

ANNUAL REPORT

OF THE

FIRE DEPARTMENT AND ELECTRICAL INSPECTION DIVISION

OF THE

CITY OF BOSTON

FOR THE

YEAR ENDING DECEMBER 31, 1948



CITY OF BOSTON
PRINTING DEPARTMENT
1949



ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE YEAR 1948.

Boston, January 3, 1949.

HON. JAMES M. CURLEY, Mayor of Boston.

DEAR SIR:

I have the honor to submit herewith a report of the activities of the Boston Fire Department and the Electrical Inspection Division for the year ending December 31, 1948.

In my report for 1947 it was stated that the modernization program for the Fire Department, instituted by your Honor in 1946, would probably be completed during 1948, subject to unforeseen delays with respect to

At this time the department has received the following listed equipment ordered under the 1947 Equipment Budget Loan:

20 Pumpers 10 Hose Wagons 1 Tractor for Tower 1

1 20-Ton General Motors Corporation Tractor 2 1,000-Gallon Gasoline Tank Wagons 3 ½-Ton Pickup Trucks 23 Small Cars

HISTORY.

FIRE	COMMISSIONERS.
*1874–1876.	Alfred P. Rockwell.
1877-1879.	David Chamberlain.
1879-1883.	John E. Fitzgerald.
1883-1885.	Henry W. Longley.
1885-1886.	John E. Fitzgerald.
1886-1895.	Robert G. Fitch.
1895-1905.	Henry S. Russell.
1905. (Actin	Patrick J. Kennedy. g February 17—March 20.)
1905-1908.	Benjamin W. Wells.
1908-1910.	Samuel D. Parker.
1910. (Actin	Francis M. Carroll. og May 27—September 16.)
1910-1912.	Charles C. Daly.
1912-1914.	Charles H. Cole.
1914–1919.	John Grady.

1921–1922. Joseph P. Manning. (Acting Nov. 8, 1921—April 1, 1922.) 1922. William J. Casey. (Acting April 1—August 24.) 1922-1925. Theodore A. Glynn.

1919-1921. John R. Murphy.

1926. Thomas A. Sullivan. (Acting January 26—July 6.) 1926–1930. Eugene C. Hultman. 1930-1933. Edward F. McLaughlin.

1933. Eugene M. McSweeney. (October 16, 1933—January 5, 1934.) 1934-1938. Edward F. McLaughlin.

1938-1945. William Arthur Reilly. 1945–1946. John I. Fitzgerald. (June 7, 1945—January 7, 1946.)

1946-Russell S. Codman, Jr. CHIEFS OF DEPARTMENT.

1826-1828. Samuel D. Harris. 1829-1835. Thomas C. Amory.

1836-1853 William Barnicoat.

1854-1855. Elisha Smith, Jr.

1856-1865. George W. Bird.

1866-1874. John S. Damrell.

1874-1884. William A. Green.

1884-1901. Louis P. Webber.

1901-1906. William T. Cheswell.

1906-1914. John A. Mullen.

1914. John Grady. (1 day.)

1914-1919. Peter F. McDonough.

1919-1922. Peter E. Walsh. 1922-1924. John O. Taber.

1925-1930. Daniel F. Sennott.

1930-1936. Henry A. Fox.

1936-1946. Samuel J. Pope.

1946-1948. Napeen Boutilier.

John F. McDonough.

^{*}Previous to 1874, the Boston Fire Department was in charge of the Chief Engineer.

The equipment listed below is undelivered:

2 Hose Wagons; 5 85-Foot Aerial Trucks; and in addition 6 85-Foot Aerial Trucks ordered under the 1946 Equipment Loan making a total of 11 of this type; 6 65-Foot Aerial Trucks.

As the result of failure on the part of different manufacturers to make deliveries of ladder trucks, and on account of our desperate need for replacements in this branch of the service, your Honor has authorized me to proceed with the modernization of four aerials through the purchase of four new tractors together with other necessary work for the renovation of the trailers. contract for this job is now being executed with the Mack Motor Company. The department during the year has previously modernized another aerial, namely, Ladder 2, in East Boston, with very satisfactory results.

My original estimate submitted early in 1946 for the cost of modernizing the entire department was evidently low, as shown by bids received during 1947 and 1948, indicating a material increase over 1946 prices. Therefore, in order to complete the modernization of all apparatus now in service, it is my estimate that the department should be provided with approximately \$650,000, either in the Departmental 1949 Budget Allowance, or by means of another equipment loan.

A new tractor was purchased for Tower 1 of the Bowdoin Square fire station. This piece has likewise been modernized in a manner similar to Tower 2, thus giving the city two of the finest and most efficient water towers in the country.

Mention should be made of five Cardox units each containing 750 pounds of carbon dioxide gas mounted on five hose wagons. These units cost \$2,279.25 each. The placing of these units in service during the month of July, 1948, is a distinct innovation for the fire service. Sufficient data has already been assembled to prove the worth of these units, and establish them as one of the most modern methods of extinguishment of certain types of fires. The quick use of one of these units on the occasion of a two-alarm fire aboard a naval vessel at the Charlestown navy yard prevented what might have been a fire of serious proportions. For the servicing of these units the department purchased a six-ton cardox storage tank at a cost of \$9,180. All portable CO. extinguishers are also filled from this tank at a cost of approximately one-third formerly paid to outside con-

cerns for similar charging services.

Eighteen 2,000 GPM high pressure guns have been installed on 18 hose wagons, thereby constituting a formidable array of heavy deluge equipment for pro-tection against a major conflagration. All engine companies, rescue companies, and several ladder com-panies have been provided with the new self-contained Chemox masks, allowing three masks per company. The equipping of the remaining companies with this type of mask will be provided for in the 1949 budget, in as much as a new state statute requires all fire apparatus in the Commonwealth to be so equipped with at least two self-contained masks, on or before July 1,

The second of two Navy mine sweepers purchased by your Honor in 1946, for reconversion into fireboats, was placed in service March 10, 1948, thereby completing the modernization of the Marine Division of the depart-Boston now has the best equipped fireboat

ment. Boston now has the best fleet of its size in the United States.

Personnel.—The training of the new personnel comprising approximately 600 men inducted after the advent of the 48-hour week has proceeded at an accelerated pace. Through lack of proper facilities for a central Drill School to accommodate a large group of men it was necessary to decentralize the Drill School into various small groups scattered through various fire stations having limited facilities. This method, it is admitted, has not been conducive to obtain best results on uniform training for all the new inductees. Refresher courses have also been given to all permanent members. I have directed that all members of the firefighting force, excepting personnel assigned to Fire Prevention Division and the two High Pressure Stations, shall attend and qualify at the Navy Fire-fighting School, at South Boston. Twenty-five district chiefs, 37 captains, 114 lieutenants, 1,586 privates have already attended the school. The balance will finish the course early in 1949. At this school all members were taught the latest methods of handling water fog, foam, CO2, and all the latest innovations in fire fighting.

Another important phase in the training of personnel has been the establishment of two schools for drivers. Qualified officers have been detailed to one school to train all new men to become proficient as drivers of fire apparatus. The other school directed by qualified officers was set up to obtain a record of the proficiency of permanent drivers and to provide opportunities for greater improvement. Considerable headway has been made through these schools in reducing accidents involving vehicles of the department. For the period beginning November, 1946, to November, 1947, it was necessary for the chief inspector of the Fire Prevention Division to investigate 62 accidents involving fire apparatus. For the period, November, 1947, to November, 1948, since the Driving Schools were established, Fire Prevention Division has investigated 37 cases, showing a material reduction in the number of accidents. It is my intention to continue these schools during 1949.

Prior to 1946 company drills were held weekly, now,

company drills are held daily.

A deputy chief has been detailed to Headquarters for a special assignment to cover all fire stations and report on the maintenance of all apparatus and condition of fire stations. The city has made a large investment, approximately \$1,500,000, for the purchase of new equipment, and it is my intention to continue, at all times, to impress upon the members of the department their responsibility in maintaining and protecting this

new equipment in the best possible manner.

New Construction.— The construction of a new fire station at the corner of Charter and Hanover streets, to house Engine 8 and Ladder 1, at a cost of \$195,731.27, begun during 1947, was completed on September 1, 1948. This building constitutes one of the major improvements in the North End of the city during your

Honor's present administration.

The work under contract awarded to the firm of J. A. Singarella Company, in the amount of \$123,200, for the construction of a new fire station at Mt. Vernon and River streets, Back Bay, is not yet completed. The contractor was delayed by foundation difficulties beyond his control. Furthermore, various legal matters pertaining to the construction of the new house had to be settled with the abutters resulting in further delays in the progress of the work.

On September 13, 1948, contract was awarded to the firm of Bossi Construction, Inc., in the amount of \$111,387, for the construction of a fire station at Wash-

ington street and Ferncliff avenue, West Roxbury. This job should be completed by the spring of 1949. It is proposed to place in service a new engine company, No. 55, when the building is ready for occupancy. Sufficient space and accommodations have been allowed in the design of the fire house for the installation of a ladder truck, should such a company be required at a future time.

New Projects.—Your Honor has already allocated the sum of \$1,500,000 for the construction of a new Maintenance Division Garage and Headquarters, much needed by the department. This building will house the Headquarters' offices, Fire Prevention Bureau, Fire Alarm Construction Force, and the entire Maintenance Division. Space will also be provided to house Tower 2, now located at Bristol street, and Engine 23, formerly located in fire house, now closed, on Northampton street. Out-door space will be set apart for a department drill yard. The building will be located on land near the corner of Massachusetts avenue and Southampton street, the total area containing approximately 125,000 square feet. Of this area, 80,000 feet belongs to the City of Boston, and is utilized by the Paving Division of the Department of Public Works. The remainder of the area, containing approximately 45,000 square feet, has been purchased by the city from the New York, New Haven & Hartford Railroad.

Accompanied by Mr. John Gray, city architect, and executives from the Maintenance Division, I, personally, made an inspection of the New York Fire Department repair shops which are the most modern of any Fire Department in the country. The New York building was built in 1946 at a cost of \$2,500,000. According to the latest building cost index, if this building were to be constructed today it would cost \$3,750,000. Obviously, the needs of the Boston Fire Department are not as great as those of New York, so, with the amount of money at our disposal it is expected that the department will have a completely up-to-date and modern garage capable of handling the depart-

ment's needs.

It was recommended in 1946 that the City of Boston adopt a modern Fire Prevention Code which would strengthen the Fire Prevention Division of the Department in its efforts to eliminate and reduce fire hazards throughout the city. After consultation with many

outside authorities and using as a model the codes promulgated by the National Fire Protection Association and the National Board of Fire Underwriters the Fire Prevention Division submitted to the Law Department of the city for review and consideration a proposed code for the City of Boston. It is realized that the Law Department has been faced with many legal difficulties in trying to clarify the code, on account of conflicting statutes, or lack of statutes which would give authorization for the legalizing of various provisions contained in the code. It is expected that the Law Department will be able to submit to your Honor for approval a final draft of the code within a short time.

