

# FIRE DEPARTMENT

AND ELECTRICAL INSPECTION DIVISION



CITY OF BOSTON



## ANNUAL REPORT 1946

ANNUAL REPORT  
OF THE  
FIRE DEPARTMENT  
AND ELECTRICAL  
INSPECTION DIVISION

OF THE  
CITY OF BOSTON  
FOR THE  
YEAR ENDING DECEMBER 31, 1946



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 Boutillier.

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

[DOCUMENT 12—1947.]



## ANNUAL REPORT

OF THE

## FIRE DEPARTMENT

FOR THE YEAR 1946.

Boston, January 2, 1947.

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, 1946.

Shortly after my appointment as Fire Commissioner I made an inspection of the entire fire fighting force, together with the branch divisions of the department. As a result of this examination it was evident that the operating efficiency of the department was badly handicapped by lack of replacements with respect to apparatus, as well as the fact that a substantial percentage of the men had not received their usual basic training. Furthermore, no repairs or alterations of any consequence had been made in most of the fire stations, with the result that members were living under substandard conditions. Subsequently, a more complete examination revealed the fact that many of the fire stations were structurally unsafe, resulting in the closing of Engine 10's house at the corner of Mt. Vernon and River streets, Back Bay.

It was obvious that these conditions would necessitate an expensive building program as well as a large



outlay of money to purchase new apparatus in order to restore the department to a proper standard. Modernization and training were to be the keynote for the ensuing years. From the moment that these conditions were brought to your attention I am glad to say that your Honor applied himself with diligence and foresight to appropriate necessary funds for new equipment and promote a much-needed building program.

Since the beginning of your administration considerable progress has been made. Contracts have been let for sixteen new pumpers; eight hose wagons; six aerial ladder trucks; three rescue wagons; lighting plants, and miscellaneous small cars, representing a total outlay of approximately \$550,000.

Money was also appropriated in the sum of \$300,000 for extensive repairs and alterations now in progress in the following stations:

Engine 1, 119 Dorchester street, South Boston . . . .	\$28,111
Engine 22, 70 Warren avenue, Boston . . . . .	39,751
Engine 24, 434 Warren street, Roxbury . . . . .	30,310
Engine 46, 1884 Dorchester avenue, Dorchester . . . .	26,893

Bids were received for repairs at Engine 41 and Engine 14, but owing to the lateness of the season it was felt advisable to defer this work until March, 1947.

Four hundred and fifty thousand dollars has been approved for the construction of new fire stations, and it is proposed to erect a new fire station on the site of present Engine 10 and a double company fire station at a new site on city-owned land on the corner of Charter and Hanover streets, North End, to take the place of Engine 8, 133 Salem street, and to also house Ladder 1, now at Bowdoin square. A new station is contemplated at Washington and La Grange streets, West Roxbury, on land now owned by the city.

The Fire Department is in urgent need of a first-class fireproof construction garage. The present building on Wareham street, housing the fire alarm construction force, is structurally unsafe and should have been condemned a long time ago. Small car maintenance is conducted at a garage at 172-176 Blue Hill avenue. A new lease between the city and the new owner of this property guarantees a tenancy for the city until such time as the city can provide a new garage. Of necessity, new construction has been deferred on account of restrictions by the Civilian Production

Administration of the Federal Government. It is expected, however, that new work may begin early next year.

With respect to the department's personnel, much progress has been made in elevating the standard of efficiency. The following schools were re-established during the current year: Drill School; Pump School; Telegraphers' School. The Fire College for officers was opened April 8, and instruction in all phases of fire-fighting will be progressively accelerated.

Much emphasis has been made on enlarging the work of the Fire Prevention Division. Qualified officers have been assigned to cover special investigations such as:

1. Homes for the aged.
2. Day nurseries.
3. Hospitals; together with the conduct of special drills in same.
4. Hotels.

Early in the year, upon my recommendation, the City Fire Department took over the fire station at Long Island Hospital. A permanent fire company has been established there. Reference is also made to the establishment of a Fire Marshal, with an adequate corps of inspectors, at the City Hospital. This detail provides a day and night inspection and protection service for the institution.

Fire District No. 3, which was deactivated during the war, was re-established early in June in order to provide better protection for the U. S. Naval Base in South Boston, where many of the Navy's airplane carriers are now in storage. This proved to be a judicious move, as the area was subjected to a three-alarm fire in July which might have resulted in a conflagration had not the City Fire Department been able to make an immediate response and control and extinguish the fire.

The city has purchased two Navy mine sweepers, which are now in the process of being reconverted into fireboats. The city has executed a contract with the General Ship and Engine Works, Inc., in the amount of \$168,000, and it is hoped that these ships will be in service by June, 1947. When these ships are put in service Boston will have the most modern and effective fireboat fleet of its size in the country.



It is my impression that the morale of the department has improved materially during the past year. The change in working hours from a two-platoon system to a 24-hour day on and day off system has brought greater contentment to the personnel, as well as resulting in an increased degree of stability in the operations and functions of the department.

With the advent of the 48-hour work week, which under the present statute becomes effective at midnight on February 4, 1947, many innovations and changes will be necessary. It has been conservatively estimated that, in order to maintain this department on a workable basis, at least 750 new men will be required to meet the provisions of the 48-hour work week. At a meeting held in your Honor's office, December 16, you authorized me to make arrangements to induct 500 men into the department as soon as these men could be obtained through Civil Service after January 1, 1947. I recommend, with your approval, that legislation be obtained to defer the enforcement of the 48-hour work week until July 1, 1947. With only 500 new men, in order to maintain an effective fire strength in the stations, it would be necessary to curtail many of the department's special activities such as rescue work of all kinds other than at actual fires, as well as the Fire Marshal's office at the City Hospital.

Attention must be concentrated in training the new inductees and the building up of fire strength to meet any emergency which may arise. I have previously recommended legislation to establish a fire prevention ordinance for the City of Boston. Enforcement of same should be the responsibility of the Fire Department, inasmuch as there is a lack of coordinated effort among the various agencies interested in public safety measures. Given a strong fire prevention ordinance with power to carry out its provisions, new apparatus, extension of personnel training, and stability of operation after the 48-hour work week has been established and put into efficient operation, the Boston Fire Department should occupy the enviable position of being one of the outstanding departments of the country from a standpoint of efficiency, excellence, and capability.

Respectfully submitted,

RUSSELL S. CODMAN, JR.,  
Fire Commissioner.

## PERSONNEL.

EXECUTIVE ORGANIZATION.  
BOSTON FIRE DEPARTMENT.

1946.

*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 "John E. Fitzgerald Medal" during 1946.*

Hoseman LEO S. MANNING, Engine Company 52.

*Awarded "Walter Scott Medal for Valor" during 1946.*

Lieutenant THOMAS J. CLARK, Ladder Company 27.

IN MEMORIAM.  
Deaths of Active Members During 1946.

