

THE FIRE MARSHAL

FOR THE PROVINCE OF BRITISH COLUMBIA

FORTY-SECOND

ANNUAL REPORT

STATISTICS, 1963



Printed by A. SUTTON, Printer to the Queen's Most Excellent Majesty
in right of the Province of British Columbia.
1965

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FOR THE PROVINCE OF BRITISH COLUMBIA

FORTY-SECOND

ANNUAL REPORT

STATISTICAL YEAR



Printed by J. A. Brown, Printer to the Queen's Most Excellent Majesty
at the Office of the Fire Marshal, British Columbia
1902

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To Major-General the Honourable GEORGE RANDOLPH PEARKES,
V.C., P.C., C.B., D.S.O., M.C.,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Forty-second Annual Report of the Fire Marshal for the year ended December 31, 1963.

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REPORT OF THE FIRE MARSHAL

Report of the FIRE MARSHAL

March 1954 - March 31, 1954

The Honorable Robert F. Jensen, U.S.

Attorney General, Federal B.C.

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REPORT OF THE FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL,
VANCOUVER, B.C., March 31, 1964.

*The Honourable Robert W. Bonner, Q.C.,
Attorney-General, Victoria, B.C.*

SIR,—I beg to submit herewith the Forty-second Annual Report of the Fire Marshal for the year ended December 31, 1963. It is noted that there was a substantial decrease in deaths by fire, the number of fires, and financial loss in 1963.

Seventy-three persons—35 men, 15 women, and 23 children—died from the effects of fire in 1963, and while this shows a decrease as compared with the 1962 life loss, it leaves much to be desired. We continue to emphasize fire-prevention education in the hope of further reducing this tragic loss of life.

There were 6,915 fires during the year, compared with 7,612 for 1962, a decrease of 697. Financial losses during the year amounted to \$13,792,731, showing a \$554,139 decrease when compared with the 1962 financial loss of \$14,346,870.

One hundred and twenty-six meetings with Municipal Councils, fire and police departments were attended by members of the staff during the year. Numerous courses of instruction were held and assistance given to various departments of both Provincial and Federal Governments, notably the Indian Affairs Branch, this with a view to mitigating the life loss in Indian communities. Fire-prevention literature and films continue to be distributed and shown in an effort to educate the public and develop fire consciousness.

Five hundred and sixty-one sets of plans passed through our engineering office during the year. These plans included those submitted for the required Fire Marshal approval and also those submitted for fire-protection engineering advice. Numerous requests for assistance from the engineering and architectural professions were handled, and our activity in the field of radioactive isotopes continues to increase.

Our staff inspectors carried out 608 inspections throughout the Province during the year. Almost all of these inspections were made at the request of Local Assistants to the Fire Marshal, who, in addition, carried out 92,088 inspections in the normal course of duty. One hundred and ten orders for the correction of fire hazards were processed, and six of these were appealed to the Fire Marshal, none of which advanced to the Courts. There were 10 prosecutions under the *Fire Marshal Act* and regulations, resulting in nine convictions and one acquittal.

During the year 12 projectionists' examinations were held for first-, second-, and third-class licences. As a result, one first-class, eight second-class, and one third-class certificates were issued.

The fire-fighter training units continue to provide 18-hour instruction courses to all fire departments on request. During the year there were 347 visits to fire departments, and instruction was given to 40 departments and 578 fire-fighters.

I am pleased to report that instructions to the Fire Marshal, by virtue of the Civil Defence Order in Council No. 1200/62, requiring the preparation of a comprehensive plan and programme for fire-prevention and fire-fighting services, have been completed, and the plan is known as the "British Columbia Emergency Fire

Defence Plan." Further, pursuant to the same Order in Council, the Fire Marshal is prepared to take jurisdiction and authority over all fire-prevention and fire-fighting services when an emergency is declared by either the National Attack Warning System or the Lieutenant-Governor. While this plan is complete and various fire advisory councils and operational facets set up and numerous exercises held, the successful implementation will almost entirely depend upon an effective communications system not yet fully established.

It will be noted from Table I that 442 fires were investigated by members of the staff, an increase of 170 compared with 1962. These investigations resulted in 72 charges involving 72 persons and covering arson, setting fire to other substances, mischief, other crimes, and false alarms. There were 50 convictions, 15 acquittals, 6 referred to the Probation Officer, and 1 committed to the mental hospital. Thirty of those charged were juveniles, an increase of 8 over the previous year.

I would like to thank the members of the various fire and police departments, the British Columbia Research Council, the National Harbours Board, the civil defence organizations, and my own staff for their excellent co-operation during the year. I would also like to thank the members of the Royal Canadian Mounted Police, particularly those who are Local Assistants to the Fire Marshal, municipal police in the Province, Local Assistants to the Fire Marshal, insurance companies and their adjusters, and the Fire Underwriters Investigation Bureau for their co-operation during 1963.

I have the honour to be,

Sir,

Your obedient servant,

BASIL NIXON,

Fire Marshal.

TABLE I.—FIRE INVESTIGATIONS MADE BY THE OFFICE OF THE FIRE MARSHAL

Number of fires investigated	442
Number of charges laid—	
Adults	42
Juveniles	30
	— 72

Adults

	Convicted	Acquitted	Mental Health Act	Total
Arson	7	2	1	10
Setting fire to other substances	8	5	—	13
Mischief	2	—	—	2
Other crimes	12	—	—	12
False alarms	5	—	—	5
Totals	34	7	1	42

Juveniles

	Convicted	Acquitted	Probation	Total
Arson	7	—	6	13
Setting fire to other substances	6	2	—	8
Mischief	3	6	—	9
Totals	16	8	6	30

TABLE II.—INSPECTIONS MADE AND ORDERS ISSUED BY
LOCAL ASSISTANTS TO THE FIRE MARSHAL*City Municipalities (32)*

	Inspections	Orders		Inspections	Orders
Alberni	—	—	New Westminster	4,678	—
Armstrong	71	—	North Vancouver	2,781	—
Chilliwack	1,284	3	Penicton	422	—
Courtenay	70	—	Port Alberni	169	2
Cranbrook	721	2	Port Coquitlam	12	—
Dawson Creek	1,218	1	Port Moody	—	—
Duncan	94	—	Prince George	712	2
Enderby	40	1	Prince Rupert	366	—
Fernie	155	1	Revelstoke	381	—
Grand Forks	—	—	Rossland	—	—
Greenwood	—	—	Trail	1,131	—
Kamloops	—	—	Vancouver	40,749	14
Kelowna	1,193	2	Vernon	191	1
Kimberley	470	1	Victoria	10,683	—
Langley	27	—	White Rock	130	—
Nanaimo	1,071	1			
Nelson	720	1	Totals	69,539	32

District Municipalities (30)

Burnaby	8,619	21	Oak Bay	1,135	—
Central Saanich	—	—	Peachland	—	—
Chilliwack	565	—	Pitt Meadows	—	—
Coldstream	16	2	Powell River	—	—
Coquitlam	496	—	Richmond	234	1
Delta	1,201	5	Saanich	564	8
Esquimalt	195	—	Salmon Arm	—	—
Fraser Mills	—	—	Spallumcheen	—	—
Kent	—	—	Sumas	—	—
Kitimat	1,222	—	Summerland	—	—
Langley	64	3	Surrey	1,953	—
Maple Ridge	97	—	Tadouac	62	—
Matsqui	—	—	Terrace	236	2
Mission	—	—	West Vancouver	233	—
North Cowichan	272	—			
North Vancouver	888	—	Totals	18,052	42

Town Municipalities (4)

Fort St. John	—	—	Quesnel	—	—
Mission City	—	—			
North Kamloops	168	—	Totals	168	—

TABLE II.—INSPECTIONS MADE AND ORDERS ISSUED BY
LOCAL ASSISTANTS TO THE FIRE MARSHAL—Continued*Village Municipalities (62)*