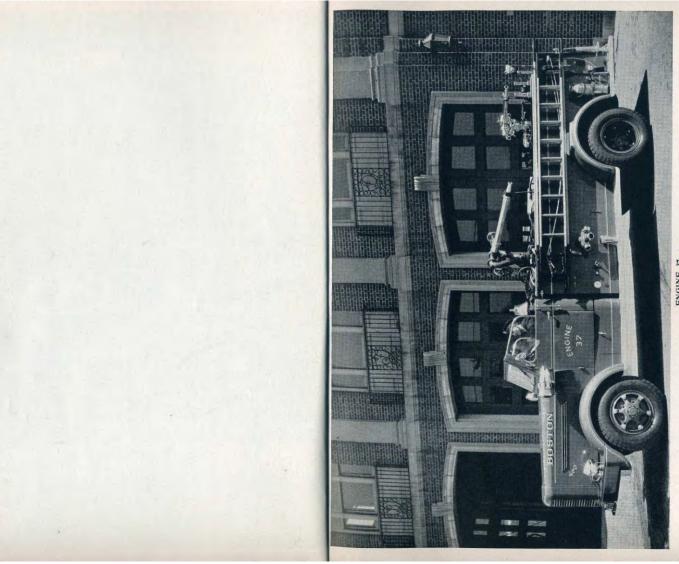
The Fire Department has set a high standard of efficiency in the extinguishment of fire occurring within the city. This fine work should be supplemented by equally progressive achievements along the lines of Fire Prevention. This, I am certain, the department can accomplish providing the means are given in the form of the recommended Fire Prevention Code.

Respectfully submitted,

Russell S. Codman, Jr. Fire Commissioner.



Pressure John F. Hose Wagon Equipped with One Fixed 2,000 G.P.M. Deluge Gun and One 750-Lb. Cardox Tank with 250 Feet of High Special Nozzle Enables Discharge of Refrigerated C.O.2 at a Rate of 300 Lbs. Per Minute. Chief of Department McDonough, Hon. James M. Curley, Mayor of Boston, and Fire Commissioner Russell S. Codman, Jr. Mack Hose.



ENGINE 37. Four-Wheel Drive Company Hose Wagon with One Fixed 2,000 G.P.M. Deluge Gun and One Portable 1,000 G.P.M. Deluge Gun.

PERSONNEL. (7)

EXECUTIVE ORGANIZATION. BOSTON FIRE DEPARTMENT. 1948.

Fire Commissioner, Russell S. Codman, Jr.

Executive Secretary, WILLIAM D. SLATTERY.

Medical Examiner, MARTIN H. SPELLMAN, M. D.

Chief of Department, John F. McDonough.

Superintendent of Maintenance Division, Walter C. Glynn.

Superintendent of Fire Alarm Division, Albert L. O'Banion.

Deputy Chief in Charge of Fire Prevention Division, EDWARD N. MONTGOMERY.

Superintendent, Electrical Inspection Division, Bernard B. Whelan.

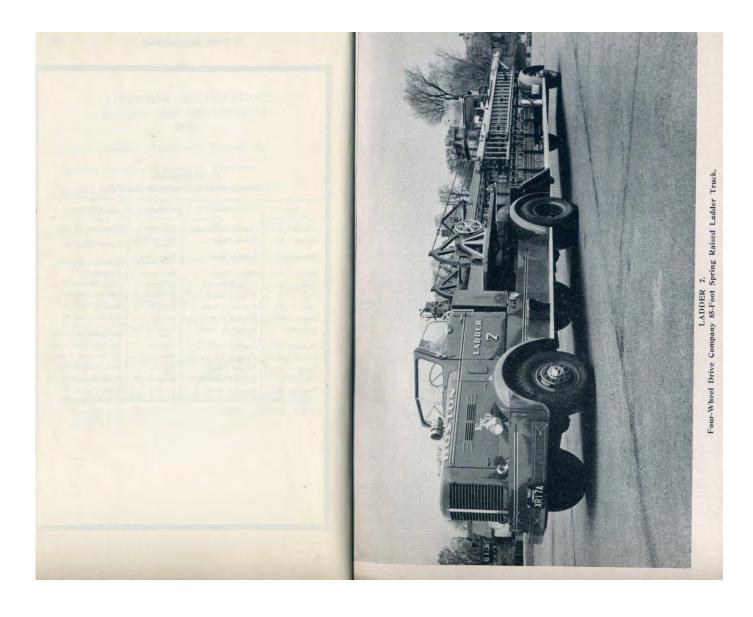
Awarded "John E. Fitzgerald Medal" during 1948. Ladderman Louis J. Civitarese, Ladder Company 26.

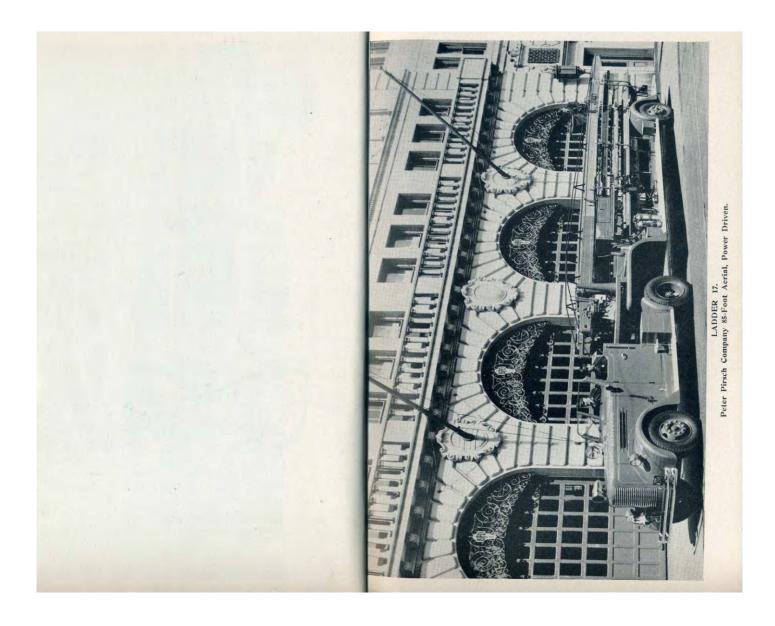
Awarded "Walter Scott Medal for Valor" during 1948.

Ladderman Edward C. Donovan, Ladder Company 18.

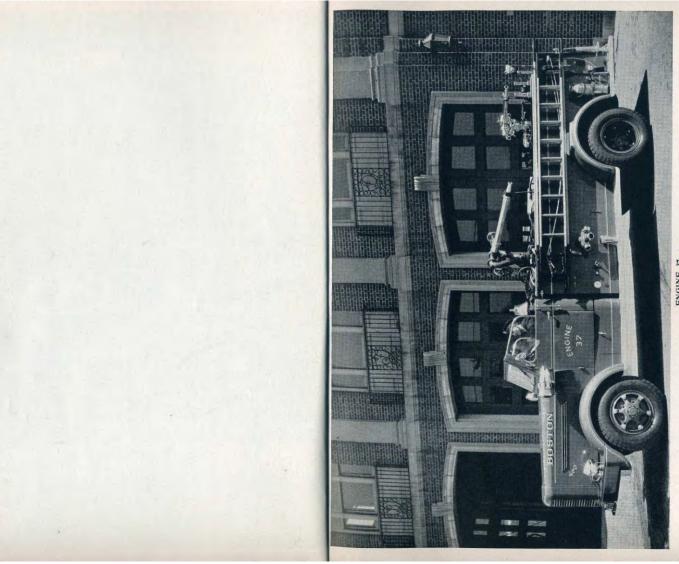
IN MEMORIAM. Deaths of Active Members During 1948.

DATE.		Name.	Rank.	Company.	
January	9	Daniel R. A. Milliken	Steamfitter	Maintenance Division.	
January	25	John F. Nugent	Man on Proba-	Engine Company 26.	
February	29	James W. Ryan	Motor Appara- tus Engineer	Maintenance Division.	
March	12	Henry J. Egan	Bookkeeper	Headquarters.	
April	21	George P. Stewart	Ladderman	Ladder Company 33.	
May	6	William J. Buckley	Ladderman	Ladder Company 3,	
July	31	Frederick J. Walsh	Hoseman	Engine Company 30.	
August	17	George E. Groomes	Hoseman	Engine Company 45.	
September	7	Valentine B. Nolan	Apparatus Oper-	Fire Prevention Division	
September	27	Charles E. Cross	Hoseman	Fire Prevention Division	
October	11	George A. Jones	Hoseman	Fire Prevention Division	
October	13	Edmund J. Sharp	Hoseman	Engine Company 32.	
December	25	Thomas J. McCarthy	Hoseman	Engine Company 54.	
December	26	Francis X. White	Hoseman	Engine Company 18.	





STATISTICS. (11)



ENGINE 37. Four-Wheel Drive Company Hose Wagon with One Fixed 2,000 G.P.M. Deluge Gun and One Portable 1,000 G.P.M. Deluge Gun.

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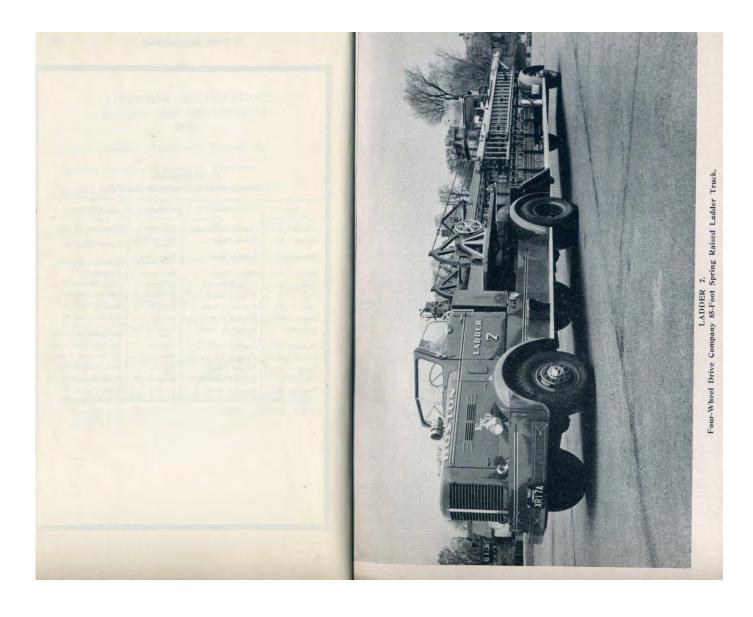
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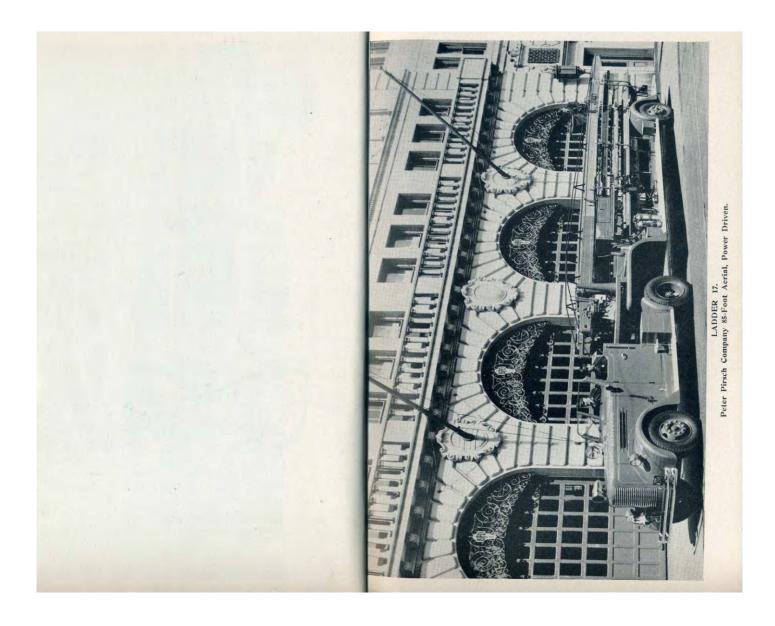
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STATISTICS. (11)

COMPARATIVE FIGURES — MAN POWER. (Actually on Rolls.)