DATE.	Name.	Rank.	Company.
January 3.....	William J. Shepard.....	Captain.....	Ladder 13.
January 3.....	William Celeste.....	Lieutenant.....	Engine 29.*
January 19.....	Harold F. Bishop.....	Ladderman.....	Ladder 2.†
February 3.....	Stephen F. Gunn.....	Captain.....	Engine 2.†
February 3.....	Edward J. Barrett.....	Hoseman.....	Engine 2.†
February 3.....	John J. O'Brien.....	Mechanic's Assistant.....	Maintenance Division.
February 10.....	Charles A. O'Dowd.....	Hoseman.....	Engine 51.
February 14.....	Thomas F. Mellyn.....	Hoseman.....	Tower 1.
March 14.....	Edward G. Chamberlain.....	District Chief.....	District 6.
April 20.....	John J. Morgan.....	Captain.....	Engine 20.
May 19.....	Michael J. Riley.....	Hoseman.....	Engine 43.
June 8.....	Hector J. McNeil.....	Carpenter.....	Maintenance Division.
June 9.....	John J. Martin.....	Ladderman.....	Ladder 13.
September 6.....	Joseph R. Sullivan.....	Ladderman.....	Ladder 6.
September 25.....	Leo G. Costello.....	Provisional Military Substitute	Ladder 15.
October 22.....	Warren E. Barnard.....	Hoseman.....	Rescue 1.†
October 22.....	Patrick J. Cady.....	Provisional Military Substitute	Engine 39.†
November 15.....	James J. Sullivan.....	Lieutenant.....	Engine 16.
November 21.....	John J. McDonough.....	Lieutenant.....	Engine 6.†
December 12.....	James B. McCarthy.....	Second Engineer	Engine 47.

\*Killed while in United States Naval Forces.

†Killed in performance of duty.





**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.
1942.....	1,343	1,007	76	120	81	28
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

\* Includes Chief of Department, Deputy Chiefs, Aides to Commissioner and Chief of Department, Drillmaster, Masters and Engineers on fireboats.  
† As of December 31.

**USE OF APPARATUS.**  
Summary — Service Reports, 1946, Engine Companies.

UNIT.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.
Engine 1.....	928	228	58,350	113.54	18.14
Engine 2.....	549	378	84,500	71.47	23.04
Engine 3.....	907	439	91,800	194.57	57.45
Engine 4.....	779	274	40,100	105.28	5.53
Engine 5.....	608	244	57,950	103.52	14.54
Engine 6.....	644	120	43,950	74.46	9.07
Engine 7.....	529	175	29,550	69.31	4.35
Engine 8.....	463	280	33,100	165.00	8.25
Engine 9.....	548	179	46,500	70.10	10.18
Engine 10.....	628	160	41,550	109.35	18.49
Engine 11.....	329	195	40,100	85.17	47.31
Engine 12.....	1,080	399	93,250	157.15	21.05
Engine 13.....	1,272	429	147,000	198.09	50.15
Engine 14.....	1,528	682	110,500	337.35	53.26
Engine 15.....	874	235	61,900	123.00	33.00
Engine 16.....	626	292	58,400	137.56	38.38
Engine 17.....	934	339	59,750	123.10	31.00
Engine 18.....	834	304	67,950	104.13	26.19
Engine 19.....	730	466	96,450	265.18	52.29

**Summary — Service Reports, 1946, Engine Companies — Concluded.**

UNIT.	Alarms Attended.	Working Fires.	Hose Used, Feet.	Hours Work.	Pump Hours.
Engine 20.....	553	341	74,750	270.09	61.30
Engine 21.....	972	425	96,350	151.47	79.29
Engine 22.....	1,276	394	128,900	174.28	25.24
Engine 23.....	1,313	449	103,650	425.31	109.08
Engine 24.....	1,128	474	104,600	153.07	16.46
Engine 25.....	470	175	35,000	82.17	4.35
Engine 26.....	1,139	274	43,650	150.03	11.55
Engine 27.....	520	188	34,675	69.13	23.00
Engine 28.....	882	394	58,950	128.20	16.57
Engine 29.....	797	307	63,100	122.42	73.55
Engine 30.....	676	382	76,250	170.03	42.07
Engine 31 (Boat).....	248	18	11,950	57.35	44.19
Engine 32.....	368	327	48,450	154.06	38.05
Engine 33.....	799	513	92,450	195.00	26.00
Engine 34.....	602	234	76,400	114.00	34.00
Engine 35.....	743	204	45,800	121.01	21.09
Engine 36.....	461	177	39,600	63.00	24.47
Engine 37.....	967	457	115,250	166.52	47.05
Engine 38.....	327	134	27,500	123.33	14.55
Engine 39.....	427	158	34,150	229.43	12.15
Engine 40.....	345	164	32,900	60.00	6.17
Engine 41.....	747	424	67,800	139.10	48.31
Engine 42.....	1,232	456	101,200	171.15	33.30
Engine 43.....	1,125	324	59,500	179.49	49.12
Engine 44 (Boat).....	302	11	1,950	25.49	20.37
Engine 45.....	881	375	98,750	139.49	33.46
Engine 46.....	862	306	58,800	109.00	23.16
Engine 47 (Boat)*.....	—	—	—	—	—
Engine 48.....	559	327	86,150	173.47	26.27
Engine 49.....	330	157	40,150	100.09	18.48
Engine 50.....	794	225	36,950	102.00	21.00
Engine 51.....	485	176	53,250	89.00	27.00
Engine 52.....	771	384	64,050	118.54	22.41
Engine 53.....	726	208	64,600	105.50	29.50
Engine 54.....	19	2	3,100	8.08	2.05

\* Out of service during entire year.



## USE OF APPARATUS.

## Summary — Service Reports, 1946, Ladder Companies.

UNIT.	Alarms Attended.	Working Fires.	Ladders Used, Feet.	Hours Work.
Ladder 1.....	684	238	6,397	97.01
Ladder 2.....	459	271	2,500	91.31
Ladder 3.....	953	444	10,615	150.04
Ladder 4.....	1,392	617	11,181*	197.47
Ladder 5.....	996	261	3,419	102.14
Ladder 6.....	691	369	1,191*	129.04
Ladder 7.....	1,105	418	3,963	143.54
Ladder 8.....	675	245	6,653	103.59
Ladder 9.....	626	468	2,901	89.12
Ladder 10.....	898	376	2,974*	126.09
Ladder 11.....	919	427	4,007	152.54
Ladder 12.....	1,183	500	14,455*	227.55
Ladder 13.....	1,187	558	14,341	232.24
Ladder 14.....	917	434	4,125	262.36
Ladder 15.....	679	455	7,401	153.09
Ladder 16.....	916	366	1,258*	135.22
Ladder 17.....	532	347	8,858	134.29
Ladder 18.....	287	169	4,250	95.43
Ladder 19.....	513	257	1,200	108.00
Ladder 20.....	969	338	3,144	160.10
Ladder 21.....	275	174	1,050	99.17
Ladder 22.....	559	197	2,325	77.40
Ladder 23.....	1,176	549	7,454	259.12
Ladder 24.....	631	316	8,382	125.56
Ladder 25.....	661	388	640*	141.12
Ladder 26.....	865	454	6,635*	155.58
Ladder 27.....	872	489	1,776*	111.05
Ladder 28.....	485	293	1,512*	142.33
Ladder 29.....	825	391	1,840*	130.16
Ladder 30.....	1,238	453	3,739	128.36
Ladder 31.....	567	193	1,250	104.32
Ladder 32.....	267	157	818	92.42
Ladder 33.....	19	2	150	8.08

\* Also used hose.

