THE FIRE MARSHAL

FOR THE PROVINCE OF BRITISH COLUMBIA

FORTY-FIFTH

ANNUAL REPORT

STATISTICS, 1966

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in right of the Province of British Columbia.
1968

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-fifth Annual Report of the Fire Marshal for the year ended December 31, 1966.

ROBERT W. BONNER,
Attorney-General.

Victoria, B.C., March 31, 1967.

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REPORT OF THE FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL,
VANCOUVER, B.C., March 31, 1967.

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

SIR,—I beg to submit the Forty-fifth Annual Report of the Fire Marshal for the year ended December 31, 1966. Although there is a slight decrease in the number of fires over last year, the monetary loss has risen considerably. There were 6,903 fires with a loss of $23,145,579. A glance at Table III will show that the greatest increase is in the cities and fire districts, the former due in part to increased values and the latter to a number of large loss fires. Fifty-three of our fires of over $50,000 each accounted for some $12,000,000 of our loss. With the exception of two large losses in our cities, most of these fires occurred in unorganized districts.

I am pleased to report a decrease in deaths due to fire, but, as always, the greater number of these fires occurred in the home. Out of the 58 with a loss of life, 44 took place in homes (apartments, dwellings, rooming houses) and were responsible for 49 deaths. More fire-prevention education to recognize home fire hazards is still urgently needed, especially as 50 per cent of these fires were due to our ever-present leading cause—smokers' carelessness.

ACTIVITIES OF ENGINEERING DIVISION

During the year this Division approved 1,226 structural plans for public buildings, plans for bulk plants for inflammable liquids, compressed-gas and fertilizer plants; plans for distributing systems for compressed gas and oil refineries. A total of 251 general inspections was made, and 42 inspections under the Compressed Gas Regulation. Seventeen projectionist examinations were held—seven first class, five second class, and five restricted.

ACTIVITIES OF INVESTIGATION DIVISION

This Division investigated 474 fires throughout the year. The results of these investigations are set out in Table I. These investigations terminated in 19 Court appearances, 15 attendances at inquests, and 1 official inquiry.

ACTIVITIES OF FIRE-FIGHTER INSTRUCTIONAL UNITS

These units were responsible for 366 instructional sessions, with a total of 957 fire-fighters receiving training, these men coming from 61 different municipal fire departments. A total of 1,098 hours of instruction was provided, with a total attendance for the year of 4,335. The units have been responsible for some 275 inspections and approvals of compressed-gas systems, 476 inspections of buildings to eliminate fire hazards, 58 lectures to various groups, and 30 inspections of summer camps.

ACTIVITIES OF EMERGENCY FIRE DEFENCE PLAN

The activities of this section included 3 zone meetings, 4 organization meetings, and 58 lectures.

GENERAL DUTIES, ALL DIVISIONS

General duties of all divisions covered escorts of radioactive materials, lectures at fire departments and Local Assistant Fire Marshal orientation courses, supervision of fireworks displays, meetings, lectures, courses, and many other assignments in the course of duty. They also responded to emergencies such as inflammable-liquid spillage accidents and, on request, assisted in the disposal of dangerous explosives.

During emergencies, pumpers manned by our instructors were sent to Chetwynd, Penticton, and the Rayonier fire. We also provided fire apparatus for Fort Steele and Barkerville, and provided instruction on the operation of this apparatus.

During the year four municipal fire-protection surveys were made under section 9 of the *Fire Marshal Act*.

Our film library has been used extensively during the year, and we have supplied film to various departments and groups following 514 requests.

Amendments to regulations passed pursuant to the *Fire Marshal Act* made during the year included an amendment to the Regulations Governing the Construction, Installation, and Maintenance of Chimneys, Fireplaces, Smokepipes, and Furnace Chambers, and another to the Regulation Governing the Manufacture, Sale, Storage, Carriage, and Disposal of Inflammable Liquids and Oils.

During the year, and for the first time in 10 years, the Province of British Columbia was host to the annual conference of the Association of Canadian Fire Marshals and Fire Commissioners. Representatives came from all across Canada and the United States, and we also had a divisional fire officer from Singapore who was here under the Colombo Plan to study fire-prevention methods in Canada.

I would like to thank the members of the various fire and police departments, the British Columbia Research Council, the National Harbours Board, civil defence organizations, and my own staff for excellent co-operation during the year. I would also like to thank members of the Royal Canadian Mounted Police, especially 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 co-operation during the year.

I have the honour to be,

Sir,

Your obedient servant,

BASIL NIXON,

Fire Marshal.

TABLE I.—FIRES INVESTIGATED BY THE OFFICE OF THE FIRE MARSHAL

Investigations

Fires investigated—	
Accident or negligence	130
Incendiary	243
Unknown	101
Total	474

Charges Laid

	Adults	Juveniles
Number of persons charged	34	34
Total, 68		
Number of charges laid (in some cases more than one charge was laid against the same person)—		
Arson	27	28
Setting fire to other substances	9	7
Other offences	9	---
Total, 80		

Disposition of Charges

Convicted	23	20
Dismissed	5	2
Stay of proceedings	5	---
Settled out of Court	---	7
Acquitted	1	---
Withdrawn	4	2
Pending	7	4
Total, 80		
Persons not charged—Committed to mental hospital	8	---
Convictions for false alarms	9	5
Total, 14		

TABLE II.—INSPECTIONS MADE AND ORDERS ISSUED BY LOCAL ASSISTANTS TO THE FIRE MARSHAL

City Municipalities (32)

	Inspections	Orders		Inspections	Orders
Alberni	.....	.....	New Westminster	2,602	384
Armstrong	96	.....	North Vancouver	2,961	.....
Chilliwack	1,151	5	Penticton	1,050	2
Courtenay	38	.....	Port Alberni	92	7
Cranbrook	778	2	Port Coquitlam	706	.....
Dawson Creek	1,344	1	Port Moody	174	1
Duncan	94	.....	Prince George	1,010	.....
Enderby	29	8	Prince Rupert	495	3
Fernie	187	.....	Revelstoke	311	15
Grand Forks	27	6	Rossland	.....	.....
Greenwood	.....	.....	Trail	682	.....
Kamloops	.....	.....	Vancouver	30,019	30
Kelowna	1,426	.....	Vernon	799	2
Kimberley	746	2	Victoria	9,245	.....
Langley	13	2	White Rock	451	.....
Nanaimo	1,279	.....			
Nelson	1,019	39	Totals	58,824	509

District Municipalities (39)

Burnaby	9,646	6	North Vancouver	1,131	2
Campbell River	442	.....	Oak Bay	2,084	15
Central Saanich	81	1	Peachland	1	.....
Chilliwhack	676	.....	Pitt Meadows	.....	.....
Coldstream	.....	.....	Port Alice	.....	.....
Coquitlam	103	.....	Port Hardy	.....	.....
Delta	2,102	3	Powell River	.....	.....
Esquimalt	454	2	Richmond	637	2
Fraser Mills	.....	.....	Saanich	221	22
Gold River	14	3	Salmon Arm	.....	.....
Hudson's Hope	.....	.....	Spallumcheen	56	.....
Kent	.....	.....	Sparwood	.....	.....
Kitimat	557	1	Squamish	.....	.....
Langley	21	.....	Sumas	63	.....
Mackenzie	.....	.....	Summerland	.....	.....
Maple Ridge	411	.....	Surrey	1,893	1
Matsqui	.....	.....	Tadanac	47	.....
Mission	9	.....	Terrace	491	4
North Cowichan	359	.....	West Vancouver	300	.....
North Saanich	41	.....			
			Totals	21,840	62

Town Municipalities (10)

Castlegar	.....	.....	Mission City	.....	.....
Creston	.....	.....	North Kamloops	163	.....
Fort St. John	273	.....	Quesnel	.....	.....
Hope	.....	.....	Williams Lake	.....	.....
Ladysmith	34	1			
Merritt	68	2	Totals	538	3

TABLE II.—INSPECTIONS MADE AND ORDERS ISSUED BY LOCAL ASSISTANTS TO THE FIRE MARSHAL—*Continued*

Village Municipalities (58)