YEAR.	Total Fire Fighting Force.*	Total Number of Privates.†	Total Number of Apparatus Operators.	Total Number of Lieuten- ants.	Total Number of Captains.	Total Number of District Chiefs.	
1944 1,156		851	56	121	82	23	
1945	1,346	1,021	44	124	95	30	
1946	1,373	1,062	37	124	89	31	
1947	2,014	1,530	31	189	90	51	
1948	2,165	1,594	25	221	88	49	

^{*}Includes Chief of Department, Aides to Commissioner and Chief of Department, Masters and Engineers on fireboats, High Pressure Service, Motor Squad, etc.

USE OF APPARATUS.
Summary — Service Reports, 1948, Engine Companies.

Unit.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.
Engine 1	641	208	51,850	104.14	37.14
Engine 2	421	208	52,100	107.19	43.32
Engine 3	719	251	82,600	140.49	40.54
Engine 4	743	210	64,600	140.40	36.45
Engine 5	421	182	48,850	113.31	28.19
Engine 7	449	246	50,250	160.50	30.52
Engine 8	420	117	40,200	111.24	23.58
Engine 9	396	151	44,450	68.04	7.18
Engine 10	698	144	44,600	141.47	29.00
Engine 11	259	166	42,200	58.50	12.12
Engine 12	937	428	74,400	185.30	57.00
Engine 13	1,097	425	121,050	202.38	47.25
Engine 14	1,156	416	80,250	165.09	38.30
Engine 15	553	165	47,850	109.46	59,17
Engine 16	390	218	37,275	123.55	51.34
Engine 17	664	225	54,350	97.38	34.30
Engine 18	686	278	61,950	124.28	49.03
Engine 19	463	308	53,050	186.55	62.28

Summary — Service Reports, 1948, Engine Companies — Concluded.

Concluded.									
UNIT.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.				
Engine 20	412	189	43,300	101.58	39.03				
Engine 21	765	348	72,550	161,18	32.23				
Engine 22	957	410	93,350	154.11	30.25				
Engine 23	901	214	42,050	350.22	59.59				
Engine 24	877	460	95,100	197.50	16.25				
Engine 25	381	134	43,000	132.16	42.16				
Engine 26	1,068	439	130,600	243.58	82.47				
Engine 27	350	103	31,650	50.21	13.08				
Engine 28	551	251	43,050	87.00	14.00				
Engine 29	574	246	51,750	99.20	48.1				
Engine 30	420	259	77,150	108.49	32.1				
Engine 31 (Boat)	236	13	4,050	19.35	10.5				
Engine 32	320	207	36,250	163.05	39.5				
Engine 33	688	446	95,900	195.00	15.0				
Engine 34	391	164	34,700	86.00	21.0				
Engine 36	353	163	36,100	72.58	24.0				
Engine 37	821	440	94,650	167.30	41.3				
Engine 39	353	151	37,750	143.37	25,3				
Engine 40	271	158	21,750	57.02	11,2				
Engine 41	523	272	61,400	111.11	50.0				
Engine 42	860	359	89,150	153.12	40.0				
Engine 43	749	233	76,450	154.15	37.3				
Engine 44 (Boat)	107	7	4,700	28.38	12.3				
Engine 45	584	265	58,650	109.27	25.1				
Engine 46	749	298	49,250	100.17	26.10				
Engine 47 (Boat)	170	7	1,550	17.05	15.4				
Engine 48	361	187	51,000	79.00	37.0				
Engine 49	244	98	30,100	58.00	25.10				
Engine 50	546	210	42,300	106.57	15.5				
Engine 51	324	137	31,900	58.23	5.48				
Engine 52	520	277	45,350	105.15	16.4				
Engine 53	474	105	56,100	56.26	19.53				
Engine 54	40	38	11,050	15.47	12.0				

USE OF APPARATUS.

Summary — Service Reports, 1948, Ladder Companies.

Unit.	Alarms Attended.	Working Fires.	Ladders Used, Feet.	Hours Work.
Ladder 1	631	248	6,869	149.07
Ladder 2	391	220	2,500	90.49
Ladder 3	746	367	11,215	159.75
Ladder 4	1,243	594	10,077*	252.29
Ladder 5	756	238	2,695	94.22
Ladder 6	520	243	1,125*	99.02
Ladder 7	1,006	338	3,720	137.30
Ladder 8	646	301	8,972	176.44
Ladder 9	514	180	2.593	80.11
Ladder 10	727	326	2,125	107.59
Ladder 11	724	349	3,297	106.28
Ladder 12	1,124	497	13.986	241.22
Ladder 13	988	362	13,060	173.03
Ladder 14	731	332	3,205	124.24
Ladder 15	624	448	10,960	153.50
Ladder 16	644	296	1,156*	104.48
Ladder 17	556	396	10,352	176.09
Ladder 18	290	150	5,335	155.18
Ladder 19	324	181	1,252	65.38
Ladder 20	840	303	3,315	129.36
Ladder 21	229	144	836*	60.30
Ladder 22	504	221	1,800	91.46
Ladder 23	1,116	577	8,344*	338.45
Ladder 24	594	318	8,765	157.35
Ladder 25	410	185	280*	97.19
Ladder 26	821	420	6,367	142.07
Ladder 27	749	321	1,215*	114.14
Ladder 28	328	189	1,420*	74.00
Ladder 29	671	325	1,651*	106.56
Ladder 30	970	397	3,585	134.00
Ladder 31	468	180	1,285	91.44
Ladder 32	213	110	408*	47.25
Ladder 33	40	38	350	14.31

^{*} Also used hose.

USE OF APPARATUS.

Summary — Service Reports, 1948, Rescue and Water Tower Companies.

Uniti	Alarms Attended.	Working Fires.	Hours Work.
Rescue 1	1,362	518*	187.25
Rescue 2	2,616	509*	570.00
Resoue 3	865	202*	129.41
Tower 1	256	28	31.22
Tower 2	206	3	14.39
Lighting Plant 1	446	56	97.56
Lighting Plant 2	605	134	234.27
Lighting Plant 3	767	72	87.31

^{*} Also performed service in various emergencies, accidents, inhalator cases, etc.

COMPARATIVE FIRE DEPARTMENT EXPENDITURES.

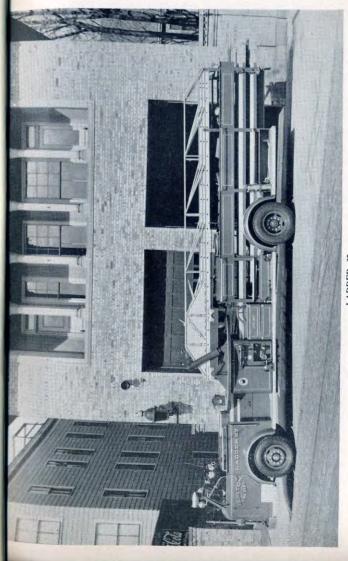
					1947.		1948.	
A.						-		
	Permanent employees				\$5,462,307			
	Overtime				2,983	14	1,219	74
_					\$5,465,290	34	\$6,693,987	15
В.	CONTRACTUAL SERVICES:				00,000	0.4	00 400	0.
	Printing and binding				\$6,980		\$3,426	
	Advertising and posting				62		21	
	Transportation of person						833	
	Express charges .				725		230	
	Light, heat and power				40,939		47,400	
	Rent, taxes and water				20,224	36	20,231	88
	Bond and insurance pres	niu	ms		10	00	1,410	
	Communication .				14,921	91	15,110	21
	Motor vehicle repairs an	de	are		22,150	56	27,060	46
	Cleaning .		-		2,889		3,572	
	Medical .				1,298			
	Expert	3			-,	_	470	
	Fees, service of venires,	ete			381	00	1,103	
	Photographic and bluep	int	ing		001	-	16	
	General repairs .		me		56,890	no		
	Miscellaneous services				225		3,380	
	232000 Militoria Sel Vices				220	00	0,000	40
C.	EQUIPMENT:				\$168,336	18	\$192,568	76
-	Machinery				\$876	63	\$1,279	90
	Electrical .				8.844		12,955	
	Motor Vehicles .				49,585		12,000	03
	Furniture and furnishing						11,355	1.4
	Office .	,5			6,701			
	Library	*		*	3,421		3,344	
	initially	7			545	24	180	00
	Carried forward .				\$69.973	gg	\$29,116	16

Comparative Fire Department Expenditures — Continued.