	Inspections	Orders		Inspections	Orders
Abbotsford	43		Masset		
Acmoffield			Merritt		
Alert Bay			Montrose	46	
Ashcroft			Natal		
Burns Lake			New Denver	6	3
Campbell River	871	13	Oliver		
Castlegar			Osoyoos		
Chapman Camp			Parksville	166	
Chetwynd			Pemberton		
Clinton			Pouce Coupe		
Comox	76		Princeton		
Creston	1		Qualicum Beach		
Cumberland	10		Salmo	30	5
Fort St. James			Salmon Arm		
Fruitvale			Schult		
Gibsons Landing			Sidney		
Golden			Silverton		
Harrison Hot Springs			Stocan		
Hazelton			Smithers		
Hope			Squamish		
Houston			Stewart		
Invermere			Taylor		
Kaslo			Telkwa		
Keremeos			Tofino		
Kinnaird	182		Ucluelet		
Ladysmith			Valemount		
Lake Cowichan			Vanderhoof		
Lillooet			Warfield	26	
Lumby	71	2	Williams Lake	18	
Lytton			Zeballos		
McBride					
Marysville			Totals	1,546	23

Local Districts (2)

Cache Creek		10	
Guisachan			
Totals		10	

Fire Districts (19)

Cariboo, County of	61	2	Prince Rupert, County of	15	
Colwood			Sooke		
District Lot 172			University Area	1,153	
Ioco			Vancouver, County of	25	
Kelowna			Vernon		
Kootenay, County of	162		Victoria, County of	9	
Langford	21		View Royal		
Nanaimo, County of	25	1	Westminster, County of		
Ocean Falls	1,284		Yale, County of	18	
Prince George					
			Totals	2,773	3

	Inspections	Orders
Grand totals, 1963	92,088	100
Grand totals, 1962	88,441	192
Grand totals, 1961	93,826	196
Grand totals, 1960	95,259	154
Grand totals, 1959	91,330	498
Grand totals, 1958	91,959	647
Grand totals, 1957	86,684	975
Grand totals, 1956	80,145	875
Grand totals, 1955	78,523	825
Grand totals, 1954	78,284	801

TABLE III.—FIRES REPORTED

City Municipalities (32)

Districts Reporting	Number	Amount of Loss	Districts Reporting	Number	Amount of Loss
Alberni	25	\$57,050	New Westminster	184	\$99,950
Armstrong	3	254	North Vancouver	115	55,230
Chilliwack	21	7,143	Penticton	62	228,977
Courtenay	16	17,545	Port Alberni	38	48,931
Cranbrook	16	13,526	Port Coquitlam	22	302,517
Dawson Creek	36	83,009	Port Moody	9	33,736
Duncan	21	35,048	Prince George	64	35,651
Enderby	5	3,493	Prince Rupert	30	39,872
Fernie	10	1,810	Revelstoke	15	33,291
Grand Forks	5	4,505	Rossland	10	5,096
Greenwood	3	1,442	Trail	35	5,596
Kamloops	18	6,194	Vancouver	1,870	2,613,060
Kelowna	88	238,381	Vernon	36	114,759
Kimberley	16	5,849	Victoria	332	111,406
Langley	5	20,041	White Rock	14	12,823
Nanaimo	67	52,480			
Nelson	42	54,528	Totals	3,233	\$4,343,193

District Municipalities (30)

Burnaby	370	\$884,078	Oak Bay	84	\$22,480
Central Saanich	11	24,519	Peachland	5	16,308
Chilliwack	45	93,186	Pitt Meadows	5	4,370
Coldstream	10	28,238	Powell River	27	110,798
Coquitlam	72	89,909	Richmond	179	237,136
Delta	52	114,415	Saanich	268	122,378
Esquimalt	45	14,689	Salmon Arm	10	18,236
Fraser Mills			Spallumcheen	4	15,686
Kent	6	33,311	Sumas	10	18,963
Kitimat	41	35,871	Summerland	10	20,292
Langley	48	140,466	Surrey	300	371,262
Maple Ridge	49	244,149	Tadoussac	24	3,943
Matsqui	25	53,522	Terrace	28	32,585
Mission	24	59,213	West Vancouver	138	143,589
North Cowichan	24	73,136			
North Vancouver	199	188,109	Totals	2,113	\$3,214,837

Town Municipalities (4)

Fort St. John	16	\$229,929	Quesnel	24	\$23,252
Mission City	14	78,856			
North Kamloops	7	7,617	Totals	61	\$339,654

TABLE III.—FIRES REPORTED—*Continued**Village Municipalities (62)*

Districts Reporting	Number	Amount of Loss	Districts Reporting	Number	Amount of Loss
Abbotsford	9	\$612	Masset	—	—
Aennofield	4	2,571	Merritt	15	\$25,229
Alert Bay	—	—	Montrose	2	552
Ashcroft	3	2,021	Natal	1	101
Burns Lake	11	17,554	New Denver	—	—
Campbell River	16	194,893	Oliver	6	2,986
Castlegar	11	1,223	Osoyoos	—	—
Chapman Camp	1	60	Parksville	4	12,208
Chetwynd	5	10,038	Pemberton	1	27,832
Clinton	1	50	Pouce Coupe	2	358
Comox	5	2,210	Princeton	10	7,957
Creston	8	6,034	Qualicum Beach	4	1,395
Cumberland	4	8,905	Salmo	—	—
Fort St. James	1	400	Salmon Arm	2	2,481
Fruitvale	6	521	Sechelt	3	25,708
Gibsons Landing	3	84	Sidney	8	44,851
Golden	4	4,702	Silverton	—	—
Harrison Hot Springs	4	2,714	Stocan	6	9,941
Hazelton	—	—	Smithers	5	22,091
Hope	11	11,255	Squamish	—	—
Houston	2	6,074	Stewart	3	44,800
Invermere	1	94	Taylor	2	250
Kaslo	4	15,885	Telkwa	2	6,672
Keremeos	2	16,628	Tofino	2	751
Kinnaird	5	6,152	Ucluelet	—	—
Ladysmith	7	8,539	Valemount	6	12,626
Lake Cowichan	11	39,058	Vanderhoof	2	175
Lillooet	1	2,115	Warfield	13	17,131
Lumby	4	7,045	Williams Lake	—	—
Lytton	—	—	Zeballos	—	—
McBride	2	656	Totals	246	\$634,304
Marysville	1	56			

Local Districts (2)

Cache Creek	2	\$4,900
Gulfsachan	2	63
Totals	4	\$4,963

Fire Districts (19)

Cariboo, County of	325	\$1,956,577	Sooke	3	\$9,056
Colwood	14	2,024	University Area	24	4,029
District Lot 172	2	542	Vancouver, County of	82	363,718
Iloco	1	5	Vernon	—	—
Kelowna	16	1,925	Victoria, County of	58	199,904
Kootenay, County of	145	479,676	View Royal	16	10,584
Langford	15	27,938	Westminster, County of	54	196,369
Nanaimo, County of	197	1,002,967	Yale, County of	219	573,933
Ocean Falls	9	10,019	Totals	1,258	\$5,255,780
Prince George	—	—	Grand totals	6,915	\$13,792,731
Prince Rupert, County of	78	416,514			

TABLE III.—FIRES REPORTED—*Continued**Construction of Buildings Burned*

	Number	Amount of Loss
Fire Resistive—		
City municipalities	32	\$10,179
District municipalities	20	19,256
Town municipalities	—	—
Village municipalities	—	—
Local districts	—	—
Fire districts	12	482,563
Brick, concrete, or heavy timber—		
City municipalities	251	921,221
District municipalities	27	157,913
Town municipalities	3	2,121
Village municipalities	4	1,476
Local districts	—	—
Fire districts	6	66,944
Wood frame—		
City municipalities	2,286	3,198,301
District municipalities	1,640	2,855,409
Town municipalities	39	332,251
Village municipalities	190	610,683
Local districts	4	4,963
Fire districts	866	4,058,962
Metal or corrugated iron—		
City municipalities	664	213,492
District municipalities	426	182,259
Town municipalities	19	5,282
Village municipalities	52	22,145
Local districts	—	—
Fire districts	374	647,311
Totals	6,915	\$13,792,731

