps, 6,000 gallons	178 tons.
45	American-LaFrance pump	Aug. 31, 1922			5½		6	750 gallons.	11,030
46	American-LaFrance pump	Sept. 18, 1923			5½		6	750 gallons.	11,030
47	G. F. Blake Manufacturing Company (fireboat).	Aug. 1909			12¾ H. P 22 L. P	10	11	2 sets of pumps, 6,000 gallons.	179 tons.
48	American-LaFrance pump	Sept. 12, 1922			5½		6	750 gallons.	11,030
49	American-LaFrance pump	Oct. 17, 1921			5½		6	750 gallons.	11,030
50	American-LaFrance pump	March 2, 1920			5½		6	750 gallons.	11,300
51	American-LaFrance pump	Dec. 19, 1921			5½		6	750 gallons.	11,030
52	American-LaFrance pump (triple combination).	Nov. 15, 1919			5½		6	750 gallons.	12,000
53	Seagrave pump (triple combination).	Aug. 12, 1916			5¾		6½	750 gallons.	13,500

Engines in Reserve.

NUMBER.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Diameter of Pump.	Stroke.	Capacity.	(Weight. Pounds.)
101–P....	American-La-France pump.....	Aug. 2, 1914	.....	.....	5½	.....	6	750 gallons.	11,540
125–P....	American-LaFrance pump.....	Nov. 1, 1919	.....	.....	5½	.....	6	750 gallons.	10,830
129–P....	American-LaFrance pump.....	Oct. 25, 1920	.....	.....	5½	.....	6	750 gallons.	11,030
132–P....	American-LaFrance pump.....	March 26, 1920	.....	.....	5½	.....	6	750 gallons.	10,500
136–P....	American-LaFrance pump.....	Oct. 18, 1920	.....	.....	5½	.....	6	750 gallons.	10,500
137–P....	American-LaFrance pump	Nov. 15, 1920	.....	.....	5½	.....	6	750 gallons.	12,200
138–P....	American-LaFrance pump.....	Jan. 26, 1921	.....	.....	5½	.....	6	750 gallons.	11,030
144–P....	American-LaFrance pump.....	Dec. 19, 1921	.....	.....	5½	.....	6	750 gallons.	11,030
113–T....	Christie tractor (American Locomotive Works).	July, 1903 Dec., 1915	Manchester Locomotive Works,	1916	8½	5	8	First Size.	14,240
123–T....	Christie tractor (Manchester Locomotive Works).	Jan., 1904	.....	.....	7⅝	4⅝	8	Second Size.	13,140
133–T....	Christie tractor (Amoskeag Manufacturing Company).	July 30, 1920 Dec., 1904	J. B. Filleul & Son.....	1919	8½	5	8	First Size.	14,350

HOSE CARS.

NUMBER.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Stroke.	(Weight, Pounds.)
1	Seagrave combination	Aug. 15, 1917			5¾	6½	11,600
3	American-LaFrance combination	Aug. 4, 1928			5½	6	10,500
4	American-LaFrance high pressure car No. 4	Sept. 16, 1921			5½	6	13,600
5	American-LaFrance combination	Sept. 10, 1919			5½	6	9,470
6	American-LaFrance combination	Oct. 6, 1927			5½	6	10,500
7	American-LaFrance high pressure car No. 1	Jan. 5, 1921			5½	6	10,240
8	American-LaFrance combination	Oct. 6, 1927			5½	6	10,500
9	American-LaFrance combination	July 24, 1923			5½	6	9,500
10	American-LaFrance combination	July 28, 1928			5½	6	10,500
11	Seagrave combination	Feb. 5, 1917			5¾	6½	12,050
12	American-LaFrance combination	July 21, 1922			5½	6	10,500
13	American-LaFrance combination	Aug. 5, 1922			5½	6	10,500
14	American-LaFrance combination	May 23, 1925			5½	6	12,000
15	Seagrave combination	Aug. 11, 1917			5¾	6½	12,100
17	American-LaFrance combination	Aug. 9, 1928			5½	6	10,500
18	American-LaFrance combination	June 9, 1926			5½	6	10,500

19	American-LaFrance combination	June 23, 1920			5½	6	9,500
20	American-LaFrance combination	March 15, 1920			5½	6	9,500
21	Seagrave combination	Feb. 15, 1917			5¾	6½	12,020
22	American-LaFrance combination	Aug. 1, 1928			5½	6	10,500
23	American-LaFrance combination	May 1, 1920			5½	6	10,100
24	American-LaFrance combination	Aug. 1, 1922			5½	6	10,500
25	American-LaFrance high pressure hose car No. 2	Feb. 5, 1921			5½	6	13,600
26	American-LaFrance combination	Oct. 11, 1927			5½	6	10,500
27	American LaFrance combination	July 17, 1923			5½	6	9,500
28	American-LaFrance combination	July 27, 1928			5½	6	10,500
29	American-LaFrance combination	Sept. 19, 1923			5½	6	9,500
30	American–LaFrance combination	June 4, 1926			5½	6	10,500
32	American-LaFrance combination	Oct. 23, 1919			5½	6	9,500
33	American-LaFrance combination	Aug. 3, 1928			5½	6	10,500
34	American-LaFrance combination	Aug. 6, 1923			5½	6	9,500
35	American-LaFrance combination	Sept. 26, 1927			5½	6–1	10,500
36	Seagrave combination	Aug. 13, 1917			5¾	6½	12,100
37	American-LaFrance combination	March 22, 1921			5½	6	9,500
38	Mack combination	Sept. 28, 1915			5½	6	13,300
39	Seagrave combination	Sept. 27, 1917			5¾	6½	12,500
40	American-LaFrance combination	July 24, 1923			5½	6	9,500
41	American-LaFrance combination	Oct. 11, 1927			5½	6	10,500

Hose Cars.—Concluded.

