THE FIRE MARSHAL

FOR THE PROVINCE OF BRITISH COLUMBIA

THIRTY-SEVENTH

ANNUAL REPORT

STATISTICS, 1958

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in right of the Province of British Columbia.
1959

To His Honour FRANK MACKENZIE ROSS, C.M.G., M.C., LL.D.,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Thirty-seventh Annual Report of the Fire Marshal for the year ended December 31st, 1958.

ROBERT W. BONNER,
Attorney-General.

Victoria, B.C., March 31st, 1959.

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REPORT OF THE FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL,
VANCOUVER, B.C., March 31st, 1959.

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

SIR,—I beg to submit herewith the Thirty-seventh Annual Report of the Fire Marshal for the year ended December 31st, 1958.

I am very gratified again to report a reduction in the fire loss for the Province. There were 8,063 fires with a loss of $12,702,394, which not only means a reduction of $1,832,234 but is the lowest annual fire loss since 1955. It is still more gratifying to report a reduction in the loss of life through fire. There were sixty-seven lives lost in 1958 as compared with ninety-eight in 1957, or a reduction of 32 per cent.

As in former years, smokers' carelessness is our leading cause of fire, while carelessness with inflammable liquids was responsible for some of our large losses. It will be agreed that only public education in fire prevention will reduce these losses. With this in mind, we are constantly carrying instruction to the fire service and the general public, and undoubtedly the success of this is exemplified in this Report. We have gone a little further this year in that the various municipalities have been persuaded to send their Local Assistant Fire Marshals to Vancouver, where we have inaugurated orientation courses with a view to standardizing, as nearly as possible, their operations in the field. One course has already been held with an attendance of nineteen men, and it is proposed to have these courses repeated every three months until all Local Assistant Fire Marshals have been in attendance. The number of Local Assistants to the Fire Marshal now stands at 308.

By virtue of the increased use of radioactive materials throughout the Province, it has been found necessary to give proper fire department instruction in this field. To this end, our instructors have qualified themselves by taking specialized courses on the subject and are now extending their work of instruction to include control of radioactive materials.

During the year there have been some further amendments to the regulations passed pursuant to the " Fire Marshal Act." These have been requested of the Department and promulgated in order that our regulations may keep abreast of modern fire-protection developments.

Two hundred and sixty-four investigations have taken members of our Investigation Branch to various parts of the Province. As a result of these investigations, there were fifty-one prosecutions with thirty-eight convictions, eleven acquittals, and two adjournments *sine die*. Further, there were twenty-one prosecutions under the regulations passed pursuant to the " Fire Marshal Act " with twenty-one convictions. Our Inspectors have assisted the Local Assistant Fire Marshals in their inspection work. Inspections made by the Local Assistant Fire Marshals, as shown in Table I, total 91,959 for the year, an increase over 1957.

Our travelling fire department instruction units gave instruction to eighty departments, and a total of 1,410 firemen received training.

Our responsibility under the Theatre Regulations resulted in twenty-seven examinations for projectionists—four for first class, five for second class, and eighteen for second class restricted.

I am pleased to report the establishment of a branch of the Institution of Fire Engineers of Great Britain, the only professional fire engineering organization in Canada.

We are particularly proud that we initiated this branch, as the need has been felt for fire-prevention engineering education, and the courses of study which must be successfully undertaken before a diploma is granted ensure that our future fire service personnel will be more qualified to serve.

My thanks are extended to 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 help and co-operation during the year. Also, may I thank members of the Royal Canadian Mounted Police throughout the Province, Local Assistant Fire Marshals, and insurance companies and their adjusters for their co-operation.

I have the honour to be,

Sir,

Your obedient servant,

BASIL NIXON,

Fire Marshal.

TABLE I.—INSPECTIONS MADE AND ORDERS ISSUED BY LOCAL ASSISTANT FIRE MARSHALS

City Municipalities (35)

	Inspections	Orders		Inspections	Orders
Alberni	------	----	North Vancouver	2,355	5
Armstrong	16	----	Penticton	368	1
Chilliwack	145	6	Port Alberni	233	4
Courtenay	86	1	Port Coquitlam	------	----
Cranbrook	673	3	Port Moody	------	----
Dawson Creek	534	6	Prince George	695	----
Duncan	52	5	Prince Rupert	------	----
Enderby	14	3	Revelstoke	143	2
Fernie	140	2	Rossland	319	----
Grand Forks	12	----	Salmon Arm	------	----
Greenwood	------	----	Slocan	------	----
Kamloops	377	----	Trail	2,165	12
Kaslo	19	----	Vancouver	37,294	38
Kelowna	1,037	----	Vernon	226	----
Kimberley	470	3	Victoria	14,414	4
Langley	31	4	White Rock	57	25
Nanaimo	1,275	1			
Nelson	900	8	Totals	71,777	387
New Westminster	7,727	254			

District Municipalities (30)

Burnaby	5,747	8	North Vancouver	365	----
Central Saanich	------	----	Oak Bay	2,285	----
Chilliwhack	630	----	Peachland	------	----
Coldstream	------	----	Pitt Meadows	------	----
Coquitlam	57	11	Powell River	229	2
Delta	266	33	Richmond	191	6
Esquimalt	237	----	Saanich	1,300	75
Fraser Mills	------	----	Salmon Arm	2	2
Glenmore	2	----	Spallumcheen	8	1
Kent	28	----	Sumas	------	----
Kitimat	617	----	Summerland	------	----
Langley	62	----	Surrey	650	2
Maple Ridge	30	----	Tadanac	48	----
Matsqui	------	----	West Vancouver	107	----
Mission	------	----			
North Cowichan	114	15	Totals	12,975	155

Town Municipalities (2)

Mission City	------	----
Quesnel	------	----
Totals	------	----

TABLE I.—INSPECTIONS MADE AND ORDERS ISSUED BY LOCAL ASSISTANT FIRE MARSHALS—*Continued*

Village Municipalities (55)

	Inspections	Orders		Inspections	Orders
Abbotsford	9	----	Merritt	48	----
Alert Bay	----	----	Montrose	65	----
Ashcroft	11	5	New Denver	10	----
Burns Lake	----	----	North Kamloops	65	1
Campbell River	656	18	Oliver	11	----
Castlegar	----	----	Osoyoos	----	----
Chapman Camp	----	----	Parksville	56	2
Comox	55	----	Pemberton	12	----
Creston	35	3	Pouce Coupe	----	----
Cumberland	57	2	Princeton	88	4
Fort St. James	----	----	Qualicum Beach	22	4
Fort St. John	----	----	Salmo	14	6
Fruitvale	----	----	Sechelt	----	----
Gibsons Landing	----	----	Sidney	----	----
Golden	----	----	Silverton	----	----
Harrison Hot Springs	----	----	Smithers	73	----
Hazelton	----	----	Squamish	----	----
Hope	19	1	Stewart	----	----
Houston	----	----	Telkwa	10	----
Invermere	27	----	Terrace	174	6
Keremeos	2	----	Tofino	----	----
Kinnaird	37	----	Ucluelet	----	----
Ladysmith	----	----	Vanderhoof	----	----
Lake Cowichan	11	----	Warfield	24	----
Lillooet	----	----	Williams Lake	91	3
Lumby	25	----	Zeballos	2	----
Lytton	----	----			
McBride	----	----	Totals	1,878	55
Marysville	169	----			

Fire Districts (19)

Cariboo, County of	199	15	Sooke	10	10
Colwood	1	----	University Area	1,893	----
District Lot 172	1	----	Vancouver, County of	284	----
Ioco	8	----	Vernon	----	----
Kelowna	----	----	Victoria, County of	25	----
Kootenay, County of	76	5	View Royal	----	----
Langford	61	----	Westminster, County of	14	----
Nanaimo, County of	142	14	Yale, County of	136	3
Ocean Falls	2,384	----			
Prince George	----	----	Totals	5,329	50
Prince Rupert, County of	95	3			

	Inspections	Orders
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
Grand totals, 1953	78,885	562
Grand totals, 1952	80,573	345
Grand totals, 1951	82,321	644
Grand totals, 1950	82,526	1,206
Grand totals, 1949	85,081	1,649