## USE OF APPARATUS.

## Summary — Service Reports, 1946, Rescue and Water Tower Companies.

UNIT.	Alarms Attended.	Working Fires.	Hours Work.
Rescue 1.....	1,483	367*	175.27
Rescue 2.....	2,783	469*	320.00
Rescue 3.....	921	135*	74.23
Tower 1.....	284	23	16.08
Tower 2.....	379	76	29.12
Tower 3.....	180	10	1.30

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

## COMPARATIVE FIRE DEPARTMENT EXPENDITURES.

	1945.	1946.
A. PERSONAL SERVICE:		
Permanent employees . . . . .	\$3,497,753 95	\$4,040,627 13
Overtime . . . . .	—	3,934 64
	\$3,497,753 95	\$4,044,561 77
B. CONTRACTUAL SERVICES:		
Printing and binding . . . . .	\$1,772 88	\$67 20
Advertising and posting . . . . .	99 00	282 40
Transportation of persons . . . . .	163 27	218 15
Express charges . . . . .	62 36	54 23
Hire of teams and auto trucks . . . . .	71 65	—
Light, heat and power . . . . .	36,396 89	37,171 17
Rent, taxes and water . . . . .	5,643 07	6,510 81
Bond and insurance premiums . . . . .	1,418 74	15 00
Communication . . . . .	14,386 57	14,118 14
Motor vehicle repairs and care . . . . .	18,354 09	26,286 43
Cleaning . . . . .	4,249 13	4,848 10
Removal of waste . . . . .	200 00	—
Medical . . . . .	1,000 00	1,361 85
Expert . . . . .	482 50	115 00
Fees, service of venires, etc. . . . .	403 35	174 40
Photographic and blueprinting . . . . .	46 85	110 68
General repairs . . . . .	43,461 53	55,665 51
Miscellaneous services . . . . .	400 00	127 00
	\$128,611 88	\$147,126 07
C. EQUIPMENT:		
Electrical . . . . .	\$10,863 49	\$3,751 50
Motor vehicles . . . . .	64,925 83	2,636 79
Motorless vehicles . . . . .	—	72 00
Furniture and furnishings . . . . .	3,639 53	6,094 83
Office . . . . .	478 96	475 47
Library . . . . .	13 07	151 62
Marine . . . . .	—	172 64
Medical, surgical, laboratory . . . . .	45 00	—
Tools and instruments . . . . .	18,560 87	13,825 64
Carried forward . . . . .	\$98,526 75	\$27,180 49

## Comparative Fire Department Expenditures — Concluded.

	1945.	1946.
C. EQUIPMENT — Continued.		
<i>Brought forward</i>	\$98,526 75	\$27,180 49
Tires, tubes and accessories	9,873 34	12,100 45
Wearing apparel	28,335 58	23,833 70
Miscellaneous equipment	23,199 14	3,725 34
	\$159,934 81	\$66,839 98
D. SUPPLIES:		
Office	\$13,302 36	\$12,520 33
Food and ice	49 00	43 00
Fuel	76,322 43	83,854 49
Medical, surgical, laboratory	177 28	221 64
Laundry, cleaning, toilet	2,369 17	3,097 57
Gasoline, oil and grease	22,203 02	24,906 02
Chemicals and disinfectants	3,419 07	5,335 32
Miscellaneous supplies	3,907 73	7,467 32
	\$121,750 06	\$137,445 69
E. MATERIALS:		
Building	\$10,800 37	\$12,772 07
Machinery	24 95	296 25
Electrical	17,951 59	16,822 33
Miscellaneous materials	53,979 57	51,243 10
	\$82,756 48	\$81,133 75
F. SPECIAL ITEMS:		
Pensions and annuities	\$727,082 46	\$849,430 18
Workmen's compensation	2,586 11	326 72
	\$729,668 57	\$849,756 90
Grand totals	\$4,720,475 75	\$5,326,864 16

## FIRE DEPARTMENT REVENUE, 1946.

Permits for storage of inflammable fluids, certificates of registration, etc.	\$66,216 00
Sale of badges	6 30
Sale of old condemned hose	53 75
Sale of junk	603 87
Damage to apparatus and motor vehicles	1,465 90
Damage to fire alarm boxes	1,578 22
Miscellaneous	2 10
Total	\$69,926 14

## FIRE ALARM DIVISION.



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

	1944.	1945.	1946.
First alarms (boxes).....	7,796	8,546	10,400
Still alarms — (net total).....	4,496	4,467	6,599
Total alarms — Boston only.....	12,292	13,013	16,999
Mutual aid.....	66	61	85
Total alarms.....	12,358	13,074	17,084
Alarms received from citizens by telephone.....	4,195	4,056	5,688
Per cent of total alarms.....	33.9	31.0	33.4
Total false alarms.....	1,551	2,356	2,628
Per cent of total alarms.....	12.5	18.0	15.3
Total box alarms transmitted since April 28, 1852, through December 31, 1946.....			322,346

**ANALYSIS OF STILL ALARMS RECEIVED AND TRANSMITTED.**

	1944.	1945.	1946.
Received from citizens by telephone.....	4,195	4,056	5,688
Received from Police Department.....	670	664	976
Received from Fire Department.....	1,272	1,268	1,611
Boxes received, treated as stills.....	14	42	106
Emergency calls treated as stills.....	735	824	869
Received from Boston Automatic*.....	178	253	214
Received from A. D. T.*.....	108	129	137
Received from G. A. C.*.....	62	65	79
Gross total.....	7,234	7,301	9,680
DEPECT.			
Still alarms received for which box alarms were pulled after, and box alarm transmitted.....	115	93	216
Still alarms received for which box alarms were transmitted.....	2,623	2,741	2,865
Net total still alarms.....	4,496	4,467	6,599
Mutual Aid alarms.....	66	61	85

\* 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 indicate 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 1946 FROM BOSTON AUTOMATIC FIRE ALARM COMPANY, AMERICAN DISTRICT TELEGRAPH COMPANY, GENERAL ALARM COMPANY.**

	Boston Automatic Fire Alarm Company.	American District Telegraph Company.	General Alarm Corporation.
Alarms transmitted by Company to Fire Alarm Headquarters.....	214	137	79
City box alarms transmitted after Company alarm had been transmitted.....	198	129	74
Company box alarm transmitted, no City box alarm transmitted.....	14	6	5
Company alarm treated as still alarm by telephone; no box transmitted.....	2	2	—
Company alarm received after still alarms or City box alarm, and therefore not transmitted.....	6	7	9

**ANALYSIS OF FALSE ALARMS.**

	1944.	1945.	1946.
Box alarms received and transmitted.....	1,509	2,267	2,495
Telephone alarms received for which box alarms were transmitted.....	28	38	35
Boston Automatic alarms received for which box alarms were transmitted.....	—	1	—
A. D. T. alarms received for which box alarms were transmitted.....	—	—	2
G. A. C. alarms received for which box alarms were transmitted.....	2	—	—
Total false alarms for which box alarms were transmitted.....	1,539	2,306	2,532
Box alarms received, treated as still alarms (no box transmitted).....	4	23	37
Telephone alarms received, treated as still alarms (no box transmitted).....	8	27	22
Total false alarms to which apparatus responded.....	1,551	2,356	2,591
Adjacent box alarms received for which no action was taken.....	9	7	15

## ANALYSIS OF ALARMS BY MONTHS.

1946.	Totals.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
<b>Alarms.</b>												
Box.....	823	772	1,419	1,079	734	691	813	496	634	983	1,049	903
Telephone.....	329	266	1,059	587	314	321	539	203	311	488	624	705
Other stills.....	54	26	128	74	52	54	95	40	35	83	109	123
<b>Totals.....</b>	<b>1,206</b>	<b>1,064</b>	<b>2,606</b>	<b>1,740</b>	<b>1,100</b>	<b>1,066</b>	<b>1,447</b>	<b>739</b>	<b>980</b>	<b>1,554</b>	<b>1,782</b>	<b>1,791</b>
<b>Alarms Received From.</b>												
Members.....	6	3	27	11	3	1	7	1	4	6	15	7
Police.....	18	12	11	15	10	11	17	10	12	17	17	9
Watchman.....	11	9	16	12	13	14	19	9	9	13	14	21
Automatic.....	57	46	28	27	16	25	22	21	12	25	24	40
Unknown.....	171	139	204	233	214	193	170	150	210	309	290	225
Outsider.....	943	855	2,220	1,442	844	822	1,212	548	733	1,184	1,422	1,489
<b>Totals.....</b>	<b>1,206</b>	<b>1,064</b>	<b>2,606</b>	<b>1,740</b>	<b>1,100</b>	<b>1,066</b>	<b>1,447</b>	<b>739</b>	<b>980</b>	<b>1,554</b>	<b>1,782</b>	<b>1,791</b>
												<b>17,075</b>

