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FIFTEENTH



ANNUAL REPORT

OF THE

Boston Protective Department,

FROM MARCH 1, 1888, TO MARCH 1, 1889.

BOSTON:
PRESS OF L. BARTA & COMPANY,
54 PEARL STREET.
1889.

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OFFICERS.

President :

J. EDWARD HOLLIS.

Vice-President :

GEO. R. ROGERS.

Treasurer :

CHAS. E. GUILD.

Secretary :

OSBORNE HOWES, JR.

Directors :

TO SERVE UNTIL MARCH, 1889.

CHAS. E. GUILD.

N. FOSTER, JR.

EDWARD D. BLAKE.

TO SERVE UNTIL MARCH, 1890.

THOMAS F. TEMPLE.

J. EDWARD HOLLIS.

HORACE V. FREEMAN.

TO SERVE UNTIL MARCH, 1891.

GEORGE R. ROGERS.

FRANCIS H. STEVENS.

GEO. P. FIELD.

REPORT OF THE DIRECTORS.

Boston, March 13, 1889.

TO THE MEMBERS OF THE BOSTON PROTECTIVE DEPARTMENT :

Gentlemen : The fifteenth year during which the Boston Protective Department has been in active operation as a corporation, ends with the approaching annual meeting, and in looking back over the service performed during this long period of time, the Directors feel convinced that the members must find many causes for satisfaction in the effective work which this organization has performed. During the past year nothing of special moment has occurred in the regular work of the organization, the record of each month simply showing efficient work performed by the men whenever a call has been made upon them for active service.

In their last annual report, the Directors called the attention of the members to a claim for damages which had been brought against the department, in consequence of a collision of one of the wagons of the department with a herdic. The Superior Court had then given a verdict against the department, and from this an appeal had been taken to the Supreme Court. At that time the decision of the latter tribunal had not been given. Since then, the decision referred to has been handed down, sustaining the exceptions taken in the first trial by the counsel of the department. On a new trial in the Superior Court, a verdict was obtained against this department, and again the matter has been carried to the Supreme Court on what seemed to be valid exceptions. However, as the judgment against the department may be confirmed, it is considered necessary by the Directors to keep on hand a sufficient sum of money to pay this and the legal expenses that have been incurred.

The Directors would call the attention of members to the tabulated statements of fire losses prepared by the Superintendent, and given in the following pages, which contain a great deal of valuable information.

They would furthermore recommend :

First, that the active duties of the department be continued for another year ; and

Second, that the Directors be authorized to expend for the maintenance of the department during another year, not exceeding \$45,000.

For the Directors, J. EDWARD HOLLIS, *President*.

TREASURER'S

RECEIPTS AND EXPENDITURES OF THE BOSTON

1888,		
March.	By Cash on hand, Balance	\$17,958.66
	Balance due Assessment of January 1, 1888	8,406.51
	Six Months' Assessment to July 1, 1888	20,697.61
	Six Months' Assessment to January 1, 1889	19,639.67
	Interest, Elliot National Bank	443.80
	Cash received for Watch Duty	271.57
	Cash received for sale of old Carpet, etc.	4.82
	Cash received for use of Covers	4.00
	Cash received from N. Ward & Co., for Horse	1.00
		<hr/> \$67,427.64

\$67,427.64

NET RUNNING EXPENSES.

March, 1876, to March, 1877	\$27,311.72
March, 1877, to March, 1878	26,922.86
March, 1878, to March, 1879	23,975.96
March, 1879, to March, 1880	25,733.80
March, 1880, to March, 1881	28,288.46
March, 1881, to March, 1882	26,593.69
March, 1882, to March, 1883	26,399.49
March, 1883, to March, 1884	35,177.68
March, 1884, to March, 1885	35,253.10
March, 1885, to March, 1886	37,047.94
March, 1886, to March, 1887	33,833.64
March, 1887, to March, 1888	38,534.07
March, 1888, to March, 1889	39,861.16

REPORT.

PROTECTIVE DEPARTMENT FOR YEAR ENDING MARCH, 1889.

To Cash paid:—

Pay Roll	\$27,834.29
Rent and Taxes of Houses	2,681.40
Hay and Grain	714.59
Wagon and Harness Repairs	347.77
Purchase and Hire of Horse, Veterinary, etc.	587.00
New Wagon for Superintendent	201.00
Horse Shoeing	287.00
Fuel	236.50
Gas	222.69
Repairs and Furnishings to Houses	728.50
Washing	234.29
New Covers and Repairs	664.55
Supplies	463.57
Telephone Dispatch Co.	160.00
Automatic Alarm and Repairs	94.25
Purchase of two Extinguishers	60.00
Water Tax	62.50
Sundries	194.16
Advertising Annual Meeting	38.50
Secretary and Boy, Rent of Rooms and Sundries	1,023.37
Printing and Stationery	1,415.62
Treasurer	600.00
Auditors' Fees	30.00
Legal Services	900.00
Collision Damages	300.00
Directors' Meeting	81.00
	<hr/>
	\$40,142.55
Assessments Refunded (paid twice)	81.65
Assessment of January 1, 1888, shown as un-	
collected in last account	8,406.51
Should have been	<hr/>
	8,364.62
Difference	41.89
Total Assessment (January 1, 1888), as shown by	
printed sheet, in error, should be \$20,739.08 in-	
stead of \$20,780.97.	
Assessment of July 1, 1888, not collected, (duplicate	
returns)	8.97
Balance due, Assessment January 1, 1889	5,661.89
Balance, Cash on hand	21,490.69
	<hr/>
	\$67,427.6

E. & O. E.

C. E. GUILD, *Treasurer.*

BOSTON, March 11, 1889.