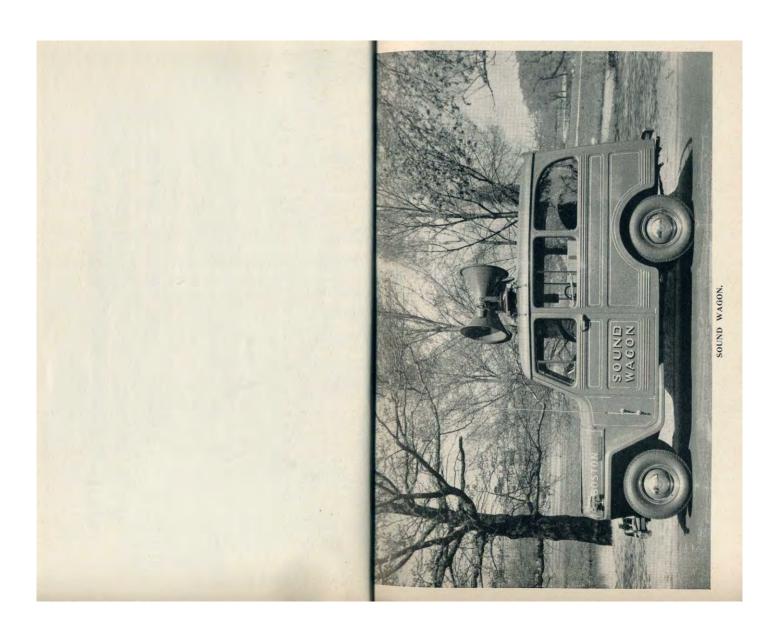
			1947.	1948.
C.	Equipment — Continued. Brought forward. Marine Medical, surgical, laboratory Tools and instruments Tires, tubes and accessories Wearing apparel Miscellaneous equipment		\$69,973 99 328 25 211 20 34,947 75 9,659 77 62,226 90 3,736 18	\$29,116 16 63,122 20 12,645 30 88,767 44 7,671 74
D.	Supplies: Office Food and ice Fuel Medical, surgical, laboratory Educational and recreational Laundry, cleaning, toilet Gasoline, oil and grease Chemicals and disinfectants Miscellaneous supplies		\$181,084 04 \$17,839 89 59 00 103,492 17 723 84 62 90 5,174 61 33,916 67 5,722 98 10,113 46	\$201,322 84 \$18,753 76 34 00 115,181 46 891 74 5,302 36 43,531 48 18,362 67 10,451 60
E.	Materials: Building Machinery Electrical Miscellaneous materials		\$177,105 52 \$18,198 64 132 00 21,873 66 65,932 94	\$212,509 07 \$19,160 06 64 77 30,386 09 57,034 41
F.	Special Items: Pensions and annuities Workmen's compensation		\$106,137 24 \$898,013 41 731 89	\$106,645 33 \$910,689 78 1,669 55
	Grand totals	, ;	\$898,745 30 \$6,996,698 62	\$912,359 33 \$8,319,392 48

FIRE DEPARTMENT REVENUE, 1948.

Permits for storage	of	infla	mm	able	fluid	s, ce	ertific	cates	of	***	-
registration, etc.										\$86,855	
Sale of badges .											60
Sale of old condemn	ed	hose								52	59
Sale of junk .										612	41
Miscellaneous sales						1				3,597	05
Damage to apparate		and m	oto	r veh	icles					8,118	37
Damage to fire alar										2,686	
Total .										\$102,019	77



LADDER 27.
American LaFrance 65-Foot Aerial, Power Driven.



FIRE ALARM DIVISION. (17)

TOTAL NUMBER OF ALARMS TRANSMITTED. (To Which Apparatus Responded.)

	1946.	1947.	1948.
First alarms (boxes)	10,400	8,608	8,269
Still alarms — (net total)	6,599	6,498	5,578
Total alarms — Boston only	16,999	15,106	13,847
Mutual aid	85	83	71
Total alarms	17,084	15,189	13,918
Alarms received from citizens by telephone	5,688	5,553	4,977
Per cent of total alarms	33.4	36.6	35.8
Total false alarms	2,628	2,036	2,129
Per cent of total alarms	15.3	13.4	15.3
Total box alarms transmitted since April 28, 1852, through December 31, 1948		330,954*	339,223

^{*} First alarm received at 8.25 p.m. on April 29, 1852.

ANALYSIS OF STILL ALARMS RECEIVED AND TRANSMITTED.

	1946.	1947.	1948.
Received from citizens by telephone	5,688	5,553	4,977
Received from Police Department	976	858	729
Received from Fire Department	1,611	1,385	1,303
Boxes received, treated as stills	106	58	27
Emergency calls treated as stills	869	969	1,161
Received from Boston Automatic*	214	214	184
Received from A. D. T.*	137	118	116
Received from G. A. C.*	79	53	86
Gross total	9,680	9,208	8,583
DEDUCT. Still alarms received for which box alarms were pulled after, and box alarm transmitted. Still alarms received for which box alarms were transmitted,	216 2,865	191 2,519	83 2,922
Net total still alarms	6,599	6,498	5,578
Mutual Aid alarms	85	83	71

^{*} Does not include alarms received after still alarm or after City box alarms, in which case no action was taken.

SUMMARY OF ALARMS DURING 1948 FROM BOSTON AUTO-MATIC FIRE ALARM COMPANY, AMERICAN DISTRICT TELEGRAPH COMPANY, GENERAL ALARM COMPANY.

	Boston Automatic Fire Alarm Company.	American District Telegraph Company.	General Alarm Company.
Alarms transmitted by Company to Fire Alarm Head- quarters.	184	116	86
City box alarms transmitted after Company alarm had been transmitted.	184	116	86
Company box alarm transmitted, no City box alarm transmitted	-	_	_
Company alarm transmitted, City box pulled by citizen after Company alarm transmitted, City box transmitted	-	_	_
Company alarm received after still alarm or City box alarm, and therefore not transmitted.	6	15	9

ANALYSIS OF FALSE ALARMS.

	1946.	1947.	1948.
Box alarms received and transmitted.	2,495	1,935	2,055
Telephone alarms received for which box alarms were transmitted.	35	21	40
Boston Automatic alarms received for which box alarms were transmitted.	-	1	1
A. D. T. alarms received for which box alarms were transmitted.	2	2	_
G. A. C. alarms received for which box alarms were transmitted.		_	_
Total false alarms for which box alarms were transmitted	2,532	1,959	2,096
Box alarms received, treated as still alarms (no box trans- mitted).	37	44	11
Telephone alarms received, treated as <i>still</i> alarms (no box transmitted).	22	33	22
Total false alarms to which apparatus responded	2,591	2,036	2.129
Adjacent box alarms received for which no action was taken,	15	4	4

Note.— Net total still alarms indicates number of alarms for which apparatus was dispatched by telephone without box alarm and alarms for which private company box only was transmitted without City box alarm.

8,266 4,871 779 13,916 37 127 148 306 11,191

ANALYSIS OF ANALYSIS OF ANALYSIS OF A ANALYSIS OF A 112 S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ALYSIS OF ALARM Trobranty. Trobranty. Trobranty. Trobranty. March. March.	ALVSIS OF ALARMS BY February. February. February. February. February. Alareb.	ALVSIS OF ALARMS BY MON February. February. Alarch. Abril. Abril.	NLVSIS OF ALARMS BY MONTH. February. May. May	NLVSIS OF ALARMS BY MONTHS. Pobrunty. Pobrunty.	NLYSIS OF ALARMS BY MONTHS. February. February.	NLVSIS OF ALARMS BY MONTHS. February. May. Ma
OF March. 1,189 80 83 72 March. 967 2 8 9 11.1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	OF ALARM March. 1,13	OF ALARMS BY Alarch. Alarch. Alarch. March. April.	OF ALARMS BY MON Alarchi. Aprill. Ap	OF ALARMS BY MONTHS. Alarch. Aprill.	- Sugark co co co	Janguh 1 2 2 4 4 4 2 2 4 5 5 7 7 8 8 7 7 8 8 7 7 8 9 8 1 7 8 9 8 7 7 8 9 8 9 9 9 9 9 9 9 9 9 9 9	August August 11 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Alanda Al	Aprill April	Aprill April Apri	Aprill April	- Sugark co co co	Janguh 1 2 2 4 4 4 2 2 4 5 5 7 7 8 8 7 7 8 8 7 7 8 9 8 1 7 8 9 8 7 7 8 9 8 9 9 9 9 9 9 9 9 9 9 9	August August 11 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
August. Aug	August. Aug	August. Aug	2 September. 1461 16 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	October.		November.	

	False	129	154	174	167	173	156	114	156	500	305	213	156	2,106
	Aeeidental	51	33	24	26	20	18	21	31	33	18	19	53	347
res	Resoue	117	101	85	110	101	26	135	112	125	143	141	144	1,423
NU.	Needless bell	83	90	73	53	46	51	28	47	53	63	20	73	740
	Needless still	65	61	35	35	24	28	15	30	31	38	24	39	425
	Automobile fires	109	88	94	1111	103	101	101	107	95	119	26	121	1,246
	Rubbish, vacant lot	25	16	19	160	69	40	104	81	86	19	38	58	801
ani-	Rubbish, near building	6	17	26	51	34	20	25	36	99	36	22	33	365
Leon	Dump		*******	4	20	9	01	11	20	17	60	4	2	59
	Brush or grass		60	237	364	114	24	40	47	344	190	118	127	1,608
-	Other outdoor	51	33	19	18	09	99	107	75	123	112	22	62	883
	Marine	9	01	1	61	67		63	01	1	63	1	01	23
	Out of city calls	6	00	12	4	9	00	*	4	60	90	6	00	78
ani .e.	Confined to room	358	335	268	316	234	215	237	213	230	238	254	381	3,279
20.00	Confined to building	61	46	48	41	51	53	31	32	37	30	17	48	471
-	Extended to others	1	6	9	*	00	4	1	9	9	20	9	10	62

MULTIPLE ALARM FIRES.

	1944.	1945.	1946.	1947.	1948.
Two Alarms	39	61	54	49	65
Three Alarms	13	12	24	15	18
Four Alarms	0	5	4	7	1
Five Alarms	3	0	0	0	1
Totals	55	78	82	71	85

SUMMARY OF MULTIPLE ALARM FIRES ACCORDING TO MONTHS OF THE YEAR — 1948.

	Two Alarms.	Three Alarms.	Four Alarms.	Five Alarms.	Total
January	13	2	1	1	17
February	7	2	_	-	9
March	4	3	-	-	7
April	6	1	-	-	7
May	4	1	-	-	5
June	3	1	-	-	4
July	2	-	-	-	2
August	1	3	-	-	4
September	6	-	-	-	6
October	6	-	-	-	6
November	3	. 1	-	-	4
December	10	4	-	-	14
Totals	65	18	1	1	85

SUMMARY OF ALARMS ACCORDING TO DAY OF WEEK — 1948.

	Boxes.	Stills.*	Total.	Number of Days in Year.	Average Per Day.
Monday	1,189	775	1,964	52	37.7
Tuesday	1,140	794	1,934	52	37.2
Wednesday	1,099	739	1,838	52	35.3
Thursday	1,152	769	1,921	53	36.3
Friday	1,297	837	2,134	53	40.0
Saturday	1,295	909	2,204	52	42.4
Sunday	1,097	826	1,923	52	37.0
Totals	8,269	5,649	13,918	366	38.1

^{*} Alarms received from B.A., A.D.T., or G.A.C., where private company box only was transmitted without City box, have been included under Still Alarms.
All alarms for Mutual Aid have been included under Still Alarms.

SUMMARY OF ALARMS ACCORDING TO TIME OF DAY — 1948.