TABLE II.—FIRES REPORTED

City Municipalities (35)

District Reporting	Number	Amount of Loss	District Reporting	Number	Amount of Loss
Alberni	28	$157,142	New Westminster	206	$153,624
Armstrong	3	149	North Vancouver	125	118,373
Chilliwack	26	47,228	Penticton	77	71,872
Courtenay	32	27,699	Port Alberni	73	89,066
Cranbrook	20	58,451	Port Coquitlam	18	2,026
Dawson Creek	60	237,835	Port Moody	14	27,146
Duncan	41	11,272	Prince George	51	101,630
Enderby	3	349	Prince Rupert	58	191,730
Fernie	8	37,613	Revelstoke	18	14,665
Grand Forks	7	3,046	Rossland	13	24,201
Greenwood	3	335	Salmon Arm	12	1,632
Kamloops	59	34,798	Slocan	----	----
Kaslo	1	1,495	Trail	27	12,572
Kelowna	92	107,737	Vancouver	2,320	2,540,359
Kimberley	25	3,412	Vernon	43	121,653
Langley	6	20,531	Victoria	444	95,358
Nanaimo	105	74,723	White Rock	24	11,026
Nelson	59	131,992			
			Totals	4,101	$4,532,740

District Municipalities (30)

Burnaby	494	$215,667	North Vancouver	187	$223,063
Central Saanich	23	5,004	Oak Bay	141	16,640
Chilliwhack	47	137,517	Peachland	5	6,810
Coldstream	9	12,703	Pitt Meadows	6	24,002
Coquitlam	75	56,156	Powell River	59	15,063
Delta	50	48,526	Richmond	190	480,297
Esquimalt	81	16,915	Saanich	255	67,419
Fraser Mills	----	----	Salmon Arm	8	18,843
Glenmore	13	740	Spallumcheen	4	13,062
Kent	6	23,600	Sumas	9	2,070
Kitimat	47	105,346	Summerland	16	16,736
Langley	43	37,226	Surrey	268	393,316
Maple Ridge	49	98,688	Tadanac	34	5,226
Matsqui	37	25,488	West Vancouver	164	85,467
Mission	21	57,592			
North Cowichan	40	69,905	Totals	2,381	$2,279,087

Town Municipalities (2)

Mission City	18	$34,751
Quesnel	17	14,422
Totals	35	$49,173

TABLE II.—FIRES REPORTED—*Continued*

Village Municipalities (55)

District Reporting	Number	Amount of Loss	District Reporting	Number	Amount of Loss
Abbotsford	8	$1,951	Marysville	2	$525
Alert Bay	3	412	Merritt	9	1,416
Ashcroft	2	447	Montrose	5	4,939
Burns Lake	4	6,024	New Denver	1	3,338
Campbell River	30	77,024	North Kamloops	13	6,597
Castlegar	8	4,975	Oliver	7	299
Chapman Camp	1	1,400	Osoyoos	8	1,190
Comox	10	1,470	Parksville	1	36
Creston	3	111	Pemberton	------	------
Cumberland	5	2,685	Pouce Coupe	3	7,076
Fort St. James	2	63,350	Princeton	12	16,079
Fort St. John	7	1,773	Qualicum Beach	12	836
Fruitvale	2	118	Salmo	2	147
Gibsons Landing	13	139,751	Sechelt	5	3,766
Golden	1	131	Sidney	13	1,704
Harrison Hot Springs	------	------	Silverton	------	------
Hazelton	------	------	Smithers	11	13,775
Hope	20	219,517	Squamish	4	4,671
Houston	1	100	Stewart	------	------
Invermere	2	1,157	Telkwa	4	2,791
Keremeos	3	795	Terrace	18	63,836
Kinnaird	5	198	Tofino	------	------
Ladysmith	13	3,233	Ucluelet	1	20
Lake Cowichan	3	760	Vanderhoof	------	------
Lillooet	3	11,141	Warfield	8	3,873
Lumby	2	430	Williams Lake	16	36,732
Lytton	2	325	Zeballos	2	79
McBride	2	5,372			
			Totals	312	$718,375

Fire Districts (19)

Cariboo, County of	280	$1,840,851	Sooke	1	$38
Colwood	14	2,886	University Area	11	5,058
District Lot 172	2	40	Vancouver, County of	65	296,534
Ioco	------	------	Vernon	------	------
Kelowna	25	32,215	Victoria, County of	84	287,163
Kootenay, County of	154	610,409	View Royal	13	870
Langford	25	23,104	Westminster, County of	54	219,615
Nanaimo, County of	209	825,367	Yale, County of	209	669,163
Ocean Falls	14	19,451			
Prince George	------	------	Totals	1,234	$5,123,019
Prince Rupert, County of	74	290,255			
			Grand totals	8,063	$12,702,394

TABLE II.—FIRES REPORTED—*Continued*

Construction of Buildings Burned

	Number		Amount of Loss	
Fire-resistive—				
City municipalities	29		$160,615	
District municipalities	19		2,305	
Town municipalities	----		----	
Village municipalities	----		----	
Fire districts	4		30,073	
		52		$192,993
Brick, concrete, or heavy timber—				
City municipalities	242		$1,028,082	
District municipalities	28		14,813	
Town municipalities	----		----	
Village municipalities	7		37,696	
Fire districts	13		25,209	
		290		1,105,800
Wood frame—				
City municipalities	3,255		$3,182,003	
District municipalities	2,029		2,047,968	
Town municipalities	30		48,172	
Village municipalities	261		665,088	
Fire districts	928		4,372,317	
		6,503		10,315,548
Metal or corrugated iron—				
City municipalities	575		$162,040	
District municipalities	305		214,001	
Town municipalities	5		1,001	
Village municipalities	44		15,591	
Fire districts	289		695,420	
		1,218		1,088,053
Totals		8,063		$12,702,394

TABLE III.—CAUSES OF FIRES

Causes of Fires	Number		Amount of Loss	
Boilers or boiler-pipes, defective or overheated		11		$48,672
Candles and open flames		56		19,493
Children playing with fire		8		2,510
Chimneys—				
Defective or overheated	164		$189,237	
Sparks from	79		60,703	
		243		249,940
Collision		7		4,908
Defective battery connection		3		72,595
Defective brooder		3		3,173
Defective muffler		2		175
Defective oven		1		925
Defective wiring		55		116,650
Dust explosion		4		2,154
Electrical appliances and equipment (improper use of appliance or defective equipment)		396		215,703
Electro-welding equipment, sparks from		2		37,481
Engine back-firing		84		43,663
Exposure		154		291,041
Fireplaces—				
Defective	24		$14,700	
Sparks from	211		10,541	
		235		25,241
Fireworks		42		8,828
Friction—				
In brake-drum	13		$6,893	
In conveyer-belt	4		119,477	
In machinery	4		12,377	
In pulley	3		6,092	
In tires	9		7,413	
		33		152,252
Furnaces or furnace-pipes—				
Combustible materials too near	15		$18,535	
Defective	17		124,404	
Insufficiently protected	43		55,885	
Sparks from	17		37,396	
		92		236,220

