

FIRE DEPARTMENT

AND ELECTRICAL INSPECTION DIVISION



CITY OF BOSTON



ANNUAL REPORT 1947

ANNUAL REPORT
OF THE
FIRE DEPARTMENT
AND ELECTRICAL
INSPECTION DIVISION

OF THE
CITY OF BOSTON
FOR THE
YEAR ENDING DECEMBER 31, 1947



CITY OF BOSTON
PRINTING DEPARTMENT
1948

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. Patrick J. Kennedy.
 (Acting February 17—March 20.)
 1905-1908. Benjamin W. Wells.
 1908-1910. Samuel D. Parker.
 1910. Francis M. Carroll.
 (Acting May 27—September 16.)
 1910-1912. Charles C. Daly.
 1912-1914. Charles H. Cole.
 1914-1919. John Grady.
 1919-1921. John R. Murphy.
 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.
 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— Napeen Boutilier.

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

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ANNUAL REPORT

OF THE

FIRE DEPARTMENT

FOR THE YEAR 1947.

BOSTON, January 2, 1948.

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, 1947.

It is no exaggeration to state that the year 1947 has been one of the most notable years in the entire history of the department due to radical changes in the administrative setup of the department. In the first place the advent of the forty-eight-hour work week for the uniformed force, which became effective February 4, 1947, necessitated a complete reorganization as well as a considerable reassignment of the department's personnel. Whereas the former work week for the uniformed force consisted of eighty-four hours the requirements of the new law restricted the work week to an average of not more than forty-eight hours.

It was my conservative estimate that a minimum of 750 new men, together with the necessary promotions in the various officer grades would be needed to operate the department on an efficient basis and maintain standards in conformance with the Underwriters' requirements. Shortly after the first of January, 1947,

the department proceeded to induct 500 new men, the number authorized by Your Honor. Inasmuch as the Civil Service Commission was unable to furnish a certified list of appointees for probationary appointment it became necessary for the department to induct 500 provisional firemen and process them through the medical and physical tests set up by our own organization with the assistance of the Health Department of the city. It was not until the end of February that the processing period was finished.

Under the severe handicap of winter conditions outdoor drill schools had to be established. In order to accelerate the period of training a work week of sixty-eight hours was established for all provisional firemen. With the approval of Your Honor an additional hundred provisional firemen were added to the department strength early in July, 1947. Every measure possible has been taken to train all provisional firemen in their respective duties. Instruction in all phases of firefighting with emphasis on the use of water fog and foam were made available, not only to the provisional members but to the permanent personnel of the department through the Firefighting School established in South Boston by means of the facilities placed at our disposal by the United States Navy.

As this report is being written the Civil Service Commission of the Commonwealth has forwarded a certified list of names for permanent appointment to the department which will necessitate the dropping of approximately 385 provisional men. Fortunately a large percentage of these men have qualified for permanent appointment and are on the present certified list. However, as a result of a checking of the list it appears that the department will be compelled to induct approximately 150 new men at this time and furthermore be compelled to conduct drill schools again this year under the handicaps of winter conditions. It is my opinion that the personnel of the firefighting force cannot be properly stabilized until well along into 1948. Furthermore, the department will lose the benefit of the additional twenty work hours per week given to the department by provisional men inasmuch as all members on probation will be entitled to the provisions of the forty-eight-hour work week. This reduction in working hour alone is equivalent to the loss of 162 men in the firefighting force.

With respect to equipment and renovations and alterations in old fire stations, a much brighter picture can be presented. During 1946 the sum of \$300,000 was appropriated for much needed extensive repairs and alterations in old fire stations. This money was allocated to seven fire houses as listed below, and with the exception of Engine 33's house the work is all but completed:

Fire Station.	Cost of Alterations.	Contractor.
Engine 1	\$27,866 00	M. Solimando
Engine 22	45,761 22	J. S. Kelliher Company
Engine 24	32,946 40	M. Solimando
Engine 33	58,343 46	J. A. Singarella Company
Engine 14	24,608 46	Rossano Construction Company
Engine 41	26,381 31	J. S. Kelliher Company
Engine 46	32,493 97	Construction Units, Inc.

The sum of \$450,000 was appropriated for the construction of new fire stations. The firm of J. A. Singarella Company was awarded a contract in the amount of \$122,900 for the construction of a new fire station at Mt. Vernon and River streets, Back Bay. The old building has been removed, but on account of foundation problems in connection with the abutters there has been a delay in the erection of the new station.

Another contract was awarded to Construction Units, Inc., for a new station at the corner of Charter and Hanover streets, in the amount of \$193,602.21, to house Engine 8 and Ladder 1. This work is progressing satisfactorily and it is anticipated that the building should be completed early next April.

The department is in need of a first-class fireproof construction garage. The present building on Wareham street housing the Fire Alarm construction force, in my opinion, is structurally unsafe and should be condemned. Small car maintenance is conducted in a garage leased by the city at 172-176 Blue Hill avenue.

The main repair shop of the department at 70 Bristol street is inadequate in construction and design to take care of the vast amount of repair work necessary in a modern fire department.

In 1946 Your Honor authorized an expenditure of approximately \$550,000 for the purchase of new equipment. Delivery of all equipment ordered, with the exception of six aerial ladder trucks, was made during

the early autumn of this year. The department has actually received twenty new pumpers, six hose wagons, two high pressure hose wagons, three rescue wagons, three lighting plants, and one tractor for Tower 2. In addition, the city purchased two 500-gallon Chevrolet pumps from the War Assets Administration and we have on loan from the Navy Department one Seagrave 1,000-gallon pump and one Seagrave Quadruple ladder truck.

In order to complete the modernization program of the department, Your Honor in 1947 has further allocated the sum of \$913,000 towards new apparatus and \$20,000 for the purchase of fire alarm boxes and lockers. Contracts are now in the process of being awarded for the purchase of twenty pumps, twelve hose wagons, one tractor for Tower 1, six 65-foot aerials and four 85-foot aerials.

A fleet of eighteen small cars have likewise been ordered for district and deputy chiefs.

More than passing reference should be made to the modernization of the marine division of the department. In 1946 Your Honor allocated \$300,000 for the purchase of two Navy minesweepers for reconversion into fireboats. These boats were purchased from the United States Maritime Commission at a cost of \$25,000 each. A contract in the amount of \$168,000 was awarded to the General Ship and Engine Works, Inc., East Boston, covering the cost of reconversion. One of the boats has already been delivered and accepted by the city; namely, new Engine 31, and is considered one of the most modern and efficient fireboats along the entire Atlantic Coast. As a result of Your Honor's foresight, when the second ship is delivered next February, 1948, Boston will have the best equipped fireboat fleet of its size in the country.

Early in 1946 it was my recommendation that the City of Boston adopt a modern fire prevention code which would greatly strengthen the Fire Prevention Division of this department in its efforts to eliminate and reduce fire hazards throughout the city. A model fire prevention ordinance has now been drafted by this department and is being studied by the Law Department of the city prior to presentation to Your Honor for final approval. I trust that early consideration will be given to the adoption of this ordinance as through

the carrying out of its provisions the city should be able to materially reduce the annual fire loss.

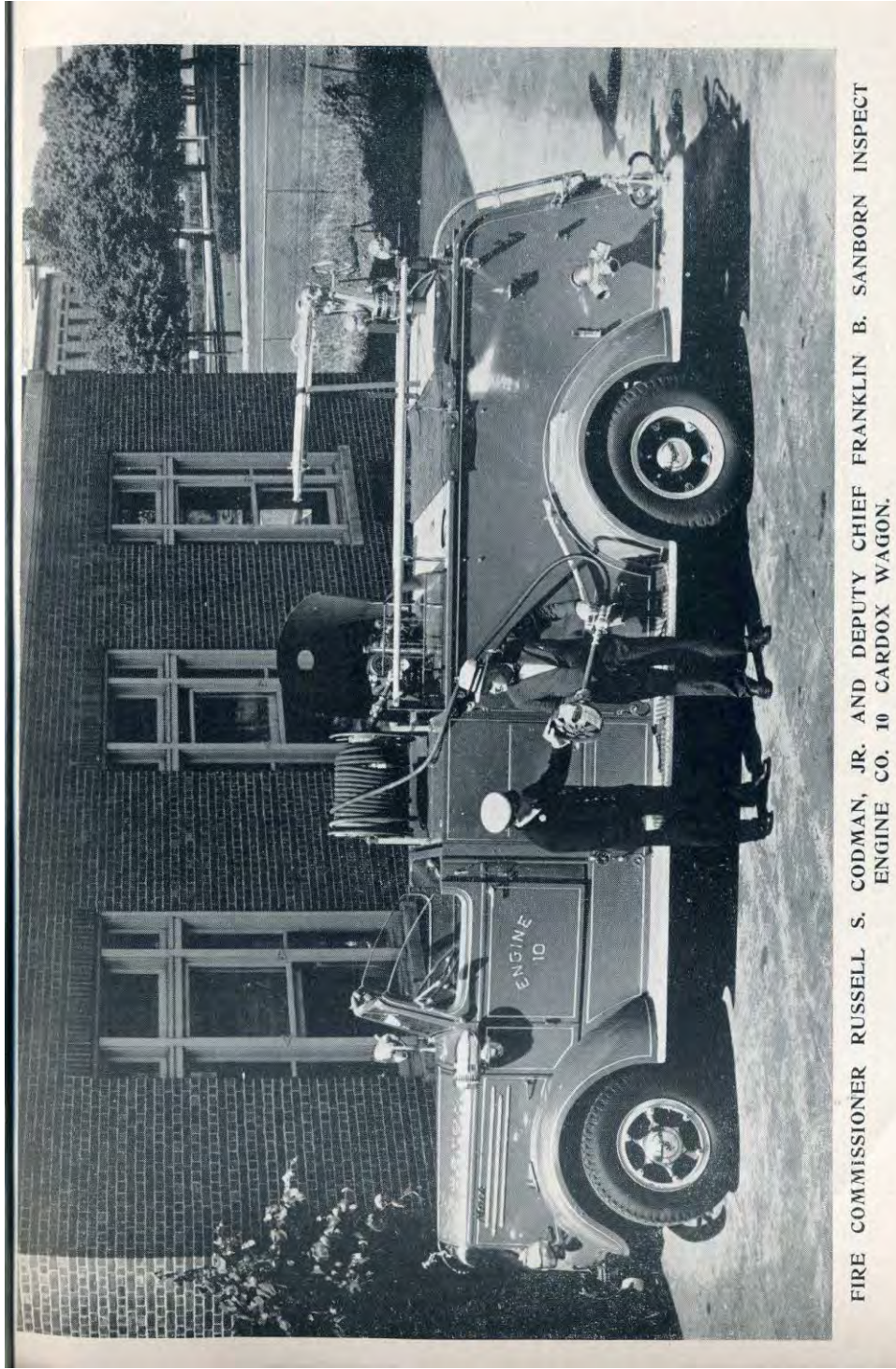
The program instituted by Your Honor in 1946 for the complete modernization of the Fire Department should be completed during 1948 and will place the Boston Fire Department in the enviable position of being one of the outstanding departments of the country from a standpoint of efficiency and capability.