TABLE IV.—CAUSES OF FIRES

Causes of Fires	Total Number	Amount of Loss
Boilers or boiler pipes defective or overheated	6	\$20,265
Candles and open flames	61	16,238
Chemical explosion	2	459,982
Children playing with fire	15	20,604
Chimneys—		
Defective or overheated	137	\$163,886
Sparks from	42	81,837
Collision	179	245,723
Defective battery connection	9	19,868
Defective brooder	3	375
Defective oven	3	2,356
Defective wiring	2	7,548
Dust explosion	107	150,044
Electrical appliances and equipment (improper use of appliance or defective equipment)	5	1,532
Electrical wiring overloaded	356	634,421
Electro-welding equipment, sparks from	11	53,249
Engine back-firing	2	16,703
Exposure	182	96,740
Fireplaces—	135	384,507
Defective	13	\$21,614
Sparks from	116	57,435
Fireworks	129	79,049
Friction—	47	39,786
In brake drum	19	\$8,565
In conveyor belt	2	6,500
In machinery	5	12,449
In pulley	1	33,343
In tires	14	9,507
Totals	41	70,364

TABLE IV.—CAUSES OF FIRES—Continued

Causes of Fires	Total Number	Amount of Loss
Furnaces or furnace pipes—		
Combustible materials too near	17	\$7,645
Defective	5	3,604
Insufficiently protected	32	63,249
Sparks from	11	58,612
	65	\$133,110
Gas, liquefied petroleum—		
Explosion	4	\$4,513
Improper installation of appliance	1	150
Improper use of or defective equipment	4	102,257
	9	106,920
Gas, natural—		
Explosion	13	\$83,468
Improper installation of appliance	1	535
Improper use of or defective equipment	16	37,263
	30	121,266
Gasoline—		
Broken line	96	\$129,776
Carelessness with	59	65,444
On exhaust pipe	47	62,669
Pump damaged by motor-vehicle	4	2,353
Stoves, lamps, torches	27	74,939
Used in cleaning	2	18,163
Used to kindle fire	7	24,748
Vapour explosion	91	200,553
	333	578,645
Heat radiation	14	2,060
Hot ashes, coals, etc.	44	98,455
Hot grease, oil, tar, etc., ignition of	320	136,736
Incendiary	180	643,411
Inflammable vapours, ignition of	40	67,328
Kerosene—		
Carelessness with	3	\$2,659
Stoves, lamps, torches	2	1,665
	5	4,324
Lightning	43	38,170
Matches—		
Carelessness with	44	\$30,759
Children with	203	239,387
	247	270,146
Molten metal	8	3,159
Motor-vehicle upset	27	60,453
Oil burners—		
Defective	62	\$203,768
Defective equipment	66	60,978
Explosion	59	101,436
Sparks from	2	1,569
	189	367,751
Oxy-gas welding or cutting equipment, etc.—		
Defective	2	\$1,475
Improper use of	3	1,990
Sparks from	53	623,265
	58	626,730
Short circuit	604	847,920
Smokers' carelessness—		
In bed	240	\$219,327
In the home	1,043	519,234
In unlisted locations	562	316,720
While intoxicated	9	14,022
	1,854	1,069,303
Sparks from bonfire	91	165,338
Sparks from bush fire	4	88,679
Sparks from engine	2	15,003
Sparks from forge	1	17,320
Sparks from grinder	4	47,402
Sparks from mill burner	29	384,140
Spontaneous ignition	31	199,937
Steam pipes insufficiently protected	2	664

TABLE IV.—CAUSES OF FIRES—Continued

Causes of Fires	Total Number	Amount of Loss
Stoves or stove pipes—		
Combustible materials too near	151	\$119,392
Defective	22	67,122
Explosion	5	16,404
Insufficiently protected	114	222,309
Sparks from	27	63,686
	319	\$488,913
Sulphur, ignition of	3	481
Thawing pipes	15	33,207
Unknown	1,049	4,856,406
Totals	6,915	\$13,792,731

TABLE V.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES

Property	Causes	Amount of Loss
Aircraft	1	
Apartment	299	
	Unknown	1 \$18,000
	Chimneys—	
	Defective or overheated	6 \$4,185
	Sparks from	4 259
	Defective wiring	2 195
	Electrical appliances	19 18,797
	Exposure	3 15,155
	Fireplace, sparks from	2 50
	Furnaces or furnace pipes—	
	Combustible materials too near	1 105
	Insufficiently protected	1 522
	Gas, natural, improper use of or defective equipment	1 358
	Gasoline stoves, lamps, torches	6 49,664
	Heat radiation	2 277
	Hot ashes, coals, etc.	1 40
	Hot grease, oil, etc., ignition of	18 4,935
	Incendiary	9 622
	Inflammable vapours, ignition of	1 222
	Lightning	1 121
	Matches—	
	Carelessness	2 1,808
	Children with	7 1,661
	Oil burners—	
	Defective	2 641
	Defective equipment	5 4,689
	Explosion	2 285
	Short circuit	12 27,209
	Smokers' carelessness—	
	In bed	35 4,903
	In the home	97 59,781
	In unlisted locations	24 2,252
	While intoxicated	4 9,067
	Sparks from bonfire	2 48
	Stoves or stove pipes—	
	Combustible materials too near	8 1,599
	Insufficiently protected	1 45
	Unknown	21 97,319
Asphalt plants and tanks	4	306,814
	Defective wiring	1 \$600
	Hot tar, ignition of	1 760
	Short circuit	1 186
	Unknown	1 400
Bakeries	6	1,946
	Defective wiring	1 \$1,200
	Electrical appliances	1 166
	Hot grease, ignition of	1 50
	Oil-burner, explosion	1 604
	Oxy-gas welding or cutting equipment, sparks from	1 5
	Unknown	1 51,184
		\$3,209

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss
Banks	3	Hot ashes	1	\$111
		Smokers' carelessness	2	203
				\$314
Barber-shops and beauty parlours	7	Exposure	2	\$2,591
		Short circuit	1	182
		Smokers' carelessness	3	236
		Stove, combustible materials too near	1	237
				3,246
Barges and scows	1	Gasoline-vapour explosion	1	5,000
Barns and stables	41	Exposure	1	\$638
		Fireworks	1	4,500
		Gasoline, carelessness with	1	1,379
		Incendiary	3	6,117
		Matches, children with	2	1,110
		Smokers' carelessness	2	4,415
		Sparks from bonfire	4	5,500
		Sparks from mill burner	1	1,625
		Spontaneous ignition	9	66,430
		Stoves or stove pipes—		
		Defective	1	1,700
		Sparks from	1	4,000
		Unknown	15	123,269
				220,683
Bath-houses	2	Inflammable vapours, ignition of	1	\$1,232
		Stove insufficiently protected	1	5,075
				6,307
Blacksmith-shops	1	Sparks from grinder	1	15
Boarding-houses	2	Smokers' carelessness	2	284
Boat-building works	3	Exposure	1	\$1,000
		Heat radiation	1	50
		Unknown	1	22,199
				23,249
Boat-houses	3	Gasoline-vapour explosion	2	\$4,650
		Match carelessness	1	2,886
				7,536
Bowling-alleys	4	Inflammable vapours, ignition of	1	\$151
		Smokers' carelessness	1	327
		Unknown	2	2,693
				3,171
Bridges	1	Friction in machinery	1	9,429
Buildings under construction	9	Fireplace, sparks from	1	\$47
		Gas, liquefied petroleum, improper use of or defective equipment	1	1,300
		Gasoline stove	1	65
		Incendiary	1	50
		Inflammable vapours, ignition of	1	1,274
		Short circuit	1	4,395
		Sparks from bonfire	1	42
		Stove, combustible materials too near	1	571
		Unknown	1	250
				7,994
Bunk-houses	20	Chimney, sparks from	1	\$425
		Electrical appliances	1	64
		Electrical wiring overloaded	1	3,500
		Oil-burning equipment, defective	2	318
		Short circuit	2	1,000
		Smokers' carelessness	1	150
		Stoves or stove pipes—		
		Combustible materials too near	1	589
		Insufficiently protected	4	2,435
		Unknown	7	25,481
				33,962
Canneries (fruit)	1	Oxy-gas welding or cutting equipment, sparks from	1	275
Churches and church properties	14	Exposure	1	\$586
		Hot grease, ignition of	1	30
		Incendiary	4	8,805