NUMBER.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Stroke.	Weight. (Pounds.)
42	Seagrave combination	July 5, 1918			5¾	6½	12,100
43	American-LaFrance combination	May 25, 1925			5½	6	12,000
45	American-LaFrance combination	Sept. 9, 1923			5½	6	9,500
46	American La-France combination	June 2, 1926			5½	6	10,500
48	American-LaFrance combination	Feb. 1, 1921			5½	6	9,500
49	American-LaFrance combination	Jan. 24, 1921			5½	6	9,500
50	American-LaFrance combination	Oct. 3, 1927			5½	6	10,500
51	American-LaFrance combination	Dec. 15, 1920			5½	6	9,800
53	American-LaFrance combination	April 9, 1920			5½	6	9,500

Hose Cars in Reserve.

NUMBER.	Built by	Put in Service.	Rebuilt by	Date.	Diameter of Cylinder.	Stroke.	Weight. (Pounds.)
306	American-LaFrance combination	March 23, 1915			5½	6	9,380
310	Seagrave combination	Jan. 18, 1917			5¾	6½	11,820
312	Seagrave combination	Feb. 10, 1917			5¾	6½	11,360
314	Seagrave combination	Feb. 9, 1917			5¾	6½	11,550
316	Seagrave combination	July 9, 1917			5¾	6½	11,360
317	Seagrave combination	July 19, 1917			5¾	6½	11,550
322	Seagrave combination	Sept. 18, 1917			5¾	6½	11,560
328	American-LaFrance combination	Feb. 28, 1920			5½	6	9,500
331	American-LaFrance combination	April 13, 1920			5½	6	9,500

LADDERS.

NUMBER.	Built by	Put in Service.	Rebuilt by	Feet of Ladders.	Number of Ladders.	Weight. (Pounds.)
1	American-LaFrance, Type 17 (85-foot)	Aug. 10, 1928		359	Aerial.	17,000
2	American-LaFrance, Type 17 (75-foot)	Oct. 15, 1923		412	Aerial.	16,500
3	American-LaFrance, Type 17 (85-foot)	May 15, 1926		337	Aerial.	17,000
4	American-LaFrance, Type 17 (85-foot)	Jan. 8, 1925		332	Aerial.	17,000
5	Seagrave (75-foot)	June 4, 1917		311	Aerial.	24,200
6	American-LaFrance, Type 14	Aug. 20, 1923		198	8	11,500
7	American-LaFrance, Type 14	Aug. 14, 1923		247	9	11,500
8	American-LaFrance, Type 17 Seagrave (85-foot)	June 28, 1928 Jan. 26, 1915		394	Aerial.	22,000
9	American-LaFrance, Type 17 (85-foot)	Nov. 22, 1927		386	Aerial.	17,000
10	American-LaFrance, Type 14	Oct. 18, 1920		297	11	11,500
11	American-LaFrance, Type 17 (85-foot)	May 23, 1925		391	Aerial.	17,000
12	American-LaFrance, Type 17 (85-foot)	Nov. 26, 1928		377	Aerial.	17,000
13	American-LaFrance, Type 17 (85-foot)	Aug. 7, 1928		398	Aerial.	17,000
14	American-LaFrance, Type 17 (85-foot)	Dec. 7, 1928		373	Aerial.	17,000
15	American-LaFrance, Type 17 (85-foot)	Nov. 19, 1928		384	Aerial.	17,000
16	American-LaFrance, Type 14	Sept. 18, 1923		268	10	11,500
17	American-LaFrance, Type 17 (85-foot)	Jan. 11, 1929		364	Aerial.	17,000

18	American-LaFrance, Type 17	Feb. 2, 1926		305	Aerial.	17,000
	Seagrave (85-foot)	April, 1910				
19	American-LaFrance, Type 14	Sept. 28, 1923		266	10	11,500
20	American-LaFrance, Type 17 (85-foot)	Nov. 19, 1927		338	Aerial.	17,000
21	American-LaFrance, Type 14	Aug. 5, 1926		259	10	11,500
22	American-LaFrance, Type 14	Oct. 14, 1924		229	10	11,500
23	American-LaFrance, Type 17 (85-foot)	May 17, 1926		321	Aerial.	17,000
24	American-LaFrance, Type 17 (75-foot)	May 27, 1922		299	Aerial.	16,500
25	American-LaFrance, Type 14	Aug. 26, 1926		285	11	11,500
26	American-LaFrance, Type 17 (85-foot)	May 19, 1925		331	Aerial.	17,000
27	American-LaFrance, Type 14	Oct. 4, 1923		260	10	11,500
28	American-LaFrance, Type 14	Nov. 8, 1920		272	10	11,500
236	Spare American-LaFrance, Type 14 *	Oct. 18, 1923				11,500
29	American-LaFrance, Type 14	Aug. 5, 1926		258	10	11,500
30	American-LaFrance, Type 17 (75-foot)	Oct. 17, 1923		358	Aerial.	16,500
31	American-LaFrance, Type 14	Aug. 3, 1926		344	12	11,500

* Spare truck in District 15, alternating weekly with Ladder 28.