Respectfully yours,

RUSSELL S. CODMAN, JR.,
Fire Commissioner.



ENGINE 1.
American LaFrance 750-Gallon Pumper.



FIRE COMMISSIONER RUSSELL S. CODDMAN, JR. AND DEPUTY CHIEF FRANKLIN B. SANBORN INSPECT
ENGINE CO. 10 CARDOX WAGON.

EXECUTIVE ORGANIZATION
BOSTON FIRE DEPARTMENT

PERSONNEL.

Awarded "H. H. Hall Medal for Valor" during 1941.
Hosmer Thomas J. McGraw, Engine Company 14.
Awarded "H. H. Hall Medal for Valor" during 1941.
Awarded "H. H. Hall Medal for Valor" during 1941.
Awarded "H. H. Hall Medal for Valor" during 1941.

**EXECUTIVE ORGANIZATION.
BOSTON FIRE DEPARTMENT.
1947.**

Fire Commissioner, RUSSELL S. CODMAN, JR.

Executive Secretary, WILLIAM D. SLATTERY.

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

Chief of Department, NAPEEN BOUTILIER.

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 "*Walter Scott Medal for Valor*" during 1947.

Hoseman THOMAS J. McGRATH, Engine Company 14.

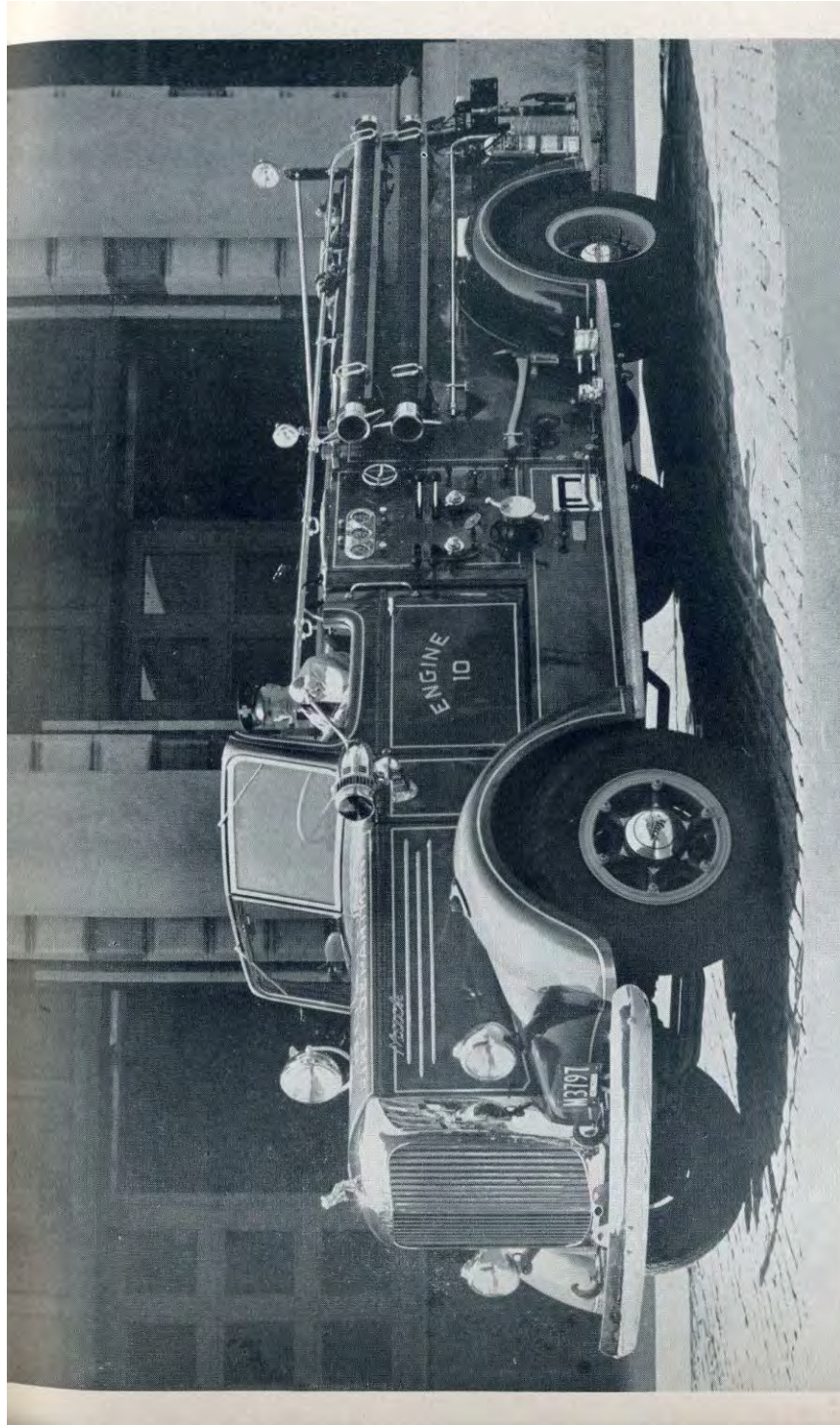
Name added to "*Roll of Merit*" during 1947.

Aide to Deputy John F. Holland, Engine Company 22.

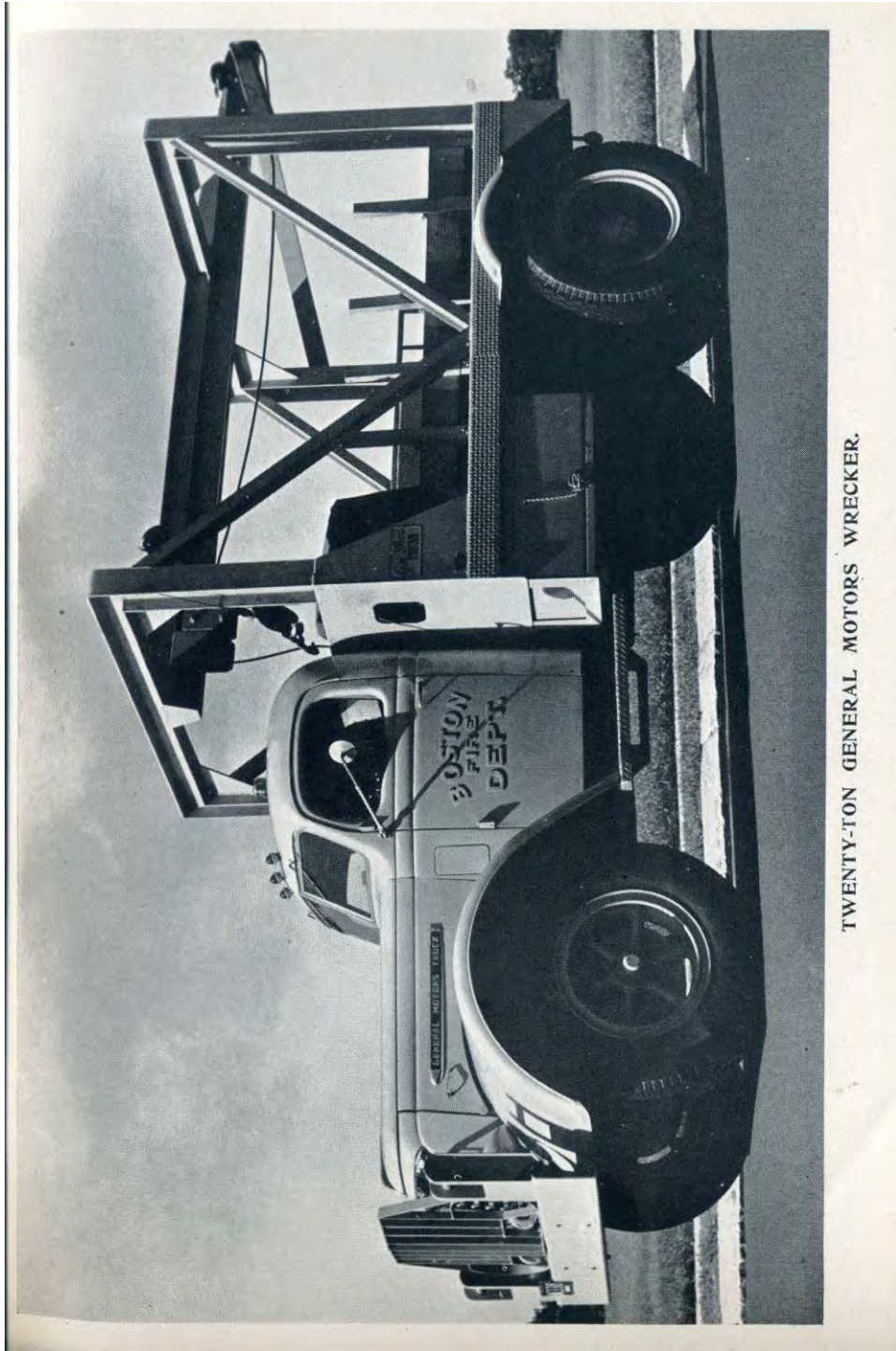
**IN MEMORIAM.
Deaths of Active Members During 1947.**

DATE.	Name.	Rank.	Company.
January 16....	Joseph A. Nelson.....	First Engineer...	Engine 31.
January 24....	John T. Murphy.....	Ladderman.....	Ladder 16.
March 19....	George H. Conner.....	Auto Repairer...	Maintenance Division.
March 24....	Charles A. Buchanan....	Hoseman.....	Rescue 1.*
May 15....	William H. Warnock....	Laborer.....	Maintenance Division.
July 3....	William J. McKernan....	Ladderman.....	Ladder 15.
August 9....	Edmund T. Bowler.....	Hoseman.....	Engine 48.
August 29....	Daniel J. Sullivan.....	Ladderman.....	Ladder 11.
October 2....	William J. Lanagan.....	Auto Machinist...	Maintenance Division.
October 5....	Louis C. I. Stickle.....	Deputy Chief...	Division Headquarters.
November 7....	Gerald F. Donovan.....	Lieutenant.....	Engine 3.
November 22....	Henry W. Henriksen....	Provisional Fireman.....	Ladder 29.
December 3....	Joseph B. Sullivan.....	Provisional Fireman.....	Ladder 19.*
December 11....	Frank N. Vogel.....	Hoseman.....	Engine 54.

* Died in performance of duty.



ENGINE 10.
Mack 1,000-Gallon Pumper.



TWENTY-TON GENERAL MOTORS WRECKER.

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

YEAR.	Total Fire Fighting Force.*	Total Number of Privates.†	Total Number of Apparatus Operators.	Total Number of Lieutenants.	Total Number of Captains.	Total Number of District Chiefs.
1943.....	1,265	936	65	114	77	28
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

* Includes Chief of Department, Aides to Commissioner and Chief of Department, Masters and Engineers on fireboats, High Pressure Service and Motor Squad.
† As of December 31.

USE OF APPARATUS.
Summary — Service Reports, 1947, Engine Companies.

