THE FIRE MARSHAL

FOR THE PROVINCE OF BRITISH COLUMBIA

THIRTY-NINTH

ANNUAL REPORT

STATISTICS, 1960

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in right of the Province of British Columbia.
1961

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 Thirty-ninth Annual Report of the Fire Marshal for the year ended December 31st, 1960.

ROBERT W. BONNER,
Attorney-General.

Victoria, B.C., March 31st, 1961.

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REPORT OF THE FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL,
VANCOUVER, B.C., March 31st, 1961.

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

SIR,—I beg to submit herewith the Thirty-ninth Annual Report of the Fire Marshal for the year ended December 31st, 1960. I again regret to report an increase in the fire loss for the Province. The loss for the year amounted to $18,290,383, an increase of $3,430,831 over the previous year, notwithstanding the fact that there was a decrease of 446 in the number of fires. Several major fires of over $250,000 have been responsible for the increased financial loss. The British Columbia Forest Products fire in Vancouver caused a loss of over $2,500,000, and there were fifty-eight fires with losses over $50,000 each, making a total of $10,121,676.

It is a source of satisfaction to report a reduction in deaths due to fire. Fire took the lives of thirty-eight men, fourteen women, and nineteen children, a total of seventy-one and a decrease of fifteen from the previous year. Again smokers' carelessness continues to be our leading cause of fire. It was responsible for a total of 2,777 fires and twelve deaths by fire, while carelessness with inflammable liquids accounted for sixty-four fires and thirteen deaths.

During the year we assisted in organizing and training several Indian bands located in the northern part of the Province. We feel that this may result in a reduction of the life loss in these areas.

We continue to organize and, as far as possible, conduct courses in fire-prevention education throughout the Province. It will be noted that in 1960 the number of fire inspections increased and the number of orders under the *Fire Marshal Act* decreased. This is a very desirable trend. Staff Inspectors continue to assist Local Assistant Fire Marshals in their inspection work and were responsible for 594 inspections. Inspections made by the Local Assistant Fire Marshals, as shown in Table II, were 95,259 for the year. Three courses of instruction for Local Assistant Fire Marshals were held at Vancouver, and sixty-two received training.

The increased use of radioactive materials requires that this office advise the local authorities as to date of arrival of material, route to be taken, final location, and steps to be taken in the event of fire.

Our regulations governing the approval, sale, installation, and maintenance of oil-burners were amended during the year.

Table I shows that 336 fire investigations were made by members of the staff throughout the year. These investigations resulted in fifty-eight charges involving forty-eight persons, with thirty-seven convictions, four acquittals, two pending, and five mentally unfit. It will be noted that there were more juveniles involved this year, which is in keeping with the national trend.

During the year there were twenty-seven prosecutions under the *Fire Marshal Act* and regulations, with twenty-seven convictions. Sixteen appeals from orders issued by the Local Assistant Fire Marshals were heard and decisions given. There were no petitions to the Courts from the decisions of the Fire Marshal.

The office responded to several emergency calls for assistance, chief of which was the Port Alice oil-storage fire, where a staff Inspector responded by aircraft. He directed local firemen and was successful in extinguishing the fire within seven hours of his arrival.

Our travelling fire department instructional units gave instruction to 114 fire departments, with a total of 1,944 firemen receiving training.

During the year thirteen projectionists' examinations were held under the Theatre Regulations. Our Inspectors checked and approved 431 plans for new construction. These plans included bulk-storage plants for inflammable liquids, liquid-petroleum and natural-gas plants, hospitals, theatres, assembly-halls, and many other types of public buildings.

I am pleased to report that the membership of the British Columbia Chapter of the Institution of Fire Engineers of Great Britain now stands at ninety-five, more than twice the number registered in 1959. This organization is the only professional one in the field in Canada, and examinations are held each February at the University of British Columbia.

The Fire Marshal and staff attended numerous meetings during the year in connection with fire prevention and protection. Some of the committees involved were the Greater Vancouver Fire Protection Association, the National Research Council, the British Columbia Safety Council, the Fire Advisory Council, the Emergency Measures Organization, Ottawa, and many others. We continue to test fire apparatus for the various municipalities, assist in the enactment of local fire-prevention by-laws, and provide engineering advice covering the entire field of fire protection.

During the year we have worked very closely with the Canadian Army, the Emergency Measures Organization, and the Provincial Civil Defence Co-ordinator in all phases of fire protection.

May I take this opportunity to thank the members of the various fire and police departments, the British Columbia Research Council, the National Harbours Board, the civil defence organizations, and my own staff for their excellent help and co-operation during the year. I would also like to include the members of the Royal Canadian Mounted Police in the Province, Local Assistants to the Fire Marshal, and insurance companies and their adjusters.

I have the honour to be,

Sir,

Your obedient servant,

BASIL NIXON,

Fire Marshal.

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

Number of Fires Investigated

Origin of fires—	
Unknown	61
Accidental or negligent	171
Incendiary	104
Total	336

Number of Charges Laid

	Adults	Juveniles
Arson	16	11
Setting fire to other substances	4	7
Mischief	4	2
Other crimes	6	3
Mental Hospitals Act	5	----
Totals	35	23

Grand total, 58.

Number of Persons Charged

	Adults	Juveniles
Convicted	19	18
Acquitted	4	----
Pending	2	----
Committed to mental hospital	5	----
Totals	30	18

Grand total, 48.

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

City Municipalities (32)

	Inspections	Orders		Inspections	Orders
Alberni	----	----	New Westminster	4,363	----
Armstrong	71	----	North Vancouver	2,995	2
Chilliwack	181	----	Penticton	199	4
Courtenay	71	----	Port Alberni	224	----
Cranbrook	612	1	Port Coquitlam	----	----
Dawson Creek	1,508	----	Port Moody	25	3
Duncan	52	3	Prince George	806	----
Enderby	15	----	Prince Rupert	182	2
Fernie	96	1	Revelstoke	280	----
Grand Forks	6	----	Rossland	----	----
Greenwood	----	----	Trail	2,555	----
Kamloops	----	----	Vancouver	41,748	39
Kelowna	905	----	Vernon	164	----
Kimberley	367	1	Victoria	14,778	1
Langley	34	----	White Rock	51	6
Nanaimo	1,235	2			
Nelson	420	3	Totals	73,943	68

District Municipalities (31)

Burnaby	6,991	1	North Vancouver	1,125	6
Central Saanich	12	----	Oak Bay	2,604	----
Chilliwhack	716	----	Peachland	----	----
Coldstream	13	----	Pitt Meadows	----	----
Coquitlam	----	----	Powell River	137	----
Delta	937	11	Richmond	----	----
Esquimalt	244	----	Saanich	400	30
Fraser Mills	----	----	Salmon Arm	----	----
Glenmore	----	----	Spallumcheen	----	----
Kent	----	----	Sumas	----	----
Kitimat	769	1	Summerland	----	----
Langley	108	----	Surrey	1,303	----
Maple Ridge	3	2	Tadanac	47	----
Matsqui	----	----	Terrace	158	5
Mission	----	----	West Vancouver	146	----
North Cowichan	190	----			
			Totals	15,903	56

Town Municipalities (3)

Fort St. John	39	3
Mission City	128	----
Quesnel	----	----
Totals	167	3

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

Village Municipalities (57)

	Inspections	Orders		Inspections	Orders
Abbotsford	-----	-----	Merritt	-----	-----
Alert Bay	-----	-----	Montrose	67	1
Ashcroft	-----	-----	New Denver	13	1
Burns Lake	-----	-----	North Kamloops	137	1
Campbell River	363	7	Oliver	-----	-----
Castlegar	-----	-----	Osoyoos	-----	-----
Chapman Camp	26	-----	Parksville	114	2
Comox	71	-----	Pemberton	-----	-----
Creston	42	9	Pouce Coupe	-----	-----
Cumberland	57	1	Princeton	72	2
Fort St. James	-----	-----	Qualicum Beach	17	-----
Fruitvale	-----	-----	Salmo	3	-----
Gibsons Landing	-----	-----	Salmon Arm	-----	-----
Golden	13	1	Sechelt	-----	-----
Harrison Hot Springs	-----	-----	Sidney	-----	-----
Hazelton	-----	-----	Silverton	-----	-----
Hope	-----	-----	Slocan	-----	-----
Houston	-----	-----	Smithers	-----	-----
Invermere	-----	-----	Squamish	-----	-----
Kaslo	-----	-----	Stewart	13	-----
Keremeos	-----	-----	Taylor	-----	-----
Kinnaird	84	1	Telkwa	1	-----
Ladysmith	-----	-----	Tofino	-----	-----
Lake Cowichan	-----	-----	Ucluelet	-----	-----
Lillooet	-----	-----	Vanderhoof	-----	-----
Lumby	33	-----	Warfield	32	-----
Lytton	-----	-----	Williams Lake	45	-----
McBride	-----	-----	Zeballos	-----	-----
Marysville	208	-----	Totals	1,411	26