	Inspections	Orders		Inspections	Orders
Abbotsford	56	----	Natal	11	2
Aennofield	----	----	New Denver	4	5
Alert Bay	----	----	Oliver	----	----
Ashcroft	----	----	100 Mile House	----	----
Burns Lake	9	----	Osoyoos	----	----
Chapman Camp	13	1	Parksville	422	----
Chetwynd	----	----	Pemberton	----	----
Clinton	----	----	Port Edward	----	----
Comox	10	----	Port McNeill	----	----
Cumberland	1	----	Pouce Coupe	3	----
Fort St. James	----	----	Princeton	151	2
Fruitvale	----	----	Qualicum Beach	----	----
Gibsons Landing	----	----	Salmo	----	----
Golden	----	----	Salmon Arm	38	2
Harrison Hot Springs	----	----	Sechelt	17	----
Hazelton	----	----	Sidney	42	----
Houston	----	----	Silverton	1	1
Invermere	----	----	Slocan	----	----
Kaslo	----	----	Smithers	----	----
Keremeos	4	----	Stewart	----	----
Kinnaird	69	----	Taylor	----	----
Lake Cowichan	53	----	Telkwa	----	----
Lillooet	----	----	Tofino	----	----
Lumby	15	----	Ucluelet	----	----
Lytton	----	----	Valemount	----	----
McBride	----	----	Vanderhoof	----	----
Marysville	128	----	Warfield	23	----
Masset	----	----	Zeballos	3	----
Montrose	22	2			
Nakusp	----	----	Totals	1,095	15

Local Districts (2)

Cache Creek	----	----
Guisachan	----	----

Fire Districts (17)

Cariboo, County of	8	2	Sooke	----	----
Colwood	----	----	University Area	1,464	----
Ioco	----	----	Vancouver, County of	----	----
Kootenay, County of	132	6	Vernon	----	----
Langford	33	1	Victoria, County of	1	----
Nanaimo, County of	46	1	View Royal	----	----
Ocean Falls	714	----	Westminster, County of	----	----
Prince George	----	----	Yale, County of	21	2
Prince Rupert, County of	158	2			
			Totals	2,577	14

	Inspections	Orders
Grand totals, 1966	84,874	603
Grand totals, 1965	83,678	178
Grand totals, 1964	82,758	151
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

TABLE III.—FIRES REPORTED

City Municipalities (32)

Districts Reporting	Number	Amount of Loss	Districts Reporting	Number	Amount of Loss
Alberni	26	$35,510	New Westminster	188	$4,892,804
Armstrong	.....	.....	North Vancouver	122	60,952
Chilliwack	22	76,134	Penticton	64	44,254
Courtenay	17	34,983	Port Alberni	77	83,798
Cranbrook	7	7,491	Port Coquitlam	24	35,451
Dawson Creek	50	923,459	Port Moody	20	6,576
Duncan	16	44,163	Prince George	146	234,938
Enderby	2	45,223	Prince Rupert	60	237,204
Fernie	6	2,139	Revelstoke	29	53,146
Grand Forks	15	19,204	Rossland	10	9,577
Greenwood	6	12,424	Trail	43	5,180
Kamloops	32	83,381	Vancouver	1,821	2,898,034
Kelowna	100	118,631	Vernon	24	16,425
Kimberley	12	40,659	Victoria	299	225,509
Langley	5	34,465	White Rock	15	6,946
Nanaimo	59	30,696			
Nelson	33	20,772	Totals	3,350	$10,340,128

District Municipalities (39)

Burnaby	407	$487,203	Oak Bay	53	$31,718
Campbell River	32	199,072	Peachland	3	6,125
Central Saanich	12	6,113	Pitt Meadows	8	82,519
Chilliwhack	54	95,090	Port Alice	5	71,056
Coldstream	8	18,089	Port Hardy	1	551
Coquitlam	61	73,452	Powell River	20	37,264
Delta	59	64,531	Richmond	194	369,838
Esquimalt	53	15,157	Saanich	176	146,413
Fraser Mills	5	8,406	Salmon Arm	10	21,911
Gold River	4	7,831	Spallumcheen	3	13,988
Hudson's Hope	4	6,856	Sparwood	1	616
Kent	1	4,103	Squamish	8	40,617
Kitimat	27	28,153	Sumas	9	64,766
Langley	25	75,239	Summerland	19	52,810
Mackenzie	.....	.....	Surrey	248	214,349
Maple Ridge	41	96,797	Tadanac	37	10,789
Matsqui	29	74,858	Terrace	36	138,825
Mission	15	61,738	West Vancouver	142	93,827
North Cowichan	32	76,960			
North Saanich	7	115,980	Totals	2,026	$3,173,114
North Vancouver	177	259,504			

TABLE III.—FIRES REPORTED—*Continued*

Town Municipalities (10)

Districts Reporting	Number	Amount of Loss	Districts Reporting	Number	Amount of Loss
Castlegar	9	$9,248	Mission City	6	$1,126
Creston	15	87,154	North Kamloops	23	153,395
Fort St. John	18	26,382	Quesnel	21	147,445
Hope	11	6,989	Williams Lake	17	60,504
Ladysmith	13	33,522			
Merritt	11	29,130	Totals	144	$554,895

Village Municipalities (58)

Abbotsford	5	$1,641	Natal	2	$46
Aennofield	2	7,410	New Denver	1	2,000
Alert Bay	------	------	Oliver	10	50,201
Ashcroft	2	3,512	100 Mile House	2	768
Burns Lake	7	6,960	Osoyoos	7	9,350
Chapman Camp	1	13	Parksville	7	4,923
Chetwynd	7	40,836	Pemberton	------	------
Clinton	4	20,065	Port Edward	2	11,800
Comox	5	881	Port McNeill	1	21
Cumberland	3	212	Pouce Coupe	2	245
Fort St. James	------	------	Princeton	5	68,573
Fruitvale	2	183	Qualicum Beach	4	4,415
Gibsons Landing	6	1,821	Salmo	------	------
Golden	2	27,066	Salmon Arm	4	2,042
Harrison Hot Springs	3	1,007	Sechelt	------	------
Hazelton	------	------	Sidney	8	3,395
Houston	4	10,330	Silverton	------	------
Invermere	2	10,456	Slocan	3	5,475
Kaslo	4	296	Smithers	14	11,788
Keremeos	4	2,250	Stewart	2	146,576
Kinnaird	4	3,586	Taylor	1	246
Lake Cowichan	4	92,468	Telkwa	6	193,831
Lillooet	6	3,591	Tofino	1	1,789
Lumby	1	79	Ucluelet	4	5,089
Lytton	------	------	Valemount	1	10
McBride	3	125,010	Vanderhoof	6	21,210
Marysville	1	20	Warfield	6	1,744
Masset	------	------	Zeballos	1	3,900
Montrose	4	511			
Nakusp	1	2,900	Totals	187	$912,541

Local Districts (2)

Cache Creek	2	$11,250
Guisachan	------	------

TABLE III.—FIRES REPORTED—*Continued*

Fire Districts (17)

Districts Reporting	Number	Amount of Loss	Districts Reporting	Number	Amount of Loss
Cariboo, County of	346	$3,163,598	Vancouver, County of	61	$337,846
Colwood	9	3,427	Vernon	------	------
Ioco	------	------	Victoria, County of	34	95,452
Kootenay, County of	137	903,659	View Royal	10	12,149
Langford	16	16,065	Westminster, County of	29	129,515
Nanaimo, County of	175	1,095,756	Yale, County of	254	1,082,314
Ocean Falls	------	------			
Prince George	------	------	Totals	1,194	$8,153,651
Prince Rupert, County of	99	1,291,072			
Sooke	7	13,325	Grand totals	6,903	$23,145,579
University Area	17	9,473			

Construction of Buildings Burned

	Number	Amount of Loss
Fire resistive—		
City municipalities	27	$40,128
District municipalities	33	22,385
Town municipalities	1	200
Village municipalities	------	------
Local districts	------	------
Fire districts	10	18,080
Brick, concrete, or heavy timber—		
City municipalities	327	1,268,428
District municipalities	57	231,353
Town municipalities	4	506
Village municipalities	------	------
Local districts	------	------
Fire districts	10	49,297
Wood frame—		
City municipalities	2,159	8,521,403
District municipalities	1,457	2,503,588
Town municipalities	97	523,026
Village municipalities	158	901,972
Local districts	2	11,250
Fire districts	812	7,309,723
Metal or corrugated iron—		
City municipalities	837	510,169
District municipalities	479	415,788
Town municipalities	42	31,163
Village municipalities	29	10,569
Local districts	------	------
Fire districts	362	776,551
Totals	6,903	$23,145,579