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes	Amount of Loss
Club-houses (golf, yacht, etc.)	5	Oil burners—	
		Defective equipment	1 \$515
		Explosion	1 170
		Sparks from bonfire	1 50
		Spontaneous ignition	1 34,418
		Stove, combustible materials too near	1 30
Clubs	14	Unknown	3 56,078
		Short circuit	1 \$237
		Smokers' carelessness	2 488
		Unknown	2 13,550
		Defective wiring	1 \$8,784
		Electrical appliances	1 30
Coal and lumber yards	5	Exposure	1 991
		Gas, natural, explosion	1 307
		Matches, children with	1 326
		Smokers' carelessness	5 1,431
		Unknown	4 47,933
		Sparks from mill burner	5 59,802
Cold-storage plants	3	Exposure	1 \$70
		Lightning	1 137
		Unknown	1 5,103
		Inflammable vapours, ignition of	1 5,310
Compressors	1	Short circuit	1 19,415
Cook-houses	4	Stoves or stove pipes—	1 \$19,240
		Insufficiently protected	1 6,000
		Sparks from	1 3,500
		Unknown	1 8,625
		Oxy-gas welding or cutting equipment, sparks from	1 37,365
Copper-mills	1	Electrical appliances	1 963
Cranes	3	Oxy-gas welding or cutting equipment, sparks from	1 \$80
		Short circuit	1 725
		Thawing pipes	1 700
		Unknown	1 1,505
Dairies	2	Match carelessness	1 \$50
Dredges	4	Smokers' carelessness	1 732
		Sparks from bonfire	1 9
		Unknown	1 35
		Unknown	1 500
		Electrical appliances	2 866
Dry-cleaning plants	2	Candles and open flames	57 346,516
Dwellings	3,539	Chemical explosion	1 \$15,256
		Children playing with fire	13 204
		Chimneys—	13 12,157
		Defective or overheated	121 156,158
		Sparks from	31 56,663
		Defective wiring	31 94,538
		Electrical appliances	262 113,252
		Electrical wiring overloaded	7 13,331
		Exposure	40 61,350
		Fireplaces—	
		Defective	12 20,944
		Sparks from	112 57,265
		Fireworks	30 27,117
		Furnaces or furnace pipes—	
		Combustible materials too near	16 7,540
		Defective	5 3,604
		Insufficiently protected	21 60,476
		Sparks from	7 18,216
		Gas, natural—	
		Explosion	7 27,853
		Improper installation of appliance	1 535
		Improper use of or defective equipment	11 14,777

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes	Amount of Loss
		Gasoline—	
		Carelessness with	21 \$31,429
		Stoves, lamps, torches	16 22,529
		Used in cleaning	2 18,163
		Used to kindle fire	7 24,748
		Vapour explosion	8 11,869
		Heat radiation	6 1,431
		Hot ashes, coals, etc.	27 82,625
		Hot grease, oil, ignition of ..	269 91,316
		Incendiary	60 122,039
		Inflammable vapours, ignition of ..	16 23,331
		Kerosene—	
		Carelessness	3 2,659
		Stoves, lamps, torches	2 1,665
		Lightning	33 26,749
		Matches—	
		Carelessness	27 9,601
		Children with	124 169,383
		Molten metal	1 40
		Oil burners—	
		Defective	35 28,500
		Defective equipment	37 16,037
		Explosion	42 54,818
		Oxy-gas welding or cutting equipment, sparks from ..	1 1,061
		Short circuit	172 128,304
		Smokers' carelessness—	
		In bed	113 45,685
		In the home	934 455,085
		In unlisted locations	42 33,191
		While intoxicated	3 4,537
		Sparks from bonfire	33 24,271
		Sparks from bush fire	1 29,000
		Spontaneous ignition	9 20,321
		Stoves or stove pipes—	
		Combustible materials too near ..	122 74,216
		Defective	18 38,865
		Explosion	5 16,404
		Insufficiently protected	80 130,896
		Sparks from	22 39,028
		Thawing pipes	10 25,887
		Unknown	453 1,125,244
			\$3,692,153
Electric-light plants	8	Short circuit	2 \$3,969
		Unknown	6 16,553
Electric-light and telephone poles			20,522
Electrical manufacturing plants	1	Sparks from bonfire	1 2,181
	3	Defective oven	1 \$556
		Gasoline-vapour explosion	1 5,246
		Incendiary	1 900
			6,702
Electrical substations	1	Lightning	1 1,108
Elevators (grain)	3	Dust explosion	2 \$707
		Sparks from grinder	1 1,069
			1,776
Engines	2	Short circuit	1 \$346
		Unknown	1 1,300
			1,646
Factories (becom)	1	Exposure	1 6,000
Factories (candy)	1	Unknown	1 204
Factories (food products)	1	Unknown	1 13,000
Factories (furniture)	4	Friction in machinery	1 \$164
		Gas, natural, explosion	1 21
		Sparks from bonfire	1 206
		Spontaneous ignition	1 1,935
			2,326
Factories (industrial equipment)	1	Steam pipe insufficiently protected ..	1 264
Factories (paint)	1	Inflammable vapours, ignition of ..	1 2,548

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss
Factories (paper products) ..	2	Electrical appliances	1	\$247
		Hot grease, ignition of	1	200
Factories (rock-wool insulation) ..	3	Molten metal	1	\$2,439
		Short circuit	1	419
		Unknown	1	300
				3,158
Factories (sash and door) ..	4	Chimney, sparks from	1	\$100
		Dust explosion	1	250
		Unknown	2	55,386
Factories (veneer and plywood) ..	3	Dust explosion	1	\$500
		Oxy-gas welding or cutting equipment, sparks from ..	1	1,097
		Unknown	1	4,300
				5,897
Factories (wood box) ..	1	Unknown	1	30,997
Fences	18	Exposure	2	\$350
		Incendiary	1	10
		Matches—		
		Carelessness	1	30
		Children with	1	20
		Short circuit	1	18
		Smokers' carelessness	5	257
		Sparks from bonfire	3	149
		Unknown	4	160
				994
Fire and police stations ..	3	Hot grease, ignition of	1	\$75
		Short circuit	1	38
		Smokers' carelessness	1	30
				143
Fish hatcheries	1	Unknown	1	2,494
Fishing-boats	55	Engine back-firing	4	\$7,100
		Gasoline—		
		Broken line	2	9,123
		On exhaust pipe	1	264
		Vapour explosion	24	79,825
		Incendiary	1	278
		Oil burners—		
		Defective	2	7,600
		Defective equipment	1	12,000
		Oxy-gas welding or cutting equipment, sparks from ..	1	300
		Short circuit	5	31,815
		Stove insufficiently protected	2	7,650
		Unknown	12	35,031
				190,986
Flour, feed, and rice mills ..	1	Electrical appliances	1	100
Foundries	5	Hot grease, oil, ignition of	2	\$275
		Smokers' carelessness	1	186
		Unknown	2	7,107
				7,568
Garages (private)	116	Chimney, defective	1	\$15
		Defective wiring	2	2,156
		Electro-welding equipment, sparks from ..	1	109
		Engine back-firing	1	1,800
		Exposure	10	6,593
		Fireworks	3	5,247
		Gasoline—		
		Carelessness with	2	814
		Vapour explosion	1	50
		Incendiary	16	21,053
		Matches, children with	11	8,950
		Open flame	1	312
		Oxy-gas welding or cutting equipment, sparks from ..	7	22,024
		Short circuit	6	28,057
		Smokers' carelessness	3	1,640
		Sparks from bonfire	4	245
		Spontaneous ignition	1	815