Local Districts (2)

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

Fire Districts (19)

Cariboo, County of	16	-----	Prince Rupert, County of	7	-----
Colwood	-----	-----	Sooke	-----	-----
District Lot 172	-----	-----	University Area	2,140	-----
Ioco	-----	-----	Vancouver, County of	231	-----
Kelowna	-----	-----	Vernon	-----	-----
Kootenay, County of	33	-----	Victoria, County of	-----	-----
Langford	38	1	View Royal	-----	-----
Nanaimo, County of	49	-----	Westminster, County of	-----	-----
Ocean Falls	1,193	-----	Yale, County of	128	-----
Prince George	-----	-----	Totals	3,835	1

	Inspections	Orders
Grand totals, 1960	95,259	154
Grand totals, 1959	91,330	498
Grand totals, 1958	91,959	647
Grand totals, 1957	86,684	975
Grand totals, 1956	80,145	875
Grand totals, 1955	78,523	825
Grand totals, 1954	78,284	801
Grand totals, 1953	78,885	562
Grand totals, 1952	80,573	345
Grand totals, 1951	82,321	644

TABLE III.—FIRES REPORTED

City Municipalities (32)

District Reporting	Number	Amount of Loss	District Reporting	Number	Amount of Loss
Alberni	22	$20,974	New Westminster	217	$589,252
Armstrong	9	49,486	North Vancouver	120	47,759
Chilliwack	46	20,665	Penticton	92	224,012
Courtenay	21	5,149	Port Alberni	53	22,582
Cranbrook	22	5,625	Port Coquitlam	21	10,736
Dawson Creek	54	312,960	Port Moody	11	14,610
Duncan	23	78,669	Prince George	69	55,922
Enderby	----	----------	Prince Rupert	44	97,116
Fernie	7	8,484	Revelstoke	25	9,462
Grand Forks	8	6,683	Rossland	18	10,219
Greenwood	4	8,186	Trail	65	12,347
Kamloops	52	18,283	Vancouver	2,080	5,751,483
Kelowna	80	38,367	Vernon	34	61,623
Kimberley	28	3,793	Victoria	422	478,243
Langley	5	5,383	White Rock	20	109,423
Nanaimo	114	82,928			
Nelson	37	17,177	Totals	3,823	$8,177,601

District Municipalities (31)

Burnaby	416	$456,173	North Vancouver	195	$163,898
Central Saanich	18	14,349	Oak Bay	133	18,288
Chilliwhack	52	57,390	Peachland	6	1,209
Coldstream	10	116,572	Pitt Meadows	4	52,527
Coquitlam	85	79,003	Powell River	44	34,920
Delta	67	51,291	Richmond	180	545,291
Esquimalt	54	8,139	Saanich	263	55,809
Fraser Mills	1	21	Salmon Arm	14	10,265
Glenmore	11	187,814	Spallumcheen	3	4,999
Kent	8	18,262	Sumas	11	9,585
Kitimat	29	17,092	Summerland	19	300,476
Langley	36	167,163	Surrey	291	394,621
Maple Ridge	56	153,249	Tadanac	32	21,959
Matsqui	32	62,494	Terrace	31	18,208
Mission	24	82,935	West Vancouver	158	140,429
North Cowichan	41	75,138			
			Totals	2,324	$3,319,569

Town Municipalities (3)

Fort St. John	12	$14,713
Mission City	13	67,583
Quesnel	26	42,251
Totals	51	$124,547

TABLE III.—FIRES REPORTED—*Continued*

Village Municipalities (57)

District Reporting	Number	Amount of Loss	District Reporting	Number	Amount of Loss
Abbotsford	14	$36,481	Merritt	9	$9,259
Alert Bay	4	6,375	Montrose	3	161
Ashcroft	3	155	New Denver	2	2,329
Burns Lake	8	6,145	North Kamloops	28	17,007
Campbell River	29	30,113	Oliver	10	31,733
Castlegar	8	2,057	Osoyoos	11	2,557
Chapman Camp	2	571	Parksville	8	5,815
Comox	10	5,146	Pemberton	1	3,718
Creston	2	330	Pouce Coupe	1	7,060
Cumberland	8	22,413	Princeton	5	11,977
Fort St. James	----	----	Qualicum Beach	2	240
Fruitvale	4	239	Salmo	2	133
Gibsons Landing	4	10,994	Salmon Arm	7	281
Golden	1	550	Sechelt	1	22
Harrison Hot Springs	1	835	Sidney	6	5,899
Hazelton	----	----	Silverton	1	18
Hope	8	1,514	Slocan	----	----
Houston	2	419	Smithers	15	36,548
Invermere	2	900	Squamish	7	792
Kaslo	----	----	Stewart	1	80
Keremeos	2	446	Taylor	2	834
Kinnaird	5	122	Telkwa	4	14,322
Ladysmith	12	746	Tofino	1	78
Lake Cowichan	5	52,229	Ucluelet	1	10
Lillooet	3	28,841	Vanderhoof	3	1,797
Lumby	3	829	Warfield	9	1,621
Lytton	2	1,184	Williams Lake	14	6,495
McBride	2	82	Zeballos	2	12,180
Marysville	1	100			
			Totals	301	$382,782

Local Districts (2)

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

Fire Districts (19)

Cariboo, County of	306	$3,033,454	Sooke	----	----
Colwood	13	5,834	University Area	21	$6,127
District Lot 172	3	57	Vancouver, County of	73	228,874
Ioco	1	32	Vernon	----	----
Kelowna	30	13,199	Victoria, County of	62	304,909
Kootenay, County of	138	754,376	View Royal	15	766
Langford	28	50,145	Westminster, County of	51	107,469
Nanaimo, County of	243	609,544	Yale, County of	258	898,466
Ocean Falls	8	22,273			
Prince George	----	----	Totals	1,323	$6,285,884
Prince Rupert, County of	73	250,359			
			Grand totals	7,822	$18,290,383

TABLE III.—FIRES REPORTED—*Continued*

Construction of Buildings Burned

	Number	Amount of Loss
Fire-resistive—		
City municipalities	20	$15,776
District municipalities	25	17,720
Town municipalities	----	----
Village municipalities	----	----
Local districts	----	----
Fire districts	3	3,103
Brick, concrete, or heavy timber—		
City municipalities	232	2,131,299
District municipalities	42	280,496
Town municipalities	3	50,066
Village municipalities	5	13,754
Local districts	----	----
Fire districts	16	43,788
Wood frame—		
City municipalities	3,001	5,925,502
District municipalities	1,926	2,866,729
Town municipalities	44	73,354
Village municipalities	259	357,583
Local districts	----	----
Fire districts	974	5,222,264
Metal or corrugated iron—		
City municipalities	570	105,024
District municipalities	331	154,624
Town municipalities	4	1,127
Village municipalities	37	11,445
Local districts	----	----
Fire districts	330	1,016,729
Totals	7,822	$18,290,383

TABLE IV.—CAUSES OF FIRES

Causes of Fires	Total Number		Amount of Loss	
Aeroplane crash		1		$952
Boilers or boiler-pipes defective or overheated		4		76,579
Candles and open flames		75		13,147
Children playing with fire		17		3,281
Chimneys—				
Defective or overheated	178		$160,970	
Sparks from	80		101,537	
		258		262,507
Collision		15		241,196
Defective battery connection		6		8,645
Defective brooder		2		7,513
Defective oven		2		903
Defective wiring		65		141,951
Dust explosion		1		1,500
Electrical appliances and equipment (improper use of appliance or defective equipment)		416		194,209
Electrical wiring overloaded		8		8,446
Electro-welding equiment, sparks from		2		3,253
Engine back-firing		82		49,818
Exposure		198		428,574
Fireplaces—				
Defective	16		$11,457	
Sparks from	207		21,372	
		223		32,829
Fireworks		38		4,924
Friction—				
In brake-drum	24		$20,984	
In conveyor-belt	1		1,000	
In machinery	8		18,818	
In tires	6		2,363	
		39		43,165
Furnaces or furnace-pipes—				
Combustible materials too near	26		$52,739	
Defective	36		42,221	
Insufficiently protected	23		66,986	
Sparks from	15		14,818	
		100		176,764