UNIT.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.
Engine 1.....	672	197	31,300	90.16	34.22
Engine 2.....	429	203	49,000	80.02	12.27
Engine 3.....	752	288	97,150	148.00	28.01
Engine 4.....	643	251	44,450	92.46	33.15
Engine 5.....	400	143	34,850	86.56	4.42
Engine 7.....	450	153	55,950	133.45	8.10
Engine 8.....	431	163	35,600	151.35	26.52
Engine 9.....	397	163	43,900	85.31	7.42
Engine 10.....	483	126	31,800	104.58	43.27
Engine 11.....	266	147	40,950	71.33	32.38
Engine 12.....	951	383	82,880	284.55	49.12
Engine 13.....	1,001	398	127,150	195.49	45.20
Engine 14.....	1,167	403	108,900	307.41	47.32
Engine 15.....	548	154	43,900	92.25	28.10
Engine 16.....	472	225	61,600	77.31	47.57
Engine 17.....	735	316	64,400	110.02	19.20
Engine 18.....	712	378	65,350	145.43	59.17
Engine 19.....	593	424	71,250	227.40	80.50

Summary — Service Reports, 1947, Engine Companies — Concluded.

UNIT.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.
Engine 20.....	444	216	61,000	172.00	33.00
Engine 21.....	830	399	113,400	111.26	63.42
Engine 22.....	978	357	112,850	168.50	10.46
Engine 23.....	1,003	386	77,450	308.22	44.45
Engine 24.....	904	447	89,500	124.13	14.36
Engine 25.....	366	142	31,750	88.57	19.40
Engine 26.....	894	282	53,700	144.00	71.05
Engine 27.....	328	137	28,100	73.28	31.14
Engine 28.....	583	274	43,100	101.24	10.46
Engine 29.....	611	276	55,350	102.48	53.12
Engine 30.....	601	402	96,250	143.56	44.15
Engine 31 (Boat).....	343	11	3,150	14.54	7.10
Engine 32.....	321	234	37,200	152.46	35.51
Engine 33.....	722	506	92,750	219.14	48.45
Engine 34.....	401	256	41,610	84.00	19.00
Engine 36.....	323	156	36,250	71.44	57.53
Engine 37.....	856	523	136,950	193.48	62.05
Engine 39.....	312	113	37,500	176.06	42.44
Engine 40.....	255	115	12,950	39.29	11.10
Engine 41.....	554	319	58,700	112.06	35.18
Engine 42.....	963	426	109,800	155.27	43.51
Engine 43.....	781	250	65,500	120.09	27.18
Engine 44 (Boat).....	156	7	2,100	11.40	9.46
Engine 45.....	783	386	93,500	119.02	21.36
Engine 46.....	711	252	45,150	83.40	20.56
Engine 47 (Boat)*.....	—	—	—	—	—
Engine 48.....	400	252	66,200	83.00	11.00
Engine 49.....	298	180	39,950	87.24	16.00
Engine 50.....	517	198	36,400	122.50	21.21
Engine 51.....	381	172	49,100	78.58	9.26
Engine 52.....	603	346	51,850	117.04	19.55
Engine 53.....	495	223	51,255	95.29	23.39
Engine 54.....	25	23	4,600	10.25	5.31

* Out of service during entire year.

USE OF APPARATUS.

Summary — Service Reports, 1947, Ladder Companies.

UNIT.	Alarms Attended.	Working Fires.	Ladders Used, Feet.	Hours Work.
Ladder 1.....	568	230	5,435	139.18
Ladder 2.....	392	280	2,361	81.58
Ladder 3.....	838	441	12,214	164.07
Ladder 4.....	1,224	607	10,023*	188.14
Ladder 5.....	815	217	3,007	82.45
Ladder 6.....	672	335	656*	109.10
Ladder 7.....	974	334	2,542	109.53
Ladder 8.....	594	234	7,352	133.23
Ladder 9.....	530	153	2,935	96.09
Ladder 10.....	686	327	1,202*	120.40
Ladder 11.....	783	369	2,571	121.05
Ladder 12.....	1,077	473	16,914	230.32
Ladder 13.....	1,066	507	14,365	164.23
Ladder 14.....	722	375	3,451	139.15
Ladder 15.....	677	470	8,945	160.00
Ladder 16.....	807	432	1,298*	143.32
Ladder 17.....	513	350	6,989	140.05
Ladder 18.....	293	151	5,568	120.04
Ladder 19.....	380	173	833	43.49
Ladder 20.....	815	303	1,810	105.03
Ladder 21.....	229	142	602*	89.04
Ladder 22.....	467	199	2,330	85.29
Ladder 23.....	1,139	586	8,445*	342.43
Ladder 24.....	516	313	6,264	142.54
Ladder 25.....	589	331	862*	148.11
Ladder 26.....	808	474	7,292*	171.31
Ladder 27.....	728	375	1,625*	117.28
Ladder 28.....	369	195	1,350*	63.00
Ladder 29.....	756	399	1,906	122.06
Ladder 30.....	1,019	451	4,190	133.12
Ladder 31.....	438	143	1,145	70.24
Ladder 32.....	268	153	480*	54.16
Ladder 33.....	25	23	350	10.25

* Also used hose.

USE OF APPARATUS.

Summary — Service Reports, 1947, Rescue and Water Tower Companies.

UNIT.	Alarms Attended.	Working Fires.	Hours Work.
Rescue 1.....	1,324	385*	184.04
Rescue 2.....	2,606	411*	373.00
Rescue 3.....	771	177*	94.31
Tower 1.....	169	24	25.07
Tower 2.....	185	63	37.42

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

COMPARATIVE FIRE DEPARTMENT EXPENDITURES.

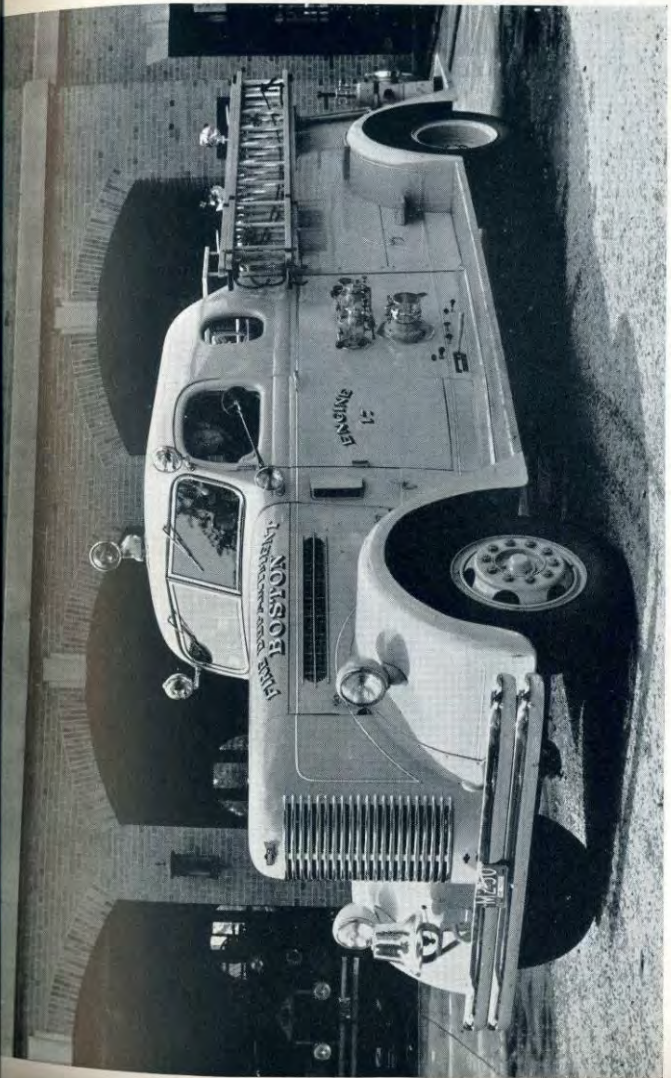
	1946.	1947.
A. PERSONAL SERVICES:		
Permanent employees	\$4,040,627 13	\$5,462,307 20
Overtime	3,934 64	2,983 14
	\$4,044,561 77	\$5,465,290 34
B. CONTRACTUAL SERVICES:		
Printing and binding	\$67 20	\$6,980 91
Advertising and posting	282 40	62 00
Transportation of persons	218 15	636 76
Express charges	54 23	725 73
Light, heat and power	37,171 17	40,939 05
Rent, taxes and water	6,510 81	20,224 36
Bond and insurance premiums	15 00	10 00
Communication	14,118 14	14,921 91
Motor vehicle repairs and care	26,286 43	22,150 56
Cleaning	4,848 10	2,889 93
Medical	1,361 85	1,298 88
Expert	115 00	—
Fees, service of venires, etc.	174 40	381 00
Photographic and blueprinting	110 68	—
General repairs	55,665 51	56,890 09
Miscellaneous services	127 00	225 00
	\$147,126 07	\$168,336 18
C. EQUIPMENT:		
Machinery	—	\$876 63
Electrical	\$3,751 50	8,844 69
Motor vehicles	2,636 79	49,585 00
Motorless vehicles	72 00	—
Furniture and furnishings	6,094 83	6,701 02
Office	475 47	3,421 41
Library	151 62	545 24
Carried forward	\$13,182 21	\$69,973 99