<b>No Fires.</b>	False.....	171	139	293	233	214	193	170	150	210	308	290	225	2,596
	Accidental.....	59	44	24	25	18	27	22	23	14	25	29	46	356
	Rescue.....	79	74	61	65	88	96	88	77	99	114	112	90	1,043
	Needless bell.....	61	71	74	59	56	59	56	56	43	71	56	61	723
	Needless still.....	37	38	36	35	21	23	23	16	22	36	29	93	409
	Automobile fires.....	143	127	117	93	114	108	107	106	98	107	96	128	1,344
<b>Rubbish and Quass Fires.</b>	Rubbish, vacant lot.....	59	27	114	119	68	74	169	21	72	94	80	70	967
	Rubbish, near building.....	37	20	91	81	40	44	62	19	29	42	44	42	551
	Dump.....	3	1	17	15	6	15	14	2	13	19	9	11	125
	Brush or grass.....	31	45	1,171	431	80	45	237	19	24	237	493	431	3,264
	Other outdoor.....	98	26	129	109	69	77	175	35	93	145	101	73	1,130
	Marine.....	3	2	3	4	3	2	5	5	2	4	2	3	38
	Out of city calls.....	9	5	12	11	8	8	8	4	3	7	12	12	99
<b>Building Fires.</b>	Confined to room.....	325	379	340	351	273	251	297	188	219	288	355	418	3,654
	Confined to building.....	83	60	118	96	38	39	41	17	36	34	65	79	706
	Extended to others.....	8	6	6	13	4	5	3	1	3	3	9	9	70



## MULTIPLE ALARM FIRES.

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

SUMMARY OF MULTIPLE ALARM FIRES  
ACCORDING TO THE MONTHS FOR THE YEAR 1946.

	Two Alarms.	Three Alarms.	Four Alarms.	Five Alarms.	Total.
January.....	6	3	1	0	10
February.....	7	2	1	0	10
March.....	4	0	0	0	4
April.....	9	8	1	0	18
May.....	2	0	0	0	2
June.....	1	0	0	0	1
July.....	6	2	0	0	8
August.....	1	1	0	0	2
September.....	2	2	0	0	4
October.....	2	1	0	0	3
November.....	6	2	0	0	8
December.....	8	3	1	0	12.1
Totals.....	54	24	4	0	82

SUMMARY OF ALARMS  
ACCORDING TO DAY OF WEEK — 1946.

	Boxes.	Stills.*	Total.	Number of Days in Year.	Average Per Day.
Monday.....	1,402	830	2,232	52	13.1
Tuesday.....	1,420	870	2,290	53	13.4
Wednesday.....	1,526	910	2,436	52	14.3
Thursday.....	1,648	1,112	2,760	52	16.15
Friday.....	1,643	1,050	2,693	52	15.75
Saturday.....	1,502	1,095	2,597	52	15.2
Sunday.....	1,259	817	2,076	52	12.1
Totals.....	10,400	6,684	17,084	365	100%

\* 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 — 1946.

	Boxes.	Stills.	Totals.
12.00 Mid.— 1.00 A. M.....	384	128	512
1.00 A. M.— 2.00 A. M.....	377	126	503
2.00 A. M.— 3.00 A. M.....	223	77	300
3.00 A. M.— 4.00 A. M.....	127	52	179
4.00 A. M.— 5.00 A. M.....	95	35	130
5.00 A. M.— 6.00 A. M.....	95	31	126
6.00 A. M.— 7.00 A. M.....	111	42	153
7.00 A. M.— 8.00 A. M.....	157	80	237
8.00 A. M.— 9.00 A. M.....	216	163	379
9.00 A. M.— 10.00 A. M.....	303	216	519
10.00 A. M.— 11.00 A. M.....	347	316	663
11.00 A. M.— 12.00 Noon.....	425	385	810
12.00 Noon— 1.00 P. M.....	552	467	1,019
1.00 P. M.— 2.00 P. M.....	506	474	980
2.00 P. M.— 3.00 P. M.....	473	455	928
3.00 P. M.— 4.00 P. M.....	570	507	1,077
4.00 P. M.— 5.00 P. M.....	730	609	1,339
5.00 P. M.— 6.00 P. M.....	890	579	1,469
6.00 P. M.— 7.00 P. M.....	709	423	1,132
7.00 P. M.— 8.00 P. M.....	715	392	1,107
8.00 P. M.— 9.00 P. M.....	785	388	1,173
9.00 P. M.— 10.00 P. M.....	698	342	1,040
10.00 P. M.— 11.00 P. M.....	507	229	736
11.00 P. M.— 12.00 P. M.....	405	168	573
Totals.....	10,400	6,684	17,084

### SUMMARY OF ALARMS ACCORDING TO FIRE DISTRICTS—1946.

DISTRICTS.		Boxes.	Stills.	Total.
1.	East Boston.....	505	369	87
2.	Charlestown.....	520	225	745
3.	City Proper and South Boston*.....	54	74	128
4.	North and West Ends.....	679	262	941
5.	Business District.....	356	180	536
6.	South Boston.....	1,038	377	1,415
7.	South End and Back Bay.....	1,016	428	1,444
8.	Roxbury West.....	1,108	552	1,660
9.	Roxbury East.....	1,195	489	1,684
10.	Dorchester North.....	706	494	1,260
11.	Brighton.....	740	669	1,409
12.	Jamaica Plain.....	578	460	1,038
13.	West Roxbury.....	630	661	1,291
14.	Dorchester South.....	775	787	1,562
15.	Hyde Park.....	440	572	1,012
Total in City.....		10,400	6,599	16,999
Mutual Aid Adjacent Cities and Towns.....		0	85	85
Totals.....		10,400	6,684	17,084

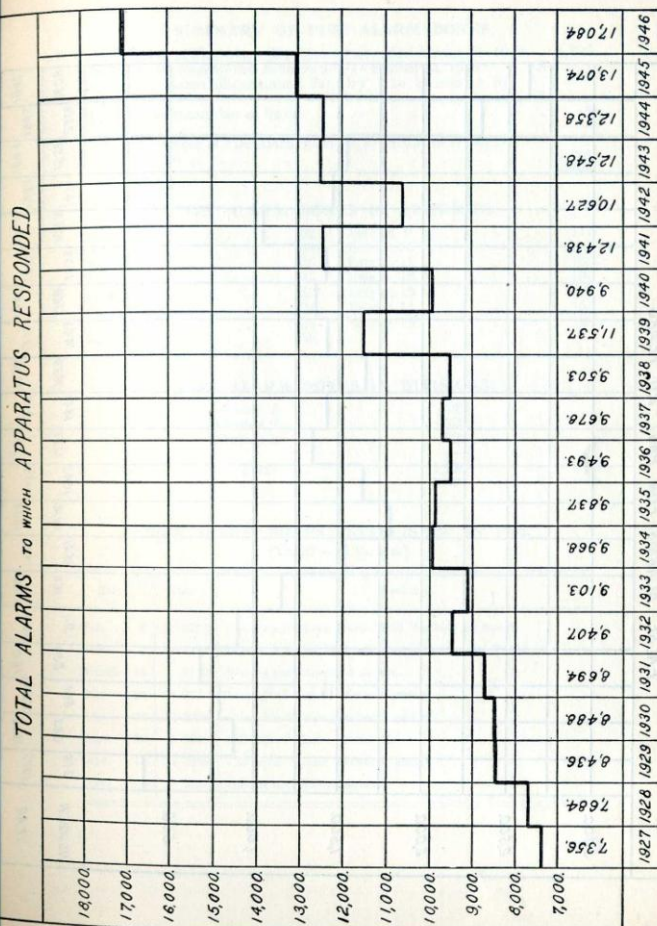
\* District 3 re-established on June 5, 1946.