TABLE IV.—CAUSES OF FIRES—*Continued*

Causes of Fires	Total Number		Amount of Loss	
Gas, liquefied petroleum—				
Explosion	8		$41,132	
Improper installation of appliance	2		500	
Improper use of or defective equipment	14		25,753	
		24		$67,385
Gas, natural—				
Explosion	5		$66,873	
Improper installation of appliance	6		3,685	
Improper use of or defective equipment	6		16,131	
		17		86,689
Gasoline—				
Broken line	57		$221,526	
Carelessness with	48		76,337	
On exhaust-pipe	56		76,945	
Pump damaged by motor-vehicle	4		4,554	
Stoves, lamps, torches	38		37,713	
Used in cleaning	5		537	
Used to kindle fire	4		174,526	
Vapour explosion	53		141,921	
		265		734,059
Heat radiation		24		3,876
Hot ashes, coals, etc.		56		23,891
Hot grease, oil, tar, etc., ignition of		343		144,294
Incendiary		104		304,099
Inflammable vapours, ignition of		24		61,613
Kerosene—				
Carelessness with	4		$5,683	
Stoves, lamps, torches	6		7,872	
Used to kindle fire	3		1,500	
		13		15,055
Lightning		15		84,463
Matches—				
Carelessness with	61		$128,970	
Children with	235		143,469	
		296		272,439
Molten metal		12		31,286
Motor-vehicle upset		20		46,739
Oil-burners—				
Broken line	2		$394	
Defective	79		129,296	
Defective equipment	39		49,402	
Explosion	48		48,775	
Sparks from	2		12,585	
		170		240,452
Oxy-gas welding or cutting equipment, etc.—				
Defective	2		$168,458	
Improper use of	2		1,720	
Sparks from	42		3,241,057	
		46		3,411,235
Short circuit		609		617,752
Smokers' carelessness—				
In bed	273		$76,320	
In the home	1,901		307,118	
In public premises	1		4,505	
In unlisted locations	598		684,239	
While intoxicated	4		4,735	
		2,777		1,076,917
Sparks from bonfire		115		126,241
Sparks from bush fire		7		192,320
Sparks from engine		5		34,645
Sparks from forge		2		1,965
Sparks from grinder		1		601
Sparks from locomotive		1		1,200
Sparks from mill burner		23		372,558
Spontaneous ignition		35		310,777
Steam-pipe insufficiently protected		2		22,383
Stoves or stove-pipes—				
Combustible materials too near	226		$101,595	
Defective	16		37,265	
Explosion	12		18,896	
Insufficiently protected	123		154,290	
Sparks from	32		33,199	
		409		345,245
Sulphur, ignition of		1		11,767
Thawing pipes		3		8,957
Unknown		851		7,939,324
Totals		7,822		$18,290,383

TABLE V.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES

Property		Causes		Amount of Loss	
Aircraft	1	Aeroplane crash	1		$952
Apartments	333	Candles and open flames	2	$675	
		Chimneys—			
		Defective or overheated	5	821	
		Sparks from	7	425	
		Electrical appliances	19	3,583	
		Exposure	10	14,782	
		Fireplace, sparks from	3	618	
		Fireworks	1	20	
		Furnaces or furnace-pipes—			
		Combustible material too near	1	9	
		Defective	1	55	
		Gas, liquefied petroleum, improper use of or defective equipment	1	2,500	
		Gas, natural—			
		Explosion	1	46	
		Improper installation of appliance	1	585	
		Gasoline—			
		Stove	1	130	
		Used in cleaning	1	184	
		Vapour explosion	1	450	
		Hot ashes, coals, etc.	2	1,163	
		Hot grease, ignition of	16	6,006	
		Incendiary	3	2,825	
		Inflammable vapours, ignition of	3	1,552	
		Lightning	1	128	
		Matches—			
		Carelessness with	2	71	
		Children with	6	5,421	
		Molten metal	1	40	
		Oil-burners—			
		Defective	4	754	
		Defective equipment	2	1,201	
		Oxy-gas welding or cutting equipment, improper use of	1	1,640	
		Short circuit	12	9,975	
		Smokers' carelessness—			
		In bed	28	15,006	
		In the home	125	28,922	
		In unlisted locations	35	9,377	
		While intoxicated	1	1,500	
		Sparks from bonfire	1	70	
		Stoves or stove-pipes—			
		Combustible materials too near	9	3,478	
		Explosion	1	25	
		Unknown	25	105,299	
					219,336
Armouries	4	Smokers' carelessness	2	$96,560	
		Unknown	2	413,879	
					510,439
Asphalt plants and tanks	1	Gas, liquefied petroleum, defective equipment	1		1,556
Bakeries	6	Defective oven	1	$142	
		Electrical appliances	1	225	
		Short circuit	1	162	
		Stoves or stove-pipes—			
		Combustible material too near	1	37	
		Defective	1	257	
		Unknown	1	26,725	
					27,548
Banks	3	Exposure	1	$646	
		Furnace, defective	1	314	
		Unknown	1	115	
					1,075
Barber-shops and beauty-parlours	8	Electrical appliances	1	$62	
		Exposure	1	5,000	
		Smokers' carelessness	2	2,214	
		Stove, combustible material too near	2	91	
		Unknown	2	414	
					7,781
Barges and scows	1	Engine back-firing	1		6,728
Barns and stables	44	Defective wiring	1	$2,050	
		Electrical appliances	2	8,633	

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

Property		Causes		Amount of Loss	
		Gasoline-vapour explosion	1	$58	
		Heat radiation	1	700	
		Incendiary	3	12,637	
		Matches, children with	7	13,868	
		Smokers' carelessness	2	5,310	
		Sparks from bonfire	3	2,418	
		Sparks from bush fire	1	17,136	
		Spontaneous ignition	6	31,170	
		Stove insufficiently protected	1	50	
		Unknown	16	136,724	
					$230,754
Bath-houses	1	Unknown	1		2,039
Blacksmith-shops	2	Sparks from forge	2		1,965
Boarding-houses	6	Defective wiring	1	$1,549	
		Match carelessness	1	239	
		Smokers' carelessness—			
		In bed	1	18	
		In the home	3	2,532	
					4,338
Boat-building works	3	Exposure	1	$1,154	
		Matches, children with	1	958	
		Unknown	1	1,964	
					4,076
Boat-houses	2	Gasoline-vapour explosion	1	$732	
		Smokers' carelessness	1	258	
					990
Bottling-works	1	Exposure	1		8,303
Bowling-alleys	2	Smokers' carelessness	2		66,232
Bridges	3	Smokers' carelessness	1	$200	
		Sparks from locomotive	1	1,200	
		Unknown	1	7,929	
					9,329
Buildings under construction	10	Fireplace, sparks from	1	$75	
		Gasoline—			
		Carelessness with	1	164	
		Stoves, lamps, torches	2	227	
		Oil-burner defective	1	1,856	
		Oxy-gas welding or cutting equipment, sparks from	1	472	
		Smokers' carelessness	2	1,305	
		Stove, combustible material too near	2	1,490	
					5,589
Bunk-houses	10	Chimney, sparks from	1	$3,789	
		Exposure	1	13,000	
		Hot grease, ignition of	1	579	
		Stoves or stove-pipes—			
		Combustible material too near	1	1,498	
		Insufficiently protected	1	1,012	
		Unknown	5	82,616	
					102,494
Cement plants	1	Molten metal	1		35
Chemical plants	4	Friction in machinery	1	$20	
		Short circuit	1	105	
		Unknown	2	16,504	
					16,629
Churches and church properties	20	Fireplace, sparks from	1	$17	
		Furnace, combustible material too near	1	1,044	
		Incendiary	3	657	
		Matches, children with	3	217	
		Oil-burner explosion	1	254	
		Short circuit	1	275	
		Smokers' carelessness	3	607	
		Stove or stove-pipe insufficiently protected	2	1,600	
		Unknown	5	255,382	
					260,053
Club-houses (golf, yacht, etc.)	3	Furnace insufficiently protected	1	$18,346	
		Smokers' carelessness	1	64	
		Unknown	1	161	
					18,571