TABLE III.—CAUSES OF FIRES—*Continued*

Causes of Fires	Number		Amount of Loss	
Gas, liquefied petroleum—				
Explosion	5		$4,965	
Improper installation of appliance	3		38,754	
Improper use of or defective equipment	7		111,930	
		15		$155,649
Gas, natural—				
Explosion	17		$54,470	
Improper installation of appliance	3		735	
Improper use of or defective equipment	4		114	
		24		55,319
Gasoline—				
Broken line	26		$25,702	
Carelessness with	60		212,530	
On exhaust-pipe	29		30,352	
Pump damaged by motor-vehicle	6		1,830	
Stoves, lamps, torches	26		227,618	
Used in cleaning	1		3,100	
Used to kindle fire	1		6,000	
Vapour explosion	52		146,555	
		201		653,687
Heat radiation		19		14,292
Hot ashes, coals, etc.		66		23,769
Hot grease, oil, tar, etc., ignition of		322		90,048
Incendiary		116		201,276
Inflammable vapours, ignition of (paints, thinners, varnishes, etc.)		38		58,912
Kerosene—				
Carelessness with	3		$1,001	
Stoves, lamps, torches	6		31,895	
Used to kindle fire	2		3,241	
		11		36,137
Lightning		31		106,916
Matches—				
Carelessness with	68		$38,403	
Children with	187		115,474	
		255		153,877
Molten metal		9		4,310
Motor-vehicle upset		15		67,665
Oil-burners—				
Broken line	1		$56	
Defective	57		195,497	
Defective equipment	55		80,389	
Explosion	50		35,695	
Sparks from	4		126	
		167		311,763
Oxy-gas welding or cutting equipment—				
Carlessness with	10		$58,939	
Defective	3		596	
Sparks from	31		398,206	
		44		457,741
Short circuit		562		761,295
Smokers' carelessness—				
In bed	352		$99,520	
In the home	2,084		335,854	
In public premises	2		57	
In unlisted locations	683		523,312	
While intoxicated	8		15,790	
		3,129		974,533
Sparks from bonfire		91		77,941
Sparks from bush fire		13		35,490
Sparks from engine		4		28,878
Sparks from grinder		2		2,215
Sparks from locomotive		1		11,000
Sparks from mill burner		35		525,808
Spontaneous ignition		26		188,061
Steam-pipe insufficiently protected		2		60,449
Stoves or stove-pipes—				
Combustible materials too near	188		$71,340	
Defective	25		52,518	
Explosion	9		19,838	
Insufficiently protected	140		262,919	
Sparks from	48		179,912	
		410		586,527
Unknown		1,024		5,527,212
Totals		8,063		$12,702,394

TABLE IV.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES

Property		Causes		Amount of Loss	
Airports and hangars	3	Furnace or furnace-pipe, defective	1	$11,984	
		Incendiary	1	300	
		Unknown	1	4,575	
					$16,859
Apartments	316	Candles and open flames	5	$462	
		Chimneys—			
		Defective or overheated	5	767	
		Sparks from	5	582	
		Electrical appliances	15	1,918	
		Exposure	5	37,082	
		Fireplaces—			
		Defective	1	476	
		Sparks from	5	99	
		Fireworks	1	40	
		Furnaces or furnace-pipes—			
		Combustible materials too near	1	58	
		Defective	1	11,035	
		Insufficiently protected	1	9,000	
		Gas explosion, natural	1	488	
		Gasoline—stoves, lamps, torches	2	375	
		Hot ashes, coals, etc.	2	244	
		Hot grease, oil, tar, etc., ignition of	13	1,228	
		Incendiary	5	1,930	
		Kerosene used to kindle fire	1	54	
		Matches—			
		Carelessness with	4	165	
		Children with	4	1,195	
		Oil-burners—			
		Defective	3	21,963	
		Defective equipment	2	241	
		Explosion	1	150	
		Short circuit	16	10,360	
		Smokers' carelessness—			
		In bed	28	9,901	
		In the home	114	13,240	
		In unlisted locations	37	18,626	
		While intoxicated	1	136	
		Sparks from bonfire	1	100	
		Stoves or stove-pipes—			
		Combustible materials too near	7	456	
		Defective	1	3,000	
		Insufficiently protected	9	1,984	
		Unknown	19	34,483	
					181,838
Asphalt plants and tanks	2	Incendiary	1	$259	
		Oxy-gas welding or cutting equipment, sparks from	1	128	
					387
Bakeries	5	Defective oven	1	$925	
		Gas explosion, natural	1	2,248	
		Hot ashes	1	158	
		Smokers' carelessness	1	25	
		Stove, combustible materials too near	1	162	
					3,518
Banks	4	Engine back-firing	1	$1,511	
		Exposure	1	425	
		Unknown	2	907	
					2,843
Barber-shops	5	Exposure	1	$21	
		Smokers' carelessness	3	70	
		Unknown	1	18	
					109
Barges and scows	2	Oxy-gas welding or cutting equipment, sparks from	1	$600	
		Smokers' carelessness	1	300	
					900
Barns and stables	60	Defective wiring	1	$14,404	
		Electrical appliances	1	2,500	
		Gasoline-vapour explosion	1	13,552	
		Incendiary	1	25	
		Lightning	2	9,600	
		Matches, children with	7	20,463	
		Smokers' carelessness	2	6,050	
		Sparks from bonfire	5	24,400	
		Spontaneous ignition	3	31,324	

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

Property		Causes		Amount of Loss	
		Stoves or stove-pipes—			
		Combustible materials too near	1	$5,309	
		Insufficiently protected	1	350	
		Sparks from	1	15	
		Unknown	34	156,045	
					$284,037
Bath-houses	1	Gasoline, carelessness with	1		2,000
Boarding-houses	4	Gasoline-torch	1	$1,632	
		Matches, children with	1	48	
		Smoking in bed	2	46	
					1,726
Boat-building works	4	Sparks from grinder	1	$1,666	
		Unknown	3	21,621	
					23,287
Boat-houses	1	Exposure	1		750
Bottling-works	1	Unknown	1		210
Bowling-alleys	5	Incendiary	1	$100	
		Smokers' carelessness	2	3,370	
		Unknown	2	23,903	
					27,373
Bridges	1	Smokers' carelessness	1		10
Buildings under construction	13	Hot tar, ignition of	1	$300	
		Inflammable vapours, ignition of	2	1,074	
		Matches, children with	1	250	
		Oil-burning equipment, defective	1	250	
		Oxy-gas welding or cutting equipment, defective	1	300	
		Sparks from bonfire	1	90	
		Stove, combustible materials too near	1	554	
		Unknown	5	40,852	
					43,670
Bunk-houses	9	Oil-burner, defective	1	$809	
		Smokers' carelessness	4	2,753	
		Stoves or stove-pipes—			
		Insufficiently protected	1	457	
		Sparks from	2	21,579	
		Unknown	1	1,616	
					27,214
Canneries (fish)	1	Boiler, defective	1		150
Cement plants	1	Oxy-gas welding or cutting equipment, sparks from	1		7
Chemical plants	5	Electrical appliances	1	$250	
		Short circuit	1	300	
		Unknown	3	5,409	
					5,959
Churches and church properties	13	Candles and open flames	1	$3,797	
		Exposure	1	1,957	
		Furnaces or furnace-pipes—			
		Combustible materials too near	1	320	
		Insufficiently protected	1	72	
		Incendiary	4	1,674	
		Lightning	1	176	
		Oil-burners—			
		Defective equipment	1	309	
		Explosion	1	194	
		Unknown	2	470	
					8,969
Clubs	8	Chimney, defective	1	$43,272	
		Exposure	1	156	
		Furnace, defective	1	41	
		Smokers' carelessness	4	3,352	
		Stove, sparks from	1	687	
					47,508
Club-houses (golf, yacht, etc.)	8	Candles and open flames	1	$8	
		Incendiary	1	20	
		Inflammable vapours, ignition of	1	459	
		Smokers' carelessness	2	71	
		Stove, combustible materials too near	1	80	
		Unknown	2	7,311	
					7,949
Coal and lumber yards	14	Boiler, defective	1	$12,110	
		Electrical appliances	1	3,000	
		Hot ashes	1	60	
		Incendiary	3	1,278	
		Matches, children with	1	10	