Audited and found correct to date.

Signed,

HAMMOND VINTON,	} <i>Auditing Committee.</i>
JOHN W. PORTER,	
P. E. EDDY,	

SUPERINTENDENT'S REPORT.

HEAD-QUARTERS BOSTON PROTECTIVE DEPARTMENT, }
OFFICE OF SUPT., No. 5 HAMILTON ST. }

BOSTON, MARCH 1, 1889.

TO THE PRESIDENT AND DIRECTORS OF THE DEPARTMENT :

Gentlemen : The subjoined is the Fifteenth Annual Report of this Department, for the year ending March 1, 1889.

The report embraces in the annexed tables the roster of the officers and members of the department, resignations, dismissals, and appointments, a monthly statement of alarms of fires, covers spread, extinguishers used, fire and watch duty performed by the department. A monthly statement of the amount of insurance and loss paid by insurance companies ; also loss not insured on building and contents ; a comparison of fires, covers spread, insurance, total loss, and loss not insured, for nine years ; a classification of fires and alarms, in months, days of the week, days of the month, and hours of the day, also districts where alarms were given ; a classification of covers spread, and a report of covers condemned and destroyed ; the causes of fires and alarms, the grading of losses for the year, with the aggregate loss, the average loss to each alarm, and average loss to each fire, together with the total fires, loss, and average for each alarm ; a comparison of total fires, total fires with loss, total loss, average loss of total fires, and average loss of fires with loss for eight years, commencing January 1, 1881 ; a statement of the insurance, loss paid by insurance companies, per cent. of insurance paid in losses by companies ; loss not insured, total loss, and per cent. of total loss not insured on buildings and contents for eight years, each year commencing January 1, and ending December 31 ; also the total insurance, total loss paid by insurance companies, per cent. of insurance paid in losses by companies ; total loss, and per cent. of total loss not insured for eight years, a schedule of property belonging to the department, together with a

list of members injured ; a statement of benefits paid to members of this Department from the Boston Firemen's Relief Fund, also from the Boston Protective Mutual Relief Association on account of sickness ; also a statement of the funds of the B. P. D. M. R. Association in the hands of the trustees.

ORGANIZATION.

The organization of the department consists of 1 superintendent, 2 captains, 2 lieutenants, 15 patrolmen, 2 substitutes, and 10 callmen, being the same as last year, except the appointment (November 19, 1888) of one additional callman, who was assigned for duty on Ladder Co. 16, Roslindale, West Roxbury.

RESIGNATIONS, DISMISSALS, AND APPOINTMENTS.

Callman Benj. C. Bird, resigned November 1, 1888 ; substitute J. W. White, dismissed December 21, 1888 ; E. Fruean. Jr., appointed callman November 1, 1888, vice Benj. C. Bird, resigned ; S. S. Bearse, appointed callman November 19, 1888 ; Sam'l Abbott, 3d, appointed substitute January 10, 1889, vice J. W. White, dismissed.

WAGONS, HORSES, AND EQUIPMENTS.

The wagons, horses, and equipments are in good condition. Owing to one of Company Two's horses becoming totally unfit for use, he was killed, and on October 21, 1888, a horse was purchased ; a buggy for use of the superintendent, twenty-five (25) rubber covers, and two (2) small portable extinguishers were purchased.

HOUSES.

During the year the houses of the Department have been repainted and partially refurnished.

OFFICERS AND MEN.

The officers and men have performed their arduous duties with zeal and efficiency, for which I am gratified to acknowledge the same.

FIRE ALARMS.

It will be seen that the statement of fires and alarms for this year exhibits the largest number ever tabulated, being eight hundred and nineteen, an increase of two hundred and thirty-two, as compared with the year 1881, which was five hundred and eighty-seven.

SERVICE PERFORMED.

668 5-6 hours of fire service, 2,291½ hours of watch duty, and 24½ hours of protecting buildings and contents from storm, an equivalent of 125 days, 8 hours, and 25 minutes of continual service, will convey some idea of the labor of the department. Of the 2,291½ hours watch duty, 543 hours were paid for (at the rate of 50 cents per hour) by the insurance companies interested, amounting to \$271.50.

COVERS.

2,292 covers were used in covering goods at fires, 121 covers on goods, and 57 covers on roofs, to protect the buildings and contents after fires from additional damage by storms; making a total of 2,470 covers used, it being next to the largest number used in any year, the largest occurring in the year 1883 when 2,948 covers were used. Only those who have attended a fire during the time the Department was at work can realize the endurance required. It is necessary for this department, in order to do efficient service, to arrive at the fire before the first engine company has an opportunity to use water. Upon arriving at the fire the department, with the greatest celerity, proceeds to cover the goods, oftentimes being required to carry one or more covers on their shoulders, up four or five stories amid thick smoke and hot water, spreading them over the goods, again descending the stairs for an additional supply, and returning and repeating the operation until the goods are thoroughly covered; all this must be done with rapidity, otherwise the labor is valueless. After the fire is extinguished then comes the labor of removing the water and debris from the building, or to such place as to prevent further damage. The covers are then removed from the goods where the water has ceased dripping, and if it be machinery it is oiled to prevent the dampness from rusting it. If a great quantity of water is required to extinguish the fire, the drain pipes must be broken in order to remove the

water, and in some cases, owing to old-fashioned plug drains (where the height of tide must be considered), or where the drain pipes enter the cellar above the level of the floor, application is made to the chief of fire department for use of one or more syphons, which has in every case been cheerfully granted.