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

Property		Causes		Amount of Loss	
Clubs	20	Exposure	4	$27,731	
		Fireplace, sparks from	1	27	
		Gas, natural, explosion	1	66,225	
		Incendiary	1	435	
		Matches, children with	1	113	
		Oil-burners—			
		Defective	1	1,017	
		Defective equipment	1	1,019	
		Explosion	1	218	
		Smokers' carelessness	7	390	
		Stove insufficiently protected	1	21,183	
		Unknown	1	15,000	
					$133,358
Coal and lumber yards	9	Exposure	2	$1,374	
		Hot ashes	1	25	
		Incendiary	2	26,569	
		Matches, children with	1	250	
		Sparks from bonfire	2	2,202	
		Unknown	1	1,031	
					31,451
Cold-storage plants	5	Gas, liquefied petroleum, improper use of or defective equipment	1	$14,227	
		Incendiary	1	14,114	
		Oil-burning equipment defective	1	306	
		Unknown	2	180,789	
					209,436
Cook-houses	2	Gas, liquefied petroleum—			
		Improper installation of appliance	1	$100	
		Unknown	1	3,000	
					3,100
Cranes	3	Short circuit	2	$1,200	
		Sparks from bonfire	1	20	
					1,220
Dairies	2	Short circuit	1	$43	
		Sparks from bonfire	1	138	
					181
Dry-cleaning plants	5	Short circuit	2	$229	
		Smokers' carelessness	1	36	
		Spontaneous ignition	1	142,461	
		Unknown	1	3,500	
					146,226
Dwellings	4,644	Candles and open flames	67	$9,924	
		Children playing with fire	14	1,254	
		Chimneys—			
		Defective or overheated	159	146,111	
		Sparks from	66	93,465	
		Defective oven	1	761	
		Defective wiring	18	63,355	
		Electrical appliances	306	57,650	
		Electrical wiring overloaded	5	8,121	
		Engine back-firing	1	1,231	
		Exposure	71	145,387	
		Fireplaces—			
		Defective	16	11,457	
		Sparks from	200	20,535	
		Fireworks	15	1,693	
		Friction in machinery	1	111	
		Furnaces or furnace-pipes—			
		Combustible materials too near	17	14,021	
		Defective	30	28,643	
		Insufficiently protected	15	43,035	
		Sparks from	10	14,326	
		Gas, liquefied petroleum—			
		Explosion	3	14,718	
		Improper use of or defective equipment	4	5,391	
		Gas, natural—			
		Explosion	3	602	
		Improper installation of appliance	3	2,784	
		Improper use of or defective equipment	2	278	
		Gasoline—			
		Broken line	2	137	
		Carelessness with	18	24,007	

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

Property		Causes		Amount of Loss	
		Gasoline—*Continued*			
		Stoves, lamps, torches	24	$33,448	
		Used in cleaning	2	128	
		Used to kindle fire	3	9,000	
		Vapour explosion	5	4,630	
		Heat radiation	15	2,087	
		Hot ashes, coals, etc.	35	14,307	
		Hot grease, oil, tar, etc., ignition of	267	84,997	
		Incendiary	35	114,323	
		Inflammable vapours, ignition of	11	4,902	
		Kerosene—			
		Carelessness with	4	5,683	
		Stoves, lamps, torches	5	6,825	
		Used to kindle fire	3	1,500	
		Lightning	10	45,530	
		Matches—			
		Carelessness with	41	11,021	
		Children with	148	90,988	
		Molten metal	4	181	
		Oil-burners—			
		Broken line	1	244	
		Defective	51	68,603	
		Defective equipment	23	14,832	
		Explosion	35	25,339	
		Sparks from	1	347	
		Oxy-gas welding or cutting equipment—			
		Improper use of	1	80	
		Sparks from	2	6,776	
		Short circuit	197	134,240	
		Smokers' carelessness—			
		In bed	151	38,389	
		In the home	1,737	273,540	
		In unlisted locations	43	43,684	
		While intoxicated	2	35	
		Sparks from bonfire	45	20,298	
		Sparks from bush fire	1	2,077	
		Spontaneous ignition	13	44,791	
		Steam-pipe insufficiently protected	1	22,283	
		Stoves or stove-pipes—			
		Combustible materials too near	184	74,686	
		Defective	11	18,749	
		Explosion	9	18,090	
		Insufficiently protected	95	99,232	
		Sparks from	29	28,575	
		Thawing pipes	3	8,957	
		Unknown	350	1,076,206	
					$3,158,600
Electrical manufacturing plants	1	Smokers' carelessness	1		162,573
Electrical substations	2	Gasoline carelessness	1	$800	
		Short circuit	1	5,000	
					5,800
Electric-light plants	8	Matches, children with	1	$6,789	
		Short circuit	3	3,537	
		Unknown	4	6,249	
					16,575
Elevators (grain)	1	Spontaneous ignition	1		4,475
Engines	5	Engine back-firing	1	$116	
		Gasoline—			
		Broken line	1	35	
		Carelessness with	1	12	
		On exhaust-pipe	1	15	
		Matches, children with	1	92	
					270
Factories (candy)	1	Unknown	1		50
Factories (cement block)	1	Unknown	1		100
Factories (food products)	2	Electrical appliances	1	$111	
		Hot oil, ignition of	1	60	
					171
Factories (furniture)	5	Chimney defective	1	$5,145	
		Electrical appliances	1	95	
		Smokers' carelessness	1	1,917	
		Unknown	2	254,004	
					261,161

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

Property		Causes		Amount of Loss	
Factories (paint)	1	Short circuit	1		$170
Factories (pipe-wrapping)	2	Gasoline torch	1	$200	
		Hot oil, ignition of	1	25	
					225
Factories (plastic products)	1	Electrical appliances	1		2,728
Factories (sash and door)	2	Exposure	1	$41	
		Sparks from engine	1	46	
					87
Factories (veneer and plywood)	5	Dust explosion	1	$1,500	
		Electrical appliances	1	50	
		Furnace, sparks from	1	200	
		Inflammable vapours, ignition of	1	29,109	
		Unknown	1	340	
					31,199
Factories (wooden box)	1	Unknown	1		7,711
Fences	8	Fireworks	2	$45	
		Open flame	1	25	
		Sparks from bonfire	3	32	
		Unknown	2	105	
					207
Fish-curing plants	2	Exposure	2		199
Fishing-boats	27	Engine back-firing	1	$2,689	
		Gasoline—			
		On exhaust-pipe	2	9,257	
		Stove	1	1,500	
		Vapour explosion	9	67,504	
		Hot oil, ignition of	2	2,738	
		Oil-burning equipment defective	1	175	
		Short circuit	5	2,039	
		Stoves or stove-pipes—			
		Combustible material too near	1	100	
		Insufficiently protected	1	204	
		Unknown	4	39,050	
					125,256
Foundries	11	Chimney, sparks from	1	$101	
		Exposure	1	700	
		Friction in machinery	1	201	
		Furnaces or furnace-pipes—			
		Insufficiently protected	1	1,240	
		Sparks from	1	127	
		Molten metal	2	30,381	
		Oxy-gas welding or cutting equipment, sparks from	1	917	
		Unknown	3	281,870	
					315,537
Fruit-packing plants	4	Incendiary	2	$150	
		Unknown	2	323,762	
					323,912
Gaols	3	Electrical appliances	1	$150	
		Incendiary	2	250	
					400
Garages (private)	96	Electrical appliances	3	$1,618	
		Exposure	9	1,713	
		Fireworks	1	700	
		Gas, natural, defective equipment	1	13,199	
		Gasoline—			
		Carelessness with	2	3,306	
		On exhaust-pipe	1	350	
		Vapour explosion	4	1,994	
		Hot ashes	1	50	
		Incendiary	4	512	
		Inflammable vapours, ignition of	2	4,484	
		Matches, children with	13	6,400	
		Oil-burning equipment defective	1	622	
		Open flame	1	100	
		Oxy-gas welding or cutting equipment, sparks from	2	1,337	
		Short circuit	5	14,471	
		Smokers' carelessness	6	4,358	
		Sparks from bonfire	13	7,369	