### MUTUAL AID RESPONSE.

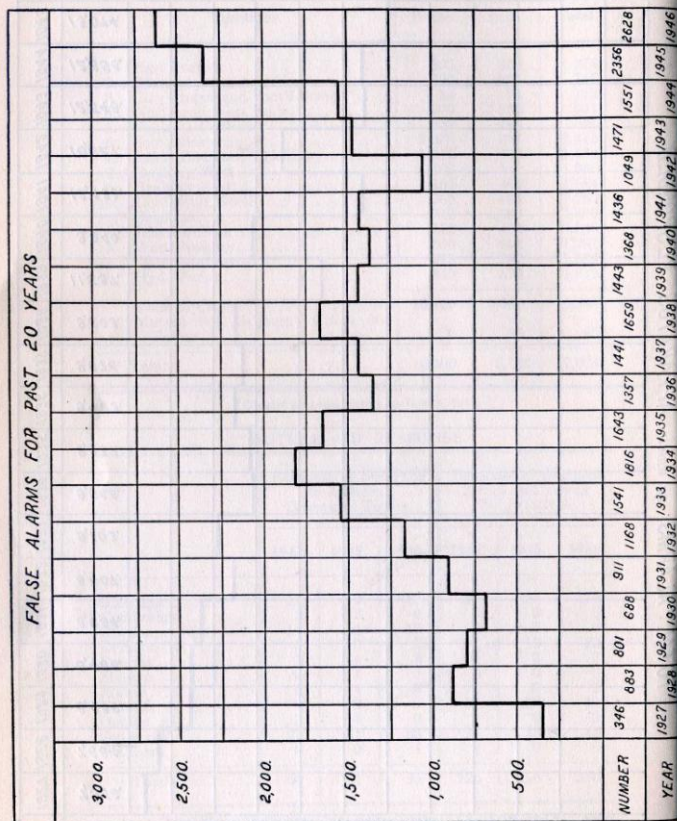
	Response of <i>BOSTON</i> to Adjacent Cities and Towns.			Response of Adjacent Cities and Towns TO <i>BOSTON</i> .		
	1944.	1945.	1946.	1944.	1945.	1946.
Brookline.....	11	9	19	39	97	119
Cambridge.....	2	2	0	3	0	0
Chelsea.....	11	4	17	3	0	0
Dedham.....	0	0	1	19	13	26
Everett.....	2	4	2	1	3	2
Malden.....	0	1	0	0	0	0
Milton.....	6	4	7	3	0	1
Newton.....	4	2	5	30	20	19
Quincy.....	3	4	0	3	0	2
Somerville.....	27	31	33	24	23	41
Waltham.....	0	0	1	0	0	0
Totals.....	66	61	85	125	156	210

SUMMARY OF EMERGENCY SERVICES, ACCIDENTAL, AND  
NEEDLESS ALARMS, JANUARY 1—DECEMBER 31, 1946.

Total Alarms — Emergency Service . . . . .	1,043
Accidental Alarms . . . . .	356
Needless Alarms . . . . .	1,132







## SUMMARY OF FIRE ALARM BOXES.

Total number of Fire Alarm Boxes in service as of January 1, 1946	1,793
Fire Alarm Boxes installed January 1 to December 31, 1946	8
Fire Alarm Boxes discontinued January 1 to December 31, 1946	6
Net increase in number of boxes	2

Total number of Fire Alarm Boxes in service as of December 31, 1946 . . . . . 1,795

## FIRE ALARM BOXES IN DISTRICTS.

District 1	102	District 9	117
District 2	104	District 10	144
District 3	75	District 11	162
District 4	105	District 12	104
District 5	57	District 13	179
District 6	124	District 14	151
District 7	104	District 15	128
District 8	139		

## FIRE ALARM BOXES IN DIVISIONS.

Division 1	443
Division 2	529
Division 3	823

Total . . . . . 1,795

FIRE ALARM BOXES ESTABLISHED IN 1946.  
(Total — 8 Boxes.)

DATE.	Box.	Location.
Feb. 6	13-2275	Academy of Notre Dame, 2893 Washington street.
Feb. 7	12-4191	Boston & Maine Railroad Mystic Docks Coal Yard.
March 15	2139	Warren and Moreland streets.
July 23	12-712	Fargo Building, 495 Summer street.
Aug. 24	12-3228	Columbia Village, Avenue A and E.
Sept. 10	13-3228	Columbia Village, Avenue B.
Sept. 12	14-3228	Columbia Village, Avenue C and E.
Nov. 4	2164	Quincy and Warren streets.

**FIRE ALARM BOXES DISCONTINUED IN 1946.**  
(Total — 6 Boxes.)

DATE.	Box.	Location.
March 12	4158	Boston & Maine Railroad Yard, off Rutherford avenue near Shed No. 35.
March 28	12-3228	Camp McKay — Mt. Vernon street.
May 8	12-7143	D Street Garage, D street, near Claflin.
May 20	12-2395	Thomas G. Plant Company, Walden Street entrance.
May 20	12-2411	Thomas G. Plant Company, 307 Centre street.
May 20	14-2411	Thomas G. Plant Company, 89 Bickford street, A Lobby.

**BOXES RENUMBERED.**

DATE.	Box.	Location.
May 15	12-3383	Robert Treat Paine School, Blue Hill avenue, near Harvard street, changed from 12-3332.

**CONSTRUCTION WORK.**  
**UNDERGROUND CABLES — 1946.**

	INSTALLED.		REMOVED.	
	Feet of Cable.	Feet of Conductors.	Feet of Cable.	Feet of Conductors.
4 Conductor rubber lead.....	2,295	9,180	125	500
6 Conductor rubber lead.....	—	—	680	4,080
7 Conductor rubber lead.....	4,282	29,974	—	—
10 Conductor rubber lead.....	2,560	25,600	835	8,350
19 Conductor rubber lead.....	730	13,870	1,930	3,667
10 Conductor rubber lead.....	2,560	25,600	835	8,350
19 Conductor rubber lead.....	730	13,870	1,930	3,667
19 Conductor rubber lead, armor (sub).....	425	8,075	—	—
19 Conductor plastex insulation and jacket.....	975	18,525	—	—
20 Conductor rubber insulation and jacket.....	1,000	20,000	—	—
37 Conductor rubber lead.....	—	—	1,992	73,704
37 Conductor polyethylene insulation jacket.....	950	35,150	—	—
26 pair rubber lead.....	750	39,000	—	—
2 Conductor dry cable.....	1,600	3,200	700	1,400
4 Conductor dry cable.....	1,030	4,120	380	1,420
10 Conductor dry cable.....	500	5,000	—	—
20 Conductor dry cable.....	700	14,000	152	3,040
Totals.....	17,797	225,694	6,794	96,161

**OVERHEAD LINE WIRE AND CABLES — 1946.**

	Installed, Feet.	Removed, Feet.
Line wire No. 10 copper weld.....	3,075	3,075
2-conductor dry cable.....	900	—
4-conductor dry cable.....	1,250	—

Overhead construction transferred on seventy-three (73) poles in 1946.