While it is a matter of conjecture entirely as to the value of property saved by the use of covers, yet if an average of \$17.50 value per cover was saved, it would pay the expenses of the department for the past year. Many cases could be cited where the saving by a single cover has been considerably in excess of that amount.

INSURANCE AND LOSSES.

The amount of insurance involved for the year 1888 is in excess of any year ever presented, being \$8,066,738.23. The loss sustained by the insurance companies is \$943,130.91, divided as follows :

Insurance on buildings	\$4,492,935.42½
Loss on buildings	227,933.85½
Insurance on contents	3,573,802.80½
Loss on contents	715,197.05½

CAUSES OF FIRES AND ALARMS.

The following is a condensed statement of fires and alarms :

Assistance, call for	1
Buildings, defective	30
Carelessness	239
Electricity	8
Gas	34
Incendiary, supposed	37
Kerosene oil	87
Lightning	1
Matches	110
Needless	79
Sparks	40
Spontaneous combustion	32
Unknown	111
Vapors	10
Total	819

FIRE DEPARTMENT.

Between the Protective and Fire departments the same cordial feelings continue to exist, thereby increasing the efficiency of both departments.

CONCLUSION.

I desire to express my sincere thanks to President J. Edward Hollis, Esq., the Board of Directors, and Osborne Howes, Jr., Esq., Secretary of the Board, for their uniform kindness and co-operation, and also to the officers and members of this department for the earnest and faithful manner in which they have performed their duties; also to the Board of Fire Commissioners, Chief of Dept. L. P. Webber and District Chiefs, Superintendent B. S. Flanders of the Fire Alarm Department, Superintendent H. R. Demary of the Fire Department Repair Shop, and all the officers and members of the Fire Department, together with the officers and members of the Police Department, for their courtesy and assistance at all times.

Respectfully submitted,

SAMUEL ABBOTT, JR.,

Superintendent.

ROSTER OF THE OFFICERS AND MEMBERS OF THE BOSTON PROTECTIVE DEPARTMENT.

SUPERINTENDENT, SAMUEL ABBOTT, JR.; AGE, 42; RESIDENCE, No. 84 DOVER ST.; HEADQUARTERS, No. 5 HAMILTON ST.

COMPANY No. 1. No. 5 Hamilton St. PERMANENT FORCE.

	Name.	Age.	Former Occupation.	Residence.	No. of Badge.	Assigned for Duty.
Captain.	D. R. Dearing	53	Engineer	1670 Washington St.	11	Company Quarters.
Lieutenant.	S. E. Smith	39	Fireman	31 Pearl St., Charlestown.	12	" "
Driver.	G. W. Thompson	53	Driver	56 Winthrop St., Charlestown.	13	" "
Ass't Driver.	A. F. Hall	34	Ship Joiner	385 Meridian St., East Boston.	20	" "
Patrolman.	D. W. Brown	37	Clerk	151 W. Brookline St.	41	" "
"	A. T. Osborne	32	Machinist.	70 Oak St.	21	" "
"	C. Schwarm	31	Wood Carver	262 Broadway, South Boston.	14	" "
"	J. T. Fitzgerald	29	Clerk	334 Tremont St.	16	" "
"	H. W. Kimball	30	Clerk	67 Shawmut Ave.	43	" "
"	J. J. McCarthy	36	Clerk	9 Knox St.	22	" "
Substitute.	H. E. Thompson	31	Painter	30 Essex St., Charlestown.	39	" "

CALL FORCE.

Rank.	Name.	Age.	Former Occupation.	Residence.	No. of Badge.	Assigned for duty.
Callman.	J. E. Thayer	58	Calker	22 Paris St., East Boston.	17	East Boston District.
"	C. H. Ferrier	29	Clerk	72 Russell St., Charlestown.	18	Charlestown "

COMPANY No. 2. No. 16 Broadway Extension. PERMANENT FORCE.

Rank.	Name.	Age.	Former Occupation.	Residence.	No. of Badge.	Assigned for Duty.
Captain.	J. H. Huff	42	Mason	8 Oak St.	37	Company Quarters.
Lieutenant.	M. F. Packard	45	Mason	483 Shawmut Ave.	38	"
Driver.	I. M. Hutchins.	43	Foreman of Contractors	20 Gray St.	26	"
Asst Driver.	C. H. Cushing	41	Driver	216 Broadway, So. Boston.	23	"
Parolman.	J. L. Huff	38	Mason	13 Pine St.	25	"
"	H. S. Rendall	42	Painter	14 Taylor St.	24	"
"	S. W. Ronimus.	35	Paper Hanger	356 Tremont St.	28	"
"	G. H. Carter	40	Porter	Rear 893 Washington St.	29	"
"	F. O. Hinckley	29	Clockmaker	47 Adams St., Boston Highlands.	27	"
Substitute.	Samuel Abbott, 3d	21	Fireman	84 Dover St.	36	"

CALL FORCE.