TABLE IV.—CAUSES OF FIRES

Causes of Fires	Total Number		Amount of Loss	
Boilers or boiler pipes defective or overheated		3		$2,677
Candles and open flames		49		34,666
Chemical explosion		1		80
Children playing with fire		16		5,286
Chimneys—				
Defective or overheated	73		$175,544	
Sparks from	27		24,984	
		100		200,528
Collision		27		69,748
Defective battery connection		2		137
Defective brooder		4		8,250
Defective muffler		7		2,310
Defective wiring		106		176,647
Dust explosion		3		1,086
Electrical appliances and equipment (improper use of appliance or defective equipment)		343		1,961,915
Electrical wiring overloaded		10		86,139
Electro-welding equipment, sparks from		2		770
Engine backfiring		273		111,929
Exposure		152		4,750,712
Fireplaces—				
Defective	17		$7,379	
Sparks from	102		62,794	
		119		70,173
Fireworks		24		32,670
Friction—				
In brake-drum	14		$1,315	
In conveyor belt	2		14,116	
In machinery	4		54,527	
In pulley	2		56,266	
In tires	11		10,816	
		33		137,040
Furnaces or furnace pipes—				
Combustible materials too near	16		$19,399	
Defective	4		22,185	
Insufficiently protected	25		104,636	
Sparks from	11		5,720	
		56		151,940
Gas, liquefied petroleum—				
Explosion	9		$51,245	
Improper installation of appliance	6		22,505	
Improper use of or defective equipment	42		71,614	
		57		145,364
Gas, natural—				
Explosion	8		$56,257	
Improper installation of appliance	2		10,503	
Improper use of or defective equipment	10		17,077	
		20		83,837
Gasoline—				
Broken line	125		$106,053	
Carelessness with	83		117,020	
On exhaust pipe	51		60,803	
Pump damaged by motor-vehicle	2		345	
Stoves, lamps, torches	13		15,514	
Used to kindle fire	13		16,319	
Vapour explosion	72		331,516	
		359		647,570
Heat radiation		13		3,049
Hot ashes, coals, etc.		33		60,971
Hot grease, oil, tar, etc., ignition of		414		288,844
Incendiary		243		774,179
Inflammable vapours, ignition of		52		58,999
Kerosene—				
Carelessness with	2		$8,699	
Stoves, lamps, torches	6		18,654	
Used to kindle fire	2		956	
		10		28,309
Lightning		5		71,162
Matches—				
Carelessness with	38		$44,030	
Children with	285		374,116	
		323		418,146

TABLE IV.—CAUSES OF FIRES—*Continued*

Causes of Fires	Total Number		Amount of Loss	
Molten metal		3		$775
Motor-vehicle upset		22		128,869
Oil burners—				
Broken line	1		$1,650	
Defective	85		162,693	
Defective equipment	49		59,314	
Explosion	58		225,760	
Sparks from	1		190	
		194		449,607
Oxy-gas welding or cutting equipment, etc.—				
Improper use of	10		$799,588	
Sparks from	65		722,585	
		75		1,522,173
Short circuit		648		1,125,237
Smokers' carelessness—				
In bed	344		$136,458	
In the home	919		564,650	
In unlisted locations	548		326,596	
While intoxicated	13		30,338	
		1,824		1,058,042
Sparks from bonfire		98		112,006
Sparks from bush fire		4		48,431
Sparks from engine		2		1,809
Sparks from forge		1		2,500
Sparks from grinder		1		150
Sparks from mill burner		20		397,305
Spontaneous ignition		21		80,898
Steam or other pipes insufficiently protected		3		6,100
Stoves or stove pipes—				
Combustible materials too near	173		$87,415	
Defective	8		21,172	
Explosion	2		2,680	
Insufficiently protected	66		170,047	
Sparks from	12		12,408	
		261		293,722
Thawing pipes		9		29,651
Unknown		858		7,503,171
Totals		6,903		$23,145,579

TABLE V.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES

Property		Causes		Amount of Loss	
Apartments	382	Candle carelessness	3	$1,016	
		Children playing with fire	1	100	
		Chimneys—			
		Defective or overheated	1	140	
		Sparks from	2	240	
		Defective wiring	3	1,677	
		Electrical appliances	14	2,588	
		Electrical wiring overloaded	1	100	
		Exposure	4	17,949	
		Fireplace, defective	1	75	
		Gas, liquefied petroleum, improper use of or defective equipment	4	15,983	
		Gas, natural, improper use of or defective equipment	1	3,000	
		Gasoline—			
		Broken line	1	634	
		Stoves, lamps, torches	2	1,212	
		Heat radiation	1	20	
		Hot ashes	3	290	
		Hot grease, ignition of	44	18,536	
		Incendiary	15	42,519	
		Inflammable vapours, ignition of	1	11,381	
		Matches—			
		Carelessness with	2	145	
		Children with	9	62,814	
		Oil burners—			
		Defective	5	2,784	
		Defective equipment	2	545	
		Explosion	4	1,461	
		Oxy-gas welding or cutting equipment, sparks from	2	1,250	
		Short circuit	7	45,956	
		Smokers' carelessness—			
		In bed	40	10,349	
		In the home	127	86,796	
		In unlisted locations	31	63,705	
		While intoxicated	2	7,784	
		Stoves or stove pipes—			
		Combustible materials too near	13	1,423	
		Insufficiently protected	4	2,850	
		Sparks from	1	2,500	
		Unknown	31	565,599	
					$973,421
Armouries	1	Steam pipe insufficiently protected	1		100
Asphalt plants and tanks	2	Friction in machinery	1	$277	
		Gas, liquefied petroleum, defective equipment	1	80	
					357
Bakeries	5	Electrical appliances	1	$3,075	
		Incendiary	2	805	
		Unknown	2	34,150	
					38,030
Banks	2	Electrical appliances	1	$15	
		Stove, combustible material too near	1	200	
					215
Barber-shops and beauty-parlours	3	Hot ashes	1	$328	
		Smokers' carelessness	2	53	
					381
Barges and scows	7	Gasoline—			
		Carelessness with	1	$9,695	
		Vapour explosion	4	3,200	
		Short circuit	1	50	
		Sparks from bonfire	1	635	
					13,580
Barns and stables	53	Defective wiring	1	$7,191	
		Exposure	2	1,400	
		Gasoline-vapour explosion	1	564	
		Incendiary	4	152,931	
		Matches—			
		Carelessness with	1	217	
		Children with	11	20,838	
		Short circuit	4	9,825	
		Smokers' carelessness	2	1,800	
		Sparks from bonfire	2	6,612	

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

Property		Causes		Amount of Loss	
		Spontaneous ignition	6	$34,620	
		Unknown	19	92,069	
					$328,067
Bath-houses	6	Incendiary	2	$764	
		Oil-burner explosion	1	5,408	
		Smoker's carelessness	1	1,925	
		Stove, combustible material too near	1	360	
		Unknown	1	100	
					8,557
Blacksmith-shops	1	Oxy-gas welding equipment, sparks from	1		2,386
Boarding-houses	6	Smokers' carelessness—			
		In bed	4	$579	
		In unlisted locations	2	60	
					639
Boat-building works	2	Incendiary	1	$6	
		Unknown	1	12	
					18
Boathouses	3	Exposure	1	$400	
		Gasoline-vapour explosion	1	22,977	
		Match carelessness	1	50	
					23,427
Bowling-alleys	2	Oil-burner explosion	1	$2,800	
		Smoker's carelessness	1	252	
					3,052
Bridges	4	Incendiary	2	$2,800	
		Sparks from bonfire	2	28,200	
					31,000
Buildings under construction	18	Electrical appliances	1	$100	
		Gas, liquefied petroleum, improper use of	1	582	
		Incendiary	1	50	
		Inflammable vapours, ignition of	1	100	
		Matches, children with	5	3,224	
		Oxy-gas welding equipment, sparks from	2	11,402	
		Short circuit	1	1,055	
		Smokers' carelessness	2	550	
		Sparks from bonfire	1	30	
		Unknown	3	1,156	
					18,249
Bunkhouses	16	Electrical appliances	1	$1,417	
		Gasoline used to kindle fire	1	2,716	
		Kerosene carelessness	1	4,199	
		Matches, children with	1	500	
		Oil burner, defective	1	5,160	
		Stoves or stove pipes—			
		Combustible materials too near	1	2,640	
		Defective	1	740	
		Insufficiently protected	1	635	
		Unknown	8	73,048	
					91,055
Canneries (fish)	3	Short circuit	2	$10,366	
		Unknown	1	3,600	
					13,966
Canneries (fruit)	1	Unknown	1		7,592
Chemical plants	4	Chemical explosion	1	$80	
		Friction in machinery	1	200	
		Furnace insufficiently protected	1	347	
		Unknown	1	1,874	
					2,501
Churches and church properties	18	Exposure	1	$312	
		Gas, natural, explosion	1	1,100	
		Incendiary	6	5,837	
		Matches, children with	3	514	
		Oil-burner explosion	4	1,076	
		Smoker's carelessness	1	143	
		Unknown	2	20,381	
					29,363
Clubs	6	Matches, children with	1	$77	
		Smokers' carelessness	4	716	
		Unknown	1	30	
					823