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

Property		Causes		Amount of Loss	
		Stoves or stove-pipes—			
		Combustible material too near	1	$2,931	
		Insufficiently protected	3	223	
		Unknown	23	19,190	
					$84,927
Garages (public)	22	Chimney defective	1	$35	
		Defective wiring	1	65	
		Electrical appliances	2	800	
		Gasoline—			
		Carelessness with	1	80	
		Vapour explosion	1	2,417	
		Hot ashes	1	165	
		Oil-burner defective	1	453	
		Oxy-gas welding or cutting equipment, sparks from	2	80	
		Short circuit	5	30,395	
		Smokers' carelessness	1	479	
		Unknown	6	32,551	
					67,520
Gas-manufacturing plants	1	Unknown	1		830
Gasoline service-stations	16	Gasoline—			
		Carelessness with	1	$26,918	
		Pump damaged by motor-vehicle	4	4,554	
		Incendiary	1	5	
		Inflammable vapours, ignition of	1	10,375	
		Matches, children with	1	50	
		Oil-burners—			
		Defective equipment	1	173	
		Explosion	2	837	
		Short circuit	2	26,035	
		Sparks from grinder	1	601	
		Stove, combustible material too near	1	22	
		Unknown	1	10,925	
					80,495
Gravel pits and plants	2	Incendiary	1	$74	
		Matches, carelessness with	1	1,100	
					1,174
Greenhouses	3	Furnace defective	1	$250	
		Oil-burner defective	1	422	
		Stove insufficiently protected	1	1,200	
					1,872
Halls	17	Electrical appliances	2	$50	
		Furnace, combustible material too near	1	256	
		Gas, liquefied petroleum, explosion	1	10,593	
		Incendiary	5	28,893	
		Matches, children with	1	100	
		Short circuit	1	5	
		Smokers' carelessness	3	20,240	
		Unknown	3	5,707	
					65,844
Hospitals, institutions, and nursing homes	10	Candle carelessness	1	$385	
		Electrical appliances	1	803	
		Furnace, sparks from	1	15	
		Smokers' carelessness—			
		In bed	2	60	
		In unlisted locations	5	264	
					1,527
Hotels	112	Candles and open flames	2	$1,928	
		Defective wiring	1	20,673	
		Electrical appliances	4	2,312	
		Exposure	1	386	
		Furnaces or furnace-pipes—			
		Insufficiently protected	1	25	
		Sparks from	1	35	
		Gas, liquefied petroleum, explosion	1	279	
		Gas, natural, improper installation of appliance	1	11	
		Hot grease	1	94	
		Inflammable vapours, ignition of	1	3,050	
		Oil-burners—			
		Defective	1	249	
		Explosion	1	1,215	

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

Property		Causes		Amount of Loss	
		Short circuit	2	$2,674	
		Smokers' carelessness—			
		In bed	49	13,761	
		In unlisted locations	30	14,998	
		Sparks from bonfire	1	35,000	
		Stove, combustible material too near	1	876	
		Unknown	13	581,258	
					$678,824
Kennels	1	Stove, sparks from	1		51
Launches	30	Defective battery connection	1	$2,000	
		Electrical appliances	1	500	
		Gasoline—			
		Carelessness with	2	4,907	
		On exhaust-pipe	1	2,500	
		Vapour explosion	11	40,610	
		Inflammable vapours, ignition of	1	400	
		Oli-burners—			
		Defective	1	1,000	
		Defective equipment	1	2,500	
		Short circuit	2	6,070	
		Smokers' carelessness	2	994	
		Unknown	7	35,506	
					96,987
Laundries	7	Electrical appliances	2	$3,722	
		Hot grease, ignition of	1	225	
		Matches, carelessness with	1	46	
		Oxy-gas welding or cutting equipment, sparks from	1	917	
		Short circuit	1	4	
		Unknown	1	53,086	
					58,000
Logging camps	19	Chimney, sparks from	1	$2,500	
		Friction—			
		In brake-drum	1	1,507	
		In machinery	2	12,585	
		Oil-burner explosion	1	14,674	
		Short circuit	1	5,584	
		Sparks from bonfire	5	24,306	
		Unknown	8	83,932	
					145,088
Machine-shops	3	Exposure	2	$6,354	
		Unknown	1	2,568	
					8,922
Meat-packing plants	1	Hot ashes	1		936
Medical clinics	2	Smokers' carelessness	1	$15	
		Unknown	1	155	
					170
Mines and mining properties	3	Oxy-gas welding or cutting equipment—			
		Sparks from	1	$73,563	
		Spontaneous ignition	1	49,426	
		Unknown	1	1,150	
					124,139
Motor courts	59	Chimney defective	2	$975	
		Defective wiring	2	31,355	
		Electrical appliances	3	254	
		Exposure	1	73	
		Furnaces or furnace-pipes—			
		Combustible materials too near	3	600	
		Insufficiently protected	1	67	
		Gas, liquefied petroleum—			
		Improper installation of appliance	1	400	
		Improper use of or defective equipment	4	1,334	
		Gasoline lamp	1	573	
		Hot grease, ignition of	1	39	
		Incendiary	1	984	
		Lightning	1	12,744	
		Matches, children with	1	100	
		Oil-burner defective	1	93	
		Smokers' carelessness—			
		In bed	5	2,525	
		In unlisted locations	15	961	

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

Property		Causes		Amount of Loss	
		Stoves or stove-pipes—			
		Combustible materials too near	5	$434	
		Insufficiently protected	3	7,475	
		Sparks from	1	3,950	
		Sulphur, ignition of	1	11,767	
		Unknown	6	12,683	
					$89,386
Motor-vehicles (*1,195)—					
Automobiles, passenger	903	Collision	8	$4,113	
		Defective battery connection	2	2,007	
		Defective wiring	29	2,345	
		Electrical appliances	8	2,692	
		Engine back-firing	50	13,854	
		Exposure	13	2,602	
		Fireworks	5	403	
		Friction—			
		In brake-drum	16	18,210	
		In tires	4	663	
		Gasoline—			
		Broken line	35	9,434	
		Carelessness with	7	4,220	
		On exhaust-pipe	33	15,035	
		Torch	2	59	
		Vapour explosion	8	5,413	
		Heat radiation	7	438	
		Hot ashes	1	97	
		Hot grease, oil, tar, etc., ignition of	16	3,219	
		Incendiary	6	1,800	
		Matches—			
		Carelessness with	4	1,865	
		Children with	3	257	
		Motor-vehicle upset	6	9,405	
		Oxy-gas welding or cutting equipment, sparks from	4	552	
		Short circuit	250	37,540	
		Smokers' carelessness	296	33,946	
		Unknown	90	26,826	
				$196,995	
Buses	3	Exposure	1	$98	
		Gasoline-line broken	1	500	
		Short circuit	1	282	
				$880	
Motor-cycles	6	Engine back-firing	1	$75	
		Gasoline—			
		Broken line	2	315	
		On exhaust-pipe	1	125	
		Vapour explosion	1	126	
		Motor-cycle upset	1	250	
				$891	
Tractors (bulldozers, graders, etc.)	79	Defective battery connection	2	$4,604	
		Engine back-firing	6	2,940	
		Exposure	1	400	
		Friction in brake-drum	1	500	
		Gasoline—			
		Broken line	2	177	
		Carelessness with	8	6,950	
		On exhaust-pipe	4	3,417	
		Vapour explosion	3	1,133	
		Hot oil, ignition of	2	1,191	
		Inflammable vapours, ignition of	1	227	
		Motor-vehicle upset	4	12,682	
		Oxy-gas welding or cutting equipment, sparks from	3	4,396	
		Short circuit	14	3,910	
		Smokers' carelessness	1	1,701	
		Sparks from bonfire	5	9,386	