Rank.	Name.	Age.	Former Occupation.	Residence.	No. of Badge.	Assigned for Duty.
Callman.	P. A. Garcia	32	Clockmaker	198 Dudley St., Boston Highl'ds.	30	Boston Highland Dist.
"	F. C. Byrnes	31	Expressman	835 Fourth St., So. Boston.	31	So. Boston
"	E. Fruean	23	Thsmith	Pham Court, Dorchester.	32	Dorchester
"	G. W. Dalton	48	Blacksmith	Washington St., W. Roxbury.	35	West Roxbury
"	C. A. Wood	46	Carpenter	250 Lamartine St., Brighton.	45	Brighton
"	J. J. O'Keefe	36	Teamster	Winship St., West Roxbury.	35	West Roxbury
"	S. S. Bearse	24	Teamster	Poplar St., West Roxbury.	C	West Roxbury

Appointments.		Resigned.	Dismissed.
E. Fruean, Callman, Dorchester District Nov. 1st, 1888.			
S. S. Bearse, Callman, West Roxbury District, Nov. 19th, 1888.		Benj. C. Bird, Callman, Dorchester District, Nov. 1st, 1888.	J. W. White, Permanent Substitute, Dec. 21st, 1888.
Samuel Abbott, 3d, Permanent Substitute, Jan. 10th, 1889.			

MONTHLY STATEMENT

Of Alarms of Fire, Covers Spread, Extinguishers Used, Fire, Watch, and Extra Duty Performed for the Year Ending March 1, 1889.

Months.	Alarms.					Covers.		Extinguishers used.	Fire Duty.		Watch Duty.		Extra Duty.		
	Bell.	Still.	Automatic.	Ext. by occ.	Total.	Spread.	Roof.		Hours.	Minutes.	Hours.	Minutes.	Hours.	Minutes.	Covers used.
March, 1888	47	19	1	2	69	286	10	2	57	—	386	30	14	—	33
April, "	58	7	1	0	66	164	1	4	57	15	172	15	1	45	7
May, "	40	4	2	1	47	200	9	1	41	25	488	50	3	30	81
June, "	42	11	3	1	57	156	7	3	44	25	44	15	0	0	0
July, "	35	25	2	0	112	84	7	3	61	05	76	30	0	0	0
August, "	45	9	1	0	55	73	0	2	43	10	73	30	0	0	0
Sept., "	46	6	1	0	53	129	0	0	54	55	102	15	0	0	0
October, "	48	15	2	0	65	184	4	1	64	20	142	20	0	0	0
Nov., "	56	18	2	0	76	295	4	6	62	40	212	40	5	0	0
Dec., "	61	20	3	0	84	259	9	2	61	25	310	30	0	0	0
Jan., 1889	47	15	1	0	63	108	0	0	51	55	62	—	0	0	0
Feb., "	56	14	2	0	72	354	6	7	69	15	219	45	0	0	0
Total,	631	163	21	4	819	2,292	57	31	668	50	2,291	20	24	15	121

Comparison of Fires, Covers Spread, Fire and Watch Duty performed for nine years, each year commencing March 1 and ending the last day of February.

Years.	Fires.	Covers spread.	Fire Duty.		Watch Duty.	
			Hrs.	Min.	Hrs.	Min.
1880	587	1,596	561	10	886	30
1881	521	1,364	670	00	1,508	30
1882	510	1,910	692	40	1,432	15
1883	648	2,948	966	50	2,479	30
1884	648	2,338	622	55	3,433	45
1885	669	2,361	662	55	3,292	10
1886	662	1,572	525	55	1,472	50
1887	798	1,638	648	55	2,486	30
1888	819	2,292	668	50	2,291	20

MONTHLY STATEMENT

Of Insurance and Loss on Buildings, Contents, Rents, and Wharfs for the year ending March 1st, 1889.

Months.	Buildings.		Contents.		Losses not Insured.		Total.		Rents.		Wharfs.	
	Insurance.	Loss.	Insurance.	Loss.	Buildings.	Contents.	Insurance.	Loss.	Insurance.	Loss.	Insurance.	Loss.
March . 1888	\$660,985.25	\$30,006.90	\$450,748.77	\$97,105.66	\$1,950.75	\$22,691.25	\$1,011,734.02	\$151,764.56	\$.....	\$.....	\$.....	\$.....
April . "	196,041.66	34,794.00	242,670.00	91,065.70	825.00	3,590.05	130,294.75	.....	.....	.....	.....	.....
May . "	519,913.00	15,765.50	225,320.00	66,055.56	.....	1,925.00	745,233.00	83,746.06	.....	.....	.....	.....
June . "	370,253.00	12,670.36	160,400.00	43,844.81	125.00	1,241.90	530,653.00	57,782.07	4,000.00	351.26	.....	.....
July . "	251,704.56	12,679.59	149,207.40	16,046.37	1,227.00	602.00	400,911.96	30,454.96	.....	.....	.....	.....
Aug. . "	136,837.50	7,221.23	127,012.50	12,999.26	205.00	966.25	263,850.00	21,411.74	.....	.....	750.00	287.00
Sept. . "	193,026.00	27,173.61	282,275.00	66,789.34	2,633.65	16,205.49	475,300.00	111,702.09	.....	.....	7,000.00	768.00
Oct. . "	253,803.33	21,095.61	427,928.70	125,966.23	1,188.66	16,227.11	681,732.04	164,477.68	.....	.....	.....	.....
Nov. . "	526,744.62	22,209.69	477,450.00	80,115.67	50.00	3,296.57	1,004,194.62	105,671.83	8,000.00	191.07	.....	.....
Dec. . "	427,550.00	17,628.31	208,662.36	42,640.90	187.33	4,785.48	636,312.36	65,442.02	.....	.....	.....	.....
Jan. . 1889	302,775.00	11,763.40	146,097.00	16,005.99	18,360.00	2,095.00	448,872.00	46,224.39	.....	.....	.....	.....
Feb. . "	400,500.00	31,684.67	452,415.86	64,531.27	621.00	12,618.87	852,915.86	109,255.81	.....	.....	.....	.....
Total . .	\$4,140,232.92	\$244,692.87	\$3,350,187.59	\$723,186.71	\$27,173.93	\$85,161.97	\$7,490,420.52	\$1,080,217.96	\$12,000.00	\$542.32	\$7,750.00	\$1,055.00