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss	
		Stoves or stove pipes—			
		Combustible materials too near	1	\$333	
		Insufficiently protected	3	2,250	
		Unknown	42	44,911	
Garages (public)	40				\$147,374
		Chimney, defective	1	\$132	
		Electro-welding equipment, sparks from	1	16,594	
		Exposure	2	1,145	
		Friction in tires	1	50	
		Furnace insufficiently protected	1	849	
		Gasoline—			
		Broken line	1	183	
		Carelessness	1	13,226	
		Vapour explosion	4	29,818	
		Inflammable vapours, ignition of	2	679	
		Oil burners—			
		Defective	1	111,388	
		Defective equipment	3	3,587	
		Explosion	1	140	
		Oxy-gas welding or cutting equipment, sparks from	3	4,684	
		Short circuit	4	113,169	
		Smokers' carelessness	1	30,168	
		Sparks from bonfire	1	200	
		Stove, defective	1	1,260	
		Unknown	11	332,005	
Gas-manufacturing plants	1	Oil-burner explosion	1		659,277
Gasoline service stations	21	Chimney, defective	1	\$67	1,600
		Defective wiring	1	111	
		Gasoline—			
		Carelessness with	1	622	
		Pump damaged by motor-vehicle	3	1,353	
		Vapour explosion	2	240	
		Inflammable vapours, ignition of	2	700	
		Matches, children with	1	10	
		Oil-burning equipment, defective	1	4,750	
		Oxy-gas welding or cutting equipment, sparks from	3	6,505	
		Short circuit	2	6,342	
		Thawing pipes	1	10	
		Unknown	3	3,136	
Grandstands	1	Matches, children with	1		23,846
Gravel plants	2	Oxy-gas welding or cutting equipment—			173
		Sparks from	1	\$600	
		Unknown	2	23,770	
Greenhouses	5	Boiler, defective	1	\$8,100	24,370
		Gasoline carelessness	1	100	
		Oil-burning equipment, defective	1	1,630	
		Short circuit	1	200	
		Stove, combustible materials too near	1	237	
Halls	9	Incendiary	1	\$36,190	10,267
		Matches, children with	1	20	
		Oil-burner explosion	1	606	
		Smokers' carelessness	3	24,707	
		Stove insufficiently protected	1	361	
		Unknown	2	10,045	
Hospitals, institutions, and nursing homes	46				71,929
		Electrical appliances	4	\$572	
		Incendiary	4	295	
		Inflammable vapours, ignition of	1	100	
		Lightning	1	1,664	
		Match carelessness	2	230	
		Oil burners—			
		Defective	1	402	
		Defective equipment	1	249	
		Short circuit	2	75	

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—Continued

Property		Causes	Amount of Loss
		Smokers' carelessness—	
		In bed	12 \$444
		In unlisted locations	14 793
		Thawing pipes	1 65
		Unknown	3 152
Hospitals (animal)	2	Short circuit	1 \$15
		Unknown	1 15
Hotels	107	Chimney, sparks from	1 \$35
		Electrical appliances	4 25,152
		Fireplace, sparks from	1 73
		Furnace insufficiently protected	1 223
		Hot grease, ignition of	1 730
		Incendiary	3 244
		Oil burners—	
		Defective	1 247
		Defective equipment	1 1,880
		Short circuit	3 981
		Smokers' carelessness—	
		In bed	54 148,798
		In unlisted locations	24 3,868
		While intoxicated	1 393
		Stove, combustible materials too near	2 4,306
		Unknown	10 225,969
Laboratories (research)	1	Stove insufficiently protected	1 412,899
Launches and other small craft	29	Engine back-firing	2 \$2,400
		Exposure	5 27,820
		Gasoline—	
		Broken line	2 5,659
		Carelessness with	1 460
		Vapour explosion	8 43,997
		Incendiary	1 30
		Short circuit	2 20,057
		Smokers' carelessness	1 260
		Unknown	7 50,384
Laundries	12	Boiler, defective	1 \$1,066
		Electrical appliances	4 720
		Fireworks	1 55
		Gas, natural, improper use of or defective equipment	1 150
		Gasoline carelessness	1 79
		Unknown	4 10,891
Libraries	1	Unknown	1 12,961
Logging camps	20	Friction in pulley	1 70
		Gasoline-line, broken	1 \$33,343
		Lightning	1 25,500
		Oil burner, defective	1 1,099
		Oxy-gas welding or cutting equipment, sparks from	1 350
		Sparks from bonfire	2 43,448
		Sparks from bush fire	2 101,520
		Sparks from grinder	2 58,175
		Unknown	10 59,686
Machine-shops	12	Chimney, defective	1 \$391
		Incendiary	1 125
		Oxy-gas welding or cutting equipment, improper use of	1 1,930
		Short circuit	2 86,025
		Smokers' carelessness	1 19,000
		Sparks from forge	1 17,320
		Sparks from grinder	2 46,318
		Unknown	3 78,450
Meat-packing plants	1	Hot grease, ignition of	1 249,559
Medical clinics	1	Oil burner, defective	1 276
Mines and mining properties	3	Lightning	1 685
			1 \$425

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes	Amount of Loss
Motor courts	56	Oxy-gas welding or cutting equipment, sparks from	1 \$8,525
		Short circuit	1 2,550
		Candle carelessness	1 \$54
		Electrical appliances	3 163
		Furnace insufficiently protected	1 40
		Gasoline stove	1 204
		Hot grease, ignition of	2 2,722
		Incendiary	1 10
		Inflammable vapours, ignition of	1 1,463
		Match carelessness	1 7,506
		Oil burner, defective	1 110
		Short circuit	2 27,845
		Smokers' carelessness—	
		In bed	5 1,784
		In unlisted locations	19 14,832
		Stoves or stove pipes—	
		Combustible materials too near	8 6,247
Insufficiently protected	3 759		
Unknown	7 243,581		
			307,300
Motor-vehicles (*1,471)—			
Automobiles, passenger — 1,127			
		Collision	8 \$5,868
		Defective battery connection	3 375
		Defective wiring	48 5,028
		Electrical appliances	15 1,603
		Engine back-firing	133 36,281
		Exposure	16 7,820
		Fireworks	6 653
		Friction—	
		In brake-drum	12 4,694
		In tires	10 7,491
		Gasoline—	
		Broken line	64 21,190
		Carelessness	11 3,028
		On exhaust pipe	23 10,485
		Vapour explosion	27 6,911
		Heat radiation	4 230
		Hot ashes, coals, etc.	1 20
		Hot grease, oil, etc., ignition of	2 45
		Incendiary	18 17,132
		Inflammable vapours, ignition of	2 341
		Matches—	
		Carelessness with	3 1,785
		Children with	9 298
		Motor-vehicle upset	19 14,589
		Oxy-gas welding or cutting equipment, sparks from	3 326
		Short circuit	249 42,754
		Smokers' carelessness	293 37,282
		Sparks from bonfire	1 38
		Thawing pipes	1 1,495
		Unknown	146 46,956
			\$274,718
Buses	6	Engine back-firing	1 \$581
		Friction in brake drum	1 300
		Oxy-gas welding or cutting equipment improper use of	1 50
		Short circuit	1 20
		Smokers' carelessness	1 30
		Unknown	1 25
			\$1,006
Motor-cycles	17	Engine back-firing	9 \$1,330
		Gasoline—	
		Broken line	1 50
		Carelessness with	2 750
		On exhaust pipe	2 375