	Boxes.	Stills.	Total
12.00 Mid.— 1.00 A.M.	282	161	443
1.00 A.M.— 2.00 A.M	327	132	459
2.00 A.M.— 3.00 A.M	170	81	251
3.00 A.M.— 4.00 A.M	116	55	171
4.00 A.M.— 5.00 A.M	84	51	135
5.00 A.M.— 6.00 A.M	67	36	103
6.00 A.M.— 7.00 A.M	91	55	146
7.00 A.M.— 8.00 A.M	130	87	217
8.00 A.M.— 9.00 A.M	191	134	325
9.00 A.M.—10.00 A.M	252	196	448
10.00 A.M.—11.00 A.M	291	266	557
1.00 A.M.—12.00 Noon	370	346	716
12.00 Noon — 1.00 P.M	386	339	725
1.00 p.m.— 2.00 p.m	384	387	771
2.00 р.м.— 3.00 р.м	392	380	772
3.00 p.m.— 4.00 p.m	444	357	801
4.00 p.m.— 5.00 p.m	586	446	1.032
5.00 р.м.— 6.00 р.м	695	440	1,135
6.00 р.м.— 7.00 р.м	541	380	921
7.00 p.m.— 8.00 p.m	549	359	908
8.00 p.m.— 9.00 p.m	609	319	928
9.00 p.m.—10.00 p.m	543	282	825
10.00 p.m.—11.00 p.m	407	189	596
11.00 P.M.—12.00 Mid	362	171	533
Totals.	8,269	5,649	13,918

SUMMARY OF ALARMS ACCORDING TO FIRE DISTRICTS — 1948.

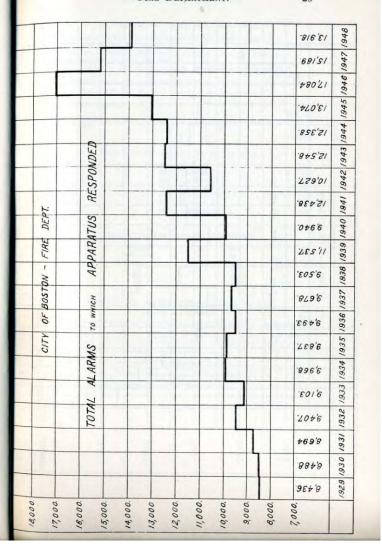
	DISTRICTS.				Boxes.	Stills.	Total
1.	East Boston				403	324	727
2.	Charlestown				428	227	655
4.	North and West Ends				625	255	880
5.	Business District				367	168	535
6.	South Boston				769	373	1,142
7.	South End and Back Bay				864	427	1,291
8.	Roxbury (West)				1.027	574	1,601
9.	Roxbury (East)				929	551	1,480
10.	Dorchester (North) .				642	462	1,104
11.	Brighton				536	516	1,052
12.	Jamaica Plain				575	374	749
13.	Roslindale, West Roxbury				400	426	826
14.	Dorchester (South) .			-	633	552	1,185
15.					271	349	620
	Total in City	Ċiti	es :	and	8,269	5,578	13,847
	Towns				-	71	71
	Totals				8.269	5,649	13,918

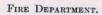
MUTUAL AID RESPONSE.

	Resp		BOSTO s and T		utside	Resp	onse of Towns	Adjace TO BO	nt Citie	s and
	1944.	1945.	1946.	1947.	1948.	1944.	1945.	1946.	1947.	1948.
Biddeford, Maine		_		1	127					
Brookline	11	9 2 4	19	14	11	39	97	119	97	83
Cambridge	2	2	-	1	4	3	100		1	1
helsea	11	4	17	12	9	3	-	_	3	8
Dedham	-	-	1	-	-	19	13	26	20	15
verett	2	4	2	1	4	1	3	2	1	1
itchburg	-	-	-	1	-	-	-	_	-2	
loucester	-	-	-	1	-	-	-	-	-	_
ynn		-	-	1	-	-	-	-	_	-
falden	-	1	-	7	-	-	-	_	-	-
Iilton	6	4	7 5	7	3	3	-	1	-	2
lewton	4 3	1 4 2 4	5	3	2 3	30	20	19	16	14
uincy	3	4	-	1	3	3	-	2	-	1
eading	-	-	-	1	-	-	-	_		-
evere	-	-	77	2	-	-	-	-	-	-
omerville	27	31	33	35	35	24	23	41	34	27
Valtham	-	=	1	=	-	-	-	-	-	-
Totals	66	61	85	83	71	125	156	210	172	152

SUMMARY OF EMERGENCY SERVICES, ACCIDENTAL, AND NEEDLES ALARMS, JANUARY 1 — DECEMBER 31, 1948.

Total Alarms - Eme		Servi	ce					1.423
Accidental Alarms								347
Needless Alarms								1,165





27

3				1			2129	
							1551 2356 2591 2036 2129	
							2591	
							2356	
							1659 1443 1368 1436 1049 1471	
	N.						1049	
	(need)	55					1436	
	DEPT.	20 YEARS					1368	
							1443	
	- FIRE	ALARMS FOR PAST					1659	
	OF BOSTON -	OR ,					1357 1441	
	808	1 50					1357	
	OF	LARI					1643	
	CITY	35 4		10/1			1816 1643	
		FALSE					1168 1541	
							1168	
							3//	Charles of
							889	
4							108	The same of
3000		2,500.	2,000.	1,500.	1,000.	500.	NUMBER	

1947, as g Add to corr 7356 insta	ect er	ror i	in 1943	Annu	al Repor						nd	1,813
Correct nun	ber o	f Fir	re Aları	m Boxe	es in serv	ice a	s of	Dec	emb	er 3		
Fire Alarm	Boxes	inst	alled J	anuary	1 to Dec	emi	per 3	1 10	48		4	1,815
rife Alarin	Boxe	s dis	scontin	ued Ja	nuary 1	to .	Dece	mbe	r 31	,	-	
1948 Net increase	in	um h	on of bo								1	
ves merease	; ш п	шпре	er or be	ixes .			77				•	3
Total n	umbe	r of I	Fire Ala	rm Bo	xes in ser	vice	99 0	Doc	amb		7	-
1948								Dec	emi	er e		.818
					7. 5							2010
					,							
	FIR	RE A	ALARA	и во	XES IN	DI	STR	ICT	S			
District 1	FIR	RE A	ALARA		XES IN		STR	ІСТ	s.		•	116
	FIR	RE A	ALARA	102	Distric	t 9	STR	ICT	s.			
District 2	FIR	RE A	ALARA	102 104	Distric Distric	t 9 t 10	STR	іст :	s. :			148
District 2 District 4	FIR	RE A	ALARA	102 104 105	Distric Distric	t 9 t 10 t 11	STR	ict :	s. :	****		148 163
District 1 District 2 District 4 District 5 District 6	FIR	RE A	ALARA	102 104 105 73	Distric Distric Distric	t 9 t 10 t 11 t 12	STR	ict :	s. :	****		148 163 105
District 2 District 4 District 5	FIR	RE /	ALARA	102 104 105 73 183	Distric Distric Distric Distric	t 9 t 10 t 11 t 12 t 13	STR	eict :	s. :			148 163 105 179
District 2 District 4 District 5 District 6 District 7	FIR	RE /	ALARA	102 104 105 73	Districe Districe Districe Districe Districe	t 9 t 10 t 11 t 12 t 13 t 14	STR	CICT	s. :	******		148 163 105 179 163
District 2 District 4 District 5 District 6 District 7	FIR	RE /	ALARA	102 104 105 73 183 105	Distric Distric Distric Distric	t 9 t 10 t 11 t 12 t 13 t 14	STR	CICT	s. :			148 163 105 179 163
District 2 District 4 District 5 District 6 District 7	FIR	RE /	ALARA	102 104 105 73 183 105	Districe Districe Districe Districe Districe	t 9 t 10 t 11 t 12 t 13 t 14	STR	CICT	s. :			148 163 105 179 163
District 2 District 4 District 5 District 6 District 7				102 104 105 73 183 105 143	Districe Districe Districe Districe Districe Districe	t 9 t 10 t 11 t 12 t 13 t 14 t 15				*******		148 163 105 179 163
District 2 District 4 District 5 District 6 District 7		RE	ALAR	102 104 105 73 183 105 143	Districe Districe Districe Districe Districe	t 9 t 10 t 11 t 12 t 13 t 14 t 15	i i i i i i i i i i i i i i i i i i i	ONS				118 148 163 105 179 163 127
District 2 District 4 District 5 District 6		RE Di		102 104 105 73 183 105 143	Districe Districe Districe Districe Districe Districe	t 9 t 10 t 11 t 12 t 13 t 14 t 15		ONS				148 163 105 179 163

FIRE ALARM BOXES ESTABLISHED IN 1948. (Total — 4 Boxes.)

DATE.	Box.	Location.	District.
May 24	1578	Beacon and Clarendon streets	7
Aug. 17	3526	Morton and Wildwood streets	14
Sept. 16	12-3233	St. Mary's Infant Asylum, Cushing avenue	10
Dec. 13	4116	Rutherford avenue and Mason street	2

FIRE ALARM BOXES DISCONTINUED IN 1948.

DATE.	Box.	Location.	District.
Sept. 16	12-3231	St. Mary's Infant Asylum, Jerome street	10

FIRE ALARM BOXES RENUMBERED - 1948.

During 1948 a total of 254 Fire Alarm Boxes were renumbered, including 250 boxes in the 2400-2500-2600-2700 series and four boxes in the 3500 series. Box numbers of the 2800-2900 series were established in West Roxbury. Complete list of these boxes is given in General Orders, Nos. 20, 27, and 37.

CHANGE IN DESIGNATION OF FIRE ALARM BOXES.

Designation on Assignment Cards for 49 boxes was corrected or revised in accordance with change of ownership or change in street names. These changes are given in General Orders, Nos. 1, 15, 25, 28, 29, 32, 34, 36, and 65.

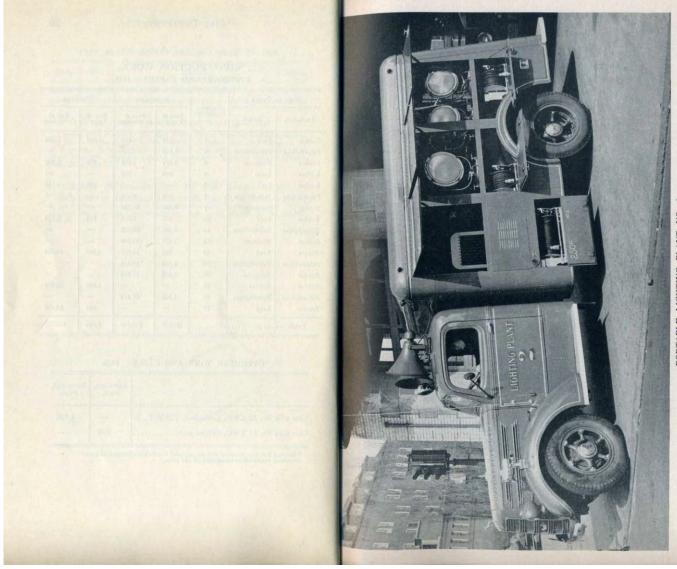
CONSTRUCTION WORK. UNDERGROUND CABLES — 1948.