Year.	Buildings.		Contents.		Losses not Insured.		Total.		Rents.		Wharfs.	
	Insurance.	Loss.	Insurance.	Loss.	Buildings.	Contents.	Insurance.	Loss.	Insurance.	Loss.	Insurance.	Loss.
1880	\$6,009,756.00	.....	.....	.....	\$1,056,468.00	.....	.....	.....	.....	.....
1881	2,801,564.11	.....	.....	.....	551,008.82	.....	.....	.....	\$56,197.83	.....
1882	8,269,049.83	.....	.....	.....	940,073.69	.....	.....	.....	172,401.39	.....
1883	6,972,141.29	.....	.....	.....	1,100,381.81	.....	.....	.....	163,600.06	.....
1884	6,965,012.24	.....	.....	.....	1,256,944.74	.....	.....	.....	123,389.96	.....
1885	6,571,291.77	.....	.....	.....	1,167,835.28	.....	.....	.....	146,422.58	.....
1886	4,194,491.11	.....	.....	.....	905,080.08	.....	.....	.....	281,344.66	.....
1887	6,440,032.21	.....	.....	.....	734,737.21	.....	.....	.....	150,187.90	.....
1888	7,490,420.52	.....	.....	.....	1,080,217.96	.....	.....	.....	112,338.37	.....

Comparison of Insurance and Losses for nine years, each year commencing March 1st, and ending the last day of February.

FIRES AND ALARMS.

By Months, Days of the Week, Days of the Month, and Hours of the Day, from March 1, 1888, to March 1, 1889.

Months.		Days of the Week.		Days of the Month.		Hours of the Day.	
March, 1888.	69	Monday . . .	113	1	21	6 to 7 A. M.	16
				2	27	7 " 8 "	18
				3	35	8 " 9 "	23
April, "	66	Tuesday . .	109	4	51	9 " 10 "	38
				5	16	10 " 11 "	26
				6	30	11 " 12 NOON.	36
May, "	47	Wednesday .	130	7	25	12 " 1 P. M.	33
				8	22	1 " 2 "	20
				9	28	2 " 3 "	36
June, "	57	Thursday . .	115	10	24	3 " 4 "	41
				11	22	4 " 5 "	45
				12	16	5 " 6 "	53
July, "	112	Friday . . .	123	13	29	6 " 7 "	55
				14	22	7 " 8 "	60
				15	27	8 " 9 "	58
August, "	55	Saturday . .	133	16	20	9 " 10 "	57
				17	26	10 " 11 "	37
				18	33	11 " 12 MIDN.	35
September, "	53	Sunday . . .	96	19	22	12 " 1 A. M.	26
				20	18	1 " 2 "	32
				21	26	2 " 3 "	20
October, "	65			22	30	3 " 4 "	29
				23	38	4 " 5 "	13
				24	30	5 " 6 "	12
November, "	76			25	36		
				26	40		
				27	23		
December, "	84			28	22		
				29	15		
				30	26		
January, 1889	63			31	19		
February, "	72						
Totals . .	819		819		819		819

DISTRICTS WHERE ALARMS WERE GIVEN.

City Proper	464
Boston Highlands District	79
Charlestown "	57
East Boston "	51
South Boston "	79
Dorchester "	31
West Roxbury "	34
Brighton "	23
Boston Harbor "	1
Total	819

CLASSIFICATION OF COVERS SPREAD.

22 Fires of 1 Cover each	22	5 Fires of 25 Covers each	125
16 " " 2 Covers "	32	1 Fire " 26 "	26
14 " " 3 " "	42	1 " " 27 "	27
8 " " 4 " "	32	3 Fires " 28 " "	84
9 " " 5 " "	45	2 " " 32 " "	64
12 " " 6 " "	72	2 " " 34 " "	68
4 " " 7 " "	28	2 " " 35 " "	70
6 " " 8 " "	48	2 " " 36 " "	72
4 " " 9 " "	36	1 Fire " 37 "	37
2 " " 10 " "	20	1 " " 39 "	39
1 Fire " 11 "	11	1 " " 46 "	46
2 Fires " 13 "	26	8 Fires " 49 " "	147
1 Fire " 14 "	14	2 " " 51 " "	102
2 Fires " 15 "	30	1 Fire " 52 "	52
2 " " 16 " "	32	1 " " 54 "	54
1 Fire " 17 "	17	1 " " 56 "	56
6 Fires " 18 " "	108	2 Fires " 62 " "	124
1 Fire " 20 "	20	1 Fire " 69 "	69
3 Fires " 21 "	63	1 " " 72 "	72
2 " " 22 " "	44	1 " " 74 "	74
1 Fire " 23 "	23	1 " " 95 "	95
1 " " 24 "	24		

Total Fires, - - - - - 155

Total Covers, - - - - - 2,292

155 Fires, 2,292 Covers. Average 19.

COVERS CONDEMNED AND DESTROYED.