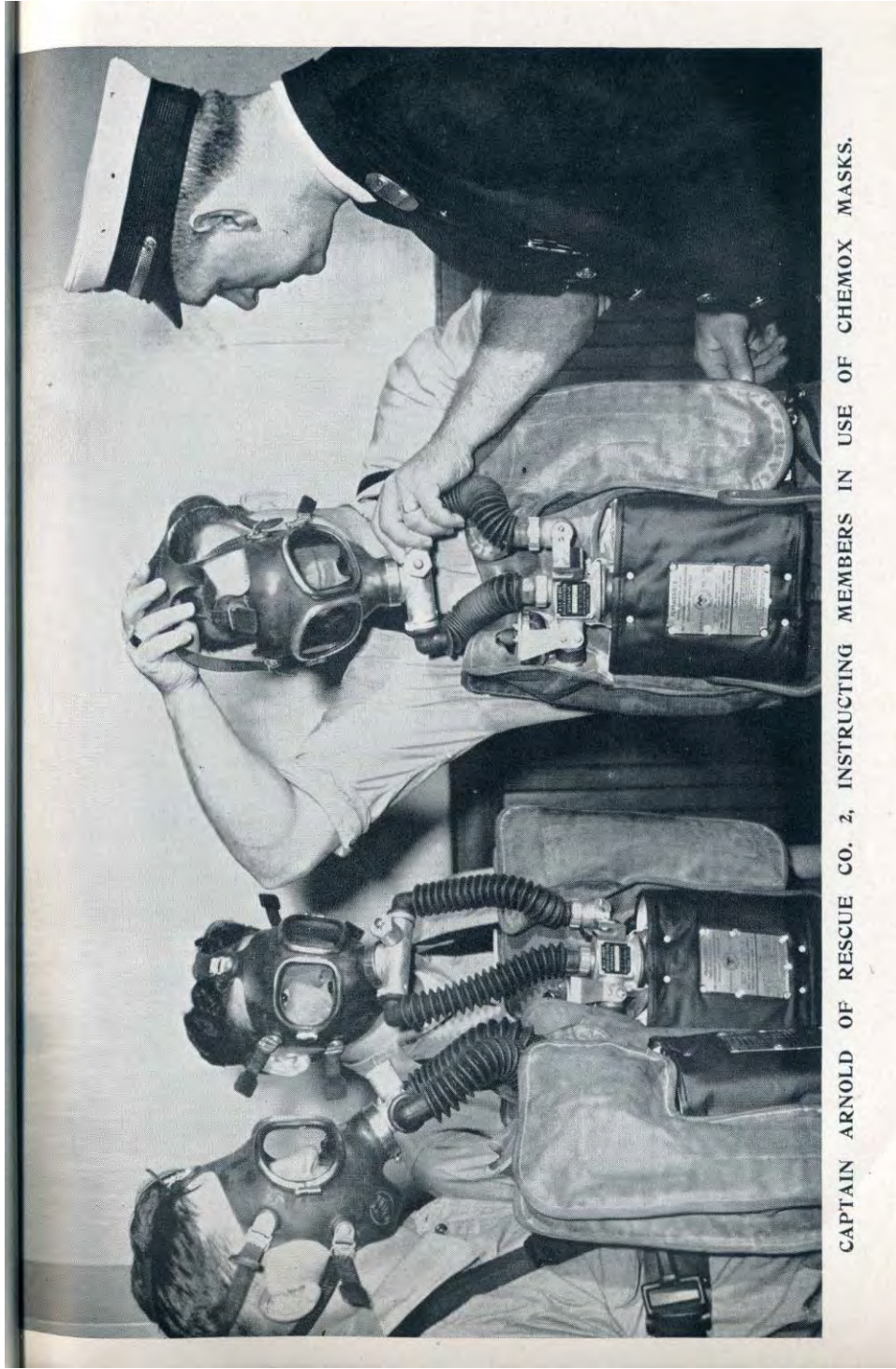
Comparative Fire Department Expenditures—Concluded.

	1946.	1947.
C. EQUIPMENT—Continued.		
Brought forward	\$13,182 21	\$69,973 99
Marine	172 64	328 25
Medical, surgical, laboratory	—	211 20
Tools and instruments	13,825 64	34,947 75
Tires, tubes and accessories	12,100 45	9,659 77
Wearing apparel	23,833 70	62,226 90
Miscellaneous equipment	3,725 34	3,736 18
	\$66,839 98	\$181,084 04
D. SUPPLIES:		
Office	\$12,520 33	\$17,839 89
Food and ice	43 00	59 00
Fuel	83,854 49	103,492 17
Medical, surgical, laboratory	221 64	723 84
Educational and recreational	—	62 90
Laundry, cleaning, toilet	3,097 57	5,174 61
Gasoline, oil and grease	24,906 02	33,916 67
Chemicals and disinfectants	5,335 32	5,722 98
Miscellaneous supplies	7,467 32	10,113 46
	\$137,445 69	\$177,105 52
E. MATERIALS:		
Building	\$12,772 07	\$18,198 64
Machinery	296 25	132 00
Electrical	16,822 33	21,873 66
Miscellaneous materials	51,243 10	65,932 94
	\$81,133 75	\$106,137 24
F. SPECIAL ITEMS:		
Pensions and annuities	\$849,430 18	\$898,013 41
Workmen's compensation	326 72	731 89
	\$849,756 90	\$898,745 30
Grand totals	\$5,326,864 16	\$6,996,698 62

FIRE DEPARTMENT REVENUE, 1947.

Permits for storage of inflammable fluids, certificates of registration, etc.	\$67,539 00
Sale of old condemned hose	58 52
Sale of junk	1,147 40
Damage to apparatus and motor vehicles	1,119 44
Damage to fire alarm boxes	1,790 70
Miscellaneous	146 30
Total	\$71,801 36

ENGINE 17.
Peter Pirsch 1,000-Gallon Pumper.



CAPTAIN ARNOLD OF RESCUE CO. 2, INSTRUCTING MEMBERS IN USE OF CHEMOX MASKS.

FIRE ALARM DIVISION.

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

	1945.	1946.	1947.
First alarms (boxes).....	8,546	10,400	8,608
Still alarms — (net total).....	4,467	6,599	6,498
Total alarms — Boston only.....	13,013	16,999	15,106
Mutual aid.....	61	85	83
Total alarms.....	13,074	17,084	15,189
Alarms received from citizens by telephone.....	4,056	5,688	5,553
Per cent of total alarms.....	31.0	33.4	36.6
Total false alarms.....	2,356	2,628	2,036
Per cent of total alarms.....	18.0	15.3	13.4
Total box alarms transmitted since April 28, 1852, through December 31, 1947.....			330,954*

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

ANALYSIS OF STILL ALARMS RECEIVED AND TRANSMITTED.

	1945.	1946.	1947.
Received from citizens by telephone.....	4,056	5,688	5,553
Received from Police Department.....	664	976	858
Received from Fire Department.....	1,268	1,611	1,385
Boxes received, treated as stills.....	42	106	58
Emergency calls treated as stills.....	824	869	969
Received from Boston Automatic*.....	253	214	214
Received from A. D. T.*.....	129	137	118
Received from G. A. C.*.....	65	79	53
Gross total.....	7,301	9,680	9,208
DEDUCT.			
Still alarms received for which box alarms were pulled after, and box alarm transmitted.....	93	216	191
Still alarms received for which box alarms were transmitted.....	2,741	2,865	2,519
Net total still alarms.....	4,467	6,599	6,498
Mutual Aid alarms.....	61	85	83

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

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.

SUMMARY OF ALARMS DURING 1947 FROM BOSTON AUTOMATIC 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 Headquarters.....	214	118	53
City box alarms transmitted after Company alarm had been transmitted.....	180	99	39
Company box alarm transmitted, no City box alarm transmitted.....	30	16	13
Company alarm transmitted, City box pulled by citizen after Company alarm transmitted, City box transmitted.....	4	3	1
Company alarm received after still alarm or City box alarm, and therefore not transmitted.....	3	11	2

ANALYSIS OF FALSE ALARMS.

	1945.	1946.	1947.
Box alarms received and transmitted.....	2,267	2,495	1,935
Telephone alarms received for which box alarms were transmitted.....	38	35	21
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.....	2,306	2,532	1,959
Box alarms received, treated as still alarms (no box transmitted).....	23	37	44
Telephone alarms received, treated as still alarms (no box transmitted).....	27	22	33
Total false alarms to which apparatus responded.....	2,356	2,591	2,036
Adjacent box alarms received for which no action was taken.....	7	15	4

ANALYSIS OF ALARMS BY MONTHS.

1947.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Alarms.													
Box.....	463	862	1,014	816	647	617	573	545	619	1,023	989	743	8,611
Telephone.....	559	794	502	511	308	325	407	330	335	738	376	396	5,662
Other calls.....	82	152	123	88	33	44	80	62	42	115	41	54	916
Totals.....	1,095	1,808	1,729	1,415	988	986	1,060	937	996	1,876	1,406	1,193	15,189
Members.....	2	5	9	—	4	2	4	1	1	8	4	4	44
Police.....	5	14	14	14	11	10	15	12	6	19	10	9	139
Watchman.....	11	14	15	13	7	11	9	15	15	10	15	6	141
Automatic.....	38	27	24	18	27	21	22	31	14	30	24	35	311
Unknown.....	163	174	171	109	146	177	148	178	202	272	155	92	2,047
Outsider.....	876	1,574	1,466	1,201	793	765	862	700	738	1,337	808	1,047	12,507
Totals.....	1,095	1,808	1,729	1,415	988	986	1,060	937	996	1,876	1,406	1,193	15,189

FIRE DEPARTMENT.

No Fires.	False.....	163	173	171	169	146	176	148	178	202	271	154	92	2,043
	Accidental.....	35	25	26	20	31	25	25	35	19	29	22	40	332
	Rescue.....	89	73	92	98	94	98	88	111	117	97	96	105	1,158
	Needless bell.....	19	31	79	50	65	51	47	58	52	75	60	91	679
	Needless still.....	107	63	25	25	25	24	30	24	37	39	31	35	465
	Automobile fires.....	98	77	96	115	95	110	125	87	87	98	88	108	1,184
Rubbish and	Rubbish, vacant lot.....	33	64	109	106	61	76	125	56	63	129	40	41	903
Grass Fires.	Rubbish, near building.....	19	40	39	33	41	41	50	24	36	62	28	34	447
	Dump.....	—	6	3	8	6	1	4	10	5	16	1	3	63
	Fresh or grass.....	81	778	612	361	80	34	71	63	35	404	138	157	2,904
	Other outdoor.....	62	64	65	63	37	47	98	76	65	201	58	54	890
Building	Marine.....	3	1	1	1	—	1	2	—	1	2	5	4	21
Fires.	Out of city calls.....	3	8	8	9	5	7	4	7	4	20	6	14	95
	Confined to room.....	329	339	335	275	245	238	309	178	242	265	341	356	3,382
	Confined to building.....	52	62	59	72	50	50	32	26	28	43	35	52	561
	Extended to others.....	2	4	9	10	7	7	2	4	3	4	3	7	62

MULTIPLE ALARM FIRES.

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

SUMMARY OF MULTIPLE ALARM FIRES
ACCORDING TO THE MONTHS FOR THE YEAR 1947.

	Two Alarms.	Three Alarms.	Four Alarms.	Five Alarms.	Total.
January.....	2	2	1	0	5
February.....	8	1	0	0	9
March.....	6	4	2	0	12
April.....	8	1	0	0	9
May.....	3	2	0	0	5
June.....	5	2	1	0	8
July.....	1	1	0	0	2
August.....	0	0	0	0	0
September.....	3	1	0	0	4
October.....	3	0	1	0	4
November.....	5	0	1	0	6
December.....	5	1	1	0	7
Totals.....	49	15	7	0	71

SUMMARY OF ALARMS
ACCORDING TO DAY OF WEEK — 1947.

	Boxes.	Stills.*	Total.	Number of Days in Year.	Average Per Day.
Monday.....	1,227	955	2,182	52	42.0
Tuesday.....	1,263	1,038	2,301	52	44.3
Wednesday.....	1,239	952	2,191	53	41.3
Thursday.....	1,248	958	2,206	52	42.4
Friday.....	1,279	981	2,260	52	43.5
Saturday.....	1,333	939	2,272	52	43.7
Sunday.....	1,019	758	1,777	52	34.2
Totals.....	8,608	6,581	15,189	365	41.4

* Alarms received from Boston Automatic, 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 — 1947.