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes	Amount of Loss
Motor-vehicles— <i>Continued</i> Tractors (bulldozers, graders, etc.)	88	Short circuit	1 \$31
		Unknown	2 291
			\$2,827
		Children playing with fire	1 \$200
		Electrical appliances	1 3,685
		Engine back-firing	11 10,052
		Exposure	1 2,000
		Gas, liquefied petroleum, improper use of or defective equipment	1 422
		Gasoline—	
		Broken line	8 39,250
		Carelessness with	12 4,378
		On exhaust pipe	3 3,350
		Vapour explosion	6 6,094
		Match carelessness	1 1,456
		Oxy-gas welding or cutting equipment, sparks from	1 970
		Short circuit	13 40,870
		Sparks from bonfire	4 1,403
		Sulphur, ignition of	1 91
		Unknown	24 103,324
			\$217,545
Trailers and semi-trailers	18	Collision	1 \$14,000
		Friction in brake drum	2 250
		Incendiary	2 5,052
		Matches, children with	1 1,692
		Motor-vehicle upset	1 18,000
		Short circuit	5 66,797
		Unknown	6 24,736
			\$130,527
Trucks	215	Defective wiring	11 \$938
		Electrical appliances	2 113
		Engine back-firing	19 36,271
		Exposure	7 8,023
		Friction—	
		In brake drum	4 3,321
		In tires	3 1,966
		Gas liquefied petroleum, explosion	1 1,850
		Gasoline—	
		Broken line	16 28,796
		Carelessness with	2 1,600
		On exhaust pipe	17 48,033
		Vapour explosion	3 540
		Hot ashes, etc.	4 180
		Hot oil, ignition of	1 72
		Incendiary	3 810
		Inflammable vapours, ignition of	2 181
		Matches—	
		Carelessness with	1 30
		Children with	1 300
		Molten metal	1 350
		Motor-vehicle upset	7 27,864
		Oxy-gas welding or cutting equipment—	
		Defective	1 1,400
		Sparks from	1 416
		Short circuit	50 27,332
		Smokers' carelessness	6 819
		Sparks from bonfire	2 2,183
		Unknown	50 55,015
			\$248,403

*\$875,026

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—Continued

Property		Causes		Amount of Loss
Mushroom-houses	4	Short circuit	1	\$11,480
		Stove insufficiently protected	1	1,529
		Unknown	2	4,671
				\$17,680
Offices	36	Electrical appliances	3	\$506
		Exposure	2	7,790
		Incendiary	3	2,193
		Inflammable vapours, ignition of	1	161
		Matches—		
		Carelessness with	1	277
		Children with	1	277
		Oil burners—		
		Defective	1	461
		Explosion	2	948
		Short circuit	6	1,304
		Smokers' carelessness	5	3,508
		Sparks from bonfire	2	104
		Spontaneous ignition	2	5,778
		Unknown	7	20,528
				43,835
Oil-houses	2	Exposure	1	\$100
		Hot ashes	1	15
				115
Oil or gas wells	1	Gas, natural, explosion	1	38,500
Paper and pulp mills	7	Boiler defective	1	\$6,003
		Chemical explosion	1	459,778
		Electrical appliances	1	300
		Electrical wiring overloaded	1	6,597
		Oil-burner explosion	1	40,000
		Steam pipes insufficiently protected	1	400
		Unknown	1	1,897
				\$514,975
Peat plants	2	Spontaneous ignition	2	38,677
Piggeries	1	Unknown	1	200
Poolrooms	2	Electrical appliances	1	\$57
		Unknown	1	162
				219
Poultry-houses	21	Defective brooder	3	\$2,356
		Electrical appliances	1	659
		Exposure	1	4,936
		Hot ashes, coals, etc.	1	14,216
		Matches, children with	3	235
		Oil burner, defective	1	3,300
		Short circuit	2	3,691
		Sparks from bonfire	3	1,925
		Unknown	6	22,619
				53,937
Power-houses	8	Hot ashes, coals, etc.	1	\$125
		Short circuit	2	44,141
		Unknown	5	10,147
				54,413
Power-saws	1	Engine back-firing	1	175
Power-shovels	1	Gasoline on exhaust pipe	1	162
Printing plants	3	Hot oil	1	\$2,140
		Inflammable vapours, ignition of	1	76
		Oil-burner explosion	1	140
				2,356
Pumps and pump-houses	4	Electrical appliances	1	\$400
		Electrical wiring overloaded	1	987
		Short circuit	1	1,639
		Unknown	1	90
				3,116
Radio stations	1	Short circuit	1	1,447
Railroad rolling-stock	6	Gasoline stove	1	\$200
		Oil burner, defective	1	425
		Oxy-gas welding or cutting equipment, sparks from	1	300
		Stove insufficiently protected	1	200
		Unknown	2	1,308
				2,433

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—Continued

Property		Causes		Amount of Loss
Refineries (gasoline, natural gas, or oil)	2	Inflammable vapours, ignition of	2	\$11,304
Restaurants	42	Chimney, defective	1	\$129
		Defective wiring	2	4,550
		Electrical appliances	1	50
		Furnace insufficiently protected	1	337
		Gas, liquefied petroleum—		
		Explosion	1	600
		Improper use of or defective equipment	1	535
		Gas, natural, explosion	1	1,321
		Hot grease, oil, tar, etc., ignition of	11	25,113
		Incendiary	1	28
		Oil-burning equipment, defective	1	523
		Short circuit	4	6,253
		Smokers' carelessness	7	58,492
		Stove insufficiently protected	3	398
		Unknown	7	107,430
				205,759
Rinks (curling)	1	Sparks from bonfire	1	100
Rinks (ice skating)	2	Chimney, defective	1	\$250
		Unknown	1	104
				354
Rooming-houses	46	Chimneys—		
		Defective or overheated	2	\$226
		Sparks from	1	15
		Defective wiring	2	12,340
		Electrical appliances	2	3,777
		Fireplace, defective	1	670
		Furnace insufficiently protected	1	23
		Gas natural, explosion	1	35
		Hot ashes	1	168
		Hot grease	1	317
		Incendiary	1	314
		Short circuit	3	849
		Smokers' carelessness—		
		In bed	10	2,324
		In unlisted locations	13	1,226
		While intoxicated	1	35
		Stove, combustible materials too near	1	3,209
		Unknown	5	24,737
				50,265
Sawmills	85	Boiler, defective	1	\$555
		Electrical appliances	3	66,034
		Friction—		
		In conveyor belt	2	6,500
		In machinery	3	2,856
		Furnace, sparks from	2	40,097
		Lightning	1	979
		Matches, children with	1	5
		Oil burners—		
		Defective	1	1,254
		Sparks from	2	1,569
		Oxy-gas welding or cutting equipment, sparks from	11	470,422
		Short circuit	3	41,336
		Smokers' carelessness	2	1,873
		Sparks from bonfire	1	6,000
		Sparks from bush fire	1	1,504
		Sparks from engine	2	15,003
		Sparks from mill burner	20	314,169
		Unknown	29	653,064
				1,623,220
Schools	34	Chimney, sparks from	1	\$52
		Electrical appliances	3	18,004
		Exposure	1	582
		Gas liquefied petroleum, improper use of or defective equipment	1	100,000
		Incendiary	12	280,953
		Match carelessness	2	4,518
		Oil burners—		
		Defective equipment	3	812
		Explosion	2	595