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

Property		Causes		Amount of Loss	
		Smokers' carelessness	1	$100	
		Sparks from bonfire	1	180	
		Sparks from mill burner	3	2,285	
		Unknown	2	21,487	
					$40,510
Compressors	2	Candles and open flames	1	$35	
		Unknown	1	442	
					477
Cook-houses	2	Unknown	2		5,705
Cranes	4	Gasoline, carelessness with	1	$75	
		Matches, children with	1	190	
		Motor-vehicle upset	1	15,690	
		Short circuit	1	2,345	
					18,300
Dairies	8	Boiler, defective	1	$611	
		Chimney, defective	1	712	
		Furnace, insufficiently protected	1	158	
		Steam-pipe insufficiently protected	1	50,918	
		Stove insufficiently protected	1	120	
		Unknown	3	22,475	
					74,994
Dehydrating plants	1	Electrical appliances	1		185
Dental laboratories	1	Exposure	1		1,149
Dry-cleaning plants	7	Friction in machinery	1	$570	
		Gasoline-vapour explosion	1	827	
		Inflammable vapours, ignition of	1	1,740	
		Short circuit	1	11,734	
		Unknown	3	713	
					15,584
Dwellings	4,832	Candles and open flames	46	$14,933	
		Children playing with fire	7	2,435	
		Chimneys—			
		Defective or overheated	144	135,584	
		Sparks from	60	33,621	
		Defective wiring	21	46,807	
		Electrical appliances	303	66,119	
		Engine back-firing	1	90	
		Exposure	54	41,951	
		Fireplaces—			
		Defective	22	13,724	
		Sparks from	202	9,900	
		Fireworks	26	6,568	
		Furnaces or furnace-pipes—			
		Combustible materials too near	11	17,520	
		Defective	10	12,318	
		Insufficiently protected	30	42,593	
		Sparks from	12	32,857	
		Gas, liquefied petroleum—			
		Explosion	2	300	
		Improper installation of appliance	1	126	
		Improper use of or defective equipment	2	76	
		Gas, natural—			
		Explosion	12	4,475	
		Improper installation of appliance	2	610	
		Improper use of or defective equipment	3	86	
		Gasoline—			
		Carelessness with	14	23,863	
		Stoves, lamps, torches	16	14,133	
		Used in cleaning	1	3,100	
		Used to kindle fire	1	6,000	
		Vapour explosion	9	14,317	
		Heat radiation	6	3,734	
		Hot ashes, coals, etc.	44	20,209	
		Hot grease, oil, tar, etc., ignition of	283	61,679	
		Incendiary	19	19,899	
		Inflammable vapours, ignition of	15	6,715	
		Kerosene—			
		Carelessness with	3	1,001	
		Stoves, lamps, torches	3	2,015	
		Lightning	20	13,696	
		Matches—			
		Carelessness with	46	18,703	
		Children with	118	75,491	

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

Property		Causes		Amount of Loss	
		Molten metal	4	$300	
		Oil-burners—			
		Broken line	1	56	
		Defective	29	10,388	
		Defective equipment	32	54,939	
		Explosion	38	10,710	
		Sparks from	4	126	
		Oxy-gas welding or cutting equipment, sparks from	1	60	
		Short circuit	169	116,477	
		Smokers' carelessness—			
		In bed	211	72,355	
		In the home	1,923	300,874	
		In unlisted locations	54	6,754	
		While intoxicated	4	15,250	
		Sparks from bonfire	35	12,517	
		Sparks from bush fire	6	10,444	
		Sparks from mill burner	1	9,024	
		Spontaneous ignition	11	9,060	
		Stoves or stove-pipes—			
		Combustible materials too near	155	47,868	
		Defective	19	43,715	
		Explosion	9	19,838	
		Insufficiently protected	108	182,440	
		Sparks from	34	51,306	
		Unknown	414	985,465	
					$2,727,347
Electrical manufacturing plants	2	Exposure	1	$108	
		Smokers' carelessness	1	134	
					242
Electrical substations	2	Short circuit	2		700
Electric-light plants	11	Engine back-firing	2	$5,567	
		Gasoline-vapour explosion	1	476	
		Short circuit	2	2,726	
		Sparks from engine	1	347	
		Unknown	5	14,565	
					23,681
Elevators (grain)	2	Friction in conveyer-belt	1	$2,533	
		Unknown	1	150,773	
					153,306
Factories (bed and mattress)	2	Matches, carelessness with	1	$349	
		Unknown	1	46,359	
					46,708
Factories (bleach products)	1	Unknown	1		350
Factories (brick)	3	Furnaces insufficiently protected	1	$15	
		Short circuit	1	82	
		Unknown	1	4,379	
					4,476
Factories (electro-plating)	1	Electrical appliances	1		110
Factories (furniture)	9	Exposure	1	$19,422	
		Incendiary	1	13,584	
		Inflammable vapours, ignition of	1	7,718	
		Spontaneous ignition	1	1,377	
		Unknown	5	36,527	
					78,628
Factories (paint)	2	Inflammable vapours, ignition of	1	$1,679	
		Unknown	1	150	
					1,829
Factories (paper products)	1	Steam-pipe insufficiently protected	1		9,531
Factories (plastic products)	1	Short circuit	1		32
Factories (rag)	2	Unknown	2		6,144
Factories (roofing materials)	2	Chimney, sparks from	1	$25	
		Gasoline torch	1	210,750	
					210,775
Factories (sash and door)	2	Spontaneous ignition	1	$114,168	
		Unknown	1	42,760	
					156,928
Factories (sausage)	1	Hot grease, ignition of	1		579
Factories (veneer and plywood)	5	Dust explosion	2	$2,029	
		Spontaneous ignition	1	395	
		Unknown	2	1,398	
					3,822
Fences	6	Exposure	3	$307	

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

Property		Causes		Amount of Loss	
		Matches—			
		Carelessness with	1	$10	
		Children with	1	109	
		Sparks from bonfire	1	25	
					$451
Fishing-boats	33	Engine back-firing	3	$3,326	
		Gasoline—			
		Broken line	1	5,975	
		Carelessness with	1	2,500	
		On exhaust-pipe	3	487	
		Vapour explosion	8	32,315	
		Matches, carelessness with	2	4,800	
		Oil-burners—			
		Defective	2	741	
		Defective equipment	1	1,380	
		Short circuit	3	2,300	
		Smoking in bed	2	6,200	
		Sparks from engine	1	56	
		Unknown	6	64,225	
					124,305
Foundries	2	Exposure	1	$50	
		Furnace, sparks from	1	120	
					170
Fruit-packing plants	3	Friction in pulley	1	$132	
		Sparks from bonfire	1	203	
		Unknown	1	257	
					592
Funeral chapels	1	Smokers' carelessness	1		11,721
Gaols	2	Incendiary	1	$10	
		Unknown	1	1,500	
					1,510
Garages, private	102	Children playing with fire	1	$75	
		Electrical appliances, improper use of equipment	1	2,428	
		Engine back-firing	1	1,664	
		Exposure	10	3,734	
		Fireworks	2	634	
		Gasoline—			
		Carelessness with	4	4,528	
		On exhaust-pipe	1	302	
		Hot ashes, coals, etc.	4	494	
		Hot grease, ignition of	1	110	
		Incendiary	7	5,733	
		Inflammable vapours, ignition of	1	25	
		Matches—			
		Carelessness with	2	759	
		Children with	10	3,671	
		Oil-burner explosion	1	19,069	
		Short circuit	4	133,707	
		Smokers' carelessness	4	155	
		Sparks from bonfire	3	731	
		Spontaneous ignition	1	673	
		Stoves or stove-pipes—			
		Combustible materials too near	1	52	
		Defective	1	1,837	
		Unknown	42	46,815	
					227,196
Garages, public	21	Defective battery connection	1	$12,560	
		Gasoline, carelessness with	2	10,567	
		Incendiary	1	315	
		Inflammable vapours, ignition of	2	2,208	
		Oil-burner, defective	1	9,146	
		Oxy-gas welding or cutting equipment—			
		Carelessness with	1	8,871	
		Defective	1	227	
		Sparks from	1	105	
		Short circuit	2	433	
		Smokers' carelessness	3	159,393	
		Unknown	6	118,769	
					322,594
Gas-manufacturing plants	1	Gas explosion, natural	1		47,040
Gasoline-stations, service	23	Defective wiring	1	$2,391	
		Engine back-firing	2	321	
		Exposure	1	200	