Reserve Ladders.

NUMBER.	Built by	Put in Service.	Rebuilt by	Feet of Ladders.	Number of Ladders.	Weight. (Pounds.)
200	American-LaFrance, Type 14	Dec. 13, 1912				10,810
202	American-LaFrance, Type 14	May 5, 1913				11,500
203	American-LaFrance, Type 14	Dec. 10, 1913				11,500
209–T	American-LaFrance, Type 17, Tractor American-LaFrance (75-foot)	Dec. 2, 1926 1891				17,000
220–T	American-LaFrance, Type 17, Tractor American-LaFrance (85-foot)	Aug. 3, 1926 1911				17,000
223–T	American-LaFrance, Type 17, Tractor American-LaFrance (85-foot)	Sept. 28, 1926 1906				17,000

RESCUE CARS.

NUMBER.	Built by	Put in Service.	Rebuilt by	Diameter of Cylinder.	Stroke.	Weight. (Pounds.)
1	Pierce-Arrow Company, body of truck	Aug. 2, 1920	Boston Fire Department Repair Shop,	5	7	
2	American-LaFrance chassis Foamite tanks	Nov. 2, 1925		$5\frac{1}{2}$	6	11,000

WATER TOWERS.

NUMBER.	Serial Number.	Built by	Put in Service.
1	401–T	American-LaFrance, Type 17, Tractor American-LaFrance Tower	Feb. 17, 1927 Oct. 30, 1912
2	404–T	American-LaFrance, Type 17, Tractor Kansas City Fire Department Supply Company	April 14, 1928 May 17, 1890
3	403–T	American-LaFrance, Type 17, Tractor International Company	Jan. 5, 1928 Nov. 2, 1903
Reserve	402–T	American-LaFrance, Type 17, Tractor Kansas City Fire Department Supply Company	Nov. 12, 1926 Dec. 18, 1893

TOOLS AND MACHINERY IN MAINTENANCE DIVISION REPAIR SHOP.

Blacksmith Shop.	Boiler Room.	Hose and Harness Shop.	Main Floor.	Wheelwright and Machine Shop.
1 electric emery wheel.	3 vertical tubular boilers, each 75 horse power.	1 Buckley electric hose testing and expanding engine.	1 Knowles triplex pump for hose testing.	1 15 horse power motor.
1 wall drill.	2 Blake boiler feed pumps.	2 electrically-driven sewing machines, numerous tools and appliances for repairing hose and harnesses.	1 Richardson-Phoenix motor oil purifier (Model L).	1 each engine lathes, with foot beds, 28 by 12; 16 by 12; 14 by 8, and 14 by 6 (belt-driven).
5 forges.	2 Warren fuel oil pumps.		1 hydraulic press, 60-ton.	1 16 by 8 electric-driven engine lathe.
1 electric power hammer.			1 3-ton overhead crane.	1 16 by 10 speed lathe.
1 tire upsetter.			1 air compressor and storage tank.	1 16 by 10 wood lathe.
1 lever shears.			1 5-ton auto ambulance.	1 26 by 26 planer, 8-foot bed.
1 tire roller.				1 16 by 29, shaper.
1 bolt cutter.			Appliances for repairing and charging batteries.	1 radial drill.
1 fan blower.			1 weaver tire changing tool.	3 upright drills; 1 circular saw; 1 band saw.
1 power hack saw.			1 exhaust blower.	1 boring and mortising machine.
2 upright drills.			Also tools for the rapair of automobile apparatus.	2 buzz planers; 1 grindstone.
		PAINT SHOP.		1 portable Syntron electric hammer; numerous small tools.
		1 paint-spraying outfit complete, 1 fireproof steel booth with fireproof self-closing door and equipped with a ventilating fan.		1 Brown & Sharpe universal milling machine.
				1 motor-driven valve grinding machine.
				1 electric emery wheel.
				1 heavy duty brake lining machine.
				1 3 horse power pedestal grinder.
				1 12-light wheat miners' light charging board.

HOSE.

Hose Purchased.

	Feet.
2½-inch leading cotton hose	11,500
3-inch leading cotton hose	2,000
3½-inch leading cotton hose	800
4½-inch hard rubber suctions	63
¾-inch chemical hose	2,250
¾-inch chemical hose with apparatus	1,200
1-inch deck hose	80
Total	17,893

Hose Condemned.

	Feet.
2½-inch leading cotton hose	10,281½
3-inch leading cotton hose	2,520
3½-inch leading cotton hose	200
3-inch flexible suctions	140½
3½-inch deluge hose	50
2½-inch rubber hose	50
¾-inch chemical hose	1,650
1-inch deck hose	30
4½-inch hard rubber suctions	73½
Total	14,995½

Hose Repaired.