TYPE O	F CABLE.	Number.	Ins	TALLED.	RE	MOVED.
Insulation.	nsulation. Jacket.		Feet of Cable.	Feet of Conductors.	Feet of Cable.	Feet of Conductors
Rubber	Lead	4	150	600	1,980	7,920
Polyethylene	Polyethylene	4	1,945	7,780	-	-
Rubber	Neoprene	4	1,825	7,300	300	1,200
Rubber	Loom	4	340	1,340	_	-
Rubber	Lead	6	-	-	690	4,140
Polyethylene	Polyethylene	7	210	1,470	-	-
Rubber	Neoprene	7	3,030	21,210	-	-
Rubber	Lead	10	320	3,200	615	6,150
Polyethylene	Polyethylene	10	2,820	28,200	-	-
Rubber	Neoprene	10	1,480	14,800	_	_
Rubber	Lead	19	695	13,205	2,235	42,465
Polyetyhlene	Polyethylene	19	1,505	28,495	_	-
Rubber	Neoprene	19	2,825	53,675	_	-
Rubber	Rubber	20	-	-	1,000	20,000
Polyethylene	Polyethylene	37	1,012	37,444	-	-
Rubber	Lead	37	-	-	915	33,855
Totals			18,157	219,739	7,735	115,730

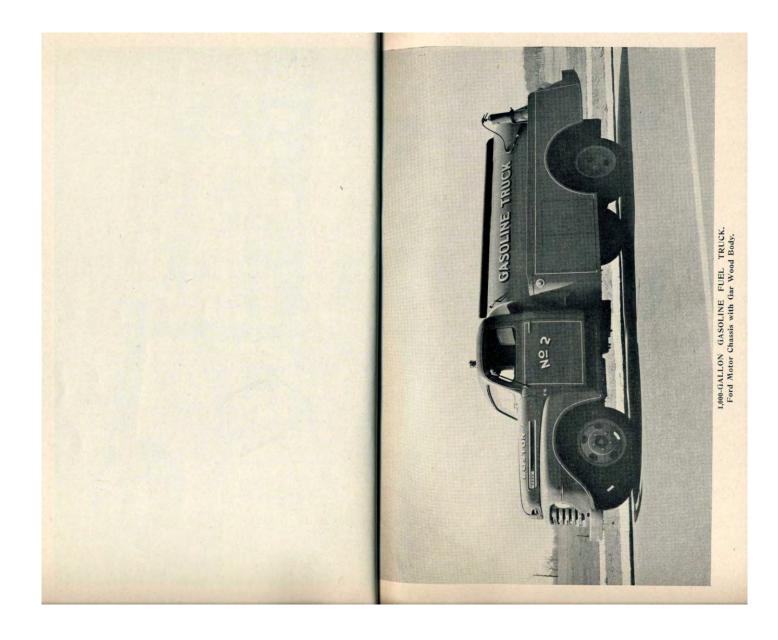
OVERHEAD WIRE AND CABLE - 1948.

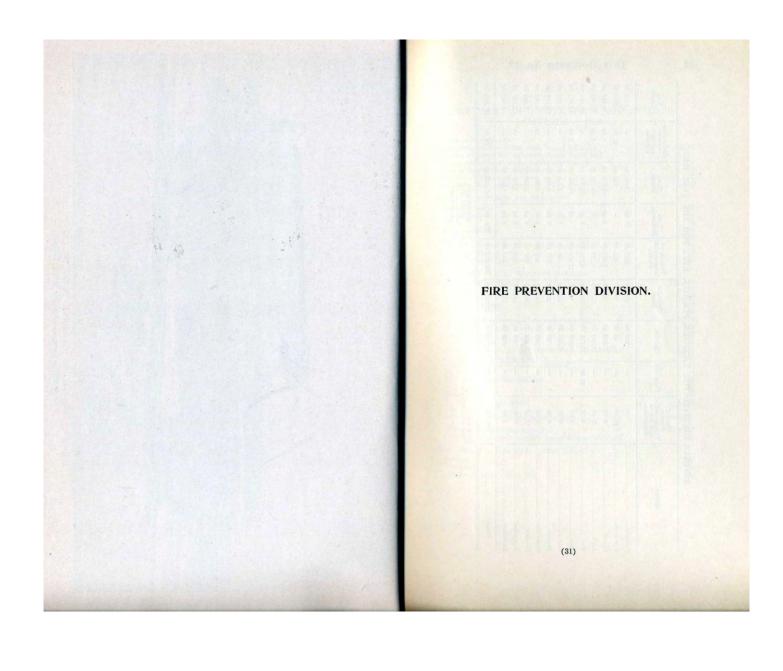
	Installed, Feet.	Removed, Feet.
Line wire No. 12 AWG, galvanized, T.B.W.P	-	4,950
Line wire No. 14 AWG, twisted pair	270	_

Overhead line wire removed was not replaced due to abandonment of poles. Overhead construction transferred on 201 poles.



Mack Motor and Chassis. Body by W. F. Lacey and Sons Company, Medford, Mass. Carries 5,000-Watt Kohler Generator to Supply Two 1,000-Watt Flood Lights and Four 500-Watt Flood Lights.





1948.
YEAR
THE
FOR
ETC.,
PERMITS,
LICENSES,
FOR
RECEIVED
REVENUE

Мояти,	Blasting, Storage, Transportation I and Sale of Explosives,	Fireworks.	Licenses.	Open-Air Fires.	Permits — Inflammable Fluids.	Tank Removals.	Gross Totals.	Deductions Over- payment Permits.	Net
January	1	1	\$84 00	\$40 00	\$865 50	\$1 00	\$990 50	1	0668
February	\$1 00	1	00 89	26 50	455 50	1	551 00	81 00	\$550
March	4 00	1	3,083 50	99 50	1,431 00	1.50	4,619 50	50	4,619
April	3 50	1	14,669 00	159 00	6,274 50	20	21,106 50	4 50	21,102
May	3 00	\$1 00	14,721 50	229 50	8,721 50	1 00	23,677 50	50	23,677
June	4 00	1	3,336 50	89 00	12,456 00	90	15,886 00	1 00	15,885
July	2 00	1	3,021 50	139 00	1,089 00	1 00	4,255 50	1	4.255
August	4 00	1	3,769 00	241 50	757 00	2 50	4,774 00	1	4.774
September	2 00	1	4,163 00	245 50	652 50	.2 00	5,065 00	50	5.064
October	2 50	1	1,424 50	142 00	767 00	3 00	2,339 00	1	2,339
November	2 00	1	1,367 50	106 00	290 00	2 00	2,267 50	1	2,267
December	1 00	1	630 00	116 00	583 00	1 50	1,331 50	1	1,331
Totals	\$32 00	\$1 00	\$50,338 00	\$1,633 50	\$34,842 50	\$16 50	\$86,863.50	\$8 00	\$86.855

	mi								
Мокти.	Biasting, Storage, Transportation and Sale of Explosives,	Fireworks.	Licenses.	Open-Air Fires.	Permits — Inflammable Fluids.	Tank Removals,	Gross Totals.	Deductions -Over- payment Permits.	Net Totals.
January	1	1	\$84 00	\$40.00	\$865 50	\$1 00	\$990 50	1	\$990 50
February	\$1 00	1	00 89	26 50	455 50	1	551 00	81 00	\$550 00
March	4 00	1	3,083 50	99 50	1,431 00	1.50	4,619 50	50	4,619 00
April	3 50	1	14,669 00	159 00	6,274 50	20	21,106 50	4 50	21,102 00
May	3 00	\$1 00	14,721 50	229 50	8,721 50	1 00	23,677 50	50	23,677 00
June	4 00	1	3,336 50	89 00	12,456 00	90	15,886 00	1 00	15,885 00
July	5 00	1	3,021 50	139 00	1,089 00	1 00	4,255 50	1	4.255 50
August	4 00	1	3,769 00	241 50	757 00	2 50	4,774 00	1	4.774 00
September	2 00	1	4,163 00	245 50	652 50	.2 00	5,065 00	50	5,064 50
October	2 50	1	1,424 50	142 00	767 00	3 00	2,339 00	1	2,339 00
November	2 00	1	1,367 50	106 00	290 00	2 00	2,267 50	1	2,267 50
December	1 00	1	630 00	116 00	583 00	1 50	1,331 50	1	1,331 50
Totals	\$32 00	\$1 00	\$50,338 00	\$1,633 50	\$34,842 50	\$16 50	\$86,863 50	\$8 00	\$86,855 50

SUMMARY OF INSPECTIONS AND INVESTIGATIONS — 1948.

General Inspections				
Dwelling houses, other than 1- and 2-family .				18,727
Places of assembly, cabarets, dance halls, etc.		-		4.130
Mercantile and manufacturing occupancy	1100			3,080
Department small retail stores etc.			•	4 770
Department, sman retain stores, etc				4,772
Mystic Docks, Charlestown				1,716
Dwelling houses, other than 1- and 2-family Places of assembly, cabarets, dance halls, etc. Mercantile and manufacturing occupancy Department, small retail stores, etc. Mystic Docks, Charlestown Reinspections (all types)				6,053
Special Inspections and Supress				
Public schools Private schools Oil farms Film exchanges Libraries Boarding homes for the aged, convalescent home Jails, institutions, etc. Reinspections (all types)				221
Private schools				131
Oil forme				8
Cilmanis				26
rim exchanges				20
Libraries				23
Boarding homes for the aged, convalescent home	es, etc			184
Jails, institutions, etc				32
Reinspections (all types)				143
7 7 7				
INSPECTIONS BY FIRE COMPANY OFFICERS				
Building inspections				16,561
Theaters				4,558
Schoolhouses			3	3,338
Public buildings				803
Carbarns			- 3	60
Fuel oil burner installations and equipment				9,578
Inflammable finish at the facilities				241
innammable nuids, storage facilities				341 639
Open air nres				639
Tank removals				33
License renewals, garage, repair shop, inflammat	oles .			2,680
License renewals, parking lots				335 240
License petitions (location approval)			9	240
Blasting				64 188 37
Boarding homes for children				188
Day nurgaries				27
Hognitals				167
Painment (11 4				1 101
Inspections by Fire Company Officers Building inspections Theaters Schoolhouses Public buildings Carbarns Fuel oil burner installations and equipment Inflammable fluids, storage facilities Open air fires Tank removals License renewals, parage, repair shop, inflammat License renewals, parking lots License petitions (location approval) Blasting Boarding homes for children Day nurseries Hospitals Reinspections (all types) Total inspections and reinspections				4,104
Total inspections and reinspections				83,881
				19.467
Hazardous conditions remedied Conditions referred to other departments (writte				19,407
Conditions referred to other departments (writte	n) .			305
FIRE DRILLS - FIRE PREVENTION WEEK:				
				250
Schools Theaters Hospitals, institutions, etc.	:			72
Hospitala institutions at				
riospitals, institutions, etc				139

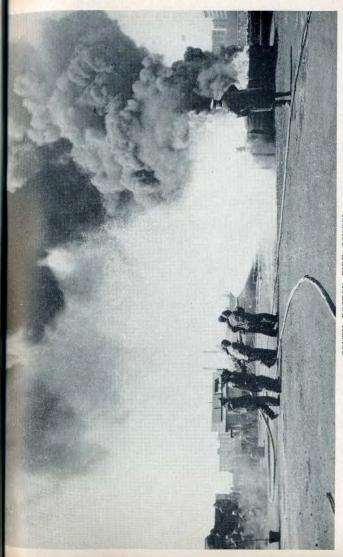
ARSON SQUAD ACTIVITIES - 1948.