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

Property		Causes		Amount of Loss	
		Gasoline—			
		Pump damaged by motor-vehicle	6	$1,830	
		Vapour explosion	1	291	
		Incendiary	2	2,799	
		Inflammable vapours, ignition of	1	125	
		Oil-burner, defective	2	17,802	
		Oxy-gas welding or cutting equipment, sparks from	1	49	
		Smokers' carelessness	1	375	
		Sparks from grinder	1	549	
		Stove, sparks from	1	6,107	
		Unknown	3	29,154	
					$61,993
Grandstands	4	Incendiary	1	$510	
		Smokers' carelessness	1	20	
		Unknown	2	62	
					592
Greenhouses	3	Boiler, defective	1	$875	
		Furnace, combustible materials too near	1	600	
		Oil-burning equipment, defective	1	4,656	
					6,131
Halls	20	Electrical appliances	2	$63	
		Furnace insufficiently protected	1	25	
		Heat radiation	1	200	
		Hot ashes, coals, etc.	1	206	
		Hot grease, ignition of	1	1,095	
		Incendiary	1	1,355	
		Oxy-gas welding or cutting equipment, carelessness with	1	667	
		Short circuit	1	2,985	
		Smokers' carelessness	4	151	
		Stove-pipe, defective	1	400	
		Unknown	6	20,406	
					27,553
Hospitals, nursing-homes and institutions	19	Electrical appliances	3	$134	
		Fireplace, sparks from	1	383	
		Fireworks	1	22	
		Incendiary	1	50	
		Matches, children with	1	118	
		Short circuit	1	150	
		Smokers' carelessness—			
		In bed	2	672	
		In unlisted locations	6	279	
		Stove, combustible materials too near	1	25	
		Unknown	2	12,243	
					14,076
Hotels	128	Chimney, sparks from	1	$18,781	
		Electrical appliances	3	657	
		Exposure	2	10,159	
		Fireplace, sparks from	1	135	
		Furnaces or furnace-pipes—			
		Defective	1	62,700	
		Insufficiently protected	1	662	
		Gas, natural, improper installation of appliance	1	125	
		Heat radiation	1	113	
		Hot grease, ignition of	1	232	
		Incendiary	5	147	
		Lightning	1	41,250	
		Oil-burners—			
		Defective equipment	2	372	
		Explosion	1	216	
		Short circuit	7	48,996	
		Smokers' carelessness—			
		In bed	59	6,539	
		In the home	1	18	
		In public premises	1	20	
		In unlisted locations	27	72,425	
		While intoxicated	3	404	
		Spontaneous ignition	1	131	
		Stove insufficiently protected	1	100	
		Unknown	7	18,290	
					282,472
House-boats	1	Unknown	1		300
Launches	29	Engine back-firing	2	$1,803	

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

Property		Causes		Amount of Loss	
		Gasoline—			
		Carelessness with	3	$750	
		Vapour explosion	6	36,577	
		Incendiary	1	25	
		Oil-burners defective	3	5,707	
		Short circuit	1	35	
		Smokers' carelessness	3	5,045	
		Sparks from engine	1	43	
		Stove insufficiently protected	1	2,471	
		Unknown	8	79,535	
					$131,991
Laundries	5	Electrical appliances	2	$1,467	
		Friction in machinery	1	317	
		Unknown	2	445	
					2,229
Logging camps	19	Friction in machinery	1	$9,457	
		Lightning	2	34,739	
		Oil-burning equipment, defective	1	1,108	
		Short circuit	2	2,578	
		Sparks from bonfire	2	1,394	
		Sparks from bush fire	3	7,693	
		Unknown	8	148,059	
					205,028
Machine-shops	11	Electrical appliances	1	$896	
		Furnace insufficiently protected	1	219	
		Gasoline-vapour explosion	2	10,100	
		Oxy-gas welding or cutting equipment—			
		Carelessness with	2	299	
		Sparks from	4	28,014	
		Unknown	1	3,045	
					42,573
Meat-packing plants	1	Stove, combustible materials too near	1		346
Medical clinics	2	Candles and open flames	1	$82	
		Matches, children with	1	50	
					132
Mines and mining properties	4	Gasoline, carelesness with	1	$150	
		Oil-burner, defective	1	96,351	
		Unknown	2	8,586	
					105,087
Motor courts	64	Chimney, defective	1	$20	
		Electrical appliances	4	292	
		Exposure	1	1,200	
		Furnace, combustible materials too near	1	37	
		Gas, liquefied petroleum, explosion	1	2,154	
		Gasoline stove	1	69	
		Incendiary	1	25	
		Inflammable vapours, ignition of	1	168	
		Matches, carelessness with	3	355	
		Short circuit	2	238	
		Smokers' carelessness—			
		In bed	14	808	
		In the home	2	191	
		In unlisted locations	20	779	
		Sparks from bonfire	1	175	
		Stoves or stove-pipes—			
		Combustible materials too near	5	300	
		Insufficiently protected	3	3,141	
		Unknown	3	2,541	
					12,493
Motor-vehicles (*1,111)—					
Automobiles, passenger	851	Collision	5	$3,708	
		Defective muffler	2	175	
		Defective wiring	20	1,314	
		Electrical appliances	16	2,410	
		Engine back-firing	54	19,547	
		Exposure	9	6,797	
		Fireworks	2	33	
		Friction—			
		In brake-drum	9	1,641	
		In tires	2	1,381	
		Gas, liquefied petroleum, improper use of	1	6,360	
		Gasoline—			
		Broken line	11	2,030	
		Carelessness with	6	2,229	

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

Property		Causes		Amount of Loss
		Gasoline—*Continued*		
		On exhaust-pipe	15	$12,811
		Vapour explosion	13	4,250
		Heat radiation	6	3,785
		Hot ashes	1	250
		Hot grease, ignition of	1	50
		Incendiary	13	11,421
		Inflammable vapours, ignition of	1	25
		Matches—		
		Carelessness with	3	2,647
		Children with	4	286
		Motor-vehicle upset	7	5,936
		Oxy-gas welding or cutting equipment, carelessness with	2	131
		Short circuit	218	61,775
		Smokers' carelessness	306	27,562
		Sparks from bonfire	4	1,338
		Sparks from mill burner	1	600
		Unknown	119	36,421
				$216,913
Buses	2	Engine back-firing	1	$20
		Short circuit	1	80
				$100
Motor-cycles	14	Collision	1	$700
		Engine back-firing	5	1,150
		Gasoline—		
		Broken line	2	445
		Carelessness with	2	655
		Short circuit	3	385
		Unknown	1	515
				$3,850
Tractors	59	Electrical appliances	1	$59
		Engine back-firing	1	27
		Exposure	1	6,355
		Friction—		
		In brake-drum	1	526
		In pulley	1	2,000
		In tires	3	980
		Gasoline—		
		Broken line	1	117
		Carelessness with	11	8,981
		On exhaust-pipe	2	1,050
		Vapour explosion	2	4,700
		Hot grease, ignition of	1	800
		Inflammable vapours, ignition of	2	7,882
		Matches, children with	1	325
		Oxy-gas welding or cutting equipment, carelessness with	1	1,042
		Short circuit	15	26,198
		Sparks from bonfire	2	127
		Sparks from bush fire	1	167
		Unknown	12	30,928
				$92,264
Trucks	185	Collision	1	$500
		Defective battery connection	1	35
		Defective wiring	2	6,463
		Electrical appliances	2	153
		Electro-welding equipment, sparks from	1	174
		Engine back-firing	9	5,830
		Exposure	7	9,290
		Fireworks	1	25
		Friction—		
		In brake-drum	3	4,726
		In tires	3	852