	Feet.
2½-inch leading cotton hose	23,866½
3-inch leading cotton hose	5,200
3½-inch leading cotton hose	250
¾-inch chemical hose	4,750
1-inch deck hose	75
4½-inch hard rubber suctions	31½
Total	34,173

Hose in Use.

	Feet.
2½-inch leading cotton hose	113,900
3-inch leading cotton hose	30,250
3½-inch leading cotton hose	6,071
3-inch flexible suctions	825
3½-inch deluge hose	625
4½-inch hard rubber suctions	1,218
¾-inch chemical hose	22,300
1-inch deck hose	950
⅝-inch 4-ply Foamite hose (Rescue 2)	900
Total	177,039

Hose Removed from Companies and in Stock.

	Feet.
2½-inch leading cotton hose	850
3-inch leading cotton hose	550
Total	1,400

Hose in Stock.

	Feet.
2½-inch leading cotton hose	5,300
3-inch leading cotton hose	1,000
3½-inch leading cotton hose	1,200
3-inch flexible suctions	99
3½-inch deluge hose	50
¾-inch chemical hose	650
4½-inch hard rubber suctions	84
Total	8,383

The new hose was put through the usual stringent tests and chemical analysis of hose was obtained to insure said hose complying with the specifications for same.

GASOLENE STATIONS.

DIVISION NO. 1.

DISTRICTS.	Locations.	Capacity. (Gallons.)	Pump.
1	Engine 5	280	1 gallon.
1	Engine 11	500	1 gallon.
1	Engine 40	550	1 gallon.
1	Ladder 2	550	1 gallon.
1	Ladder 31	550	1 gallon.
2	Engine 27	550	1 gallon.
2	Engine 32	550	1 gallon.
2	Engine 36	280	1 gallon.
2	Engine 50	280	1 gallon.
2	Ladder 9	220	1 gallon.
3	Ladder 8	120	1 gallon.
3	Ladder 18	280	1 gallon.
3	Engine 38–39	280	1 gallon.
4	Engine 4	280	1 gallon.
4	Engine 6	280	1 gallon.
4	Engine 8	280	1 gallon.
4	Engine 31	2,000	1 gallon.
4	Ladder 1	280	1 gallon.
4	Ladder 24	550	1 gallon.
5	Engine 7	550	1 gallon.
5	Engine 10	220	1 quart.
5	Engine 26	1,000	5 gallons.
5	Ladder 17	550	1 gallon.
5	Rescue 1 (old quarters)	550	1 gallon.

DIVISION NO. 2.

DISTRICTS.	Locations.	Capacity. (Gallons.)	Pump.
6	Engine 1	280	1 gallon.
6	Engine 2	280	1 gallon.
6	Engine 15	280	1 gallon.
6	Engine 43	280	1 gallon.
6	Ladder 19	550	1 gallon.
7	Engine 3	280	1 gallon.
7	Engine 22	550	1 gallon.
7	Engine 33	280	1 gallon.
7	Maintenance Division, repair shop	550	1 gallon.
7	Department garage	280	5 gallons.
7	Fire alarm shop	280	1 gallon.
8	Engine 13	550	1 gallon.
8	Engine 14	550	1 gallon.
8	Engine 37	120	1 gallon.
8	Ladder 12	280	1 gallon.
11	Engine 29	280	1 gallon.
11	Engine 34	280	1 gallon.
11	Engine 41	280	1 gallon.
11	Engine 51	280	1 gallon.

DIVISION NO. 3.

DISTRICTS.	Locations.	Capacity. (Gallons.)	Pump.
9	Engine 12	550	1 gallon.
9	Engine 23	280	1 gallon.
9	Engine 24	550	1 gallon.
9	Ladder 4	550	5 gallons.
9	Ladder 23	220	1 gallon.
10	Engine 17	550	5 gallons.
10	Engine 18	280	1 gallon.
10	Engine 21	550	1 gallon.
12	Engine 28	280	1 gallon.
12	Engine 42	550	1 gallon.
12	Engine 53	550	5 gallons.
13	Engine 30	280	1 gallon.
13	Engine 45	550	1 gallon.
14	Ladder 6	280	1 gallon.
14	Engine 20	280	1 gallon.
14	Engine 46	220	1 gallon.
14	Engine 52	220	1 gallon.
15	Engine 19	280	1 gallon.
15	Engine 48	280	1 gallon.
15	Engine 49	280	1 gallon.

CANNEL COAL STATIONS.

DIVISION NO. 1.