Fires reported as of suspicious origin						21
Fires reported as of undetermined origin						120
Fires, multiple alarms						65
Fires, cause given, but investigated .	2					101
Fires, result of which loss of life occurred	1					16
Fires alleged to be set by boys						87
Fire Prevention inspections						173
Tests made of manholes, catch-basins, in	ıflan	nma	ble g	ases		116
Cases forwarded to District Attorney's	office					5
Cases presented to the Grand Jury, Suff	olk (Cour	nty			7
Convictions, Superior Court, Suffolk Con						7
Cases presented, Municipal District Cou	rts	*				25
Convictions, Municipal Courts						21

CHEMICAL LABORATORY. (Summary of Analyses and Tests — 1948.)

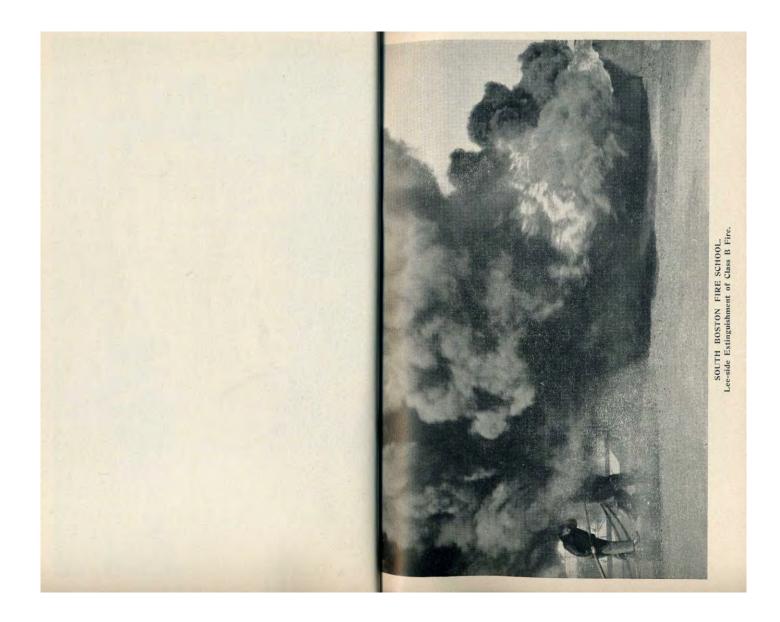
Tests of flammable liquids				11
Tests of decorative materials				634
Analyses of material for Arson Squad				6

Because of inadequate facilities at the temporary laboratory, tests were limited. $\,$



SOUTH BOSTON FIRE SCHOOL.

Demonstration of Rockwood Type N. 23 Fog Nozzle, Discharge Approximately 200 G.P.M. at 100 Lbs. Nozzle Pressure.



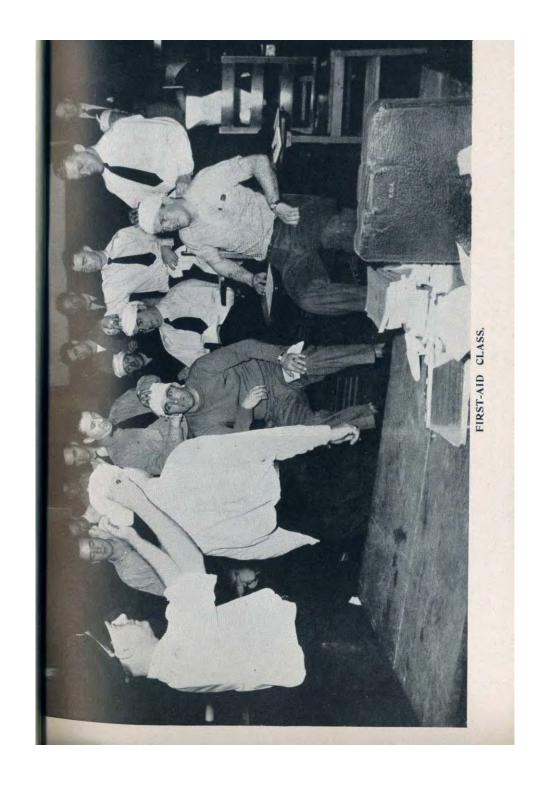
ANALYSIS OF FIRES IN BUILDINGS AND CAUSES OF FIRES. (35)

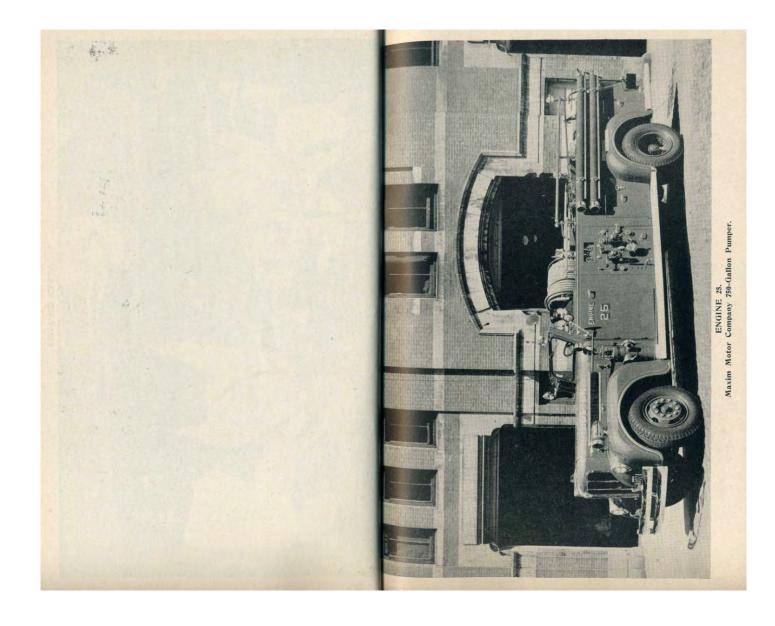
ANALYSIS OF FIRES IN BUILDINGS - 1948.

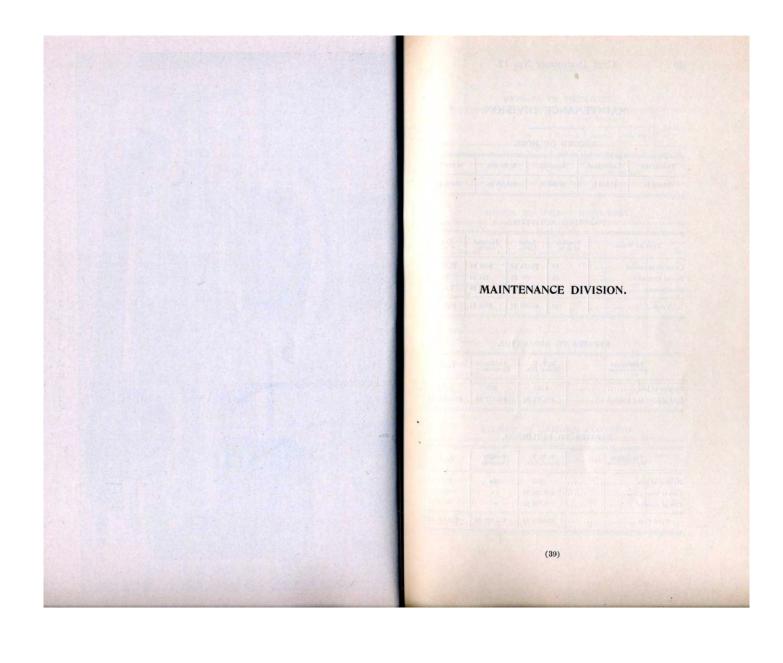
		Co	nstr	ucti	ion (of B	uildi	ings.		
Fire-resisti	ve									281
Second clas	SS									1,928
Frame .										1,600
Other type	S									3
Total										3,812
			"P	oint	of	Orig	in.			
Basement										1,201
First floor		4								1,087
Second floo	r									509
Third floor										397
Above thir	d floo	or								199
Roof .		-								71
Outside										348
										-
Total			100				124	1 *1		3,812
			E	exte	nt o	f Fi	re.			
Confined to	poir	it c	of orig	gin						3,279
Confined to	buil b	din	gs							471
Spread to	other	bui	lding	ţs.				*		62
Total										3,812

CAUSES OF FIRES IN BUILDINGS - 1948.

Fireworks								2
Careless smoking .								1,026
Chimneys: Defective, s	oot, a	nd si	oarks					362
								728
Fuel oil burners . Electrical appliances ar	nd mot	ors						359
Children and matches								180
Unknown								118
Miscellaneous known c	auses				•	•		232
Spontaneous ignition	W CLOCK							74
Defective heaters and	rubbis	h		•				156
Grease and food on sto							•	103
Other careless use of m								42
Hot ashes	attities	,						44
Defective wiring .					*	*		152
Incendiary or suspiciou					(*)			18
Clothes too near fire	18 .							39
		*						
Flammable liquids .								16
City gas and appliance	s .							23
Sparks from machines								18
Thawing water pipes								19
Malicious mischief .								86
Kerosene lamps, stoves								13
Home dry cleaning .								2
1948 Total								3,812
CAUGES OF	0117	200	on.	rın			40	
CAUSES OF	001	DO	OR	FIR	ES-	- 19	48.	
Brush								1,608
Automobile								1,246
Other outdoor fires .								883
Rubbish (vacant lot)								801
Rubbish (near building								365
Dump								59
Marine								23
								20
1948 Total								4,985
								2,000
Rescues (emergency ca	lls)							1,423
Out of city calls .								78
								.0







FIRE DEPARTMENT.

MAINTENANCE DIVISION.

RECORD OF HOSE.

PURCHASED,	Condemned.	Repaired.	In Service.	In Stock.
18,560 ft.	17,998 ft.	29,880 ft.	215,337 ft.	12,683 ft.

PAINTING ACTIVITIES.

TYPE OF WORK.	Number of Jobs.	Labor Costs.	Material Costs.	Total Costs.
Complete apparatus	10	\$2,675 00	\$463 36	\$3,138 36
Partial apparatus	82	637 51	124 46	761 97
Miscellaneous	197	2,727 05	350 89	3,077 94
Totals	289	\$6,039 56	\$938 71	\$6,978 27

REPAIRS TO APPARATUS.

Performed by	B. F. D. Maint. Div.	Outside Concerns.	Total.
Number of jobs	4,911	586	5,497
Cost of labor and material	\$76,071 35	\$32,017 68	\$108,089 03

REPAIRS TO BUILDINGS.