	Boxes.	Stills.	Totals.
12.00 Mid.— 1.00 A. M.....	318	147	465
1.00 A. M.— 2.00 A. M.....	344	137	481
2.00 A. M.— 3.00 A. M.....	180	92	272
3.00 A. M.— 4.00 A. M.....	99	62	161
4.00 A. M.— 5.00 A. M.....	90	43	133
5.00 A. M.— 6.00 A. M.....	54	31	85
6.00 A. M.— 7.00 A. M.....	96	54	150
7.00 A. M.— 8.00 A. M.....	128	79	207
8.00 A. M.— 9.00 A. M.....	182	167	349
9.00 A. M.— 10.00 A. M.....	231	213	444
10.00 A. M.— 11.00 A. M.....	292	282	574
11.00 A. M.— 12.00 Noon.....	376	372	748
12.00 Noon — 1.00 P. M.....	417	481	898
1.00 P. M.— 2.00 P. M.....	388	489	877
2.00 P. M.— 3.00 P. M.....	452	464	916
3.00 P. M.— 4.00 P. M.....	523	466	989
4.00 P. M.— 5.00 P. M.....	677	558	1,235
5.00 P. M.— 6.00 P. M.....	737	542	1,279
6.00 P. M.— 7.00 P. M.....	561	430	991
7.00 P. M.— 8.00 P. M.....	565	390	955
8.00 P. M.— 9.00 P. M.....	629	363	992
9.00 P. M.— 10.00 P. M.....	556	291	847
10.00 P. M.— 11.00 P. M.....	369	239	608
11.00 P. M.— 12.00 Mid.....	344	189	533
Totals.....	8,608	6,581	15,189

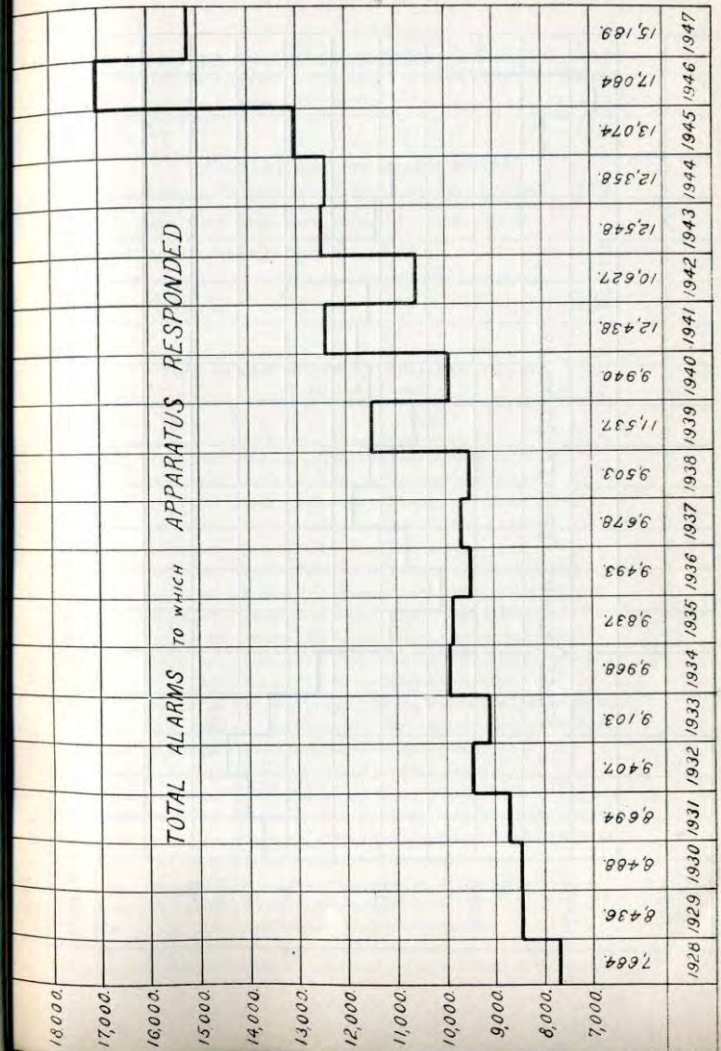
**SUMMARY OF ALARMS
ACCORDING TO FIRE DISTRICTS—1947.**

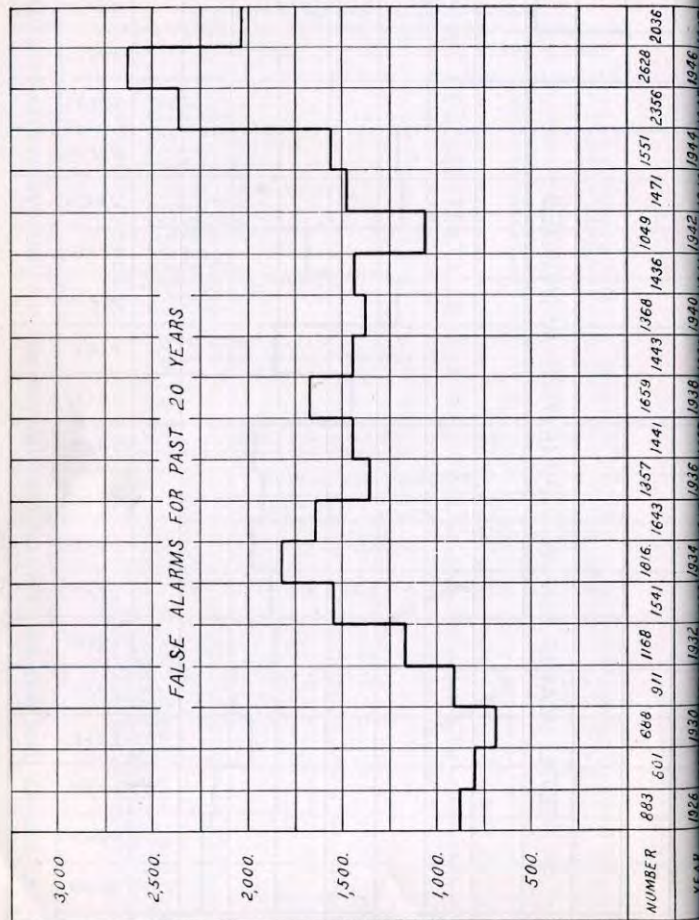
DISTRICTS.	Boxes.	Stills.	Total.
1. East Boston.....	394	348	742
2. Charlestown.....	425	212	637
3. City Proper and South Boston*.....	5	20	25
4. North and West Ends.....	513	311	824
5. Business District.....	342	201	543
6. South Boston.....	816	409	1,225
7. South End and Back Bay.....	843	526	1,369
8. Roxbury West.....	1,060	617	1,677
9. Roxbury East.....	1,019	550	1,569
10. Dorchester North.....	631	498	1,129
11. Brighton.....	580	618	1,198
12. Jamaica Plain.....	391	393	784
13. Roslindale West Roxbury.....	543	593	1,136
14. Dorchester South.....	716	677	1,393
15. Hyde Park.....	330	525	855
Total in Boston.....	8,608	6,498	15,106
Mutual Aid to Adjacent Cities and Towns.....	—	83	83
Totals.....	8,608	6,581	15,189

*District 3 was re-established on June 5, 1946, and was discontinued on February 4, 1947 (General Orders, Number 9, dated February 1, 1947).

MUTUAL AID RESPONSE.

	Response of BOSTON to Outside Cities and Towns.			Response of Adjacent Cities and Towns TO BOSTON.		
	1945.	1946.	1947.	1945.	1946.	1947.
Biddeford, Maine.....	—	—	1	—	—	—
Brookline.....	9	19	14	97	110	97
Cambridge.....	2	—	1	—	—	1
Chelsea.....	4	17	12	—	—	3
Dedham.....	—	1	—	13	26	20
Everett.....	4	2	1	3	2	1
Fitchburg.....	—	—	1	—	—	—
Gloucester.....	—	—	1	—	—	—
Lynn.....	—	—	1	—	—	—
Malden.....	1	—	2	—	—	—
Milton.....	4	7	7	—	1	—
Newton.....	2	5	3	20	19	16
Quincy.....	4	—	1	—	2	—
Reading.....	—	—	2	—	—	—
Revere.....	—	—	—	—	—	—
Somerville.....	31	33	35	23	41	34
Waltham.....	—	1	—	—	—	—
Totals.....	61	85	83	156	210	172





SUMMARY OF EMERGENCY SERVICES, ACCIDENTAL, AND NEEDLESS ALARMS, JANUARY 1 — DECEMBER 31, 1947.

Total Alarms — Emergency Service	1,158
Accidental Alarms	332
Needless Alarms	1,141

SUMMARY OF FIRE ALARM BOXES.

Total number of Fire Alarm Boxes in service as of January 1, 1947	1,795
Fire Alarm Boxes installed January 1 to December 31, 1947	23
Fire Alarm Boxes discontinued January 1 to December 31, 1947	5
Net increase in number of boxes	18
Total number of Fire Alarm Boxes in service as of December 31, 1947	1,813

FIRE ALARM BOXES ESTABLISHED IN 1947. (Total — 23 Boxes.)

DATE.	Box.	Location.
Jan. 29	12-3611	Metropolitan Transit Authority, Ashmont Station.
Feb. 19	12-337	Franklin Field Veterans' Housing, Avenues J and M.
Feb. 19	13-337	Franklin Field Veterans' Housing, rear Building 34, Avenue J.
Feb. 19	14-337	Franklin Field Veterans' Housing, Avenues L and M.
Feb. 19	15-337	Franklin Field Veterans' Housing, Avenue L.
Feb. 19	16-337	Franklin Field Veterans' Housing, Avenue K, West End.
Feb. 19	17-337	Franklin Field Veterans' Housing, Avenue K, East End.
Feb. 19	12-3374	Franklin Field Veterans' Housing, Avenues J and N.
Feb. 19	13-3374	Franklin Field Veterans' Housing, rear Building 25, Avenue J.
Feb. 19	14-3374	Franklin Field Veterans' Housing, rear Building 3, Avenue J.
Feb. 19	15-3374	Franklin Field Veterans' Housing, Avenue N.
Feb. 20	12-5225	Veterans' Temporary Housing, Harvard Way Extension, North.
Feb. 20	13-5225	Veterans' Temporary Housing, Harvard Way Extension, South.
March 11	12-345	Alsen Village, Victory road and Avenue G.
March 11	13-345	Alsen Village, Avenue G, opposite Avenue H.
March 11	14-345	Alsen Village, Avenue G, opposite Gibson street.
March 19	13-3421	Metropolitan Transit Authority, Fields Corner Station, Busway.
April 21	13-2321	Metropolitan Transit Authority, Massachusetts Station, Surface Level.
June 18	12-2313	Kenmore Hospital, 619 Commonwealth avenue.
June 23	12-2375	Robert Breck Brigham Hospital, 125 Parker Hill avenue.
Sept. 30	2249	Centre street, opposite New Heath.
Oct. 1	2427	Oakview terrace, opposite Belmore terrace.
Oct. 9	211	Washington and East Lenox streets.

FIRE ALARM BOXES IN DISTRICTS.