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss
		Smokers' carelessness	5	\$312
		Stoves or stove pipes—		
		Combustible materials too near	1	27,579
		Insufficiently protected	1	1,197
		Unknown	2	13,000
				\$447,604
Sheds	120	Boiler, defective or overheated	1	\$691
		Candle carelessness	1	566
		Chimneys—		
		Defective	1	2,000
		Sparks from	1	300
		Defective wiring	2	2,029
		Exposure	1	560
		Fireworks	2	1,854
		Gasoline—		
		Carelessness	1	75
		Vapour explosion	1	25
		Hot ashes, coals, etc.	3	235
		Incendiary	12	5,817
		Inflammable vapours, ignition of	1	15
		Matches, children with	21	8,601
		Oil burners—		
		Defective	1	446
		Defective equipment	1	430
		Explosion	1	177
		Oxy-gas welding or cutting equipment, sparks from	1	35
		Short circuit	2	305
		Smokers' carelessness	9	4,444
		Sparks from bonfire	16	6,553
		Sparks from mill burner	1	300
		Spontaneous ignition	1	200
		Stoves or stove pipes—		
		Combustible materials too near	1	42
		Insufficiently protected	4	4,724
		Sparks from	1	100
		Unknown	33	20,052
				60,576
Sheet-metal works	4	Exposure	1	\$14,210
		Furnace insufficiently protected	1	99
		Spontaneous ignition	2	2,186
				16,495
Shingle-mills	6	Boiler defective	1	\$3,850
		Electrical appliances	1	275
		Exposure	1	697
		Molten metal	1	25
		Sparks from mill burner	1	62,480
		Unknown	1	40,743
				108,070
Ships	4	Oxy-gas welding or cutting equipment, sparks from	2	\$6,500
		Smokers' carelessness	2	12,478
				18,978
Shipyards	4	Oxy-gas welding or cutting equipment, sparks from	2	\$749
		Short circuit	1	571
		Smokers' carelessness	1	605
				1,925
Smelting plants	19	Electrical appliances	4	\$17,825
		Furnace insufficiently protected	1	10
		Lightning	1	800
		Molten metal	4	305
		Oil-burning equipment, defective	1	45
		Oxy-gas welding or cutting equipment—		
		Improper use of or defective equipment	1	10
		Sparks from	1	25
		Short circuit	4	100
		Sulphur, ignition of	1	140
		Unknown	1	5,863
				25,123

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss
Smoke-houses	1	Hot grease, ignition of	1	\$237
Steam baths	1	Stove insufficiently protected	1	125
Steel-fabricating plants	1	Inflammable vapours, ignition of	1	4,023
Stores	138	Children playing with fire	1	\$8,247
		Dust explosion	1	75
		Electrical appliances	2	447
		Exposure	19	106,713
		Fireworks	4	360
		Gas natural, explosion	2	15,454
		Hot grease, ignition of	2	127
		Incendiary	9	32,502
		Inflammable vapours, ignition of	1	77
		Matches, children with	8	30,565
		Oil burners—		
		Defective	4	29,500
		Defective equipment	1	501
		Short circuit	12	14,720
		Smokers' carelessness	39	9,192
		Sparks from bonfire	1	25
		Spontaneous ignition	3	29,177
		Stoves or stove pipes—		
		Combustible materials too near	1	75
		Defective	1	24,365
		Insufficiently protected	1	21,899
		Sparks from	1	500
		Unknown	25	197,599
				522,120
Stores and apartments	38	Chimney, sparks from	1	\$23,988
		Defective oven	1	6,992
		Electrical appliances	1	4,489
		Exposure	2	9,193
		Furnace insufficiently protected	1	276
		Hot ashes	2	550
		Hot grease, ignition of	1	69
		Incendiary	2	3,547
		Matches, children with	3	12,080
		Oil-burning equipment, defective	1	330
		Oxy-gas welding or cutting equipment, sparks from	1	15
		Smokers' carelessness	13	2,192
		Sparks from bonfire	1	3,189
		Stove insufficiently protected	1	2,837
		Unknown	7	31,680
				101,427
Stores and dwellings	19	Defective wiring	1	\$12,500
		Electrical appliances	1	1,200
		Electrical wiring overloaded	1	28,834
		Gasoline carelessness	1	7,189
		Incendiary	2	450
		Lightning	1	5,000
		Short circuit	3	3,032
		Smokers' carelessness	4	14,182
		Stove insufficiently protected	1	24,179
		Unknown	4	31,020
				127,596
Stores and offices	17	Electrical appliances	1	\$4,615
		Exposure	2	74,290
		Furnace insufficiently protected	1	40
		Gasoline-vapour explosion	1	819
		Incendiary	3	9,386
		Short circuit	3	891
		Smokers' carelessness	5	849
		Unknown	1	777
				91,667
Stores and rooms	22	Electrical appliances	1	\$385
		Exposure	4	14,942
		Incendiary	2	38,443
		Short circuit	1	7,289
		Smokers' carelessness	11	42,608
		Unknown	3	159,421
				263,088

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss	
Telephone exchanges	1	Electrical appliances	1		\$850
Tents	5	Chimney, defective	1	\$333	
		Gasoline carelessness	1	200	
		Heat radiation	1	72	
		Smokers' carelessness	1	84	
		Stove, combustible materials too near	1	122	
Theatres	3	Electrical appliances	1	\$1,008	
		Oxy-gas welding or cutting equipment, sparks from	1	3,394	
		Smokers' carelessness	1	20	
Trailers (house)	44	Candle carelessness	1	\$50	
		Defective wiring	1	75	
		Electrical appliances	3	1,339	
		Furnace, sparks from	1	275	
		Gas, liquefied petroleum, explosion	2	2,063	
		Gas, natural, improper use of or defective equipment	1	21	
		Hot grease, ignition of	1	5,267	
		Incendiary	1	250	
		Lightning	1	88	
		Matches, children with	3	155	
		Oil burners—			
		Defective	7	12,544	
		Defective equipment	4	3,682	
		Explosion	3	1,353	
		Short circuit	3	502	
		Smokers' carelessness	4	313	
		Sparks from bonfire	1	2,128	
		Stove insufficiently protected	2	6,530	
		Thawing pipes	1	5,700	
		Unknown	4	6,183	
Tugboats	5	Gasoline-vapour explosion	1	\$4,000	\$48,518
		Oil burners—			
		Defective	1	5,915	
		Defective equipment	1	9,000	
		Short circuit	1	22,300	
		Unknown	1	2,000	
Warehouses	36	Defective wiring	1	\$5,000	
		Electrical appliances	2	941	
		Exposure	5	7,662	
		Gas, liquefied petroleum, improper installation of appliance	1	150	
		Gas, natural, improper use of or defective equipment	1	21,934	
		Gasoline—			
		Pump damaged by motor-vehicle	1	1,000	
		Stove	1	35	
		Vapour explosion	1	1,469	
		Hot ashes	1	170	
		Hot grease, oil, ignition of	1	2,000	
		Incendiary	2	49,766	
		Matches, children with	2	276	
		Short circuit	2	4,392	
		Smokers' carelessness	2	145	
		Sparks from bonfire	3	4,131	
		Sparks from mill burner	1	55	
		Unknown	9	326,797	
Welding-machines	3	Engine back-firing	1	\$750	
		Oxy-gas welding or cutting equipment, defective	1	75	
		Short circuit	1	500	
Welding-shops	4	Oxy-gas welding or cutting equipment—			
		Sparks from	3	\$3,872	
		Unknown	1	259	
					4,131

TABLE V.—CLASSIFICATION OF PROPERTY BURNED
AND CAUSES—*Continued*

Property		Causes		Amount of Loss
Wharves	7	Gasoline—		
		Carelessness with	1	\$140
		Stove	1	2,242
		Match carelessness	1	310
		Oxy-gas welding or cutting equipment, sparks from	1	45,829
		Smokers' carelessness	1	25
		Sulphur, ignition of	1	250
		Unknown	1	86,420
				\$135,216
Woodworking plants	3	Furnace, sparks from	1	\$24
		Smokers' carelessness	2	7,071
				7,095
Workshops	12	Exposure	1	\$700
		Furnace insufficiently protected	1	354
		Inflammable vapours, ignition of	1	35
		Matches, children with	1	3,250
		Sparks from bonfire	1	3,112
		Stoves or stove pipes—		
		Defective	1	932
		Insufficiently protected	1	100
		Sparks from	1	16,558
		Unknown	4	12,831
				37,872
Totals	6,915			\$13,792,731