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

Property		Causes		Amount of Loss	
		Gasoline—			
		Broken line	8	$6,856	
		Carelessness with	7	11,250	
		On exhaust-pipe	8	15,702	
		Vapour explosion	1	1,280	
		Heat radiation	1	3,500	
		Hot ashes, coals, etc.	2	194	
		Incendiary	3	450	
		Inflammable vapours, ignition of	2	883	
		Matches—			
		Carelessness with	1	525	
		Children with	2	450	
		Motor-vehicle upset	6	34,539	
		Oxy-gas welding or cutting equipment—			
		Carelessness with	1	118	
		Defective	1	69	
		Sparks from	4	5,637	
		Short circuit	51	35,404	
		Smokers' carelessness	16	2,116	
		Sparks from bonfire	7	857	
		Unknown	34	88,932	
				$236,810	
					*$549,937
Mushroom-houses	3	Furnace insufficiently protected	1	$5	
		Stove insufficiently protected	2	335	
					340
Offices	28	Electrical appliances	2	$1,416	
		Exposure	3	1,543	
		Gas, natural, improper use of equipment	1	28	
		Hot ashes	1	72	
		Hot grease, ignition of	1	23	
		Incendiary	3	1,370	
		Oil-burner, defective	1	114	
		Short circuit	2	88	
		Smokers' carelessness	7	532	
		Unknown	7	48,749	
					53,935
Paper and pulp mills	8	Electrical appliances	1	$200	
		Friction in conveyer-belt	1	691	
		Short circuit	3	7,911	
		Sparks from mill burner	1	200	
		Unknown	2	5,433	
					14,435
Peat plants	3	Friction in conveyer-belt	1	$116,178	
		Spontaneous ignition	1	27,505	
		Unknown	1	17,308	
					160,991
Piggeries	1	Furnace-pipe, defective	1		1,692
Pile-drivers	1	Boiler, defective	1		29,176
Poolrooms	2	Smokers' carelessness	1	$8,139	
		Sparks from bonfire	1	80	
					8,219
Post offices	2	Exposure	1	$76	
		Short circuit	1	420	
					496
Poultry-houses	19	Defective brooder	3	$3,173	
		Kerosene stove	1	30	
		Matches, children with	1	5	
		Oil-burner explosion	1	156	
		Short circuit	1	15	
		Smokers' carelessness	1	100	
		Sparks from bonfire	1	600	
		Stove insufficiently protected	1	424	
		Unknown	9	44,835	
					49,338
Power-houses	1	Short circuit	1		1,000
Power-shovels	2	Gasoline carelessness	2		161
Printing plants	2	Electrical appliances	1	$183	
		Unknown	1	646	
					829

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

Property		Causes		Amount of Loss	
Pumps and pump-houses	6	Defective wiring	1	$823	
		Lightning	1	900	
		Sparks from bonfire	1	520	
		Unknown	3	657	
					$2,900
Radio stations	1	Short circuit	1		442
Railroad rolling-stock	6	Exposure	1	$79	
		Incendiary	3	5,114	
		Kerosene used to kindle fire	1	3,187	
		Stove insufficiently protected	1	96	
					8,476
Railroad stations	1	Unknown	1		1,000
Refineries, gasoline or oil	4	Gasoline—			
		Carelessness with	1	$93,621	
		Vapour explosion	1	3,400	
		Inflammable vapours, ignition of	1	1,000	
		Unknown	1	1,044	
					99,065
Restaurants	43	Chimney, defective	1	$510	
		Defective wiring	1	147	
		Electrical appliances	1	2,344	
		Exposure	6	13,735	
		Fireworks	1	200	
		Furnace insufficiently protected	1	65	
		Gas, liquefied petroleum—			
		Explosion	1	2,461	
		Improper installation of appliance	2	38,628	
		Hot ashes	1	50	
		Hot grease, ignition of	5	7,431	
		Incendiary	1	4,923	
		Lightning	1	15	
		Matches, children with	1	400	
		Short circuit	5	5,577	
		Smokers' carelessness	4	459	
		Stoves or stove-pipes—			
		Combustible materials too near	2	81	
		Defective	1	2,098	
		Insufficiently protected	5	21,795	
		Unknown	3	72,779	
					173,698
Rinks, ice-skating	1	Spontaneous ignition	1		69
Rooming-houses	92	Chimney—			
		Defective	1	$697	
		Sparks from	1	146	
		Electrical appliances	2	55	
		Fireplaces—			
		Defective	1	500	
		Sparks from	1	15	
		Furnace, sparks from	1	3,506	
		Gas, natural, explosion of	2	219	
		Gasoline torch	1	60	
		Incendiary	1	25	
		Matches, carelessness with	1	11	
		Short circuit	1	15	
		Smokers' carelessness—			
		In bed	22	1,217	
		In the home	22	20,441	
		In unlisted locations	26	1,860	
		Stove, combustible materials too near	1	12,713	
		Unknown	8	16,562	
					58,042
Sawmills	110	Boilers or boiler-pipes defective or overheated	5	$4,718	
		Defective battery connection	1	60,000	
		Defective wiring	1	6,863	
		Electrical appliances	4	8,354	
		Electro-welding equipment, sparks from	1	37,307	
		Friction—			
		In machinery	1	2,033	
		In pulley	1	3,960	
		Furnace, sparks from	1	50	
		Gasoline—			
		Carelessness with	1	8,500	
		Vapour explosion	2	10,462	

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

Property		Causes		Amount of Loss	
		Incendiary	1	$4,250	
		Inflammable vapours, ignition of	1	13,000	
		Kerosene stove	1	29,800	
		Lightning	1	850	
		Oxy-gas welding or cutting equipment, sparks from	5	357,858	
		Short circuit	4	58,527	
		Smokers' carelessness	4	44,043	
		Sparks from bush fire	2	16,886	
		Sparks from engine	1	28,432	
		Sparks from locomotive	1	11,000	
		Sparks from mill burner	28	513,649	
		Stove, sparks from	1	87,296	
		Unknown	42	1,232,843	
					$2,540,681
Schools	37	Chimneys—			
		Defective	1	$247	
		Sparks from	2	6,808	
		Defective wiring	1	1,238	
		Electrical appliances	2	994	
		Fireplace, sparks from	1	9	
		Furnace insufficiently protected	1	2,738	
		Gas, liquefied petroleum, improper use of	1	100,906	
		Gasoline carelessness	1	40,000	
		Incendiary	4	1,588	
		Matches, children with	2	2,210	
		Molten metal	1	25	
		Oil-burning equipment, defective	1	8,577	
		Short circuit	2	85,088	
		Smokers' carelessness	5	20,306	
		Spontaneous ignition	2	2,945	
		Stove, sparks from	1	136	
		Unknown	9	334,638	
					608,453
Sheds	153	Candles and open flames	1	$176	
		Chimneys—			
		Defective	1	25	
		Sparks from	2	203	
		Defective wiring	1	700	
		Electrical appliances	1	590	
		Exposure	7	671	
		Fireworks	3	177	
		Gasoline—			
		Carelessness with	2	2,700	
		Vapour explosion	2	8,675	
		Heat radiation	2	1,981	
		Hot ashes, coals, etc.	5	736	
		Incendiary	10	1,725	
		Matches, children with	20	4,440	
		Oil-burning equipment, defective	1	2,473	
		Oxy-gas welding or cutting equipment, sparks from	2	400	
		Short circuit	1	225	
		Smokers' carelessness	14	5,702	
		Sparks from bonfire	17	19,833	
		Sparks from bush fire	1	300	
		Spontaneous ignition	3	414	
		Stoves or stove-pipes—			
		Combustible materials too near	3	2,430	
		Defective	1	1,043	
		Insufficiently protected	1	348	
		Sparks from	1	1,700	
		Unknown	51	265,903	
					323,570
Sheet-metal works	4	Exposure	1	$438	
		Oil-burners—			
		Defective	1	112	
		Defective equipment	1	40	
		Unknown	1	34,832	
					35,422
Shingle-mills	6	Chimney, sparks from	1	$300	
		Gasoline torch	1	411	
		Incendiary	1	16,155	