# FIRE PREVENTION DIVISION.

### FEES COLLECTED FOR LICENSES AND PERMITS DURING 1946.

Fuel Oil, inflammable fluid permits . . . . .	\$32,760 50
License Registration Certificates . . . . .	31,685 50
Fires in open . . . . .	1,717 00
Explosives, blasting, transportation . . . . .	33 50
Tank removals . . . . .	18 50
Fireworks . . . . .	1 00
Total . . . . .	\$66,216 00

### COMPARATIVE FIGURES FOR THREE YEARS.

1944 . . . . .	\$59,814
1945 . . . . .	62,693
1946 . . . . .	66,216

### SUMMARY OF INSPECTIONS — 1946.

#### Uniform Inspection force, Fire Prevention Division:

Inspections . . . . .	47,745
Complaints . . . . .	4,041
Corrections . . . . .	3,943

#### Inspections by Lieutenant Thomas P. Lane:

Public and private schools . . . . .	298
Public libraries . . . . .	71
Film exchanges . . . . .	14
Oil farms . . . . .	6
Miscellaneous inspections . . . . .	84
Complaints found . . . . .	259
Reinspections . . . . .	115
Corrections obtained . . . . .	245

#### District Officers:

Building inspections . . . . .	16,966
Theatres . . . . .	4,413
Schools . . . . .	3,287
Public buildings . . . . .	811
Carbarns . . . . .	60
Total . . . . .	25,537

### ARSON SQUAD ACTIVITIES — 1946.

Fires, cause given as undetermined . . . . .	196
Fires, suspicious origin . . . . .	43
Response to multiple alarms . . . . .	84
Fires, cause given, but investigated . . . . .	125
Fires, where loss of life occurred . . . . .	26
Fires, set by boys . . . . .	71
Fire prevention inspections . . . . .	230
Tests made of manholes, catch-basins, inflammable odors . . . . .	153
Total investigations, inspections . . . . .	923
Hearings held . . . . .	3
Civilian witnesses summoned . . . . .	11
Cases submitted to office of District Attorney . . . . .	2
Cases presented to Grand Jury, Suffolk County . . . . .	5
Convictions, Superior Court, Suffolk County . . . . .	1
Cases presented to Municipal District Courts . . . . .	11
Convictions, Municipal Courts . . . . .	5

### CONSTABLE'S ACTIVITIES — 1946.

Services . . . . .	1,062
Return calls . . . . .	601
Total . . . . .	1,663





## FIRE LOSSES FOR PAST TEN YEARS.

YEAR.	Amount.
1937.....	\$2,204,367
1938.....	2,227,888
1939.....	2,850,207
1940.....	2,695,160
1941.....	4,494,707
1942.....	3,433,695
1943.....	2,745,541
1944.....	3,380,577
1945.....	2,965,344
1946.....	4,110,356

## FIRE DEPARTMENT.

## FIRE LOSSES.

	1945.				1946.				Totals.	
	Buildings.		Contents.		Buildings.		Contents.		1945.	1946.
	Buildings and Contents.	Contents.	Buildings.	Contents.	Buildings and Contents.	Contents.	Buildings and Contents.	Contents.		
January.....	\$231,566 51	\$146,973 65	\$702,626 71	\$390,162 57	\$381,540 16	\$1,092,789 28				
February.....	291,849 41	99,338 69	277,117 03	108,800 51	361,188 10	385,917 54				
March.....	148,975 33	84,613 99	182,664 27	117,789 63	233,589 32	300,453 90				
April.....	137,670 85	88,249 02	297,433 16	210,657 19	225,919 87	508,090 35				
May.....	272,823 68	126,913 36	65,126 10	39,822 10	399,737 04	95,648 20				
June.....	99,340 35	158,004 57	135,080 16	60,226 58	257,344 92	196,206 74				
July.....	52,298 06	25,701 76	173,320 03	85,764 72	77,909 82	259,084 75				
August.....	109,822 54	92,588 40	39,585 70	29,569 08	202,410 94	69,154 78				
September.....	66,641 36	34,489 35	72,545 37	31,723 34	104,130 71	104,268 71				
October.....	180,124 63	73,435 89	149,327 88	153,286 91	252,500 52	302,814 70				
November.....	141,715 09	45,611 34	231,407 82	123,387 53	187,327 03	354,795 35				
December.....	182,142 72	102,542 79	290,108 64	150,962 85	284,685 51	441,131 49				
	\$1,884,881 13	\$1,080,462 81	\$2,017,502 87	\$1,492,853 01	\$2,965,343 94	\$4,110,355 88				



## CAUSES OF OUTDOOR FIRES (1946).

Brush . . . . .	3,264
Automobile . . . . .	1,344
Other outdoor fires . . . . .	1,130
Rubbish (vacant lot) . . . . .	967
Rubbish (near building) . . . . .	551
Dump . . . . .	125
Marine . . . . .	38

1946 Total . . . . . 7,419

Rescues (emergency calls) . . . . .	1,043
Out of city calls . . . . .	99

## CAUSES OF FIRES IN BUILDINGS (1946).

Careless smoking . . . . .	1,307
Chimneys: Defective, soot and sparks . . . . .	430
Fuel oil burners . . . . .	662
Electrical appliances and motors . . . . .	335
Children and matches . . . . .	218
Unknown . . . . .	175
Miscellaneous known causes . . . . .	268
Spontaneous ignition . . . . .	123
Defective heaters and rubbish . . . . .	165
Grease and food on stove . . . . .	121
Other careless use of matches . . . . .	70
Hot ashes . . . . .	67
Defective wiring . . . . .	98
Incendiary or suspicious . . . . .	33
Clothes too near fire . . . . .	54
Flammable liquids . . . . .	33
City gas and appliances . . . . .	20
Sparks from machines . . . . .	32
Thawing water pipes . . . . .	11
Malicious mischief . . . . .	208

1946 Total . . . . . 4,430

## ANALYSIS OF FIRES IN BUILDINGS (1946).

## Construction of Buildings.

Fire-resistive . . . . .	293
Second class . . . . .	2,159
Frame . . . . .	1,964
Other types . . . . .	14

Total . . . . . 4,430

## Point of Origin.

Basement . . . . .	1,247
First floor . . . . .	1,267
Second floor . . . . .	608
Third floor . . . . .	394
Above third floor . . . . .	228
Roof . . . . .	142
Outside . . . . .	544

Total . . . . . 4,430

## Extent of Fire.

Confined to point of origin . . . . .	3,654
Confined to buildings . . . . .	706
Spread to other buildings . . . . .	70

Total . . . . . 4,430

TABLE 1. SUMMARY OF MAINTENANCE ACTIVITIES

Category	1964	1965	1966	1967	1968	1969	1970	Total
First floor	1,200	1,300	1,400	1,500	1,600	1,700	1,800	10,500
Second floor	1,100	1,200	1,300	1,400	1,500	1,600	1,700	9,800
Third floor	1,000	1,100	1,200	1,300	1,400	1,500	1,600	9,100
Fourth floor	900	1,000	1,100	1,200	1,300	1,400	1,500	8,400
Fifth floor	800	900	1,000	1,100	1,200	1,300	1,400	7,700
Sixth floor	700	800	900	1,000	1,100	1,200	1,300	7,000
Basement	600	700	800	900	1,000	1,100	1,200	6,300
Roof	500	600	700	800	900	1,000	1,100	5,600
Outside	400	500	600	700	800	900	1,000	4,900
Total	7,200	7,800	8,400	9,000	9,600	10,200	10,800	63,000