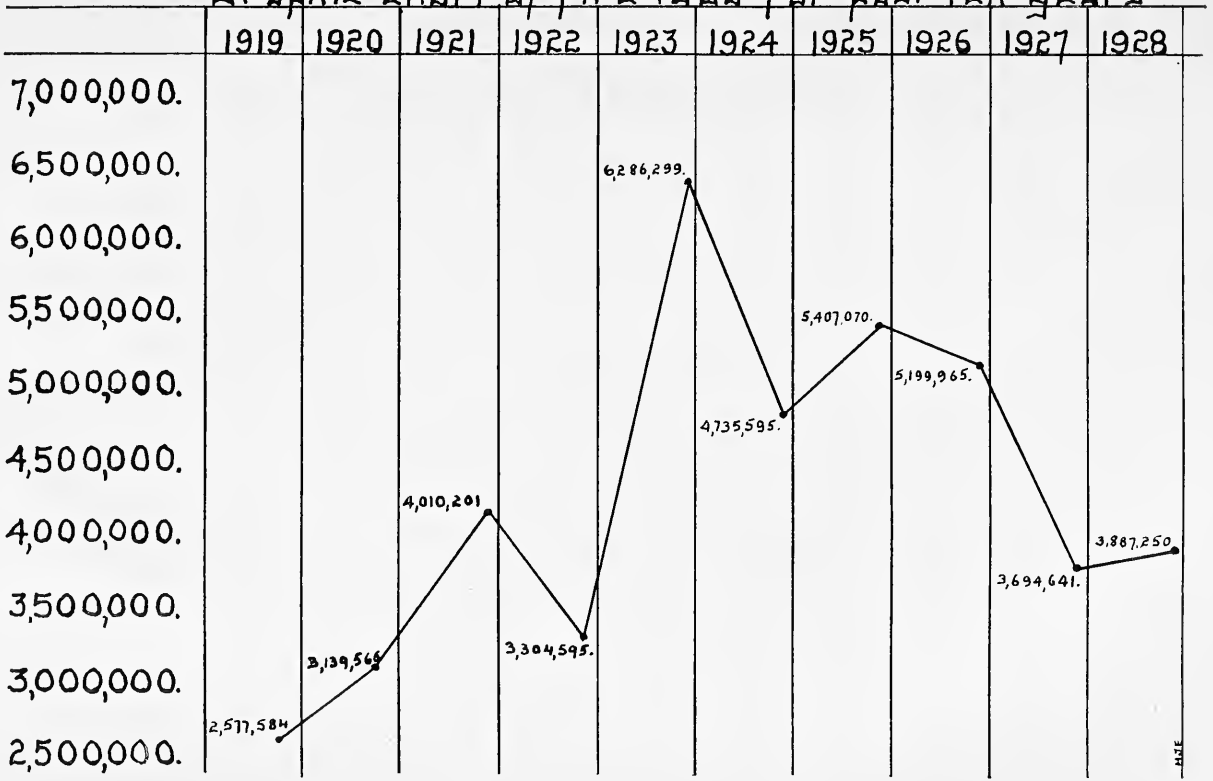
DISTRICTS.	Locations.	Amount at Present. (Tons.)
1	Engine 11	10
1	Ladder 31	10
4	Ladder 24	15

DIVISION NO. 2.

DISTRICTS.	Locations.	Amount at Present. (Tons.)
6	Engine 2	15
6	Fourth street (Old Ladder 5)	20
7	Engine 33	8
8	Engine 13	20
8	Engine 14	1
8	Engine 37	2½
11	Engine 29	5
11	Engine 34	3½

DIVISION NO. 3.

DISTRICTS.	Locations.	Amount at Present. (Tons.)
9	Engine 12	2
9	Engine 23	3
9	Engine 24	7
10	Engine 18	2
10	Engine 21	3
13	Engine 30	2
13	Engine 45	12
14	Engine 16	¼
14	Engine 46	1½
15	Engine 48	3
15	Engine 49	¼


Graphic chart of fire loss for past ten years
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
7,000,000.
6,500,000.
6,000,000.
5,500,000.
5,000,000.
4,500,000.
4,000,000.
3,500,000.
3,000,000.
2,500,000.
2,577,584
3,139,565
4,010,201
3,304,595.
6,286,299.
4,735,595.
5,407,070.
5,199,965.
3,694,641.
3,887,250

Alarms, Fire Losses and Insurance.

Months.	Alarms Received. From whom.							Loss.		Insurance.		Alarms. Bell.			Alarms. Still.		Confined to Building.	Extended to Others.	Not in Building.	Out of City.	Damage None.	Damage Slight.	Damage Considerable.	Totally Destroyed.
	Members.	Police.	Citizens.	Telephone.	Automatic.	Unknown.	Total.	Buildings.	Contents.	Buildings.	Contents.	Fire.	False.	Needless.	Fire.	Needless.								
January.....	17	17	360	291	13	48	746	$231,994	$288,826	$8,545,018	$1,908,194	275	48	19	319	76	340	6	247	1	137	181	28	
February....	12	9	360	222	10	12	625	293,406	254,485	13,950,802	3,485,332	242	12	28	265	75	407	11	83	6	160	215	43	
March.....	14	17	397	291	19	19	757	192,322	244,832	11,587,159	5,566,593	302	17	21	342	65	350	16	271	7	138	194	34	
April.....	12	7	459	338	11	17	844	536,715	307,176	7,688,480	2,526,310	325	17	18	420	56	288	8	443	6	101	174	20	1
May.....	12	12	305	136	8	41	514	105,523	103,747	7,754,439	1,846,236	207	40	9	219	34	243	2	178	3	77	152	16	
June.....	9	7	308	172	16	46	558	137,554	274,016	5,710,280	2,797,986	230	48	17	210	43	241	1	192	6	77	146	19	
July.....	12	13	288	166	9	98	586	93,252	69,913	8,611,969	2,419,304	207	110	21	192	48	212	2	183	2	78	127	9	
August.....	9	23	229	105	12	114	492	53,245	70,182	8,920,197	709,421	167	113	21	128	51	151	....	142	2	18	127	6	
September...	5	5	239	132	14	115	510	69,778	56,341	5,622,192	1,523,442	159	115	9	167	51	196	2	126	2	68	122	8	
October.....	10	10	284	214	16	149	683	75,279	68,937	3,537,591	534,071	196	149	27	234	63	248	....	177	5	81	157	10	
November...	6	7	326	255	12	129	735	97,158	50,956	8,867,419	3,439,844	221	130	15	290	74	303	2	199	7	136	155	14	
December...	9	17	312	219	6	83	646	128,946	82,666	6,376,696	5,462,554	229	84	19	249	61	315	4	153	6	109	200	10	
Totals...	127	144	867	541	146	871	7,696	$2,015,172	$1,872,077	$97,172,242	$32,219,287	2,760	883	224	2,035	697	3,294	54	2,394	53	1,180	1,950	217	1