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

Property		Causes		Amount of Loss	
		Sparks from mill burner	1	$50	
		Unknown	2	4,494	
					$21,410
Ships	2	Incendiary	1	$650	
		Unknown	1	200	
					850
Shipyards	1	Short circuit	1		934
Ski lifts	1	Lightning	1		1,137
Smelting plants	27	Chimney, defective	1	$50	
		Dust explosion	2	125	
		Electrical appliances	2	1,410	
		Friction in conveyer-belt	1	75	
		Furnaces or furnace-pipes—			
		Defective	1	20	
		Insufficiently protected	2	220	
		Sparks from	1	20	
		Gasoline stoves, lamps, torches	1	20	
		Molten metal	3	485	
		Oil-burning equipment, defective	1	30	
		Oxy-gas welding or cutting equipment, sparks from	4	190	
		Short circuit	5	1,040	
		Smokers' carelessness	1	150	
		Unknown	2	25,305	
					29,140
Smoke-houses	4	Hot grease	3	$636	
		Stove insufficiently protected	1	135	
					771
Steam baths	1	Smokers' carelessness	1		900
Steel-fabricating plants	6	Exposure	1	$470	
		Matches, children with	1	1,187	
		Short circuit	1	13,849	
		Unknown	3	12,076	
					27,582
Stores	207	Chimneys—			
		Defective or overheated	3	$2,495	
		Sparks from	1	17	
		Defective wiring	1	95	
		Electrical appliances	13	73,303	
		Exposure	15	73,694	
		Fireworks	3	174	
		Gasoline-torch	1	25	
		Heat radiation	1	248	
		Hot ashes	1	25	
		Hot grease, ignition of	3	10,370	
		Incendiary	6	13,985	
		Inflammable vapours, ignition of	2	1,357	
		Matches—			
		Carelessness with	1	12	
		Children with	3	3,994	
		Oil-burners—			
		Defective	5	2,140	
		Explosion	3	4,407	
		Oxy-gas welding or cutting equipment—			
		Carelessness with	1	45,311	
		Sparks from	2	2,125	
		Short circuit	17	90,323	
		Smokers' carelessness	88	7,604	
		Sparks from bonfire	4	2,479	
		Stoves or stove-pipes—			
		Combustible materials too near	3	96	
		Insufficiently protected	1	42,325	
		Sparks from	3	1,052	
		Unknown	26	465,140	
					842,796
Stores and apartments	38	Chimneys—			
		Defective or overheated	2	$733	
		Sparks from	1	22	
		Electrical appliances	2	2,209	
		Exposure	2	415	
		Fireworks	1	6	
		Hot ashes	1	169	
		Hot grease, ignition of	1	59	
		Incendiary	4	12,621	

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

Property		Causes		Amount of Loss	
		Matches, children with	1	$15	
		Oil-burners—			
		Defective	1	125	
		Explosion	1	473	
		Smokers' carelessness	16	4,671	
		Unknown	5	19,753	
					$41,271
Stores and dwellings	40	Chimney, sparks from	1	$63	
		Defective wiring	1	14,838	
		Electrical appliances	2	40,216	
		Exposure	2	13,919	
		Furnace insufficiently protected	1	113	
		Gasoline-torch	1	143	
		Hot grease, ignition of	1	2,500	
		Kerosene stove	1	50	
		Matches, children with	1	10	
		Oil-burners—			
		Defective	1	388	
		Defective equipment	1	1,450	
		Explosion	1	8	
		Smokers' carelessness	12	918	
		Sparks from bonfire	2	11,355	
		Stoves or stove-pipes—			
		Insufficiently protected	1	35	
		Sparks from	1	9,000	
		Unknown	10	123,786	
					218,792
Stores and offices	17	Exposure	6	$31,024	
		Gas, liquefied petroleum, improper use of equipment	1	1,789	
		Oil-burning equipment, defective	1	137	
		Short circuit	2	274	
		Smokers' carelessness	2	4,862	
		Stove, combustible materials too near	1	231	
		Unknown	4	45,764	
					84,081
Stores and rooms	30	Chimney, sparks from	1	$53	
		Defective wiring	2	14,882	
		Electrical appliances	2	168	
		Exposure	2	8,143	
		Heat radiation	1	731	
		Hot grease, ignition of	1	55	
		Incendiary	3	19,747	
		Matches—			
		Carelessness with	1	42	
		Children with	1	14	
		Oil-burners—			
		Defective	1	19,847	
		Defective equipment	1	30	
		Short circuit	1	135	
		Smokers' carelessness	11	2,704	
		Unknown	2	2,727	
					69,278
Tar-pots	4	Gas, liquefied petroleum, improper use of	1	$749	
		Hot tar, ignition of	3	2,827	
					3,576
Tents	3	Lightning	1	$4,553	
		Smokers' carelessness	1	15	
		Unknown	1	600	
					5,168
Theatres	4	Smokers' carelessness	2	$70,579	
		Unknown	2	871	
					71,450
Trailers and semi-trailers	14	Engine back-firing	1	$2,550	
		Exposure	1	650	
		Gasoline, broken line	1	1,304	
		Hot grease, ignition of	1	74	
		Incendiary	2	3,845	
		Inflammable vapours, ignition of	1	2,654	
		Motor-vehicle upset	1	11,500	
		Oxy-gas welding or cutting equipment, carelessness with	1	2,500	
		Short circuit	1	1,000	
		Unknown	4	9,605	
					35,682

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

Property		Causes		Amount of Loss	
Trailers, house	51	Chimney, defective	1	$2,200	
		Defective wiring	1	5,685	
		Electrical appliances	1	54	
		Friction in tires	1	4,200	
		Gas, liquefied petroleum—			
		Explosion	1	50	
		Improper use of	1	2,050	
		Gasoline, broken line	1	600	
		Matches—			
		Carelessness with	1	25	
		Children with	2	100	
		Oil-burners—			
		Defective	4	6,804	
		Defective equipment	5	185	
		Explosion	1	60	
		Short circuit	5	4,478	
		Smokers' carelessness	10	6,057	
		Stoves or stove-pipes—			
		Combustible materials too near	1	87	
		Insufficiently protected	2	6,363	
		Unknown	13	43,369	
					$82,367
Trestles	1	Sparks from bonfire	1		937
Tug-boats	7	Gasoline-vapour explosion	1	$5,000	
		Inflammable vapours, ignition of	2	10,200	
		Matches, carelessness with	1	10,000	
		Short circuit	1	26,860	
		Unknown	2	30,000	
					82,060
Warehouses	49	Boilers and pipes, defective	1	$1,032	
		Chimneys—			
		Defective	1	1,925	
		Sparks from	1	46	
		Electrical appliances	2	1,566	
		Exposure	3	4,938	
		Fireworks	1	949	
		Furnaces or furnace-pipes—			
		Defective	1	24,614	
		Sparks from	1	843	
		Gasoline, broken line	1	8,375	
		Hot ashes	1	902	
		Incendiary	1	53,169	
		Matches, children with	1	443	
		Molten metal	1	3,500	
		Oil-burners—			
		Defective	2	3,174	
		Defective equipment	1	4,098	
		Explosion	1	252	
		Oxy-gas welding or cutting equipment, sparks from	1	215	
		Short circuit	1	3,074	
		Smokers' carelessness	6	16,749	
		Stoves, combustible materials too near	3	550	
		Unknown	18	316,925	
					447,339
Water-tanks	1	Unknown	1		228
Welding-machines	2	Engine back-firing	1	$257	
		Gasoline-vapour explosion	1	333	
					590
Welding-shops	1	Oxy-gas welding or cutting equipment, sparks from	1		903
Wharves	1	Oxy-gas welding or cutting equipment, sparks from	1		1,500
Woodworking plants	2	Incendiary	1	$200	
		Smokers' carelessness	1	8,235	
					8,435
Workshops	6	Chimney, sparks from	1	$36	
		Oxy-gas welding or cutting equipment, sparks from	1	415	
		Stoves or stove-pipes—			
		Defective	1	425	
		Sparks from	2	1,034	
		Unknown	1	1,000	
					2,910
Totals	8,063		8,063		$12,702,394

TABLE V.—SUMMARY

	Amount of Loss						Fires Reported					
	City Municipalities (35)	District Municipalities (30)	Town Municipalities (2)	Village Municipalities (55)	Fire Districts (19)	Total	City Municipalities	District Municipalities	Town Municipalities	Village Municipalities	Fire Districts	Total
1958												
January	352	227	3	19	94	695	$292,253	$157,002	$7,904	$6,122	$212,834	$676,115
February	274	166	2	11	71	524	272,554	69,810	8,036	40,650	160,847	551,897
March	303	201	------	25	84	613	534,765	206,233	------	12,252	361,466	1,114,716
April	313	214	2	28	109	666	158,374	278,792	1,425	19,716	455,217	913,524
May	383	192	5	37	124	741	254,167	183,213	7,858	67,565	410,923	923,726
June	322	184	5	27	91	629	490,770	99,669	5,850	235,465	284,848	1,116,602
July	335	186	1	43	106	671	733,312	416,501	41	215,106	276,890	1,641,850
August	334	180	6	23	120	663	350,142	175,297	470	12,379	1,044,755	1,583,043
September	325	188	------	18	109	640	179,239	294,436	------	10,751	508,343	992,769
October	357	182	3	26	94	662	421,949	117,968	6,311	16,247	442,777	1,005,252
November	352	198	1	23	114	688	456,178	118,734	152	4,621	413,136	992,821
December	451	263	7	32	118	871	389,037	161,432	11,126	77,501	550,983	1,190,079
Totals	4,101	2,381	35	312	1,234	8,063	$4,532,740	$2,279,087	$49,173	$718,375	$5,123,019	$12,702,394