TABLE VI.—SUMMARY

Fires Reported

	City Municipal- ities (32)	District Municipal- ities (30)	Town Municipal- ities (4)	Village Municipal- ities (62)	Local Districts (2)	Fire Districts (19)	Total
1963							
January	324	239	3	35	.....	147	748
February	228	153	2	18	.....	77	478
March	263	168	6	37	1	88	563
April	237	164	5	14	.....	106	526
May	298	193	4	14	.....	93	602
June	232	168	5	26	.....	113	544
July	262	139	4	20	.....	97	522
August	296	168	3	11	.....	104	582
September	273	171	5	8	.....	84	541
October	230	169	10	17	2	108	536
November	267	163	8	20	.....	123	581
December	323	218	6	26	1	118	692
Totals	3,233	2,113	61	246	4	1,258	6,915

Amount of Loss

1963							
January	\$372,045	\$453,582	\$221	\$219,861	.....	\$451,741	\$1,497,450
February	238,990	191,401	2,037	4,616	.....	250,820	687,864
March	807,016	311,097	93,648	64,535	\$26	526,001	1,802,323
April	250,853	135,026	13,404	20,834	.....	285,283	705,400
May	437,893	247,223	192,553	20,772	.....	399,484	1,297,425
June	193,700	616,789	3,764	71,386	.....	607,484	1,493,123
July	342,175	118,972	977	50,707	.....	380,686	893,517
August	267,940	358,733	6,869	34,318	.....	285,320	953,180
September	241,537	183,176	2,073	11,901	.....	375,955	814,642
October	272,545	165,652	6,742	52,183	437	914,540	1,412,099
November	653,999	135,873	8,071	23,144	.....	353,093	1,174,180
December	265,000	297,313	9,295	60,047	4,500	425,373	1,061,528
Totals	\$4,343,193	\$3,214,837	\$339,654	\$634,304	\$4,963	\$5,255,780	\$13,792,731

TABLE VII.—TEN-YEAR COMPARATIVE STATEMENT
OF FIRE LOSSES

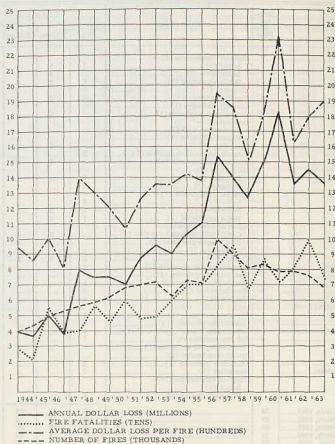
	City Municipalities		District Municipalities		Town Municipalities		Village Municipalities	
	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses
1963	3,233	\$4,343,193	2,113	\$3,214,837	61	\$339,654	246	\$634,304
1962	3,570	3,966,380	2,270	2,275,737	79	61,020	261	720,592
1961	3,788	5,775,054	2,386	2,312,942	74	91,151	292	816,261
1960	3,823	8,177,601	2,324	3,319,569	51	124,547	301	382,782
1959	4,097	5,361,352	2,487	3,026,143	45	187,388	350	1,045,840
1958	4,101	4,532,740	2,381	2,279,087	35	49,173	312	718,375
1957	4,050	4,789,896	2,197	3,223,907	—	—	317	491,843
1956	4,251	4,812,453	1,999	3,437,286	—	—	325	813,436
1955	4,273	3,546,272	1,866	2,168,413	—	—	313	521,498
1954	4,075	3,202,716	1,728	2,571,833	—	—	307	503,161
Totals	39,261	\$48,507,657	21,751	\$27,829,754	345	\$852,933	3,024	\$6,648,092

	Local Districts		Fire Districts		Total	
	Fires	Losses	Fires	Losses	Fires	Losses
1963	4	\$4,963	1,258	\$5,255,780	6,915	\$13,792,731
1962	2	440	1,430	7,322,701	7,612	14,346,870
1961	—	—	1,309	4,499,526	7,849	13,494,934
1960	—	—	1,323	6,285,884	7,822	18,290,183
1959	—	—	1,289	5,238,829	8,268	14,859,552
1958	—	—	1,234	5,123,019	8,063	12,702,394
1957	—	—	1,233	6,028,982	7,797	14,534,628
1956	—	—	1,263	6,245,570	7,838	15,308,745
1955	—	—	1,191	4,653,437	7,643	10,889,620
1954	—	—	984	3,899,992	7,094	10,177,702
Totals	6	\$5,403	12,514	\$54,553,720	76,901	\$138,397,559

TABLE VIII.—LOSS OF LIFE, 1954-63

Occupancy	Number of Fires	Cause of Fire	Loss of Life			
			Men	Women	Children	Total
Apartments	7	Smokers' carelessness (6)—				
		In bed (3)	2	1	—	3
		In the home (2)	—	1	1	2
		While intoxicated (1)	1	1	—	2
		Unknown (1)	1	—	—	1
Dwellings	30	Candle carelessness (1)	—	1	—	1
		Chimney, defective (1)	—	—	1	1
		Gas, natural, explosion (1)	—	1	—	1
		Gasoline (2)—				
		Carelessness with (1)	—	—	1	1
		Vapour explosion (1)	—	—	1	1
		Incendiary (1)	—	1	—	1
		Inflammable vapours, ignition of (2)	2	—	—	2
		Matches, children with (1)	—	1	2	3
		Oil burners (2)—				
		Defective (1)	1	—	—	1
		Explosion (1)	—	—	1	1
		Smokers' carelessness (8)—				
		In bed (3)	3	—	—	3
		In the home (2)	1	2	—	3
		While intoxicated (3)	1	2	—	3
		Stoves or stove pipes (6)—				
		Combustible materials too near (3)	—	2	1	3
		Insufficiently protected (2)	1	—	4	4
		Sparks from (1)	2	1	—	3
		Unknown (5)	1	—	8	11
Fishing-boats	1	Gasoline-vapour explosion (1)	1	—	—	1
Gas wells	1	Gas, natural, explosion (1)	2	—	—	2
Hospitals	1	Smoker's carelessness (1)	1	—	—	1
Hotels	3	Smoking in bed (2)	4	—	—	4
		Unknown (1)	4	—	—	4
Motor-vehicles (2)—						
Passenger	1	Motor-vehicle upset (1)	1	—	—	1
Tractor	1	Gasoline carelessness (1)	1	—	—	1
Oil refineries	1	Inflammable vapours, ignition of (1)	1	—	—	1
Outdoors	4	Fell into campfire (1)	1	—	—	1
		Gasoline-vapour explosion (1)	—	—	1	1
		Sparks from bonfire (2)	—	—	2	2
Pulp-mills	1	Oil-burner explosion (1)	2	—	—	2
Rooming-houses	3	Incendiary (1)	1	—	—	1
		Smokers' carelessness (2)—				
		In bed (1)	—	1	—	1
		While intoxicated (1)	1	—	—	1
Totals, 1963	54		35	15	23	73
Totals, 1962	69		47	13	38	98
Totals, 1961	60		33	19	27	79
Totals, 1960	56		38	14	19	71
Totals, 1959	63		47	9	30	86
Totals, 1958	46		28	14	25	67
Totals, 1957	67		45	12	41	98
Totals, 1956	63		38	16	31	85
Totals, 1955	49		26	11	28	65
Totals, 1954	56		29	13	30	72
Ten-year totals	583		366	136	292	794

TABLE IX.—TWENTY-YEAR FIRE LOSS



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