Destroyed at fire April 26th, Atlantic Works.	10
Condemned	12
Total	22

CAUSES OF FIRES AND ALARMS.

Acid	2
Alarms, false	51
,, needless	13
Assistance, call for	1
Ashes, hot, in wooden receptacle	21
,, ,, from pipe	19
Attempting to thaw out water pipes	8
Boiling over of stove blacking	1
,, ,, fat	6
,, ,, tar	3
,, ,, varnish	1
Bonfires	5
Boys, set by	11
Brush fires	8
Candles, lighted	8
Chimney fires	21
Cigar stubs, lighted	2
,, ,, ,, in wooden spittoons filled with sawdust	3
,, ,, ,, on straw	2
,, ,, ,, on rubbish	1
Cigarettes, lighted	2
Defective chimney	24
,, fire-place	1
,, ovens	2
,, set boilers	2
Drying, plastering	3
Explosion of steam condenser	1
Electric light wires, overcharged	6
,, ,, sparks	2
Exhibition of Fire Department	1
Fires re-kindling	4
Fire-crackers	40
Fire-works	5
Friction	1
,, of belting	1
,, of iron fan in blower	1
Gas jets	3
,, ,, igniting curtains	16

Gas jets igniting goods	4
" " " woodwork	2
" " " hair	1
" explosions	3
" leakage, attempting to find a	5
Hot carbons	1
" coals	5
" iron	3
" metal	1
" stove, clothing igniting from a	4
" " upsetting a	1
Incendiary, supposed	37
Kerosene oil, attempting to kindle a fire with	4
" " lamp igniting cotton goods	1
" " lamps, explosion of lighted	7
" " " breaking "	54
" " lamp, igniting netting	1
" " " " clothing	1
" " lamps, igniting woodwork	5
" " stove, attempting to fill a lighted	1
" " "	1
" " stoves, upsetting lighted	12
Lightning	1
Lime slacking	2
Matches	17
" children playing with	28
" igniting curtains	2
" thrown on clothing in closet	18
" " " hay	1
" " " rubbish	14
" " " straw	2
" " " waste paper	3
" " " bedding	3
" " " oily floor	2
" " " charcoal	1
" " " black varnish	1
" " " pan of turpentine	1
" " " shavings	2
" " " oakum	1
" " " kerosene-oil can	1
" " " umbrellas	1
" " " celluloid	1
" " " lambrequin	1
" " " cotton	1
" rats and	9
Overheat, hot-air pipes	5
" stoves	20

Overheat, stove funnels	7
,, chimneys	6
,, ovens	2
,, steam-pipes	2
,, japanning oven	1
,, journal	1
,, drying kiln	1
Paper, fluff in burnishing room igniting from a lighted	1
Soot, from chimney	3
Spontaneous combustion	15
,, ,, oily rags	8
,, ,, ,, waste	4
,, ,, ,, sawdust	1
,, ,, coal	1
,, ,, paint	1
,, ,, chemicals	1
Smoky stoves	8
Sparks from chimneys	11
,, ,, fireplaces	2
,, ,, hoisting engine	1
,, ,, locomotives	11
,, ,, plumbers' fire-pot	2
,, ,, roofers' fire-pot	1
,, ,, stoves	3
,, ,, smelting furnace	1
Sulphur fires, hot coals from	2
Unknown	111
Vapor from naphtha	6
,, ,, alcohol	4
Wood on furnace or in oven, igniting of	7
Total	819

GRADE OF LOSSES.

Grade of losses for the year 1888, commencing January 1st, and ending December 31st.