District 1	.	.	.	102	District 9	.	.	.	118
District 2	.	.	.	103	District 10	.	.	.	148
District 4	.	.	.	105	District 11	.	.	.	163
District 5	.	.	.	73	District 12	.	.	.	105
District 6	.	.	.	182	District 13	.	.	.	179
District 7	.	.	.	104	District 14	.	.	.	162
District 8	.	.	.	143	District 15	.	.	.	127

FIRE ALARM BOXES RENUMBERED — 1947.
(Total — 10 Boxes.)

DATE.	Old Number.	New Number.	Location.
Aug. 7	2427	2434	Chestnut avenue and Boylston street.
Nov. 7	2396	239	Hayden and Lawn streets.
Nov. 7	2416	2389	Sunnyside and Creighton streets.
Nov. 12	4115	4124	Park and Henley streets.
Nov. 12	4116	4125	Water and Gray streets.
Nov. 12	4117	4126	Chelsea street and Henley place.
Nov. 12	4118	4127	Chelsea street, opposite Prospect street.
Nov. 13	12-4114	4115	Harvard street and Harvard square.
Nov. 14	2412	2396	Parker street and Bromley park.
Nov. 15	13-2411	12-2396	Lucretia Crocker School, Bickford street.

FIRE ALARM BOX RELOCATED — 1947.

DATE.	Box.	Location.
Oct. 8	2112	Northampton street, Engine House 23, to Northampton street and Harrison avenue.

FIRE ALARM BOXES DISCONTINUED IN 1947.
(Total — 5 Boxes.)

DATE.	Box.	Location.
Feb. 12	12-4115	Nahum Chapin School, Winthrop square.
May 16	5239	Boston & Albany Railroad Stock Yards.
July 7	12-7312	Frederick W. Lincoln School, East Broadway, near K street.
Aug. 1	12-1291	Chase and Sanborn, 260 High street.
Dec. 19	13-3854	New York, New Haven and Hartford Railroad Yard, Wolcott square.

CONSTRUCTION WORK.
UNDERGROUND CABLES — 1947.

NUMBER CONDUCTOR.	INSTALLED.		REMOVED.	
	Feet of Cable.	Feet of Conductors.	Feet of Cable.	Feet of Conductors.
2 (Twin) lead.....	1,195	2,390	—	—
4 Fibrous jacket (dry).....	—	—	2,050	8,200
4 Hazaprene jacket.....	230	920	—	—
4 Lead.....	2,588	10,352	980	3,820
6 Lead.....	810	4,860	200	1,200
7 Lead.....	470	3,290	—	—
10 Fibrous jacket (dry).....	300	3,000	—	—
10 Lead.....	425	4,250	780	7,800
10 Anhydrex rubber jacket.....	1,345	13,450	—	—
19 Lead.....	320	6,080	—	—
19 Anhydrex rubber jacket.....	180	3,420	—	—
20 Anhydrex rubber jacket.....	3,122	62,440	—	—
37 Lead.....	760	28,120	385	14,245
61 Lead.....	—	—	150	9,150
80 Lead.....	—	—	281	22,480
91 Lead.....	351	31,941	—	—
Totals.....	12,096	174,513	5,176	73,545

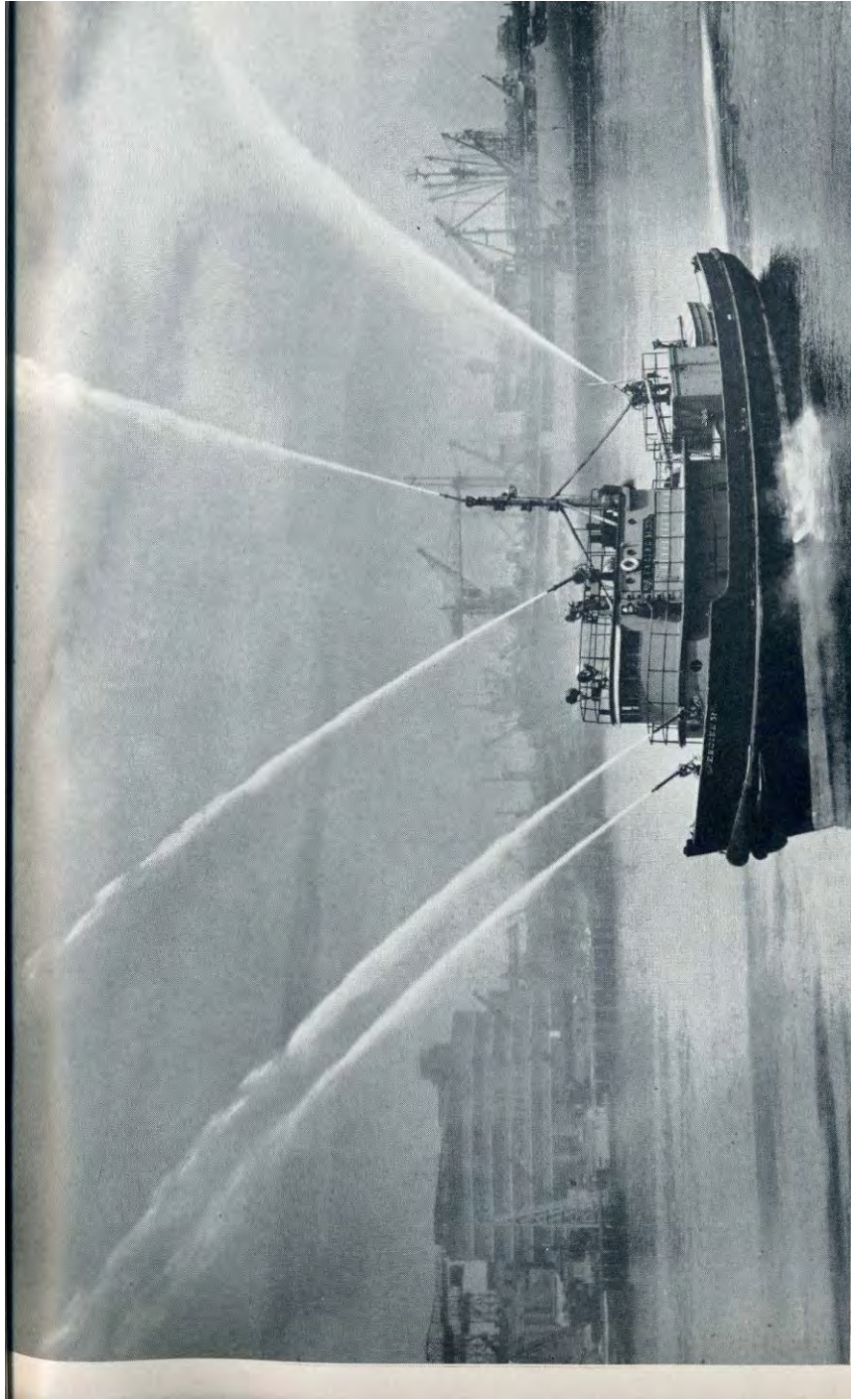
OVERHEAD LINE WIRE — 1947.

	Installed, Feet.	Removed, Feet.
No. 10 copper weld.....	2,850	2,850
No. 14 Twisted pair.....	1,414	—

Overhead construction transferred on one hundred fifty-one(151) poles in 1947.



ENGINE 25.
Mack High Pressure Wagon with Two 2,000 G. P. M. Deluge Guns.



ENGINE 31—FIREBOAT.
Propulsion—400 H. P., Diesel Engine. Four 225 H. P. General Motors Diesel Engines for Carver Pumps. Delivers 10,000 G. P. M.

FIRE PREVENTION DIVISION.

FEES COLLECTED FOR LICENSES AND PERMITS DURING 1947.

Fuel oil, inflammable fluid permits	\$32,910 50
License Registration Certificates	33,006 00
Fires in open	1,567 00
Explosives, blasting, transportation	45 50
Tank removals	15 00
Fireworks	1 00
Total	\$67,545 00

COMPARATIVE FIGURES FOR THREE YEARS.

1945	\$62,693
1946	66,216
1947	67,545

SUMMARY OF INSPECTIONS — 1947.

Uniform Inspection Force, Fire Prevention Division:

Inspections	28,623
Complaints	3,149
Corrections	3,857

Inspections by Lieutenant Thomas P. Lane:

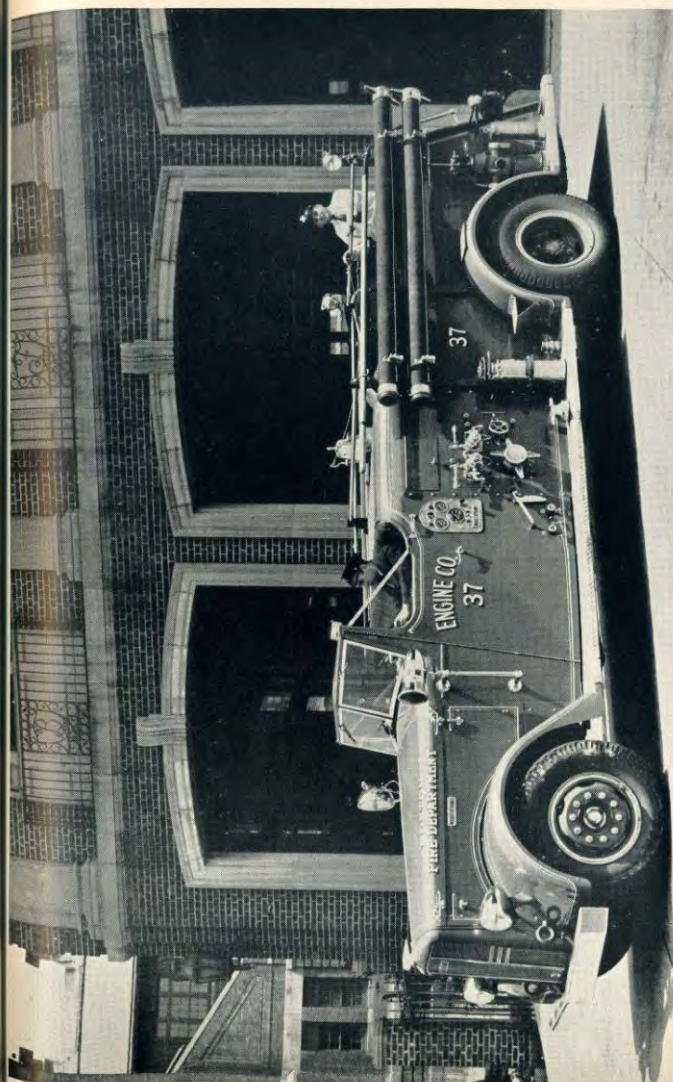
Public schools	229
Private schools	93
Oil farms	6
Film exchanges	14
College dormitories	9
Public libraries	8
Logan Airport (request inspection)	15
Registry building, 100 Nashua street (request inspection)	1
Miscellaneous inspections	69
Complaints found	320
Reinspections	167
Corrections obtained	291

District Officers:

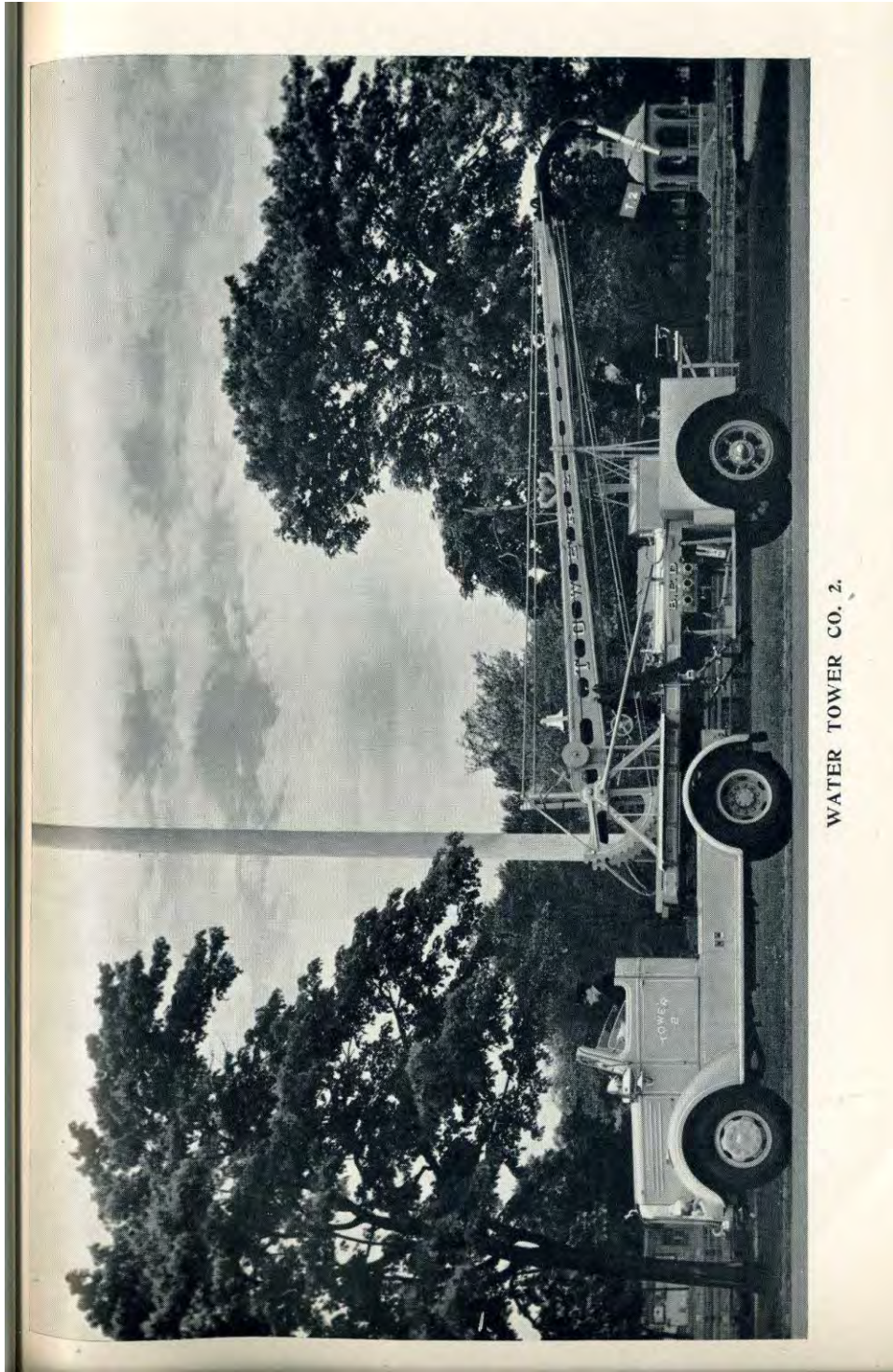
Building inspections	15,304
Theaters	4,492
Schools	3,354
Public buildings	822
Carbarns	60
Total	24,032

ARSON SQUAD ACTIVITIES — 1947.

Fires, reported as of suspicious origin	64
Fires, cause given as undetermined	297
Fires, cause given, but investigated	113
Fires, where loss of life occurred	34
Fires, set by boys	78
Inspections re violations, Chapter 148, General Laws	294
Tests made of manholes, catch-basins, inflammable odors	204
Total inspections and investigations	1,146
Cases forwarded to office of District Attorney	24
Cases presented to Grand Jury, Suffolk County	24
Convictions, Superior Court, Suffolk County	6
Cases heard in the local District Courts	12
Convictions, local District Courts	9



ENGINE 37.
Ward LaFrance 750-Gallon Pumper.



WATER TOWER CO. 2.

ANALYSIS OF FIRES IN BUILDINGS AND
CAUSES OF FIRES.

ANALYSIS OF FIRES IN BUILDINGS (1947).

Construction of Buildings.	
Fire-resistive	271
Second class	2,019
Frame	1,702
Other types	13
Total	4,005

Point of Origin.	
Basement	1,190
First floor	1,170
Second floor	531
Third floor	383
Above third floor	181
Roof	132
Outside	418
Total	4,005

Extent of Fire.	
Confined to point of origin	3,382
Confined to buildings	561
Spread to other buildings	62
Total	4,005

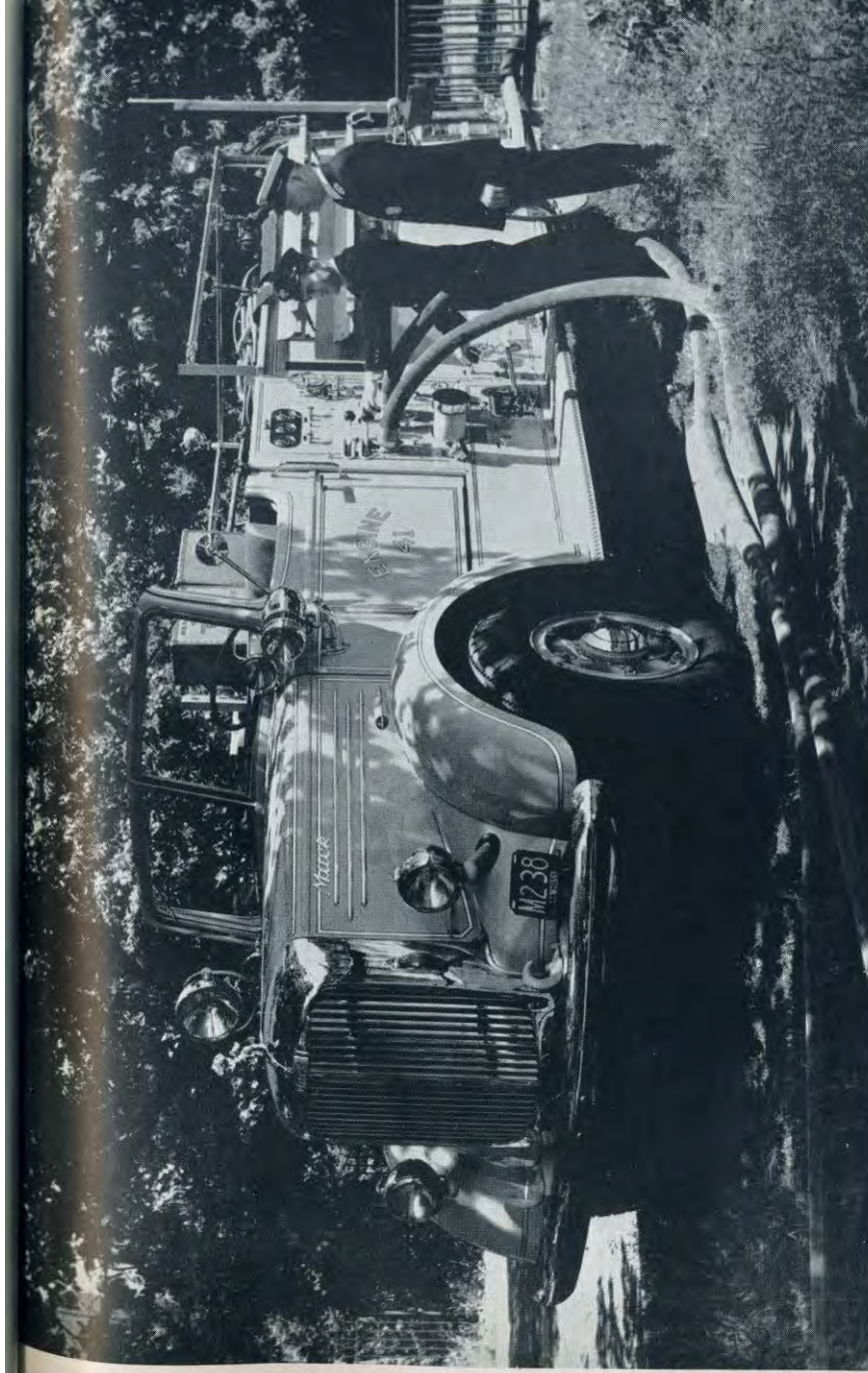
CAUSES OF FIRES IN BUILDINGS (1947).

Fireworks	1
Careless smoking	1,093
Chimneys: Defective, soot and sparks	438
Fuel oil burners	732
Electrical appliances and motors	341
Children and matches	162
Unknown	127
Miscellaneous known causes	298
Spontaneous ignition	108
Defective heaters and rubbish	144
Grease and food on stove	130
Other careless use of matches	61
Hot ashes	34
Defective wiring	94
Incendiary or suspicious	25
Clothes too near fire	34
Flammable liquids	26
City gas and appliances	22
Sparks from machines	22
Thawing water pipes	6
Malicious mischief	107
1947 Total	4,005

CAUSES OF OUTDOOR FIRES (1947).

Brush	2,904
Automobile	1,184
Other outdoor fires	890
Rubbish (vacant lot)	903
Rubbish (near building)	447
Dump	63
Marine	21

1947 Total	6,412
Rescues (emergency calls)	1,158
Out of city calls	95



ENGINE 4L.
Mack 750-Gallon Pumper.



RESCUE CO. 2.
Mack Motor and Chassis. Body by W. F. Lacey and Sons Company, Medford, Mass.

MAINTENANCE DIVISION

RECORD OF WORK

DATE	DESCRIPTION OF WORK	BY	TIME
1922			

PAINTING SECTION

DATE	DESCRIPTION OF WORK	BY	TIME
1922			

MAINTENANCE DIVISION.

DATE	DESCRIPTION OF WORK	BY	TIME
1922			

REPAIRS TO AIRCRAFT

DATE	DESCRIPTION OF WORK	BY	TIME
1922			

REPAIRS TO AIRCRAFT

DATE	DESCRIPTION OF WORK	BY	TIME
1922			

MAINTENANCE DIVISION.

RECORD OF HOSE.

PURCHASED.	Condemned.	Repaired.	In Service.	In Stock.
21,166 ft.	12,431 ft.	30,107 ft.	192,292 ft.	13,971½ ft.

PAINTING ACTIVITIES.