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

Property		Causes		Amount of Loss	
		Sparks from bush fire	1	$2,911	
		Sparks from mill burner	1	4,579	
		Unknown	20	43,330	
				$104,434	
Motor-vehicles—*Continued*					
Trailers and semi-trailers	18	Collision	1	$20,000	
		Electrical appliances	1	38	
		Exposure	1	350	
		Friction—			
		In brake-drum	1	425	
		In tires	2	1,700	
		Gasoline—			
		Broken line	1	5,914	
		Carelessness with	1	160	
		On exhaust-pipe	1	34,000	
		Hot oil, ignition of	1	10,500	
		Inflammable vapours, ignition of	1	6,000	
		Motor-vehicle upset	2	7,500	
		Short circuit	1	500	
		Unknown	4	27,319	
				$114,406	
Trucks	186	Collision	5	$19,833	
		Defective battery connection	1	34	
		Defective wiring	7	5,039	
		Electrical appliances	2	2,352	
		Electro-welding equipment, sparks from	1	200	
		Engine back-firing	18	14,620	
		Exposure	4	644	
		Friction in brake-drum	4	322	
		Gasoline—			
		Broken line	10	26,164	
		Carelessness with	4	2,703	
		On exhaust-pipe	11	12,061	
		Torch	1	1,000	
		Vapour explosion	4	7,313	
		Hot ashes	8	642	
		Hot oil, ignition of	5	1,098	
		Matches—			
		Carelessness with	2	130	
		Children with	1	250	
		Motor-vehicle upset	7	16,902	
		Oxy-gas welding or cutting equipment, sparks from	1	115	
		Short circuit	44	21,030	
		Smokers' carelessness	7	2,230	
		Sparks from bonfire	4	1,575	
		Unknown	35	54,706	
				$190,963	*$608,569
Mushroom-houses	8	Engine back-firing	1	$5,583	
		Furnaces or furnace-pipes—			
		Defective	2	12,200	
		Insufficiently protected	1	500	
		Oil-burner defective	1	1,000	
		Stove insufficiently protected	1	241	
		Unknown	2	17,481	
					37,005
Offices	39	Electrical appliances	8	$5,865	
		Exposure	7	4,391	
		Gas, natural, improper installation of appliance	1	305	
		Gasoline-vapour explosion	1	256	
		Incendiary	3	8,149	
		Match carelessness	1	1,062	
		Oil-burners—			
		Defective	2	1,379	
		Defective equipment	1	3,789	
		Explosion	1	3,031	
		Short circuit	3	162	

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

Property		Causes		Amount of Loss	
		Smokers' carelessness	5	$473	
		Sparks from bonfire	1	2,150	
		Stove, combustible materials too near	2	162	
		Unknown	3	212	
					$31,386
Oil-houses	1	Oxy-gas welding or cutting equipment, sparks from	1		$110,000
Paper and pulp mills	10	Boiler defective	1	$950	
		Friction—			
		In conveyer-belt	1	1,000	
		In machinery	1	150	
		Hot oil, ignition of	1	150	
		Lightning	1	1,021	
		Oxy-gas welding or cutting equipment, sparks from	2	369	
		Steam-pipe insufficiently protected	1	100	
		Unknown	2	30,483	
					34,223
Peat plants	4	Spontaneous ignition	2	$23,305	
		Unknown	2	150,952	
					174,257
Piggeries	3	Kerosene stove	1	$1,047	
		Matches, children with	1	100	
		Unknown	1	50	
					1,197
Post offices	3	Smokers' carelessness	1	$4,285	
		Unknown	2	10,852	
					15,137
Poultry-houses	22	Defective brooder	2	$7,513	
		Defective wiring	1	500	
		Electrical appliances	3	1,876	
		Lightning	1	40	
		Matches, children with	3	267	
		Oil-burner defective	3	2,089	
		Short circuit	1	8,250	
		Sparks from bonfire	3	1,200	
		Sparks from bush fire	2	700	
		Spontaneous ignition	1	6,000	
		Unknown	2	16,781	
					45,216
Power-houses	5	Gasoline-line broken	1	$174,600	
		Short circuit	1	2,500	
		Unknown	3	61,942	
					239,042
Power-saws	2	Unknown	2		95
Printing plants	4	Molten metal	1	$439	
		Oil-burner explosion	1	171	
		Stove defective	1	4,843	
		Unknown	1	20,745	
					26,198
Pumps and pump-houses	8	Electrical appliances	3	$906	
		Engine back-firing	1	1,410	
		Gasoline-vapour explosion	1	644	
		Short circuit	1	900	
		Unknown	2	1,628	
					5,488
Radio stations	1	Electrical appliances	1		83
Railroad rolling-stock	12	Collision	1	$197,250	
		Gas, liquefied petroleum, improper use of or defective equipment	1	145	
		Hot ashes	1	1,647	
		Incendiary	2	3,920	
		Short circuit	1	500	
		Sparks from bush fire	1	164,707	
		Spontaneous ignition	1	100	
		Unknown	4	19,297	
					387,566
Railroad stations and properties	1	Matches, children with	1		1,000
Refineries (gasoline or oil)	3	Unknown	3		3,800
Restaurants	42	Chimney defective	1	$438	
		Electrical appliances	2	22,753	
		Exposure	8	21,259	

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

Property		Causes		Amount of Loss	
		Gas, natural, improper installation of appliance	1	$762	
		Hot grease, ignition of	10	13,586	
		Incendiary	1	3,000	
		Short circuit	5	3,641	
		Smokers' carelessness	6	2,578	
		Stoves or stove-pipes—			
		Combustible material too near	1	40	
		Defective	1	255	
		Insufficiently protected	2	545	
		Unknown	4	73,586	
					$142,443
Rooming-houses	73	Chimneys—			
		Defective or overheated	3	$4,679	
		Sparks from	1	58	
		Exposure	1	175	
		Fireplace, sparks from	1	100	
		Furnaces or furnace-pipes—			
		Combustible material too near	1	15,356	
		Sparks from	1	115	
		Incendiary	2	217	
		Matches—			
		Carelessness with	1	*60*	
		Children with	1	20	
		Short circuit	1	90	
		Smokers' carelessness—			
		In bed	26	1,798	
		In the home	9	712	
		In unlisted locations	17	4,325	
		Stoves or stove-pipes—			
		Combustible materials too near	2	66	
		Explosion	1	31	
		Sparks from	1	177	
		Unknown	4	10,304	
					38,283
Sawmills	97	Boilers or boiler-pipes defective or overheated	3	$75,629	
		Electrical appliances	3	8,968	
		Engine back-firing	1	572	
		Exposure	2	1,606	
		Friction in machinery	1	721	
		Furnace insufficiently protected	1	2,373	
		Gas, liquefied petroleum, explosion	1	15,200	
		Incendiary	2	13,550	
		Matches—			
		Carelessness with	1	97,652	
		Children with	1	200	
		Oil-burners—			
		Defective equipment	1	10,710	
		Sparks from	1	12,238	
		Oxy-gas welding or cutting equipment, sparks from	10	2,988,797	
		Short circuit	8	149,730	
		Smokers' carelessness	1	250	
		Sparks from bonfire	1	100	
		Sparks from engine	1	1,932	
		Sparks from mill burner	20	312,714	
		Spontaneous ignition	1	1,000	
		Stoves or stove-pipes—			
		Combustible material too near	1	5,769	
		Insufficiently protected	1	10,000	
		Unknown	35	1,461,821	
					5,171,532
Schools	36	Defective wiring	1	$50	
		Electrical appliances	3	605	
		Exposure	1	1,231	
		Furnace insufficiently protected	1	1,000	
		Hot tar, ignition of	1	3,258	
		Incendiary	7	33,916	
		Inflammable vapours, ignition of	1	14	
		Matches—			
		Carelessness with	2	1,961	
		Children with	1	5	