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

Property		Causes		Amount of Loss	
Clubhouses (golf, yacht, etc.)	5	Gasoline lamp	1	$1,250	
		Hot ashes	1	34,084	
		Smoker's carelessness	1	1,878	
		Stove, sparks from	1	599	
		Unknown	1	1,125	
					$38,936
Coal and lumber yards	5	Exposure	2	$875	
		Incendiary	1	100	
		Matches, children with	1	30	
		Unknown	1	45	
					1,050
Cold-storage plants	1	Electrical appliances	1		378
Compressors	3	Hot oil, ignition of	2	$150	
		Unknown	1	628	
					778
Cookhouses	2	Oil burners—			
		Defective	1	$2,800	
		Defective equipment	1	9,544	
					12,344
Copper-mills	1	Unknown	1		21,928
Cranes	1	Short circuit	1		5,220
Dairies	1	Unknown	1		13,060
Distilleries	1	Inflammable vapours, ignition of	1		150
Dredges	3	Hot oil, ignition of	1	$120	
		Smoker's carelessness	1	200	
		Stove insufficiently protected	1	54	
					374
Dry-cleaning plants	1	Smoker's carelessness	1		65
Dwellings	3,047	Candles and open flames	41	$27,426	
		Children playing with fire	13	5,082	
		Chimneys—			
		Defective or overheated	66	172,953	
		Sparks from	18	16,245	
		Defective wiring	35	125,665	
		Electrical appliances	237	87,409	
		Electrical wiring overloaded	4	14,870	
		Engine backfiring	1	40	
		Exposure	38	30,589	
		Fireplaces—			
		Defective	16	7,304	
		Sparks from	102	62,794	
		Fireworks	10	14,450	
		Furnaces—			
		Combustible materials too near	13	18,804	
		Defective	3	21,685	
		Insufficiently protected	19	100,348	
		Sparks from	4	2,509	
		Gas, liquefied petroleum—			
		Explosion	2	1,683	
		Improper installation of appliance	2	12,100	
		Improper use of or defective equipment	15	28,527	
		Gas, natural—			
		Explosion	5	6,143	
		Improper installation of appliance	1	20	
		Improper use of or defective equipment	5	5,573	
		Gasoline—			
		Broken line	1	1,689	
		Carelessness with	33	39,108	
		Stoves, lamps, torches	9	12,676	
		Used to kindle fire	12	13,603	
		Vapour explosion	5	4,353	
		Heat radiation	6	1,398	
		Hot ashes, coals, etc.	19	22,618	
		Hot grease, oil, tar, etc., ignition of	303	116,982	
		Incendiary	54	137,291	
		Inflammable vapours, ignition of	26	19,021	
		Kerosene—			
		Carelessness with	1	4,500	
		Stoves, lamps, torches	4	17,483	
		Used to kindle fire	2	956	
		Lightning	2	2,340	

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

Property		Causes		Amount of Loss	
		Matches—			
		Carelessness with	21	$27,758	
		Children with	161	213,113	
		Oil burners—			
		Broken line	1	1,650	
		Defective	58	106,529	
		Defective equipment	29	20,117	
		Explosion	31	112,381	
		Sparks from	1	190	
		Oxy-gas welding equipment, sparks from	5	1,184	
		Short circuit	186	251,719	
		Smokers' carelessness—			
		In bed	129	85,619	
		In the home	780	465,973	
		In unlisted locations	40	14,896	
		While intoxicated	4	21,008	
		Sparks from bonfire	41	15,456	
		Sparks from bush fire	1	75	
		Sparks from forge	1	2,500	
		Sparks from mill burner	1	750	
		Spontaneous ignition	7	21,542	
		Stoves or stove pipes—			
		Combustible materials too near	123	53,230	
		Defective	7	20,432	
		Explosion	1	2,600	
		Insufficiently protected	46	130,164	
		Sparks from	5	8,763	
		Thawing pipes	5	6,953	
		Unknown	236	985,678	
					$3,726,517
Electric-light plants	7	Furnace, combustible materials too near	1	$245	
		Gas, liquefied petroleum, explosion	1	1,994	
		Short circuit	2	4,500	
		Unknown	3	13,460	
					20,199
Electric-light and telephone poles	2	Incendiary	1	$100	
		Sparks from mill burner	1	150	
					250
Electrical manufacturing plants	3	Hot oil, ignition of	1	$750	
		Smoker's carelessness	1	100	
		Unknown	1	23,760	
					24,610
Elevators (grain)	1	Furnace, combustible materials too near	1		300
Engines	1	Hot oil, ignition of	1		854
Factories (biscuit)	2	Incendiary	2		1,400
Factories (brick)	1	Smoker's carelessness	1		10,158
Factories (can)	1	Electrical appliances	1		800
Factories (candy)	1	Gas, natural, improper use of or defective equipment	1		492
Factories (cement block)	2	Electrical appliances	1	$400	
		Spontaneous ignition	1	237	
					637
Factories (cotton processing)	2	Stove, combustible materials too near	1	$83	
		Unknown	1	5,480	
					5,563
Factories (electroplating)	1	Electrical appliances	1		117
Factories (food products)	4	Electrical appliances	1	$3,233	
		Hot grease, ignition of	2	5,394	
		Incendiary	1	5,045	
					13,672
Factories (furniture)	1	Spontaneous ignition	1		6,785
Factories (industrial equipment)	2	Inflammable vapours, ignition of	1	$100	
		Smoker's carelessness	1	375	
					475
Factories (paper box)	1	Friction in machinery	1		51,750
Factories (pipe wrapping)	1	Spontaneous ignition	1		1,136
Factories (plastic products)	3	Electrical appliances	3		1,311

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

Property		Causes		Amount of Loss	
Factories (pre-cast concrete)	2	Oxy-welding equipment, improper use of	1	$353	
		Smoker's carelessness	1	14,731	
					$15,084
Factories (rock-wool insulation)	1	Chimney, sparks from	1		4,168
Factories (rope)	1	Unknown	1		498
Factories (upholstery)	2	Smoker's carelessness	1	$13,265	
		Unknown	1	1,225	
					14,490
Factories (veneer and plywood)	5	Boiler pipes overheated	1	$2,000	
		Electrical appliances	1	3,295	
		Incendiary	1	5	
		Oxy-gas welding equipment, sparks from	1	250	
		Sparks from mill burner	1	1,000	
					6,550
Fences	13	Fireworks	1	$50	
		Incendiary	2	65	
		Matches, children with	3	55	
		Smokers' carelessness	3	145	
		Unknown	4	155	
					470
Fertilizer plants	1	Oxy-gas welding equipment, sparks from	1		1,207
Film exchanges	1	Smoker's carelessness	1		25
Fire and police stations	7	Electrical appliances	1	$243	
		Engine backfiring	1	1,799	
		Short circuit	1	215	
		Smokers' carelessness	2	162	
		Stove, sparks from	1	193	
		Unknown	1	28,680	
					31,292
Fish hatcheries	1	Smoker's carelessness	1		133
Fishing-boats	46	Electrical appliances	1	$92,336	
		Engine backfiring	2	9,950	
		Exposure	5	6,431	
		Gasoline—			
		Broken line	4	19,100	
		Carelessness with	1	1,421	
		On exhaust pipe	2	24,928	
		Vapour explosion	10	38,545	
		Incendiary	2	40,970	
		Oil burners—			
		Defective	2	15,000	
		Defective equipment	3	15,639	
		Oxy-gas welding equipment, sparks from	3	5,700	
		Short circuit	1	50,000	
		Smokers' carelessness	3	3,400	
		Stove insufficiently protected	1	50	
		Unknown	6	21,082	
					344,552
Foundries	5	Electrical appliances	1	$1,361	
		Exposure	1	3,800	
		Hot ashes	1	100	
		Sparks from grinder	1	150	
		Unknown	1	329,578	
					334,989
Gaols and industrial institutions	2	Electrical appliances	1	$200	
		Exposure	1	50	
					250
Garages (private)	127	Chimney, sparks from	1	$50	
		Electrical appliances	1	118	
		Engine backfiring	1	1,029	
		Exposure	12	12,226	
		Fireworks	1	1,004	
		Gas, natural, explosion	1	41,450	
		Gasoline—			
		Carelessness with	2	4,265	
		Pump damaged by motor-vehicle	1	330	
		Heat radiation	1	972	
		Incendiary	11	24,059	
		Inflammable vapours, ignition of	1	980	
		Matches, children with	34	14,881	