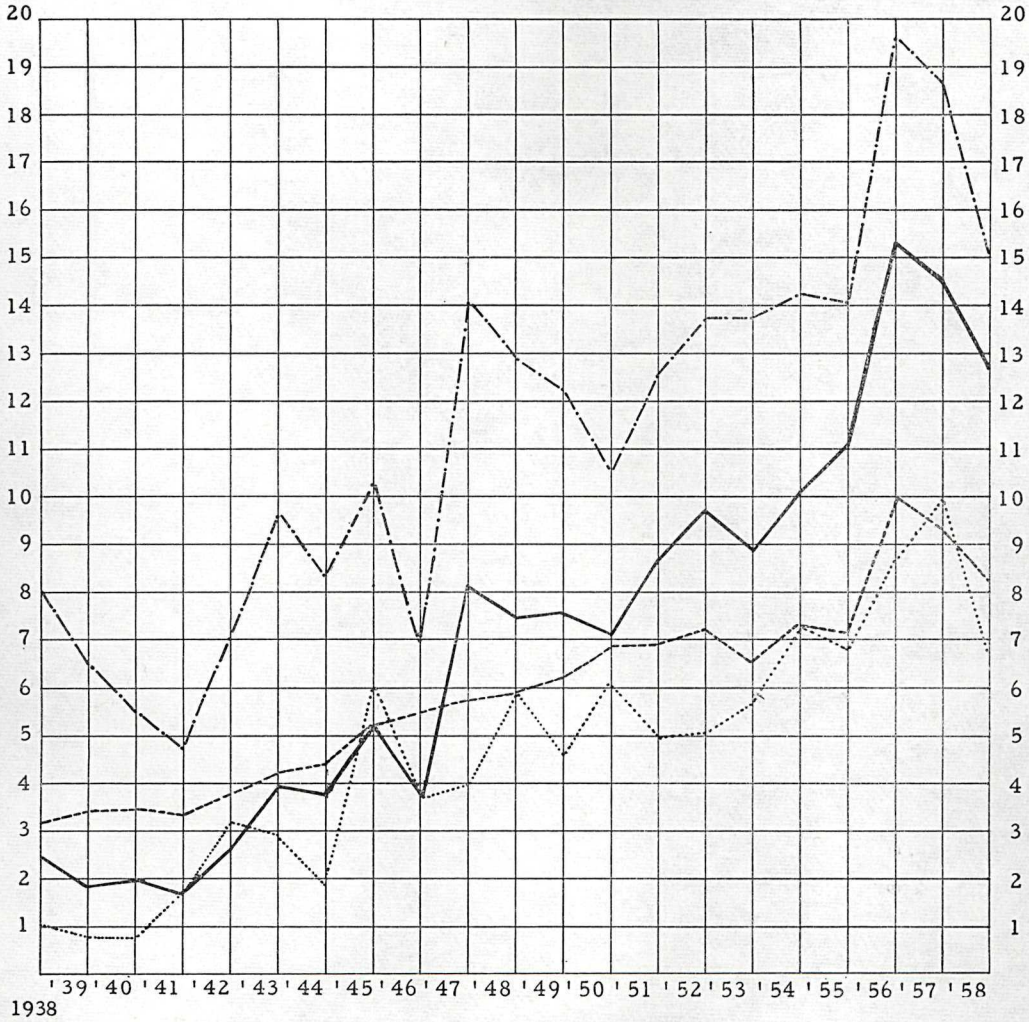
TABLE VI.—TEN-YEAR COMPARATIVE STATEMENT OF FIRE LOSSES

	City Municipalities		District Municipalities		Town Municipalities		Village Municipalities		Fire Districts		Total	
	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses
1958	4,101	$4,532,740	2,381	$2,279,087	35	$49,173	312	$718,375	1,234	$5,123,019	8,063	$12,702,394
1957	4,050	4,789,896	2,197	3,223,907	------	------	317	491,843	1,233	6,028,982	7,797	14,534,628
1956	4,251	4,812,453	1,999	3,437,286	------	------	325	813,436	1,263	6,245,570	7,838	15,308,745
1955	4,273	3,546,272	1,866	2,168,413	------	------	313	521,498	1,191	4,653,437	7,643	10,889,620
1954	4,075	3,202,716	1,728	2,571,833	------	------	307	503,161	984	3,899,992	7,094	10,177,702
1953	3,770	2,905,393	1,456	1,641,308	------	------	239	240,596	964	3,293,193	6,429	8,080,490
1952	4,306	4,516,437	1,493	1,085,927	------	------	263	499,587	1,000	3,501,280	7,062	9,603,231
1951	4,167	2,755,943	1,540	1,186,884	------	------	256	979,081	926	3,682,518	6,889	8,604,426
1950	4,137	2,415,961	1,444	1,494,216	------	------	229	330,176	965	2,812,353	6,775	7,052,706
1949	4,012	2,753,880	1,175	1,430,610	------	------	189	558,326	785	2,813,413	6,161	7,556,229
Totals	41,142	$36,231,691	17,279	$20,519,471	35	$49,173	2,750	$5,656,079	10,545	$42,053,757	71,751	$104,510,171

TABLE VII.—LOSS OF LIFE, 1949–58

Occupancy	Number of Fires	Cause of Fire	Loss of Life			
			Men	Women	Children	Total
Apartments	2	Incendiary (1)	1	----	----	1
		Unknown (1)	1	----	----	1
Bath-houses	1	Gasoline carelessness (1)	----	1	----	1
Dwellings	28	Child playing with fire (1)	----	----	1	1
		Furnace, combustible materials too near (1)	----	2	----	2
		Gasoline (2)—				
		Carelessness with (1)	1	----	----	1
		Stove (1)	----	1	----	1
		Kerosene (3)—				
		Carelessness with (2)	1	1	----	2
		Stove (1)	1	----	----	1
		Matches, children with (2)	----	----	3	3
		Short circuit (1)	1	----	1	2
		Smokers' carelessness (11)—				
		Smoking in bed (4)	4	----	----	4
		Smoking in the home (1)	----	1	----	1
		Smoking while intoxicated (4)	3	1	----	4
		In unlisted locations (2)	----	2	----	2
		Stove insufficiently protected (2)	2	----	----	2
		Unknown (5)	2	3	5	10
Hospitals	2	Gasoline carelessness (1)	----	----	12	12
		Stove, combustible materials too near (1)	----	1	----	1
Hotels	2	Smokers' carelessness (2)—				
		Smoking in bed (1)	1	----	----	1
		In unlisted locations (1)	1	1	1	3
Outdoors	3	Sparks from bonfire (3)	3	----	----	3
Railway cars	1	Unknown (1)	1	----	----	1
Refineries, gasoline	1	Gasoline carelessness (1)	1	----	----	1
Restaurants	1	Unknown (1)	1	----	----	1
Rooming-houses	2	Incendiary (1)	1	----	----	1
		Stove, combustible materials too near (1)	1	----	----	1
Shingle-mills	1	Furnace insufficiently protected (1)	----	----	1	1
Stores	1	Unknown (1)	1	----	----	1
Yards	1	Sparks from bonfire (1)	----	----	1	1
Totals, 1958	46		28	14	25	67
Totals, 1957			45	12	41	98
Totals, 1956			38	16	31	85
Totals, 1955			26	11	28	65
Totals, 1954			29	13	30	72
Totals, 1953			24	13	19	56
Totals, 1952			27	6	17	50
Totals, 1951			19	12	18	49
Totals, 1950			28	13	19	60
Totals, 1949			24	6	15	45
Ten-year totals			288	116	243	647

TABLE VIII.—TWENTY-YEAR FIRE-LOSS GRAPH



——— Annual Dollar Loss (millions)
..... Fire Fatalities (tens)
—·—·— Average Dollar Loss per Fire (hundreds)
------- Number of Fires (thousands)

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