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

Property		Causes		Amount of Loss	
		Oil-burners—			
		Defective	1	$1,819	
		Defective equipment	1	200	
		Oxy-gas welding or cutting equipment, sparks from	1	500	
		Smokers' carelessness	6	4,933	
		Spontaneous ignition	1	60	
		Unknown	8	52,079	
					$101,631
Sheds	146	Children playing with fire	2	$1,127	
		Chimney, sparks from	1	75	
		Electrical appliances	1	425	
		Exposure	11	3,985	
		Fireworks	3	1,115	
		Furnace, combustible material too near	1	3,769	
		Gasoline-vapour explosion	1	1,516	
		Hot ashes, coals, etc.	3	4,497	
		Hot tar, ignition of	1	7,515	
		Incendiary	7	16,209	
		Matches—			
		Carelessness with	2	50	
		Children with	29	15,208	
		Oxy-gas welding or cutting equipment, sparks from	1	50	
		Short circuit	1	5,775	
		Smokers' carelessness	11	4,446	
		Sparks from bonfire	22	9,809	
		Sparks from bush fire	1	4,789	
		Sparks from engine	1	405	
		Spontaneous ignition	3	2,645	
		Stoves or stove-pipes—			
		Combustible materials too near	2	1,392	
		Explosion	1	750	
		Insufficiently protected	2	1,483	
		Unknown	39	77,286	
					164,321
Sheet-metal works	2	Exposure	1	$1,208	
		Unknown	1	12,190	
					13,398
Shingle-mills	4	Furnace, combustible material too near	1	$17,684	
		Sparks from mill burner	2	55,265	
		Unknown	1	30,000	
					102,949
Shipyards	1	Oxy-gas welding or cutting equipment, sparks from	1		439
Smelting plants	22	Electrical appliances	2	$500	
		Electrical wiring overloaded	3	325	
		Friction in machinery	1	50	
		Furnace insufficiently protected	1	400	
		Molten metal	3	210	
		Oil-burner line broken	1	150	
		Oxy-gas welding or cutting equipment, sparks from	1	100	
		Short circuit	7	1,305	
		Unknown	3	7,889	
					10,929
Smoke-houses	1	Stove insufficiently protected	1		100
Steam baths	1	Stove insufficiently protected	1		787
Steel-fabricating plants	2	Electro-welding equipment, sparks from	1	$3,053	
		Oxy-gas welding or cutting equipment, sparks from	1	30	
					3,083
Stores	195	Candle carelessness	1	$110	
		Chimneys defective or overheated	3	2,607	
		Defective wiring	1	13,385	
		Electrical appliances	14	19,985	
		Exposure	25	31,725	
		Fireworks	10	603	
		Furnace defective	1	759	
		Gas, liquefied petroleum, explosion	1	142	

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

Property		Causes		Amount of Loss	
		Gasoline—			
		Carelessness with	1	$2,110	
		Stoves, lamps, torches	2	83	
		Used to kindle fire	1	165,526	
		Hot ashes	1	10	
		Hot grease, oil, tar, etc., ignition of	7	8,260	
		Incendiary	5	8,717	
		Matches—			
		Carelessness with	1	13,686	
		Children with	4	460	
		Oil-burners—			
		Defective	3	13,990	
		Defective equipment	1	436	
		Explosion	1	50	
		Short circuit	12	28,881	
		Smokers' carelessness	79	42,132	
		Spontaneous ignition	1	75	
		Stoves or stove-pipes—			
		Combustible materials too near	3	630	
		Defective	1	11,208	
		Unknown	16	102,096	
					$467,666
Stores and apartments	46	Chimney defective	1	$75	
		Electrical appliances	6	21,744	
		Exposure	2	470	
		Gas, liquefied petroleum, improper use of or defective equipment	1	50	
		Gas, natural, improper use of or defective equipment	1	519	
		Gasoline torch	1	120	
		Hot ashes	1	352	
		Hot grease, oil, ignition of	2	253	
		Incendiary	1	5	
		Matches, children with	2	136	
		Oil-burners—			
		Defective	1	211	
		Defective equipment	2	5,939	
		Short circuit	2	92,288	
		Smokers' carelessness—			
		In bed	4	1,510	
		In the home	1	23	
		In unlisted locations	14	57,904	
		Sparks from bonfire	1	36	
		Unknown	3	14,972	
					196,607
Stores and dwellings	17	Chimneys—			
		Defective	1	$44	
		Sparks from	1	24	
		Electrical appliances	2	18,621	
		Exposure	1	13,500	
		Hot grease, ignition of	2	97	
		Incendiary	1	1,693	
		Oil-burner defective	1	28,559	
		Smokers' carelessness	1	1,050	
		Stoves or stove-pipes—			
		Combustible material too near	1	186	
		Insufficiently protected	3	6,856	
		Unknown	3	12,608	
					83,238
Stores and offices	14	Electrical appliances	2	$704	
		Hot grease, ignition of	1	141	
		Oxy-gas welding or cutting equipment defective	1	167,958	
		Smokers' carelessness	4	96,325	
		Unknown	6	143,614	
					408,742
Stores and rooms	14	Chimney defective	1	$40	
		Exposure	1	585	
		Incendiary	1	45	
		Matches, carelessness with	1	27	
		Smokers' carelessness	8	379	
		Unknown	2	19,521	
					20,597

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

Property		Causes		Amount of Loss	
Tar-pots	3	Gasoline-line broken	1	$500	
		Hot tar, ignition of	2	162	
					$662
Tents	5	Gasoline stove, lamp	2	$373	
		Smokers' carelessness	1	45	
		Stoves or stove-pipes—			
		Combustible material too near	1	65	
		Insufficiently protected	1	164	
					647
Theatres	1	Short circuit	1		545
Trailers (house)	54	Chimney, sparks from	1	$1,100	
		Defective wiring	1	35	
		Electrical appliances	3	2,746	
		Exposure	3	5,726	
		Fireworks	1	345	
		Gas, liquefied petroleum—			
		Explosion	1	200	
		Improper use of or defective equipment	1	550	
		Gas, natural, improper use of or defective equipment	1	1,373	
		Gasoline used in cleaning	1	75	
		Heat radiation	1	651	
		Hot grease, ignition of	1	101	
		Matches, children with	2	170	
		Oil-burners—			
		Defective	4	5,440	
		Defective equipment	1	6,300	
		Explosion	2	2,300	
		Short circuit	6	8,702	
		Smokers' carelessness—			
		In the home	2	54	
		In unlisted locations	3	168	
		While intoxicated	1	3,200	
		Sparks from bonfire	1	10,000	
		Stoves or stove-pipes—			
		Combustible materials too near	4	7,588	
		Defective	1	1,953	
		Insufficiently protected	3	1,935	
		Unknown	9	61,433	
					122,145
Trestles	1	Unknown	1		16,184
Tug-boats	8	Gasoline—			
		Broken line	1	$3,750	
		On exhaust-pipe	1	185	
		Short circuit	1	500	
		Smoking in bed	1	2,875	
		Unknown	4	27,124	
					34,434
Warehouses	41	Exposure	5	$111,316	
		Friction in machinery	1	5,000	
		Gasoline used in cleaning	1	150	
		Incendiary	2	10,450	
		Lightning	1	25,000	
		Oil-burners—			
		Defective	1	362	
		Explosion	2	686	
		Oxy-gas welding or cutting equipment, sparks from	4	40,202	
		Short circuit	1	8,458	
		Sparks from bonfire	2	132	
		Sparks from engine	2	32,262	
		Spontaneous ignition	3	5,269	
		Unknown	16	1,164,455	
					1,403,742
Welding-machines	2	Oxy-gas welding or cutting equipment defective	1	$500	
		Unknown	1	950	
					1,450
Welding-shops	2	Oxy-gas welding or cutting equipment, sparks from	1	$185	
		Short circuit	1	50	
					235

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

Property		Causes		Amount of Loss	
Wharves	4	Exposure	1	$460	
		Matches, children with	1	50	
		Oxy-gas welding or cutting equipment, sparks from	1	11,260	
		Unknown	1	4,189	
					$15,959
Woodworking plants	1	Unknown	1		22,662
Workshops	10	Children playing with fire	1	$900	
		Defective wiring	1	1,550	
		Gasoline-vapour explosion	1	7,125	
		Inflammable vapours, ignition of	1	1,500	
		Oil-burning equipment defective	1	1,200	
		Smokers' carelessness	1	251	
		Stove, sparks from	1	500	
		Unknown	3	55,803	
					68,829
Totals	7,822				$18,290,383