Performed By———	B. D. F. Maint, Div.	Outside Concerns.	Total.
Number of jobs	740	238	978
Cost of labor	\$18,744 70	_	_
Cost of material	5,786 94	-	-
Total Cost	\$24,531 64	\$15,198 62	\$39,730 26

REPAIRS TO FIREBOATS.

	Co	ST, MATERI	AL.	m
	Lumber.	Packing.	Valves.	Total.
B. F. D., Maintenance Division	\$39 82	\$258 88	\$440 14	\$738 84
Outside Concerns		\$7,9	97 89	

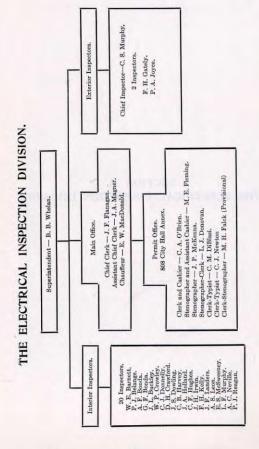
MOTOR EQUIPMENT INVENTORY.

TYPE OF EQUIPMENT.	In Service.	In Reserve
Pumping Engines	52	36
Hose Cars	41	29
Aerial Ladder Trucks	29	12
City Service Ladder Trucks	10	3
Water Towers	2	2
Wrecking Unit	1	_
Rescue Cars	3	2
Fuel Cars	2	_
Lighting Plants	3	1
Auxiliary Pumpers	6	_
Chief Officers' Cars	42	25
Commercial Trucks	29	_
Totals	220	110

RECORD OF UNIFORM CLOTHING.

ARTICLE.	Received and Distributed.	Repaired and Cleansed.	Reissued.
Overcoats	787	8	134
Sack Coats	786	14	60
Trousers	833	114	21
Uniform Caps	1,162	-	85
Rubber Fire Coats	416	397	56

SECTION II,
THE ELECTRICAL INSPECTION DIVISION. (43)



ELECTRICAL INSPECTION DIVISION.

The following report shows the work of the Electrical Inspection Division for the year 1948.

The underground district for 1949 was prescribed in accordance with the provisions of chapter 100 of the Acts of 1946.

EXPENSES AND INCOME OF THE DIVISION FOR 1947 AND 1948.

	1947.	1948.
Expenses	\$103,870 52	\$108,268 79
Income	68,882 00	68,649 14

FIRES AND MISCELLANEOUS TROUBLES.

Fires and miscellaneous troubles reported as due to electrical causes were investigated and reports of the same are on file in the records of the division:

Fire in buildings					240
Miscellaneous					16
Manhole troubles				4	24
Pole fires .				-	2

Causes of Fires and Miscellaneous Troubles Investigated by the Electrical Inspection Division in 1948.

Defective cords .		4						
Christmas tree lights,	shor	t circ	uit					
Refrigerator motor								
Washing machine mo								
Short circuit in switch	h box							
Short circuit in electri								
frayed cords, and	shor	t ci	rcuit	ing	of v	vires	und	er
canopy.	repa	airin	g str	reet	in co	ontac	t wi	th
Steam shovel used in insulator caused bro	repa eak d	airin	g str	reet isula	in contion	ontac	t wi	th
Steam shovel used in insulator caused bro	eak d	own	g str	reet isula	in contion	ontac	t wi	th
Steam shovel used in insulator caused bro Water leak on electric	eak d e fixtu	own ire	g str of ir	reet nsula	in contion	ontac	t wi	th
Steam shovel used ir insulator caused bro Water leak on electric Radio transformer bro	eak d c fixtu eakdo	own ire wn	of ir	reet nsula	in contion	ontac	t wi	th
Steam shovel used in insulator caused browater leak on electric Radio transformer bro Defective electric hea	eak d c fixtu eakdo	own ire wn	of ir	reet nsula	in contion	ontac	t wi	th
Steam shovel used in insulator caused browner leak on electric Radio transformer bro Defective electric head Defective switch	eak d c fixtu eakdo	own ire wn	of ir	reet nsula	in contion	ontac	t wi	th
Steam shovel used in	eak de fixtue eakdo ting l	own ire own olanl	of ir	reet	in contion	ontac	t wi	th

Defective wan receptacle					
Defective temporary wiring installed	by j	anit	or wi	tho	at
inspection					
Manhole explosion		2			
Short circuit in candle-type electric	unit				
Defective motor (unclean or lack of	lubri	icati	on, b	roke	en
windings, etc.)					
Overheated electric bulb ignited lam	p sh	ade			
Transformer breakdown					
Overloaded system					
Iron left in circuit, overheated .					
Defective cable on elevated structur	e				
Automatic elevator control					
Broken receptacle on kitchen range					
Pole fire					
Spark from switch box fell on comb	oustil	ble 1	mater	rial	
Crane being operated pulled up ca	ables	car	ising	sho	rt
circuit					
Poor contact of one side of circuit brea	aker	caus	ed sa	met	00
overheat					
Lightning surge					
Short circuit in television set .					
Short circuit in Edison terminal box					
Defective joint in Edison cable under	r bri	dge			
Defective cutout caused short circuit	t in f	use	box		
Penny in fuse holder					
Defective wiring installed by unlicen	sed	pers	on		
Workmen digging broke insulation o	f Ed	ison	cable	е	
B.X. punctured by nail hammered t	hrou	gh s	ame		
Men drilling in street struck Edison	cabl	e ca	using	sho	rt
circuit					
Onomo		-			

EXTERIOR DIVISION.

The underground district for the year 1949 as prescribed under authority of chapter 100 of the Acts of 1946 include the following streets from which poles are to be removed and the wires buried underground:

Jamaica Plain.

Pershing road, from Centre street to Pond View avenue; Montebello road, from Brookside avenue to Marmion street; Brookside avenue, from Boylston street to Cornwall street; Marmion street, from Cornwall street to Germania street.

Charlestown.

Water street, from Wapping street to North Washington street Bridge; Henley street, from Warren street to Chelsea street.

Dorchester.

River street, from Central avenue to Blue Hill avenue; Harvard street, from Blue Hill avenue to Washington

West Roxbury.

Cummins Highway, from Washington street to Hyde Park avenue; Park street, from Centre street to Martin

The above makes a total distance of four miles as prescribed by law.

In these prescribed streets from which poles and overhead wires are to be removed there are standing as of December 31, 1948, 209 poles with wires attached.

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

- Vitrified clay (laid in concrete)
 Fiber (laid in concrete)
- 3. Iron
- 4. Wood 5. Transite (laid in concrete)

In side or residential streets special underground construction for light and power purposes (115–230 volts), of a type known as "Split Fiber Solid Main System," has been installed.

				EX	PEN	IDIT	UR	ES.				
D 0									1947.		1948.	
Personal Ser Permanent			rees				33		\$96,000	17	\$100,803	12
									400,000	-	9100,000	
CONTRACTUAL												
Printing and	i bi	ndi	ng							00	135	
Advertising	and	i po	osting						97	90		30
Transportat	ion	of	perso	ns					1,379		1,425	
Bond and ir	sur	anc	e pre	miu	ms					00		00
Communica									610		630	54
General rep	airs								50	00	9	50
									\$2,240	69	\$2,305	44
EQUIPMENT:												
Office									87	70	\$32	45
Library										_		_
Tools and in	ıstr	um	ents							-	4	50
									87	70	\$36	95
SUPPLIES:												
Office									\$2,612	27	\$2,214	36
MATERIALS:											1	-
Electrical .										-	\$9	00
SPECIAL ITEM	s:											
Pensions .									\$3,009	69	\$2,899	92
Grand tot	als								\$103,870	52	\$108,268	79

1948.
-1
YEAR
FOR
WORK
UNDERGROUND
UNDER

Č	Li	LENGTH IN FEET.		NUMB	NUMBER OF
COMPANY	Conduit.	Duct.	Cable.	Manholes.	Services.
Boston Edison Company	72,750	125,455	199,386	53	371
New England Telephone and Telegraph Company	20,736	94,762	336,234	9	45
Boston Consolidated Gas Company	587	1,837	33,518.6	9	
Boston Fire Department.	08	80	17,817	1	63
Boston Police Department.	80	80	16,500	1	
Metropolitan Transit Authority	1	1	48,515.5	1	1
Western Union Telegraph Company.	1	1	1	1	1

TABLE SHOWING WORK OF EXTERIOR DIVISION - 1948.

Number of poles set in new locations	16.		28
Number of poles removed			11
Number of poles reset, replaced, straightened .			296
Number of poles standing in public streets			19,068
Number of inspections			9,023
Number of notices of overhead construction .		,	4,799
Number of overhead reports			3,872
Number of notices of underground construction			2,229
Number of underground reports			1,575
Feet of wire removed by the various companies			236.135

WORK DONE.

The Following is a Summary of Work of Interior Division (Two Years).

	1947.	1948.
Notices of new work received	20,296	17,185
Number of permits issued to turn on current	14,906	14,228
Number of incandescent lamps inspected	1,397,499	1,543,437
Number of motors inspected	24,944	24,052
Number of arcs inspected	2,185	2,125
Number of inspections made	32,105	29,484
Number of inspections of theaters, places of amusement and public halls.	917	960

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Type of Insulation. nished cambric, lead. nished cambric, lead, paper. rethylene, lead.	COMPANT.	Boston Edison Company Rubber, varnished cambric, lead	New England Telephone and Telegraph Company, Paper, lead.	Boston Consolidated Gas Company Rubber, var	Boston Fire DepartmentRubber, pol	Boston Police DepartmentRubber, par	Metropolitan Transit Authority Rubber, neorrene, lead.	Western Union Telegraph Company
No. 6 to 15,00 M.C.M. 2-2121 pairs, nos. 13-26. No. 6 to 1,000 M.C.M. 4 to 37 conductors. 11 conductors and 10 pa	Type of Insulation.						rrene, lead	
Size.	Size	No. 6 to 15,00 M.C.M.	2-2121 pairs, nos. 13-26.	No. 6 to 1,000 M.C.M.	4 to 37 conductors.	11 conductors and 10 pairs.	No. 6 to 1,000 M.C.M.	None,

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Alarms (See Fire Alarm	s)										
Apparatus:											
In General											1
Inventory	-	7.5			*	*			,		1,
Renairs											4
Sorrigo Poporte							*	*	10	10	14 1
Arron Sanad					*				12,	10,	14, 1
Desilding Program											. 0
Candon Units											4,
Cardox Units							11				2,
Clauses of Fires									- 4		3
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Personnel											4
Revenue	•	•									1
Underground Distri	at				10						18 1
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Evanting Organization	*		*								4
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Interior Division (Overhead Work. Personnel Revenue Underground Distri Underground Work Executive Organization Expenses False Alarms									10,	19,	21. 2
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											-
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Discontinued											2
Change in Designat Discontinued . Established . Number of											2
Number of											2
rumoer or .											
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CITY OF BOSTON OF PRINTING DEPARTMENT