CAUSES OF FIRES AND ALARMS, FROM JANUARY 1, 1928, TO JANUARY 1, 1929.

Alarms, false, needless, bell and still	1,804
Alarms, out of city	53
Automatic alarms, false and accidental	97
Automobiles	631
Brush, rubbish, etc	1,440
Careless use lamp, candle,	49
Careless use matches, set by rats	459
Careless use pipe, cigar, cigarette	763
Chimneys, soot burning	430
Clothes near stove	10
Defective chimney, stove pipe, boiler	96
Electric wires, motors	244
Fireworks and firecrackers,	55
Gas jet, gas stove	32
Gasolene, benzine, naphtha	15
Grease in ventilator, oven,	31
Hot ashes in barrel	74
Incendiary and supposed,	104
Lamp upsetting and explosion	4
Miscellaneous	506
Oil burners	56
Oil stove, careless use and explosion	20
Overheated furnace, stove boiler	136
Set by boys	117
Sparks from chimney, stove	176
Sparks from locomotive, engine	23
Spontaneous combustion	204
Thawing water pipes	10
Unknown	57
Total	7,696

1928.	FIRE EXTINGUISHED BY						
	Extinguishers.	Buckets of Water.	Chemical Engines.	Hydrant Streams.	Steamers.	Miscellaneous.	Citizens.
January	131	43	121	66	53	133	46
February	103	37	132	39	59	85	46
March	99	61	142	91	75	126	43
April	104	63	133	184	55	163	37
May	93	39	87	70	39	61	34
June	104	29	108	77	31	47	38
July	80	34	90	77	25	50	41
August	60	23	58	52	26	37	37
September	74	24	67	45	21	37	56
October	105	30	87	56	35	70	42
November	113	42	110	50	27	117	45
December	104	28	110	46	36	100	48
Totals	1,170	453	1,245	853	482	1,026	513

FIRES WHERE LOSSES EXCEEDED $15,000.

DATE.	Location and Owner.	Loss.
1928.		
Jan. 1.....	Brighton Abattoir, Butchers' Slaughtering and Melting Association.	$58,472
Jan. 3.....	741 and 743 Tremont street, H. A. Lucy *et al*.....	18,868
Jan. 6.....	65 Tolman street, Coffin Valve Company.....	137,571
Jan. 8.....	1325–1341 Columbus avenue, White Sewing Machine Company *et al.*	18,002
Jan. 10.....	33 River street, J. H. Enwright *et al*.....	27,563
Jan. 24.....	276 and 278 Devonshire street, New England Florist *et al.*	24,772
Jan. 27.....	564 East First street and 110 K street, Kalix Cup Company *et al.*	17,942
Feb. 2.....	Rear of 96 Condor street, Gibby Foundry Company.....	46,912
Feb. 5.....	734 East Fourth street, Baptist Church Corporation *et al*..	33,098
Feb. 12.....	2301–2323 Washington street and 1 Marvin street, Hub Floral Manufacturing Company *et al.*	33,435
Feb. 14.....	125 and 126A Tremont street, "Allands" (millinery) *et al.*	16,640
Feb. 14.....	60 and 62 Fulton street, B. Kuposky *et al*.....	20,502
Feb. 26.....	130 and 132 Boylston street, Waldorf System *et al*.....	15,166
Feb. 27.....	11 Columbia street, Allen & Squire Company *et al*.....	18,168
Feb. 29.....	12 and 14 Winter street, Jackson Confectionery Company *et al.*	23,874
March 16.....	80–86 Kingston street, G. A. Taylor Manufacturing Company *et al.*	27,180
March 20.....	116–122 North street, N. Maggioli Company, Inc., *et al*....	50,449
March 22.....	1404 Columbia road, J. Reifsnyder Son & Co. *et al*.....	33,686
March 29.....	84–92 Sudbury street, Mosler Safe Company *et al*.....	15,535
March 29.....	605–611 Washington street, Becker Fur Company *et al*.....	20,197
April 4.....	88–94 Pearl street and 24 and 26 High street, H. Poorvu *et al.*	43,055
April 15.....	145 Dartmouth street, New York, New Haven & Hartford Railroad *et al.*	360,359
April 24.....	167–171A Massachusetts avenue, J. James *et al*.....	20,172
April 27.....	130 Auckland street, The Pacific Warehouse Trust Company *et al.*	45,974
April 28.....	26 and 28 Pittsburgh street, Colonial Can Company *et al*...	152,934
April 30.....	90–98 Tremont street, Golub Brothers *et al*.....	17,217
May 20.....	55 and 57 Commercial street, United Trading Exchange *et al.*	15,234
May 31.....	259–271 Huntington avenue, The Tent, Inc., *et al*.....	37,479
June 1.....	73 and 75 Conant street, Braver & Healey & Co.....	29,136
June 17.....	Rear of 312 Congress street, Atlantic Salt Company *et al.*	201,857

Fire Losses.— Concluded.