TABLE VI.—SUMMARY

	Fires Reported						Amount of Loss					
	City Municipalities (32)	District Municipalities (31)	Town Municipalities (3)	Village Municipalities (57)	Fire Districts (19)	Total	City Municipalities	District Municipalities	Town Municipalities	Village Municipalities	Fire Districts	Total
1960												
January	392	250	7	35	112	796	$464,512	$220,427	$3,898	$20,530	$361,500	$1,070,867
February	311	175	2	24	121	633	570,009	165,613	10,793	27,755	542,708	1,316,878
March	361	207	2	31	112	713	595,880	562,171	779	121,614	1,460,695	2,741,139
April	292	157	2	33	84	568	420,626	186,446	385	25,404	279,013	911,874
May	283	168	6	15	94	566	205,586	152,264	5,221	2,088	369,754	734,913
June	261	175	6	14	83	539	412,968	575,644	2,720	16,693	189,159	1,197,184
July	347	198	2	20	122	689	3,240,436	181,068	83	67,140	739,341	4,228,068
August	293	193	6	24	105	621	283,066	162,504	67,872	25,847	613,849	1,153,138
September	303	181	5	10	147	646	809,344	242,064	1,949	7,747	449,687	1,510,791
October	318	166	4	35	113	636	150,595	539,305	11,372	20,720	285,644	1,007,636
November	276	197	5	33	96	607	267,955	147,428	5,049	12,786	525,812	959,030
December	386	257	4	27	134	808	756,624	184,635	14,426	34,458	468,722	1,458,865
Totals	3,823	2,324	51	301	1,323	7,822	$8,177,601	$3,319,569	$124,547	$382,782	$6,285,884	$18,290,383

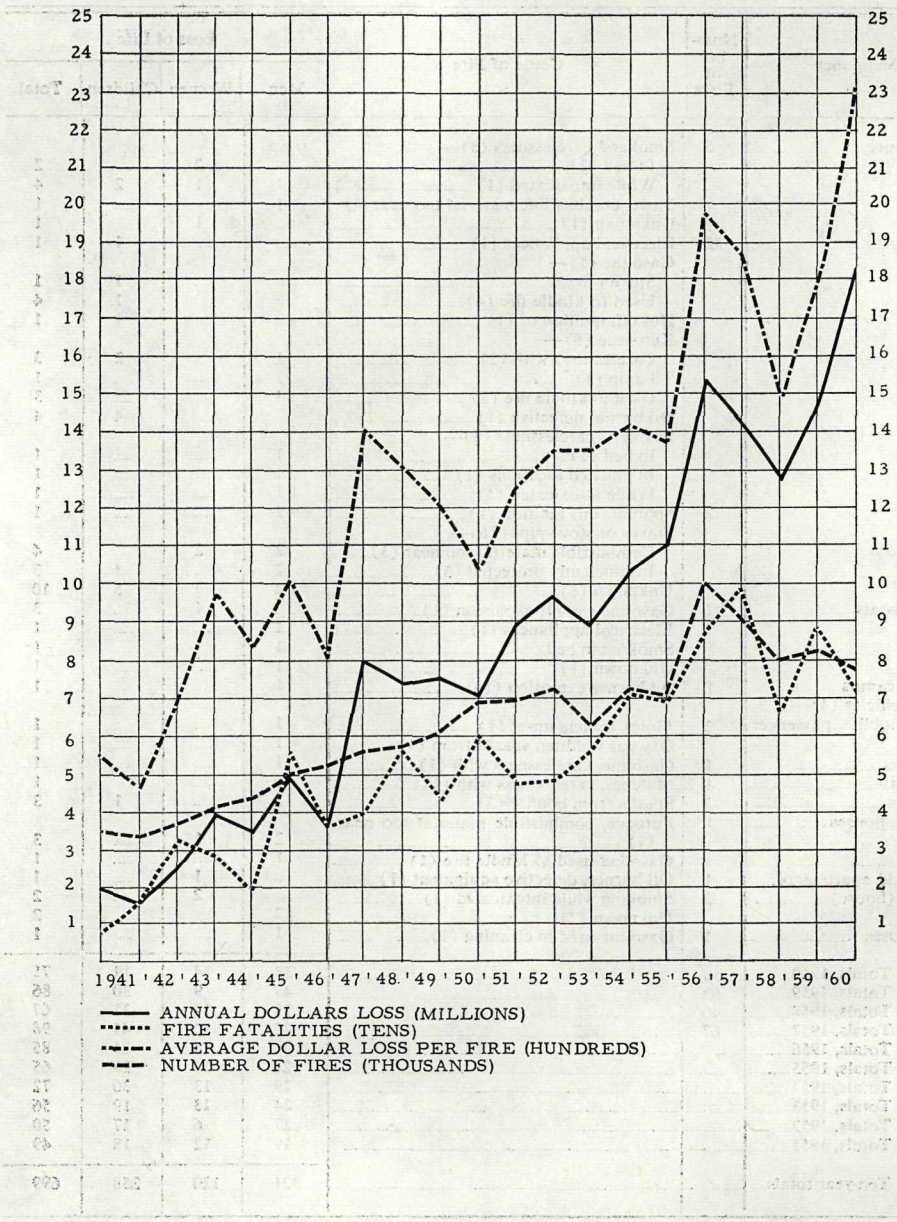
TABLE VII.—TEN-YEAR COMPARATIVE STATEMENT OF FIRE LOSSES

	City Municipalities		District Municipalities		Town Municipalities		Village Municipalities		Fire Districts		Total	
	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses	Fires	Losses
1960	3,823	$8,177,601	2,324	$3,319,569	51	$124,547	301	$382,782	1,323	$6,285,884	7,822	$18,290,383
1959	4,097	5,361,352	2,487	3,026,143	45	187,388	350	1,045,840	1,289	5,238,829	8,268	14,859,552
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
Totals	40,913	$44,600,803	19,471	$23,940,357	131	$361,108	2,983	$6,196,199	11,407	$47,952,704	74,905	$123,051,171

TABLE VIII.—LOSS OF LIFE, 1951–60

Occupancy	Number of Fires	Cause of Fire	Loss of Life			
			Men	Women	Children	Total
Apartments	5	Smokers' carelessness (3)—				
		In bed (2)	----	2	----	2
		While intoxicated (1)	1	1	2	4
		Stove, combustible material too near (1)	1	----	----	1
		Unknown (1)	----	1	----	1
Dwellings	32	Electrical appliances (1)	----	----	1	1
		Gasoline (5)—				
		Stove (1)	----	----	1	1
		Used to kindle fire (4)	3	----	1	4
		Hot oil, ignition of (1)	----	----	1	1
		Kerosene (6)—				
		Carelessness with (2)	1	----	2	3
		Lamp (1)	1	----	----	1
		Used to kindle fire (3)	3	----	----	3
		Oil-burner defective (1)	----	----	4	4
		Smokers' carelessness (3)—				
		In bed (1)	1	----	----	1
		In unlisted locations (1)	1	----	----	1
		While intoxicated (1)	1	----	----	1
		Spontaneous ignition (1)	1	----	----	1
		Stoves or stove-pipes (6)—				
		Combustible material too near (3)	2	2	----	4
		Insufficiently protected (3)	2	----	1	3
		Unknown (8)	2	3	5	10
Fishing-boats	1	Gasoline-vapour explosion (1)	2	1	----	3
Hotels	3	Electrical appliances (1)	1	----	----	1
		Smoking in bed	1	----	----	1
		Unknown (1)	1	----	----	1
Logging camps	1	Oil-burner explosion (1)	1	----	----	1
Motor-vehicles (4)—						
Automobiles, passenger	2	Motor-vehicle upset (1)	1	----	----	1
		Oxy-gas welding, sparks from (1)	1	----	----	1
Trailers	1	Gasoline, carelessness with (1)	1	----	----	1
Trucks	1	Matches, carelessness with (1)	1	----	----	1
Outdoors	3	Sparks from bonfire (3)	2	----	1	3
Rooming-houses	1	Furnace, combustible material too near (1)	2	1	----	3
Stores	1	Gasoline used to kindle fire (1)	1	----	----	1
Stores and apartments	1	Oil-burner, defective equipment (1)	----	1	----	1
Trailers (house)	3	Smoking while intoxicated (1)	----	2	----	2
		Unknown (2)	2	----	----	2
Warehouses	1	Gasoline used in cleaning (1)	1	----	----	1
Totals, 1960	56		38	14	19	71
Totals, 1959	63		47	9	30	86
Totals, 1958	46		28	14	25	67
Totals, 1957	67		45	12	41	98
Totals, 1956	----		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
Ten-year totals	----		321	120	258	699

TABLE IX.—TWENTY-YEAR FIRE LOSS



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