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

Property		Causes		Amount of Loss	
		Oxy-gas welding equipment—			
		Improper use of	1	$330	
		Sparks from	1	1,638	
		Short circuit	4	7,725	
		Smokers' carelessness	4	1,047	
		Sparks from bonfire	15	17,768	
		Sparks from mill burner	1	8,168	
		Stove insufficiently protected	1	30	
		Unknown	33	61,682	
					$199,752
Garages (public)	24	Chimney, defective	1	$25	
		Electrical appliances	2	3,291	
		Exposure	1	325	
		Gasoline—			
		Broken line	1	762	
		Carelessness with	1	2,345	
		Vapour explosion	2	442	
		Oxy-gas welding equipment—			
		Improper use of	1	1,330	
		Sparks from	3	18,091	
		Short circuit	1	31,446	
		Smokers' carelessness	3	3,286	
		Unknown	8	244,950	
					306,293
Gasoline stations (service)	34	Electrical appliances	5	$38,020	
		Exposure	3	3,845	
		Fireworks	1	46	
		Gasoline—			
		Carelessness with	2	450	
		Pump damaged by motor-vehicle	1	15	
		Torch	1	150	
		Vapour explosion	3	406	
		Incendiary	1	100	
		Inflammable vapours, ignition of	2	5,796	
		Oil burners—			
		Defective	1	1,666	
		Explosion	1	265	
		Open flame	1	5,869	
		Oxy-gas welding equipment, sparks from	1	35	
		Short circuit	5	3,754	
		Smokers' carelessness	6	3,766	
					64,183
Grandstands	1	Incendiary	1		1,000
Greenhouses	4	Oil burners—			
		Defective	1	$646	
		Defective equipment	1	100	
		Stove, combustible materials too near	1	596	
		Unknown	1	250	
					1,592
Halls	17	Defective wiring	1	$140	
		Electrical appliances	1	35	
		Fireworks	1	12,727	
		Incendiary	3	14,731	
		Oil-burner explosion	1	24,000	
		Smokers' carelessness	7	32,457	
		Sparks from bonfire	1	2,381	
		Unknown	2	42,755	
					129,226
Hospitals, institutions, and nursing homes	49	Candle carelessness	1	$80	
		Electrical appliances	5	800	
		Incendiary	1	75	
		Inflammable vapours, ignition of	1	50	
		Short circuit	3	373	
		Smokers' carelessness	36	798	
		Stove insufficiently protected	1	200	
		Unknown	1	33	
					2,409
Hospitals (animals)	1	Exposure	1		2,666
Hotels	167	Chimney, sparks from	2	$128	
		Electrical appliances	5	7,007	
		Exposure	1	344	
		Fireworks	1	1,701	

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

Property		Causes		Amount of Loss	
		Gas, natural, improper installation of appliance	1	$1,004	
		Hot grease, ignition of	7	11,117	
		Incendiary	12	12,258	
		Matches, children with	1	750	
		Oil burner, defective	2	1,370	
		Oxy-gas welding equipment, sparks from	1	25	
		Short circuit	5	61,194	
		Smokers' carelessness	114	25,817	
		Sparks from bonfire	1	3,500	
		Stove, combustible materials too near	1	63	
		Unknown	13	216,586	
					$342,864
Houseboats	1	Unknown	1		25
Launches and other small craft	46	Electrical appliances	2	$1,525	
		Engine backfiring	3	9,160	
		Exposure	8	3,889	
		Gasoline—			
		Broken line	2	1,545	
		Carelessness with	8	21,414	
		Vapour explosion	13	75,017	
		Incendiary	1	545	
		Short circuit	3	8,091	
		Sparks from bonfire	1	25	
		Unknown	5	36,300	
					157,511
Laundries	13	Electrical appliances	8	$1,310	
		Incendiary	1	1,576	
		Stove, combustible materials too near	1	50	
		Unknown	3	57,869	
					60,805
Libraries	1	Exposure	1		2,500
Logging camps	9	Friction in pulley	1	$56,000	
		Gasoline, broken line	2	12,000	
		Incendiary	1	4,000	
		Short circuit	1	1,296	
		Sparks from engine	1	1,200	
		Unknown	3	28,652	
					103,148
Machine-shops	15	Oxy-gas welding equipment, sparks from	4	$64,178	
		Short circuit	3	32,097	
		Sparks from engine	1	609	
		Spontaneous ignition	1	3,630	
		Unknown	6	141,807	
					242,321
Meat-packing plants	1	Electrical appliances	1		50,394
Medical clinics	4	Inflammable vapours, ignition of	1	$119	
		Stoves or stove pipes—			
		Combustible materials too near	1	420	
		Sparks from	1	27	
		Unknown	1	238,109	
					238,675
Metal salvage plants	1	Unknown	1		500
Mines and mining properties	5	Spontaneous ignition	1	$4,800	
		Unknown	4	690,900	
					695,700
Motor courts	94	Defective wiring	1	$11,502	
		Electrical appliances	6	21,912	
		Electrical wiring overloaded	1	25,861	
		Exposure	1	753	
		Gas, liquefied petroleum—			
		Explosion	1	10,838	
		Improper use of or defective equipment	3	7,984	
		Gas, natural, defective equipment	1	7,739	
		Hot grease, ignition of	1	519	
		Incendiary	2	15,464	
		Inflammable vapours, ignition of	2	1,027	
		Matches, children with	1	79	
		Molten metal	1	350	
		Oil burners—			
		Defective equipment	3	1,461	
		Explosion	1	3,660	

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

Property		Causes		Amount of Loss	
		Short circuit	1	$75	
		Smokers' carelessness	46	22,695	
		Stoves or stove pipes—			
		Combustible materials too near	11	6,567	
		Explosion	1	80	
		Unknown	10	202,621	
					$341,187
Motor-vehicles (*1,564)—					
Automobiles (passenger)	1,211	Collision	17	$17,298	
		Defective battery connection	2	137	
		Defective muffler	3	136	
		Defective wiring	49	8,043	
		Electrical appliances	7	1,326	
		Engine backfiring	232	71,151	
		Exposure	21	9,276	
		Fireworks	1	400	
		Friction—			
		In brake drum	10	771	
		In tires	9	5,807	
		Gas, liquefied petroleum, improper use of or defective equipment	2	308	
		Gasoline—			
		Broken line	78	31,204	
		Carelessness with	18	6,881	
		On exhaust pipe	28	6,120	
		Vapour explosion	23	9,889	
		Heat radiation	1	163	
		Hot ashes	1	80	
		Hot grease, oil, tar, etc., ignition of	10	2,390	
		Incendiary	25	25,651	
		Matches—			
		Carelessness with	4	2,087	
		Children with	6	1,525	
		Motor-vehicle upset	10	9,469	
		Open flame	1	100	
		Oxy-gas welding or cutting equipment—			
		Improper use of	1	25	
		Sparks from	7	910	
		Short circuit	279	76,287	
		Smokers' carelessness	250	42,472	
		Sparks from bonfire	1	150	
		Unknown	115	52,978	
				$383,034	
Buses	12	Exposure	1	$50	
		Gasoline—			
		Broken line	2	3,631	
		Carelessness with	1	500	
		On exhause pipe	1	2,500	
		Incendiary	3	6,105	
		Short circuit	2	96	
		Unknown	2	701	
				$13,583	
Campers	5	Gas, liquefied petroleum—			
		Explosion	1	$850	
		Improper installation of appliance	1	1,950	
		Improper use of equipment	1	3,000	
		Gasoline on exhaust pipe	1	100	
		Unknown	1	450	
				$6,350	
Motor-cycles	18	Collision	2	$650	
		Engine backfiring	4	1,361	
		Gasoline—			
		Broken line	5	800	
		On exhaust pipe	2	90	
		Incendiary	1	20	