		Aggregate.	Average.
280	Fires with no loss.		
262	" " loss under \$100	\$10,393.55	\$39.67
140	" " " from \$100 to \$500	30,374.70	216.96
45	" " " " \$500 to \$1,000	32,298.46	717.74
72	" " " " \$1,000 to \$5,000	167,710.50	2,329.31
12	" " " " \$5,000 to \$10,000	98,138.48	8,178.20
3	" " " " \$10,000 to \$15,000	35,022.41	11,674.13
	Over \$15,000, as follows:—		
1	Fire Jan. 17, Nos. 83 and 85 High St., S. Westcott & Son, Leather	15,042.46	
1	" Feb. 6, 121 Medford St., Charlestown, F. M. Holmes Fur. Co.	25,630.28	
1	" Mar. 13, 2170 to 2178 Washington St., J. T. Smith, Carriage Mfg., et al.	47,977.00	
1	" " 23, 19 and 21 Columbia St., John A. Babcock & Co., Hat Mfg., et al.	31,187.07	
1	" " 24, 15 to 17 Avon St., H. Crine, Furs, &c., et al.	16,605.80	
1	" " 27, 352 to 356 Washington St., Frank Woods, Printer, et al.	16,292.13	
1	" April 13, 155 and 157 High St., Bradley, Hastings & Co., Hardware, et al.	24,879.41	
1	" " 26, 60 Border St., Atlantic Works, Steamship Boilers, &c.	78,548.91	
1	" May 15, 40 and 42 Summer St., Raphael & Lewenberg, Clothiers, et al.	15,948.15	
1	" " 16, 6 to 12 Hayward Place, Cashman, Keating & Co., Printers, et al.	30,747.05	
1	" " 28, 2277 to 2281 Washington St., T. Smith & Co., Dry Goods, et al.	17,729.73	
1	" June 2, 3 Head Place, Edison Electric Light Co. et al.	39,512.00	
1	" Sept. 13, 365 Atlantic Ave., Seccomb, Kehew & Sons, Oils, et al.	20,561.35	
1	" " 14, 376 to 380 Albany St., A. F. Leatherbee, Lumber, et al.	75,513.26	
1	" Oct. 6, Spectacle Island, Boston Harbor, Dole Fertilizing Co.	19,112.78	
1	" " 6, 411 and 413 Atlantic Ave., W. S. Waterhouse, Leather, et al.	22,936.31	
1	" " 20, Lewis Wharf, Storage	91,574.16	
1	" Nov. 3, 47 and 49 Summer St., C. S. Marston, Clothier	21,462.30	
1	" " 20, 55 High St., Webster & Co. Leather, et al.	14,978.44	
1	" " 24, Commonwealth Ave., Moss & Whyte, Iron Workers	31,500.00	
834		\$1,031,676.72	\$1,237.02

The 554 fires where there was a loss, the average was \$1,862.23.

Comparison of total fires, total fires with loss, total loss, average loss of total fires, and average loss of fires with loss; for eight years, commencing January 1, 1881.

Year.	Total Fires.	Total Fires with loss.	Total Loss.	Average Loss of Total Fires.	Average loss of total fires with loss.
1881	558	344	\$467,105.28	\$837.10	\$1,357.86
1882	502	329	958,835.88	1,910.03	2,914.39
1883	641	371	1,132,982.18	1,767.52	3,063.86
1884	633	398	1,101,253.60	1,739.73	2,766.96
1885	635	397	1,232,255.05	1,881.30	3,103.91
1886	687	448	1,089,196.05	1,585.43	2,431.24
1887	754	460	630,454.11	915.72	1,500.98
1888	834	554	1,031,676.72	1,237.02	1,862.23
Total	5,264	3,301	\$7,703,759.41	\$1,463.48	\$2,333.76

Statement of the insurance; loss paid by companies; per cent. of insurance paid in losses by companies; loss not insured; total loss, and per cent. of total loss not insured on buildings and contents; for eight years, each year commencing January 1, and ending December 31; also the total insurance; total loss paid by companies; per cent. of insurance paid in losses by companies; total loss, and per cent. of total loss not insured; for eight years.

BUILDINGS.

Year.	Insurance.	Loss Paid by Companies.	Percent. of Insurance Paid in Losses by Co's.	Loss not Insured.	Total Loss.	Per cent. of Total Loss not Insured.
1881	\$2,307,064.38	\$115,612.03	05.01	\$14,888.01	\$130,500.04	11.40
1882	2,405,529.94	159,246.42	06.62	26,271.67	185,518.09	14.16
1883	3,856,784.88	334,981.10	08.68	23,478.10	358,469.20	07.00
1884	3,227,819.93	189,168.83	05.86	28,022.40	217,191.23	14.81
1885	3,070,687.86	221,801.75	07.22	24,240.96	246,042.71	09.85
1886	2,733,588.56	275,269.13	10.06	136,800.13	412,069.26	33.19
1887	3,290,462.47	171,871.93	05.22	68,206.29	240,078.22	28.41
1888	4,492,935.42½	227,933.85½	05.07	12,302.39½	240,236.25	05.12
Total,	\$25,384,873.44½	\$1,695,885.04½	06.68	\$334,209.95½	\$2,030,095.00	16.46

CONTENTS.

Year.	Insurance.	Loss Paid by Companies.	Percent. of Insurance Paid in Losses by Co's.	Loss not Insured.	Total Loss.	Per cent. of Total Loss not Insured.
1881	\$1,598,163.23	\$304,792.58	19.07	\$31,813.20	\$336,605.78	09.45
1882	2,475,362.73	622,795.39	25.16	150,522.40	773,317.79	19.46
1883	2,742,409.07	596,324.39	21.74	178,198.89	774,522.98	23.00
1884	4,244,172.75	781,134.46	18.40	102,927.91	884,062.37	11.64
1885	2,992,044.37	900,648.20	30.10	85,664.14	986,212.34	08.67
1886	2,270,318.15	499,804.78	22.01	177,322.01	677,126.79	26.18
1887	1,886,074.17	369,067.09	19.57	81,308.80	450,375.89	18.05
1888	3,573,802.80½	715,197.06½	20.01	76,243.41½	791,440.47	09.63
Total,	\$21,782,347.27½	\$4,789,763.94½	21.99	\$883,900.46½	\$5,673,664.41	15.58

TOTAL.