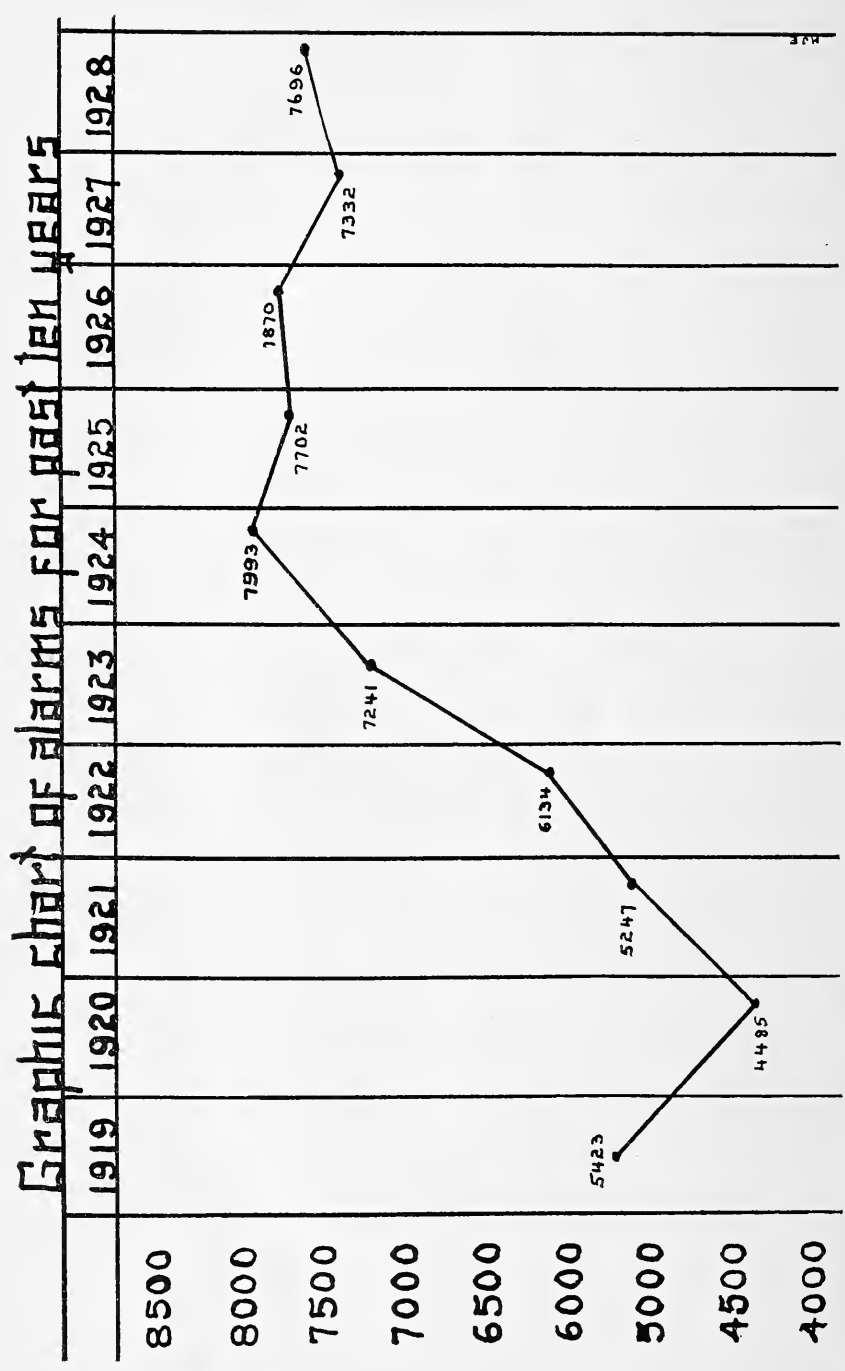
DATE.	Location and Owner.	Loss.
1928.		
June 19....	9 Washington road, B. Gillman *et al*.....	$15,971
June 20.....	57–63 Franklin street, J. W. Gerry Company *et al*.....	24,184
July 16.....	607 and 609 Albany street, Betty Alden, Inc., *et al*.....	29,069
Aug. 15.....	85 and 87 Commercial Wharf, M. W. Hodder Company *et al.*	30,721
Sept. 29.....	253 Marlborough street, W. Thoron.....	26,354
Oct. 27.....	81–91 Fulton street, New England Pillow Company *et al.*	30,830
Dec. 16.....	165 and 166 Tremont street, Miss J. M. Crowley *et al*.....	25,280
Dec. 26.....	423 Ashmont street, First Baptist Church of Dorchester...	20,769

STATISTICS.