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

Property		Causes		Amount of Loss
Motor-vehicles—*Continued*				
		Motor-vehicle upset	1	$200
		Short circuit	2	100
		Unknown	1	500
				$3,721
Tractors (bulldozers, graders, etc.)	97	Defective muffler	2	$2,099
		Defective wiring	1	767
		Electrical appliances	1	725
		Engine backfiring	7	4,777
		Exposure	1	10,772
		Friction in tires	1	1,619
		Gas, liquefied petroleum, defective equipment	1	171
		Gasoline—		
		Broken line	7	17,686
		Carelessness with	5	3,021
		On exhaust pipe	6	10,917
		Vapour explosion	1	90
		Incendiary	2	11,701
		Motor-vehicle upset	3	84,065
		Oxy-gas welding equipment, sparks from	3	4,144
		Short circuit	33	50,987
		Smoker's carelessness	1	300
		Sparks from bonfire	3	853
		Sparks from bush fire	2	47,248
		Unknown	17	100,692
				$352,634
Trailers and semi-trailers	12	Collision	3	$19,000
		Incendiary	1	4,000
		Inflammable vapours, ignition of	1	2,000
		Motor-vehicle upset	2	21,200
		Oxy-gas welding equipment, sparks from	1	1,750
		Short circuit	1	12,450
		Smoker's carelessness	1	100
		Unknown	2	8,180
				$68,680
Trucks	209	Collision	4	$32,600
		Defective muffler	1	35
		Defective wiring	9	905
		Engine backfiring	20	11,907
		Exposure	8	2,645
		Fireworks	1	850
		Friction—		
		In brake drum	4	544
		In tires	1	3,390
		Gas, liquefied petroleum—		
		Improper installation of appliance	2	7,451
		Improper use of or defective equipment	3	4,675
		Gasoline—		
		Broken line	18	14,994
		Carelessness with	5	17,900
		On exhaust pipe	9	14,026
		Vapour explosion	5	14,338
		Hot ashes	2	216
		Hot grease, oil, tar, etc., ignition of	3	5,625
		Incendiary	2	1,460
		Inflammable vapours, ignition of	1	582
		Kerosene stove	1	1,114
		Matches—		
		Carelessness with	1	216
		Children with	1	15
		Motor-vehicle upset	6	13,935
		Oxy-gas welding equipment, sparks from	4	4,100
		Short circuit	45	27,948
		Smokers' carelessness	13	2,941
		Sparks from bonfire	3	1,811

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

Property		Causes		Amount of Loss	
		Spontaneous ignition	1	$25	
		Unknown	36	64,209	
				$250,457	*$1,078,459
Mushroom-houses	1	Stove insufficiently protected	1		25
Offices	35	Electrical appliances	2	$1,800	
		Exposure	4	3,221	
		Furnace, sparks from	1	265	
		Gas, natural, defective equipment	1	123	
		Hot grease, ignition of	1	4,000	
		Matches, children with	2	1,584	
		Oil burner, defective	3	1,684	
		Oxy-gas welding equipment, sparks from	1	50	
		Short circuit	6	994	
		Smokers' carelessness	8	883	
		Spontaneous ignition	1	34	
		Stoves or stove pipes—			
		Combustible materials too near	1	25	
		Insufficiently protected	1	2,344	
		Unknown	3	86,057	
					103,064
Oil-houses	2	Gasoline line, broken	1	$10	
		Unknown	1	3,279	
					3,289
Paper and pulp mills	8	Boiler pipe, defective	1	$627	
		Friction in conveyor belt	1	11,823	
		Hot grease, ignition of	1	52,500	
		Unknown	5	99,345	
					164,295
Poolrooms	1	Short circuit	1		238
Post offices	1	Smoker's carelessness	1		175
Poultry-houses	17	Defective brooder	4	$8,250	
		Defective wiring	1	262	
		Electrical appliances	1	152	
		Gas, liquefied petroleum, defective equipment	1	145	
		Incendiary	3	6,850	
		Matches—			
		Carelessness with	1	1,200	
		Children with	1	100	
		Oil burner, defective	1	134	
		Unknown	4	15,290	
					32,383
Power-houses	5	Electrical appliances	1	$2,500	
		Incendiary	1	200	
		Unknown	3	89,841	
					92,541
Printing plants	5	Exposure	2	$1,517	
		Hot ashes	1	100	
		Incendiary	1	675	
		Short circuit	1	399	
					2,691
Pumps and pump houses	9	Electrical appliances	1	$799	
		Matches, children with	1	750	
		Oil burner, defective	1	1,539	
		Short circuit	2	24,569	
		Steam pipe insufficiently protected	1	1,000	
		Unknown	3	1,413	
					30,070
Radio stations	1	Unknown	1		2,118
Railroad rolling-stock	6	Incendiary	2	$1,400	
		Matches, children with	1	158	
		Open flame	1	125	
		Unknown	2	8,464	
					10,147
Refineries (gasoline, natural gas, or oil)	2	Exposure	1	$7,295	
		Hot grease, ignition of	1	11,000	
					18,295
Restaurants	45	Defective wiring	1	$26	
		Exposure	2	140	

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

Property		Causes		Amount of Loss	
		Gas, natural, improper installation of appliance	1	$10,483	
		Hot grease, ignition of	22	53,222	
		Incendiary	5	7,431	
		Oil burner, defective	1	373	
		Short circuit	2	64	
		Smokers' carelessness	7	6,732	
		Stove insufficiently protected	2	475	
		Unknown	2	1,969	
					$80,915
Rinks (curling)	1	Fireworks	1		110
Rinks (ice skating)	2	Smoker's carelessness	1	$8	
		Thawing pipes	1	376	
					384
Rooming-houses	64	Children playing with fire	1	$54	
		Chimneys—			
		Defective or overheated	2	1,518	
		Sparks from	1	977	
		Electrical appliances	1	1,498	
		Exposure	2	4,255	
		Hot ashes	1	351	
		Hot grease	1	85	
		Incendiary	5	2,160	
		Oil burner, defective	2	60,213	
		Short circuit	4	5,418	
		Smokers' carelessness—			
		In bed	24	4,898	
		In the home	3	163	
		In unlisted locations	6	1,829	
		While intoxicated	3	212	
		Stoves or stove pipes—			
		Combustible materials too near	2	1,361	
		Sparks from	1	100	
		Unknown	5	22,356	
					107,448
Sawmills	80	Chimney, sparks from	1	$3,067	
		Dust explosion	1	1,026	
		Electrical appliances	4	1,592,095	
		Electro-welding equipment, sparks from	1	350	
		Exposure	1	4,526,652	
		Friction—			
		In conveyor belt	1	2,293	
		In machinery	1	2,300	
		Furnace, sparks from	2	1,429	
		Gasoline, broken line	1	1,848	
		Incendiary	1	11,686	
		Lightning	2	12,841	
		Matches, children with	1	5,010	
		Oxy-gas welding or cutting equipment—			
		Improper use of	4	785,078	
		Sparks from	10	570,605	
		Short circuit	2	153,418	
		Smokers' carelessness	2	6,700	
		Sparks from bonfire	2	19,110	
		Sparks from mill burner	13	322,148	
		Steam pipe insufficiently protected	1	5,000	
		Stove insufficiently protected	1	10,289	
		Thawing pipes	1	1,813	
		Unknown	27	664,030	
					8,698,788
Schools	46	Chimney, defective	1	$589	
		Fireworks	1	5	
		Gas, natural, improper use of or defective equipment	1	75	
		Incendiary	14	89,800	
		Inflammable vapours, ignition of	2	5,852	
		Lightning	1	55,981	
		Matches—			
		Carelessness with	1	255	
		Children with	3	100	
		Oil burner, defective	1	100	