TABLE 2. SUMMARY OF MAINTENANCE ACTIVITIES

Category	1964	1965	1966	1967	1968	1969	1970	Total
First floor	1,200	1,300	1,400	1,500	1,600	1,700	1,800	10,500
Second floor	1,100	1,200	1,300	1,400	1,500	1,600	1,700	9,800
Third floor	1,000	1,100	1,200	1,300	1,400	1,500	1,600	9,100
Fourth floor	900	1,000	1,100	1,200	1,300	1,400	1,500	8,400
Fifth floor	800	900	1,000	1,100	1,200	1,300	1,400	7,700
Sixth floor	700	800	900	1,000	1,100	1,200	1,300	7,000
Basement	600	700	800	900	1,000	1,100	1,200	6,300
Roof	500	600	700	800	900	1,000	1,100	5,600
Outside	400	500	600	700	800	900	1,000	4,900
Total	7,200	7,800	8,400	9,000	9,600	10,200	10,800	63,000

TABLE 3. SUMMARY OF MAINTENANCE ACTIVITIES

Category	1964	1965	1966	1967	1968	1969	1970	Total
First floor	1,200	1,300	1,400	1,500	1,600	1,700	1,800	10,500
Second floor	1,100	1,200	1,300	1,400	1,500	1,600	1,700	9,800
Third floor	1,000	1,100	1,200	1,300	1,400	1,500	1,600	9,100
Fourth floor	900	1,000	1,100	1,200	1,300	1,400	1,500	8,400
Fifth floor	800	900	1,000	1,100	1,200	1,300	1,400	7,700
Sixth floor	700	800	900	1,000	1,100	1,200	1,300	7,000
Basement	600	700	800	900	1,000	1,100	1,200	6,300
Roof	500	600	700	800	900	1,000	1,100	5,600
Outside	400	500	600	700	800	900	1,000	4,900
Total	7,200	7,800	8,400	9,000	9,600	10,200	10,800	63,000

TABLE 4. SUMMARY OF MAINTENANCE ACTIVITIES

Category	1964	1965	1966	1967	1968	1969	1970	Total
First floor	1,200	1,300	1,400	1,500	1,600	1,700	1,800	10,500
Second floor	1,100	1,200	1,300	1,400	1,500	1,600	1,700	9,800
Third floor	1,000	1,100	1,200	1,300	1,400	1,500	1,600	9,100
Fourth floor	900	1,000	1,100	1,200	1,300	1,400	1,500	8,400
Fifth floor	800	900	1,000	1,100	1,200	1,300	1,400	7,700
Sixth floor	700	800	900	1,000	1,100	1,200	1,300	7,000
Basement	600	700	800	900	1,000	1,100	1,200	6,300
Roof	500	600	700	800	900	1,000	1,100	5,600
Outside	400	500	600	700	800	900	1,000	4,900
Total	7,200	7,800	8,400	9,000	9,600	10,200	10,800	63,000



## MAINTENANCE DIVISION.

## RECORD OF HOSE.

PURCHASED.	Condemned.	Repaired.	In Service.	In Stock.
26,735 ft.	27,872 ft.	35,867 ft.	219,137 ft.	10,533 ft.

## PAINTING ACTIVITIES.

TYPE OF WORK.	Number of Jobs.	Labor Costs.	Material Costs.	Total Costs.
Complete Apparatus.....	1	\$71 25	\$14 94	\$86 19
Partial Apparatus.....	58	276 75	\$5 85	302 60
Miscellaneous.....	154	654 75	258 23	912 98
Totals.....	213	\$1,002 75	\$359 02	\$1,361 77

## REPAIRS TO APPARATUS.

PERFORMED By →	B. F. D. Maint. Div.	Outside Concerns.	Total.
Number of Jobs.....	6,525	\$15	7,340
Cost of Labor and Material.....	\$66,215 50	\$23,412 98	\$89,628 48

## REPAIRS TO BUILDINGS.

PERFORMED By →	B. F. D. Maint. Div.	Outside Concerns.	Total.
Number of Jobs.....	713	143	856
Cost of Labor.....	\$18,169 56	—	—
Cost of Material.....	5,522 17	—	—
Total Cost.....	\$23,691 73	\$14,292 82	\$37,984 55

## REPAIRS TO FIREBOATS.

	COST, MATERIAL.			Total.
	Lumber.	Packing.	Valves.	
B. F. D., Maintenance Division.....	\$121 87	\$105 38	\$252 99	\$480 24
Outside Concerns.....	\$13,727 00			

## MOTOR EQUIPMENT INVENTORY.

TYPE OF EQUIPMENT.	In Service.	In Reserve.
Pumping Engines.....	53	9
Hose Cars.....	44	11
Aerial Ladder Trucks.....	22	8
City Service Ladder Trucks.....	9	3
Water Towers.....	2	2
Mack Wrecker.....	1	—
Rescue Cars.....	3	—
Fuel Car.....	1	—
Lighting Plants.....	2	—
Auxiliary Pumps.....	6	—
Chief Officers' Cars.....	36	20
Commercial Trucks.....	19	—
Salt Cars.....	11	—
Totals.....	209	53

## RECORD OF UNIFORM CLOTHING.

ARTICLE.	Received and Distributed.	Repaired and Cleansed.	Reissued.
Overcoats.....	166	49	139
Sack Coats.....	453	32	126
Trousers.....	696	192	81
Uniform Caps.....	739	—	107
Rubber Fire Coats.....	347	362	77

## STANDARD OF RIGOR

MAINTENANCE DIVISION			
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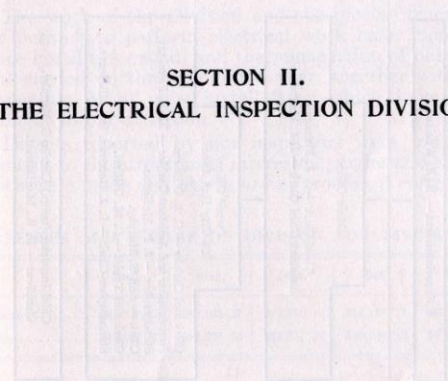
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## ELECTRICAL INSPECTION DIVISION

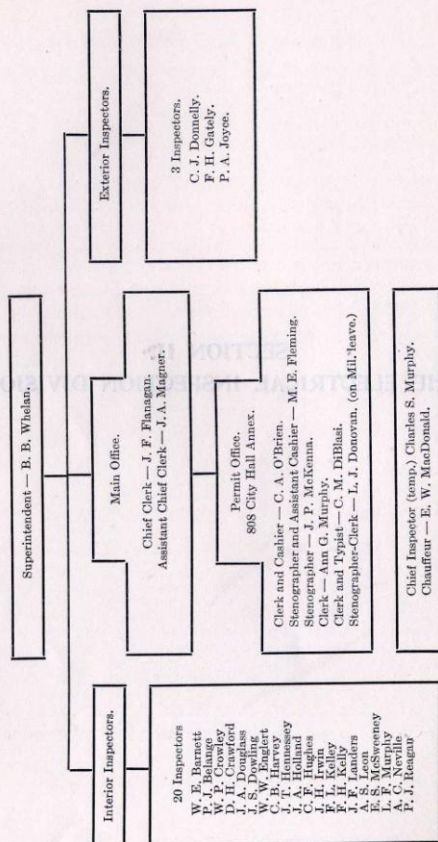
The Electrical Inspection Division is responsible for the inspection of all electrical equipment and systems in the Army. It is organized into several sections, each with its own set of responsibilities. The division is headed by the Chief of the Division, who is responsible for the overall management and coordination of the division's activities. The division is also responsible for the development and implementation of policies and procedures related to the inspection of electrical equipment and systems.

## SECTION II. THE ELECTRICAL INSPECTION DIVISION.





## THE ELECTRICAL INSPECTION DIVISION.



## ELECTRICAL INSPECTION DIVISION.

Chapter 100, Acts of 1946, was enacted by the legislature placing the duty upon the Fire Commissioner to prescribe not more than four miles of streets in Boston in any one year from which poles shall be removed and the wires buried underground during the years 1947 to 1952, inclusive.