Year.	Total Insurance on Buildings and Contents.	Total Loss on Buildings and Contents Paid by Companies.	Per cent. of total Insurance paid in Losses by Co's.	Total Loss on Buildings and Contents.	Per cent. of Total Loss to Insurance.
1881	\$3,905,227.61	\$420,404.61	10.76	\$467,105.82	11.96
1882	4,880,892.67	782,041.81	16.02	958,835.88	19.64
1883	6,599,193.95	931,305.49	14.11	1,132,982.18	17.16
1884	7,471,992.68	970,303.29	12.98	1,101,253.60	14.73
1885	6,062,732.23	1,122,449.95	18.51	1,232,255.05	20.32
1886	5,003,906.71	775,073.91	15.48	1,089,196.05	21.76
1887	5,176,536.64	540,939.02	10.45	690,454.11	13.34
1888	8,066,738.23	943,130.91	11.69	1,031,676.72	12.79
Total,	\$47,167,220.72	\$6,485,648.99	13.75	\$7,703,759.41	16.33

SCHEDULE OF PROPERTY.

OWNED BY THE DEPARTMENT AND CONTAINED IN HOUSES NOS. ONE AND TWO, AND IN THE OUTLYING DISTRICTS.

Horses	6
Wagons "complete"	2
Pungs "	2
Wagons for superintendent (1 unsafe)	2
Sleighs " "	2
Rubber covers	436
Canvas " for roofs	4
Fire extinguishers (4 unsafe)	8
Life-saving blankets	2
Sets of patent double harnesses, "new"	2
" " " " "old"	2
Single harnesses	3
Wagon poles "extra"	2
Wheels "extra"	2
Whiffletrees "extra"	5
Bedsteads with bedding	23
Mantel bedsteads with bedding	2
Billiard table "complete"	1
Helmets	30
Necessary tools and equipments.	
" stable equipments.	
" extra parts of harnesses.	
" house furniture and fixtures.	
" telegraph apparatus.	
" gas fixtures.	
" supplies.	
" stationery.	

For detailed statement see Quarterly Report at Superintendent's Headquarters.

ACCIDENTS

To Members of the Department from March 1, 1888, to March 1, 1889.

1888.

July 21. A. F. Hall, sprained ankle at fire No. 14½ to No. 20 Harrison Avenue.

1889.

February 24. J. E. Thayer, injured by being thrown from Hook & Ladder 2, while responding to Box 632.

BOSTON FIREMEN'S RELIEF FUND.

The following amounts have been paid by the Trustees of the Boston Firemen's Relief Fund to sick and disabled members of the Boston Protective Department, during the year from March 1, 1888, to March 1, 1889: —

Patrolman Geo. H. Carter,	April 17, 1888	.	.	.	.	\$76.25
" " "	June 27, "	.	.	.	.	76.25
Substitute H. E. Thompson,	April 13, "	.	.	.	.	26.25
Patrolman D. W. Brown,	April 18, "	.	.	.	.	4.75
" F. O. Hinckley,	April 18, "	.	.	.	.	66.00
" " "	June 27, "	.	.	.	.	76.25
" " "	August 4, "	.	.	.	.	38.75
" " "	Sept. 10, "	.	.	.	.	38.75
" A. F. Hall,	April 18, "	.	.	.	.	67.00
" " "	Dec. 5, "	.	.	.	.	10.00
" J. T. Fitzgerald,	August 8, "	.	.	.	.	9.75
" G. W. Thompson,	April 18, "	.	.	.	.	7.00
Callman P. A. Garcia,	April 18, "	.	.	.	.	7.50
Lieutenant S. E. Smith,	August 8, "	.	.	.	.	12.40
Patrolman H. S. Kendall,	Dec. 5, "	.	.	.	.	10.05
<hr/>						
Total	.	.	.	.	.	\$526.95

BOSTON PROTECTIVE DEPARTMENT MUTUAL RELIEF ASSOCIATION.

The following amounts have been paid by Treasurer H. S. Kendall, to sick and disabled members of this department, during the year, from March 1, 1888, to March 1, 1889.

Patrolman G. W. Thompson,	April 2, 1888	.	.	.	.	\$10.00
Lieutenant S. E. Smith,	July 12 "	.	.	.	.	5.00
Patrolman H. S. Kendall,	Sept. 18 "	.	.	.	.	6.48
" G. H. Carter,	Nov. 18 "	.	.	.	.	10.00
" " "	Dec. 11 "	.	.	.	.	10.00
" " "	" 27 "	.	.	.	.	10.00
" " "	Jan. 8 "	.	.	.	.	5.00
" S. W. Ronimus,	" 19 "	.	.	.	.	10.00
Callman G. W. Dalton,	Feb. 2 "	.	.	.	.	10.00
Patrolman H. S. Kendall,	" 17 "	.	.	.	.	5.00
Total						<u>\$81.48</u>

TRUSTEES' REPORT.

Cash on hand March 1, 1888	.	.	.	.	.	.	\$10.00
December 8, 1888, donation	.	.	.	.	.	.	25.00
In hands of Trustees	.	.	.	.	.	.	<u>\$35.00</u>

Respectfully submitted,

J. EDWARD HOLLIS,	}	<i>Trustees.</i>
GEO. R. ROGERS,		
SAMUEL ABBOTT, JR.,		

Boston, Feb. 28, 1889.

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