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

Property		Causes		Amount of Loss	
		Oxy-gas welding or cutting equipment, improper use of	1	$3,315	
		Short circuit	5	145,450	
		Smokers' carelessness	7	1,187	
		Stove insufficiently protected	1	7,922	
		Unknown	7	953,327	
					$1,263,958
Sheds	154	Children playing with fire	1	$50	
		Chimney, defective	1	125	
		Electrical appliances	2	1,075	
		Exposure	6	14,984	
		Fireworks	3	768	
		Gasoline—			
		Carelessness with	1	3,040	
		On exhaust pipe	1	2,055	
		Vapour explosion	1	1,050	
		Hot ashes	3	2,804	
		Incendiary	13	15,645	
		Inflammable vapours, ignition of	1	582	
		Matches—			
		Carelessness with	3	2,519	
		Children with	24	12,188	
		Oil burners—			
		Defective	1	8,000	
		Defective equipment	2	550	
		Explosion	3	5,699	
		Oxy-gas welding equipment, sparks from	1	20,000	
		Short circuit	5	22,702	
		Smokers' carelessness	7	2,141	
		Sparks from bonfire	18	10,358	
		Sparks from bush fire	1	1,108	
		Sparks from mill burner	1	200	
		Stoves or stove pipes—			
		Combustible materials too near	1	150	
		Insufficiently protected	2	2,096	
		Unknown	52	61,503	
					191,392
Sheet-metal works	4	Exposure	1	$15,991	
		Incendiary	1	10,617	
		Matches, children with	1	50	
		Oxy-gas welding equipment, sparks from	1	57	
					26,715
Shingle-mills	3	Oxy-gas welding equipment, sparks from	1	$125	
		Sparks from mill burner	1	20,000	
		Unknown	1	48,465	
					68,590
Ships	2	Oil-burner explosion	1	$5,000	
		Smoker's carelessness	1	300	
					5,300
Shipyards	3	Short circuit	1	$646	
		Smokers' carelessness	2	362	
					1,008
Slaughter-houses	1	Unknown	1		9,500
Smelting plants	35	Dust explosion	2	$60	
		Electrical appliances	2	1,420	
		Electrical wiring overloaded	1	500	
		Furnaces or furnace pipes—			
		Defective	1	500	
		Insufficiently protected	2	30	
		Sparks from	2	550	
		Gas, natural, improper use of or defective equipment	1	150	
		Heat radiation	2	50	
		Hot oil, ignition of	1	500	
		Inflammable vapours, ignition of	4	745	
		Molten metal	1	25	
		Oxy-gas welding equipment, sparks from	5	1,185	
		Short circuit	8	4,670	
		Smoker's carelessness	1	200	
		Unknown	2	17,931	
					28,516

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

Property		Causes		Amount of Loss	
Steel-fabricating plants	4	Electro-welding equipment, sparks from	1	$420	
		Inflammable vapours, ignition of	1	7,271	
		Molten metal	1	400	
		Oxy-gas welding equipment, improper use of	1	9,157	
					$17,248
Stoneworks	1	Exposure	1		100
Stores	157	Chimneys—			
		Defective	1	$194	
		Sparks from	1	109	
		Electrical appliances	12	29,658	
		Electrical wiring overloaded	1	4,783	
		Exposure	8	59,511	
		Fireworks	2	559	
		Furnaces or furnace pipes, combustible materials too near	1	50	
		Gas, natural, improper use of or defective equipment	1	504	
		Gasoline-vapour explosion	1	3,645	
		Hot grease, ignition of	5	4,069	
		Incendiary	16	82,595	
		Inflammable vapours, ignition of	3	1,084	
		Matches—			
		Carelessness with	1	9,300	
		Children with	3	885	
		Oil burners—			
		Defective	1	40	
		Defective equipment	1	709	
		Explosion	3	478	
		Oxy-gas welding equipment, sparks from	2	215	
		Short circuit	7	57,551	
		Smokers' carelessness	46	8,364	
		Sparks from bonfire	1	928	
		Sparks from mill burner	1	44,889	
		Spontaneous ignition	1	8,089	
		Stoves or stove pipes—			
		Combustible materials too near	6	7,770	
		Insufficiently protected	3	12,913	
		Sparks from	2	226	
		Thawing pipes	1	20,000	
		Unknown	26	167,437	
					526,555
Stores and apartments	25	Candle carelessness	1	$50	
		Electrical appliances	1	82	
		Exposure	2	4,478	
		Gas, natural, explosion	1	34,191	
		Hot grease, ignition of	1	421	
		Incendiary	4	5,003	
		Inflammable vapours, ignition of	1	146	
		Match carelessness	2	283	
		Smokers' carelessness	10	26,503	
		Unknown	2	8,080	
					79,237
Stores and dwellings	13	Defective wiring	1	$11,813	
		Gasoline carelessness	1	414	
		Hot grease, ignition of	1	50	
		Short circuit	2	3,052	
		Smokers' carelessness	2	306	
		Unknown	6	83,295	
					98,930
Stores and offices	4	Electrical wiring overloaded	1	$40,000	
		Incendiary	2	504	
		Unknown	1	7,895	
					48,399
Stores and rooms	11	Electrical wiring overloaded	1	$25	
		Exposure	1	150	
		Gas, natural, improper use of or defective equipment	1	355	
		Smokers' carelessness	5	13,224	
		Unknown	3	13,964	
					27,718
Tar pots	3	Gasoline, broken line	2	$150	
		Hot tar, ignition of	1	197	
					347

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

Property		Causes		Amount of Loss	
Telephone exchanges and booths	2	Incendiary	1	$25	
		Matches, children with	1	5	
					$30
Tents	9	Electrical appliances	1	$249	
		Heat radiation	2	446	
		Incendiary	1	100	
		Matches, children with	1	350	
		Sparks from bonfire	2	2,059	
		Stove, combustible materials too near	1	61	
		Unknown	1	307	
					3,572
Theatres	3	Electrical appliances	1	$1,711	
		Oil-burner explosion	1	217	
		Smoker's carelessness	1	300	
					2,228
Trailers (mobile homes)	88	Collision	1	$200	
		Defective wiring	2	7,100	
		Electrical appliances	2	4,135	
		Exposure	2	717	
		Furnace insufficiently protected	3	3,911	
		Gas, liquefied petroleum—			
		Explosion	2	589	
		Improper use of or defective equipment	8	9,348	
		Gas, natural, explosion	1	8,541	
		Gasoline—			
		Carelessness with	1	2,541	
		Stove	1	293	
		Hot tar, ignition of	1	100	
		Incendiary	1	6,000	
		Kerosene stove	1	57	
		Matches, children with	4	5,796	
		Oil burners—			
		Defective	7	15,946	
		Defective equipment	4	9,079	
		Explosion	1	2,250	
		Short circuit	3	7,809	
		Smokers' carelessness	8	8,672	
		Sparks from bonfire	1	100	
		Stove, combustible materials too near	7	12,416	
		Thawing pipes	1	509	
		Unknown	26	104,512	
					210,621
Trash barrels	64	Incendiary	3	$195	
		Matches, children with	2	35	
		Smokers' carelessness	7	265	
		Unknown	52	2,960	
					3,455
Tugboats	6	Gasoline-vapour explosion	2	$157,000	
		Oil burner, defective	1	500	
		Short circuit	2	450	
		Unknown	1	25,000	
					182,950
Warehouses	28	Defective wiring	1	$1,556	
		Exposure	5	600	
		Friction in pulley	1	266	
		Hot grease, ignition of	1	63	
		Incendiary	2	18,008	
		Matches, children with	2	28,690	
		Oil-burning equipment, defective	1	200	
		Oxy-gas welding equipment, sparks from	1	100	
		Smoker's carelessness	1	32,094	
		Sparks from bonfire	1	30	
		Unknown	12	492,378	
					573,985
Water tanks	1	Sparks from bonfire	1		2,000
Welding-machines	7	Engine backfiring	1	$150	
		Gasoline carelessness	2	1,425	
		Oxy-gas welding equipment, sparks from	1	191	
		Short circuit	2	4,355	
		Unknown	1	806	
					6,927

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

Property		Causes		Amount of Loss	
Welding-shops	3	Engine backfiring	1	$605	
		Oxy-gas welding equipment, sparks from	1	5	
		Unknown	1	750	
					$1,360
Wharves	2	Unknown	2		5,540
Woodworking plants	12	Boiler pipe overheated	1	$50	
		Furnace, sparks from	2	967	
		Incendiary	1	1,059	
		Inflammable vapours, ignition of	1	2,013	
		Unknown	7	58,617	
					62,706
Workshops	10	Exposure	1	$44	
		Gasoline carelessness	1	2,600	
		Hot grease, oil, tar, etc., ignition of	2	200	
		Incendiary	1	793	
		Oil-burner explosion	2	644	
		Oxy-gas welding equipment, sparks from	1	11,802	
		Short circuit	1	627	
		Unknown	1	10,000	
					26,710
Totals	6,903				$23,145,579

TABLE VI.—SUMMARY

Fires Reported

	City Municipalities (32)	District Municipalities (39)	Town Municipalities (10)	Village Municipalities (58)	Local Districts (2)	Fire Districts (17)	Totals
1966							
January	316	186	11	17	.....	124	654
February	210	141	4	13	.....	86	454
March	249	143	11	15	.....	110	528
April	286	188	13	16	.....	104	607
May	358	174	12	17	.....	95	656
June	308	187	9	9	.....	91	604
July	257	180	12	15	.....	87	551
August	295	187	10	26	1	113	632
September	226	144	14	10	1	80	475
October	272	166	20	12	.....	97	567
November	249	138	14	23	.....	97	521
December	324	192	14	14	.....	110	654
Totals	3,350	2,026	144	187	2	1,194	6,903