Population, January 1, 1929 (estimated)		802,161
Area, square miles		47.81
Number brick, etc., buildings		90,098
Number wooden buildings		41,261
Fires in brick, stone, etc., buildings	1,974	
Fires in wooden buildings	1,374	
Fires out of city	53	
Not in buildings, false and needless	4,295	
Total alarms		7,696

FIRE LOSS FOR THE YEAR ENDING DECEMBER 31, 1928.

Buildings, loss insured		$1,857,050
Contents, loss insured		1,579,250
Total loss insured		$3,436,300
Buildings, loss not insured	$158,122	
Contents, loss not insured	292,828	
Total loss not insured		450,950
Total loss, buildings and contents		$3,887,250
Marine loss		$34,783


Graphic chart of alarms for past ten years
8500
8000
7500
7000
6500
6000
5000
4500
4000
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
5423
4485
5247
6134
7241
7993
7702
7870
7332
7696

YEARLY LOSS FOR THE LAST FIFTEEN YEARS.

Marine Loss not Included.

Year Ending January 1, 1915	$3,013,269
" " " 1, 1916	3,004,600
" " " 1, 1917	2,372,480
" " " 1, 1918	3,981,227
" " " 1, 1919	2,822,109
" " " 1, 1920	2,577,584
" " " 1, 1921	3,139,566
" " " 1, 1922	4,010,201
" " " 1, 1923	3,304,595
" " " 1, 1924	6,286,299
" " " 1, 1925	4,735,595
" " " 1, 1926	5,407,070
" " " 1, 1927	5,199,965
" " " 1, 1928	3,694,642
" " " 1, 1929	3,887,250

ALARMS FOR THE PAST TEN YEARS.

YEAR.	Bell.	Still and Automatic.	Totals.
1928	3,867	3,829	7,696
1927	3,492	3,840	7,332
1926	3,762	4,108	7,870
1925	3,798	3,904	7,702
1924	3,640	4,353	7,993
1923	3,239	4,002	7,241
1922	2,733	3,401	6,134
1921	2,359	2,888	5,247
1920	2,029	2,456	4,485
1919	2,733	2,690	5,423

Each fire is treated as having only one alarm.

JOHN E. FITZGERALD MEDAL.

John J. Leary, for 1922.
Daniel J. O'Brien, for 1923.
Thomas F. Kilduff, for 1924.
Dennis M. Condon, for 1927.

WALTER SCOTT MEDAL.

Dennis M. Condon, for 1922.
James H. Curran, for 1923.
Edward J. Crowley, for 1924.
Gilbert W. Jones, for 1927.

ROLL OF MERIT.

Carl V. Anderson.
Carl S. Bowers.
James J. Buchanan.
Dennis M. Condon.
Walter P. Corbett.
Michael J. Dacy.
James E. Downey.
Thomas H. Downey.
Dennis Driscoll.
Joseph P. Hanton.
Timothy J. Heffron.
Gilbert W. Jones.
Henry J. Kelly.
Martin A. Kenealy.
John J. Kennedy.
Frederick F. Leary.
Edward McDonough.
James F. McMahon.
Thomas J. Muldoon.
Edward J. Murphy.
Arthur A. Ryan.
Michael J. Teehan.

MEMBERS PENSIONED FROM JANUARY 1, 1928, TO DECEMBER 31, 1928.

John J. Gavin.
Joseph A. Dolan.
Elizabeth Gavagan.
Christopher F. Curran.
Anne C. Donovan.
Michael J. Kennedy.
John F. Murphy.
Edward J. Flynn.
Mary J. Kennedy.
Charles A. Fernald.
Charles E. Hudson.
Cornelius J. Harrington.
Terrence Desmond.*
Michael F. Hayes.
Cornelius F. Driscoll.
Charles F. MacFarlane.
Thomas Finneran.
Kathleen R. McLaughlin.
Joseph V. O'Donnell.
Thomas F. Flynn.
Thomas J. Kilduff.
Harry M. Hebard.
Rufus W. Clark.
William F. Thompson.
Richard T. Tuson.
Edward J. Berigan.
Walter H. Greene.
Alice J. Kelley.
Michael F. Silva.
George W. Woodworth.
Thomas J. Flynn.
Eben C. Lothrop.
Arthur D. Gramer.
Stephen L. King.
William H. D. Nichols.
Thomas F. Roach.

DEATHS OF MEMBERS FROM JANUARY 1, 1928, TO DECEMBER 31, 1928.

John J. McMorrow.
John M. McLaughlin.
Daniel W. Reardon (Wire Division).
John J. Kennedy.
Martin J. Callahan.
Thomas P. Rossiter.
John M. Donovan.
John Duncan (Maintenance).
Patrick J. Mahan.

* Boston Retirement Fund.

DEATHS OF PENSIONERS FROM JANUARY 1, 1928, TO DECEMBER 31, 1928.

Patrick F. Garrity.
Charles M. Chaplin.
William Condry.
William Lynch.
Cyrus A. George.
Eugene G. Allen.
John F. Hines.
Frank J. Punch.
Dennis F. Quinlan.
Edward J. Shallow.
Edward I. McLaughlin.
Miles E. Tennihan.
Mrs. Louise M. Bestwick.
Stephen Griffin.
Rustus Gordon.
Edward J. Reavey.
Charles A. Fernald.
Thomas F. Flynn, Jr.

CITY OF BOSTON PRINTING DEPARTMENT.