TYPE OF WORK.	Number of Jobs.	Labor Costs.	Material Costs.	Total Costs.
Complete Apparatus.....	3	\$69 00	\$27 04	\$96 04
Partial Apparatus.....	94	572 05	144 64	716 69
Miscellaneous.....	154	1,093 31	329 05	1,422 36
Totals.....	356	\$1,734 36	\$500 73	\$2,235 09

REPAIRS TO APPARATUS.

PERFORMED By →	B. F. D. Maint. Div.	Outside Concerns.	Total.
Number of Jobs.....	5,623	647	6,270
Cost of Labor and Material.....	\$75,374 56	\$30,587 44	\$105,962 00

REPAIRS TO BUILDINGS.

PERFORMED By →	B. F. D. Maint. Div.	Outside Concerns.	Total.
Number of Jobs.....	749	173	922
Cost of Labor.....	\$19,430 63	—	—
Cost of Material.....	5,946 85	—	—
Total Cost.....	\$25,377 48	\$13,798 35	\$39,175 83

REPAIRS TO FIREBOATS.

	COST, MATERIAL.			Total.
	Lumber.	Packing.	Valves.	
B. F. D., Maintenance Division.....	\$243 40	\$172 47	\$171 24	\$587 11
Outside Concerns.....	\$7,089 58			

MOTOR EQUIPMENT INVENTORY.

TYPE OF EQUIPMENT.	In Service.	In Reserve.
Pumping Engines.....	49	20
Hose Cars.....	43	14
Aerial Ladder Trucks.....	23	8
City Service Ladder Trucks.....	10	3
Water Towers.....	2	2
Mack Wrecker.....	1	—
Rescue Cars.....	3	2
Fuel Cars.....	1	—
Lighting Plants.....	3	—
Auxiliary Pumps.....	6	—
Chief Officers' Cars.....	40	27
Commercial Trucks.....	23	—
Salt Cars.....	3	—
Totals.....	207	76

RECORD OF UNIFORM CLOTHING.

ARTICLE.	Received and Distributed.	Repaired and Cleansed.	Reissued.
Overcoats.....	208	10	145
Sack Coats.....	322	14	94
Trousers.....	1,082	114	45
Uniform Caps.....	1,530	—	75
Rubber Fire Coats.....	627	412	31



PORTABLE LIGHTING PLANT NO. 3.

Mack Motor and Chassis, Body by W. F. Lacey and Sons Company,
Medford, Mass.

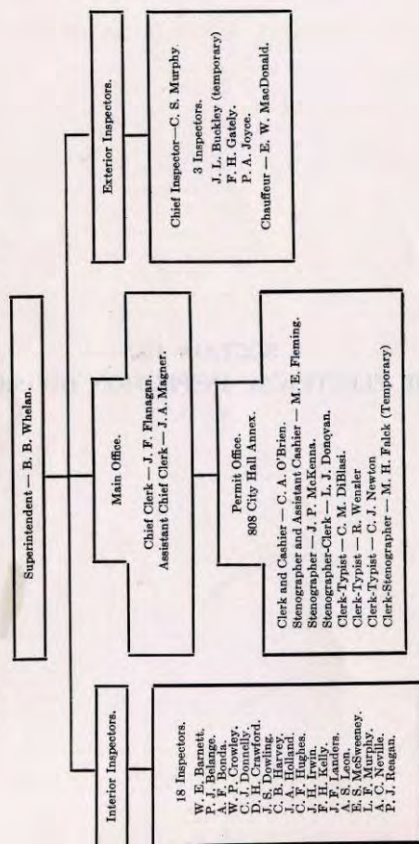
ELECTRICAL INSPECTION DIVISION

The following report shows the work of the Electrical Inspection Division for the year 1953. The division was organized by Act No. 100 of the Acts of 1946. It was then called the Electrical Inspection Bureau. In 1950, it was renamed the Electrical Inspection Division. The division is responsible for the inspection of electrical equipment and systems in buildings, factories, and other places where electricity is used. It also issues permits for the installation of electrical equipment and systems. The division has a staff of 10 inspectors and 10 clerks. It has a budget of \$10,000. The division has a good record of service to the public. It has issued 10,000 permits and inspected 10,000 pieces of electrical equipment. It has also issued 10,000 citations for violations of the electrical code. The division has a good working relationship with the other divisions of the city. It has a good reputation for its work. It is a very important division of the city.

SECTION II. THE ELECTRICAL INSPECTION DIVISION.

The Electrical Inspection Division is a part of the City of St. Louis. It is responsible for the inspection of electrical equipment and systems in buildings, factories, and other places where electricity is used. It also issues permits for the installation of electrical equipment and systems. The division has a staff of 10 inspectors and 10 clerks. It has a budget of \$10,000. The division has a good record of service to the public. It has issued 10,000 permits and inspected 10,000 pieces of electrical equipment. It has also issued 10,000 citations for violations of the electrical code. The division has a good working relationship with the other divisions of the city. It has a good reputation for its work. It is a very important division of the city.

THE ELECTRICAL INSPECTION DIVISION.



ELECTRICAL INSPECTION DIVISION.

The following report shows the work of the Electrical Inspection Division for the year 1947.

The underground district for 1948 was prescribed and advertised in accordance with Chapter 100 of the Acts of 1946.

New and old installations were inspected, particular attention being given to schools, rest homes, night spots and other places of assembly where public gatherings are held, the majority of them being found in a satisfactory condition. Where defects were found, the same were promptly called to the attention of interested parties and corrections were made or are in process of correction.

EXPENSES AND INCOME OF THE DIVISION FOR 1946 AND 1947.

	1946.	1947.
Expenses.....	\$93,107 99	\$103,870 52
Income.....	67,051 87	68,882 00

FIRE REPORT.

Fires and accidents reported as due to electrical causes were investigated and reports of the same are on file in the records of the Division.

Investigations showed the following:

Fires in buildings	229
Lamp post fires	4
Manhole troubles	7
Breakdowns in transformers	3
Tree falling across service wires	1

Causes of Fires and Miscellaneous Troubles Investigated by the Electrical Inspection Division in 1947.

Defective motors	12
Motors unclean or lack of lubrication	21
Overheated or overloaded motor	25
Breakdown of refrigerator motor	18
Breakdown of insulation	39
Overheating of reactance in fixture	1

Water leaking on wiring	13
Lamp cord used for permanent wiring	1
Defective fixture or cord	25
Flatiron left in circuit overtime	4
Overloaded circuit	6
Breakdown of motor windings	2
Defective socket	1
Defective cord	14
Defective cutout block	1
Improperly connected lamp cord	2
Defective radio	3
Defective wall receptacle	15
D. C. radio plugged into A. C. wall plug	1
Failure of automatic controls caused motor to overheat,	4
Defective meter or switch	7
Breakdown of an electric alarm device	1
Lightning surge	4
Arcing at loose connection	2
A nail driven through cable caused short circuit	1
Short circuit in ceiling outlet	1
Defective iron inserted into bathroom fixture	1

Accidents.

A lady burned her hand plugging cord into receptacle	1
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EXTERIOR DIVISION.

The underground district for the year 1948 as prescribed under authority of Chapter 100 of the Acts of 1946 includes the following streets from which poles are to be removed and the wires placed underground:

Dorchester: Adams street, from Gallivan Boulevard to Pierce square; Morton street, from Norfolk street to Gallivan Boulevard.

Brighton: Western avenue, from the Cambridge line to the Watertown line.

East Boston: Liverpool street, from Maverick street to Meridian street.

Roxbury: Brookline avenue, from Fenway to Riverway.

South Boston: D street, from Fargo street to West First street.

Charlestown: Rutherford avenue, from 110 feet northerly of Devens street to City square; Stacey street, from Dunstable street to Main street.

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

In these prescribed streets from which poles and overhead wires were to be removed there were standing as of January 1, 1948, two hundred twenty-seven (227) poles with wires attached.

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

EXPENDITURES.

	1946.	1947.
PERSONAL SERVICE:		
Permanent employees	\$87,409 29	\$96,000 17
CONTRACTUAL SERVICES:		
Printing and binding	\$18 50	\$63 00
Advertising and posting	—	97 90
Transportation of persons	1,421 00	1,379 10
Bond and insurance premiums	40 00	40 00
Communication	596 16	610 69
General repairs	5 25	50 00
	<u>\$2,080 91</u>	<u>\$2,240 69</u>
EQUIPMENT:		
Office	\$16 30	\$7 70
Library	27 00	—
	<u>\$43 30</u>	<u>\$7 70</u>
SUPPLIES:		
Office	\$1,624 28	\$2,612 27
MATERIALS:		
Electrical	\$13 96	—
SPECIAL ITEMS:		
Pensions	\$1,936 25	\$3,009 69
Grand totals	<u>\$93,107 99</u>	<u>\$103,870 52</u>

UNDERGROUND WORK FOR THE YEAR 1947.

	LENGTH IN FEET OF			NUMBER OF	
	Conduit.	Duct.	Cable.	Manholes.	Services.
Boston Consolidated Gas Company.....	3,841	16,473	23,639	19	11
Boston Edison Company.....	26,034	155,166	251,328	131	389
Metropolitan Transit Authority.....	—	—	270	—	2
Boston Fire Department.....	1,155	1,155	12,096	—	3
Boston Police Department.....	—	—	12,947	—	5
New England Telephone and Telegraph Company.....	12,232	56,479	160,175	18	29
Western Union Telegraph Company.....	—	—	—	—	—

TABLE SHOWING WORK OF EXTERIOR DIVISION — 1947.

Number of poles set in new locations	318
Number of poles removed	67
Number of poles reset, replaced, straightened	612
Number of poles standing in public streets	19,051
Number of inspections	6,858
Number of notices of overhead construction	3,577
Number of overhead reports	3,540
Number of notices of underground construction	1,729
Number of underground reports	1,032
Feet of wire removed by the various companies	2,903,655

WORK DONE.

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

	1946.	1947.
Notices of new work received.....	19,400	20,296
Number of permits issued to turn on current.....	15,333	14,906
Number of incandescent lamps inspected.....	1,472,201	1,397,499
Number of motors inspected.....	22,305	24,944
Number of arcs inspected.....	2,193	2,185
Number of inspections made.....	33,595	32,105
Number of inspections of theaters, places of amusement and public halls.....	828	917

CHARACTER OF CABLES USED BY THE VARIOUS COMPANIES — 1947.

COMPANY.	Type of Insulation.	Size.
Boston Edison Company.....	Rubber, varnished cambric, lead.....	No. 6 to 1,500 M. C. M.
Metropolitan Transit Authority.....	Rubber and paper, lead.....	No. 6 to 1,000 M. C. M.
Boston Fire Department.....	Rubber, lead.....	2 to 91 conductors.
Boston Police Department.....	Rubber and paper, lead.....	11 conductors and 10 pairs.
New England Telephone and Telegraph Company.....	Paper, lead.....	3 to 2,121 pairs, Nos. 13 to 26.
Boston Consolidated Gas Company.....	Rubber, varnished cambric, paper, lead.....	No. 6 to 1,000 M. C. M.
Western Union Telegraph Company.....	None.

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