No underground district was prescribed in 1946, as this year was exempted from prescription under chapter 26 of the Acts of 1943 on account of war conditions.

The work of the Division and the income from fees for permits to perform electrical work have increased since hostilities ended, and the reinspection of old work was carried on throughout the year, together with the inspection of all new installations which have been brought to our attention.

Defects reported by our inspectors were promptly brought to the attention of interested parties and corrections were made and others are in process of correction.

## EXPENSES AND INCOME OF DIVISION FOR FIVE YEARS.

	1942.	1943.	1944.	1945.	1946.
Expenses.....	\$84,216 63	\$88,105 27	\$88,780 16	\$94,150 15	\$93,107 99
Income.....	\$29,547 82	\$27,565 95	\$32,377 62	\$40,644 12	\$67,051 87

## 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:

Building fires . . . . .	248
Manhole troubles . . . . .	10
Pole fires . . . . .	2
Miscellaneous troubles . . . . .	2
Accidents to persons (one of which was fatal) . . . . .	2

**Causes of Fires and Miscellaneous Troubles Investigated  
by the Electrical Inspection Division in 1946.**

Breakdown in motor . . . . .	37
Refrigerator motors . . . . .	52
Defective extension cords . . . . .	16
Breakdown of insulation . . . . .	43
Manhole troubles . . . . .	10
Sparks from motor ignited inflammable mixture in mixer . . . . .	1
Water leak on fixture wires . . . . .	8
Sparks from fuse box . . . . .	1
Defective wall plug or receptacle . . . . .	13
Service wire grounded in terminal box . . . . .	1
Overheated washing machine motor . . . . .	1
Unclean motor or lack of lubrication . . . . .	6
Heating unit left in circuit unattended . . . . .	11
Pole fire . . . . .	1
Bracket hung over gas pipe (overfused) . . . . .	1
Defective fuse block . . . . .	1
Spark from circuit breaker ignited oily rag . . . . .	1
Breakdown of sign transformer . . . . .	1
Lightning surge . . . . .	1
Defective wiring of fixture . . . . .	18
Transformer breakdown . . . . .	2
Defectively secured cable in switch box . . . . .	1
Improperly installed fluorescent fixture . . . . .	1
Short circuit in telephone wires . . . . .	1
Arcing of overhead wires due to heavy wind and rain storm . . . . .	2
Short circuit in radio . . . . .	8
Sunbowl used in bed overhead and destroyed bedding . . . . .	1
Defective switch . . . . .	8
Neon sign short circuit . . . . .	4
Silk cord used to feed refrigerator motor broke and short circuited . . . . .	1
Spark from motor ignited paint remover in vicinity . . . . .	1
Short circuit in Christmas tree lights . . . . .	5
Defective Christmas window lights . . . . .	1
Street lamp pole . . . . .	1
Heat from electric grid ignited lint and dust between grids . . . . .	1

**Accidents.**

A boy fatally injured by contact with 4,000 volt primary phase of a 3-phase service . . . . .	1
A man burned his fingers changing fuses . . . . .	1

**EXTERIOR DIVISION.**

Chapter 110 of the Acts of 1941 further amending Chapter 101 of the Acts of 1931 directed the Fire Com-

missioner to prescribe not more than four miles of streets in the city of Boston from which poles were to be removed and the wires buried underground for the years 1942 to 1946 inclusive.

Due to war conditions Chapter 26 of the Acts of 1943 was enacted by the legislature suspending the provisions of Chapter 110 of the Acts of 1941 exempting the Fire Commissioner from prescribing any underground construction for the duration of the war and six months thereafter.

Chapter 100 of the Acts of 1946 was enacted by the legislature further amending Chapter 101 of the Acts of 1931 again directing the Fire Commissioner to prescribe not more than four miles of streets in the city of Boston from which poles are to be removed and the wires buried underground for the years 1947 to 1952 inclusive.

The underground district for the year 1947 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:

Brighton: Cambridge street from North Beacon street to the Boston and Albany Railroad Bridge.

Dorchester: Gallivan Boulevard from Verdun street to Granite avenue; Adams street from Gallivan Boulevard to Minot street; Rexford street from Blue Hill avenue to Cummins Highway.

Hyde Park: Hyde Park avenue from Dana avenue to Wolcott square.

Roxbury: Magazine street from Massachusetts avenue to Norfolk avenue; Brookford street from Blue Hill avenue to Howard avenue.

South Boston: National street from Thomas Park to Dorchester street.

West Roxbury: South street from Poplar street to Belgrade avenue; Belgrade avenue from South street to Corinth street; Centre street from Spring street to Grove street; Church street from Centre street to the Brookline line.

Charlestown: School street from Bunker Hill street to High street.

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 January 1, 1947 — 199 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.

	1945.	1946.
PERSONAL SERVICE:		
Permanent employees . . . . .	\$89,216 32	\$87,409 29
CONTRACTUAL SERVICE:		
Printing and binding . . . . .	\$2 00	\$18 50
Transportation of persons . . . . .	1,537 60	1,421 00
Bond and insurance premiums . . . . .	40 00	40 00
Communication . . . . .	606 88	596 16
General repairs . . . . .	1 70	5 25
	\$2,188 18	\$2,080 91
EQUIPMENT:		
Electrical . . . . .	\$100 00	—
Office . . . . .	11 80	\$16 30
Library . . . . .	—	27 00
	\$111 80	\$43 30
SUPPLIES:		
Office . . . . .	\$1,370 54	\$1,624 28
MATERIALS:		
Electrical . . . . .	\$13 30	\$13 96
SPECIAL ITEMS:		
Pensions . . . . .	\$1,250 00	\$1,936 25
Grand totals . . . . .	\$94,150 14	\$93,107 99

## UNDERGROUND WORK FOR THE YEAR 1946.

	LENGTH IN FEET OF		NUMBER OF	
	Conduit.	Duct.	Cable.	Manholes, Services.
Boston Consolidated Gas Company.....	1,415	6,538	12,341	11 18
Boston Edison Company.....	20,078	86,736	313,467	78 342
Boston Elevated Railway.....	27	162	8,561	— —
Boston Fire Department.....	—	—	17,797	— —
Boston Police Department.....	98	98	11,085	4 4
New England Telephone and Telegraph Company.....	6,890	22,048	77,653	28 —
Western Union Telegraph Company.....	—	—	—	— —

## TABLE SHOWING WORK OF EXTERIOR DIVISION — 1946.

Number of poles set in new locations . . . . .	97
Number of poles removed . . . . .	57
Number of poles reset, replaced, straightened . . . . .	376
Number of poles standing in public streets . . . . .	18,800
Number of poles tested . . . . .	6,663
Number of notices of overhead construction . . . . .	2,931
Number of overhead reports . . . . .	4,195
Number of notices of underground construction . . . . .	1,665
Number of underground reports . . . . .	620
Feet of overhead wire removed by the various companies . . . . .	2,522,596

## CHARACTER OF CABLES USED BY THE VARIOUS COMPANIES — 1946.

COMPANY.	Type of Insulation.	Size.
Boston Consolidated Gas Company.....	Rubber, varnished cambric, paper.....	No. 6 to 1000 M. C. M.
Boston Edison Company.....	Rubber and paper.....	No. 6 to 1000 M. C. M.
Boston Elevated Railway.....	Rubber and paper.....	No. 6 to 1000 M. C. M.
Boston Fire Department.....	Rubber.....	2 to 37 conductors.
Boston Police Department.....	Rubber and paper.....	11 conductors and 10 pairs.
New England Telephone and Telegraph Company..	Paper.....	6 to 1,212 pairs.
Western Union Telegraph Company.....	.....	None.