Amount of Loss

1966							
January	$1,191,754	$394,227	$72,701	$159,656	.....	$1,960,759	$3,779,097
February	342,298	96,815	12,548	214,596	.....	1,043,034	1,709,291
March	196,528	188,386	20,764	25,671	.....	1,377,406	1,808,755
April	243,821	194,728	14,758	22,069	.....	275,483	750,859
May	571,381	173,744	9,534	186,699	.....	746,688	1,688,046
June	439,773	418,098	22,449	3,889	.....	250,678	1,134,887
July	460,310	290,636	24,712	22,671	.....	180,428	978,757
August	5,070,193	293,560	78,459	29,728	$3,250	466,990	5,942,180
September	359,746	211,584	35,630	25,811	8,000	404,905	1,045,676
October	447,960	355,781	106,035	16,048	.....	373,699	1,299,523
November	615,288	312,083	22,343	173,574	.....	751,549	1,874,837
December	401,076	243,472	134,962	32,129	.....	322,032	1,133,671
Totals	$10,340,128	$3,173,114	$554,895	$912,541	$11,250	$8,153,651	$23,145,579

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

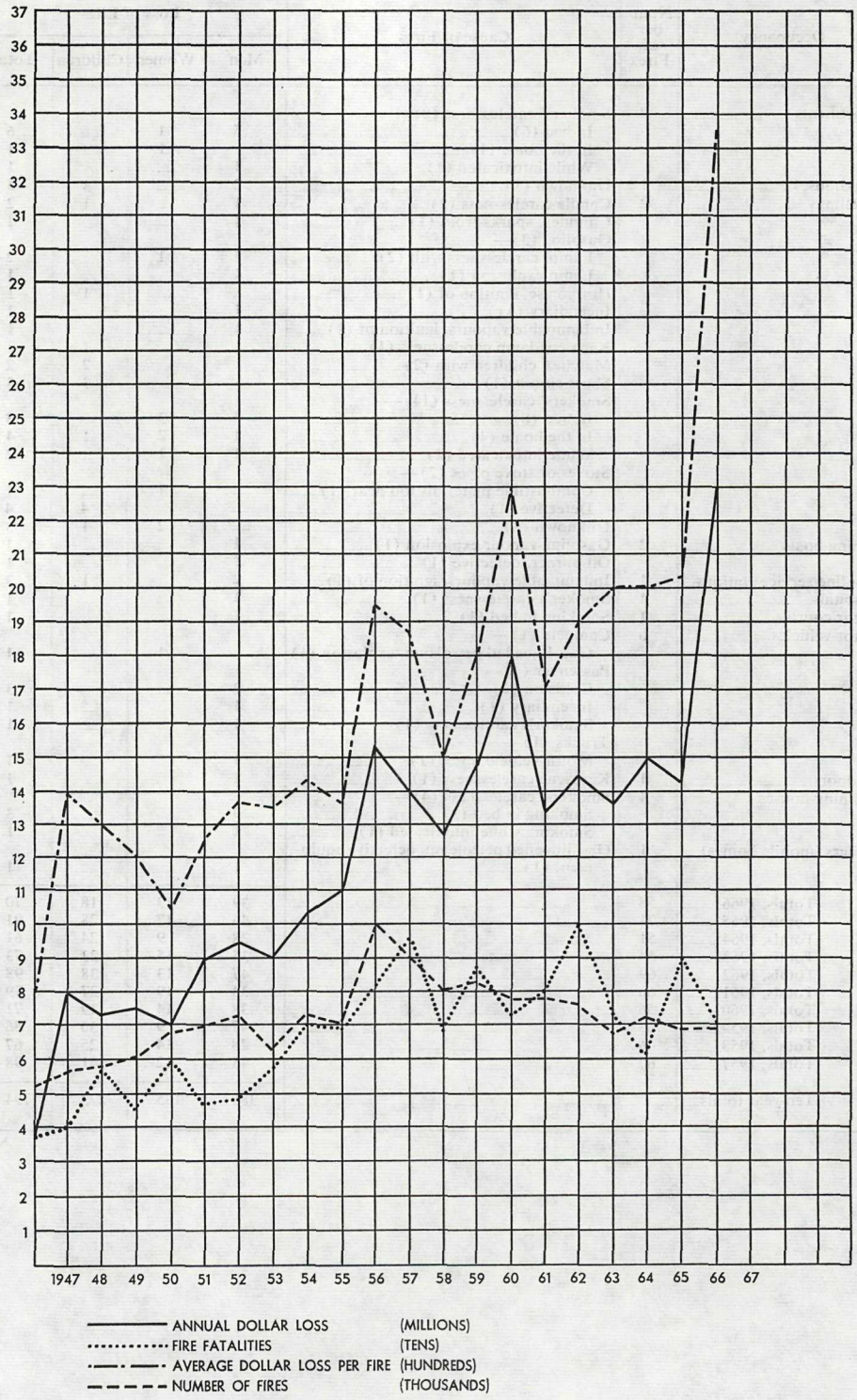
Year	City Municipalities		District Municipalities		Town Municipalities		Village Municipalities	
	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses
1966	3,350	$10,340,128	2,026	$3,173,114	144	$554,895	187	$912,541
1965	3,351	4,756,985	2,080	2,855,954	109	342,522	184	878,033
1964	3,366	4,204,463	2,166	3,325,408	71	242,674	245	830,912
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
Totals	36,729	$56,247,792	22,430	$29,006,698	669	$1,993,024	2,695	$7,431,483

Year	Local Districts		Fire Districts		Total	
	Fires	Losses	Fires	Losses	Fires	Losses
1966	2	$11,250	1,194	$8,153,651	6,903	$23,145,579
1965	8	30,133	1,245	5,274,157	6,977	14,137,784
1964	5	4,263	1,265	6,378,143	7,118	14,985,863
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	18,290,383
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
Totals	21	$51,049	12,780	$59,560,672	75,324	$154,290,718

TABLE VIII.—LOSS OF LIFE, 1957–66

Occupancy	Number of Fires	Cause of Fires	Loss of Life			
			Men	Women	Children	Total
Apartments	8	Smokers' carelessness (8)—				
		In bed (6)	5	1	----	6
		In the home (1)	----	1	----	1
		While intoxicated (1)	1	----	----	1
Bunkhouses	1	Unknown (1)	2	----	3	5
Dwellings	32	Candle carelessness (2)	1	----	1	2
		Chimney, sparks from (1)	1	----	----	1
		Gasoline (3)—				
		Lamp, carelessness with (2)	1	1	----	2
		Lamp explosion (1)	1	----	----	1
		Hot grease, ignition of (1)	----	----	1	1
		Incendiary (1)	1	----	----	1
		Inflammable vapours, ignition of (1)	1	----	----	1
		Kerosene-lamp carelessness (1)	----	----	1	1
		Matches, children with (2)	----	----	2	2
		Short circuit (1)	----	----	3	3
		Smokers' carelessness (14)—				
		In bed (8)	5	3	----	8
		In the home (4)	1	2	1	4
		While intoxicated (2)	1	1	----	2
		Stoves or stove pipes (2)—				
		Combustible materials too near (1)	----	1	----	1
		Defective (1)	----	----	4	4
		Unknown (3)	----	2	1	3
Fishing-boats	2	Gasoline-vapour explosion (1)	1	----	----	1
		Oil burner, defective (1)	1	----	----	1
Gasoline service-stations	1	Inflammable vapours, ignition of (1)	2	----	1	3
Hospitals	1	Smoker's carelessness (1)	1	----	----	1
Motor courts	1	Smoking in bed (1)	1	----	----	1
Motor-vehicles	6	Campers (1)—				
		Gas, liquefied petroleum, explosion (1)	----	1	----	1
		Passenger (4)—				
		Collision (2)	3	----	----	3
		Incendiary (1)	1	----	----	1
		Smoker's carelessness (1)	1	----	----	1
		Trucks (1)—				
		Motor-vehicle upset (1)	1	----	----	1
Outdoors	1	Kerosene carelessness (1)	1	----	----	1
Rooming-houses	4	Smokers' carelessness (4)—				
		Smoking in bed (3)	3	----	----	3
		Smoking while intoxicated (1)	1	----	----	1
Trailers (mobile homes)	1	Gas, liquefied petroleum, defective equipment (1)	1	----	----	1
Totals, 1966	58		39	13	18	70
Totals, 1965	71		46	17	28	91
Totals, 1964	51		28	9	24	61
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
Ten-year totals			386	135	273	794

TABLE IX.—TWENTY-YEAR FIRE LOSS



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