TWELFTH ANNUAL REPORT

OF

THE FIRE MARSHAL

FOR THE PROVINCE OF

BRITISH COLUMBIA

STATISTICS, 1933

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
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1934.

To His Honour J. W. FORDHAM JOHNSON,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Twelfth Annual Report of the Fire Marshal for the year ended December 31st, 1933.

GORDON McG. SLOAN,
Attorney-General.

Victoria, B.C., March 31st, 1934.

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REPORT OF FIRE MARSHAL.

OFFICE OF FIRE MARSHAL,
VANCOUVER, B.C., March 29th, 1934.

The Honourable Gordon McG. Sloan, K.C.,
Attorney-General, Victoria, B.C.

SIR,—Pursuant to section 34 of the "Fire Marshal Act," I have the honour to submit my Twelfth Annual Report for the year ended December 31st, 1933, together with statistics showing the number of fires and causes responsible.

Our records show a fire loss throughout the Province amounting to $1,852,253, a decrease of $1,446,752 over the year 1932, or 43.8 per cent., and 61 per cent. lower than the peak year, 1930. There were six lives lost through fire. One serious conflagration, ascribed to a defective chimney, occurred during the year in the City of Cumberland. Two other cities, Armstrong and Grand Forks, reported fires involving a considerable amount of property. Conditions such as caused these fires may be duplicated in many other cities and towns in the Province, and while they do exist we may expect to have serious losses should fires occur. A disturbing factor in this connection is that, owing to the economic conditions, many cities and municipalities are cutting down the work of fire prevention. If this continues we can look for a serious increase in our fire losses in the not-far-distant future.

Educational Work, Fire Prevention Week.—This work has been carried on in the cities of Victoria by the Victoria and District Fire Insurance Agents' Association; Vancouver, by the Fire Chief and the Insurance and Financial Bureau of the Vancouver Board of Trade; and in Nelson by the Fire Chief, members of the Council, and other prominent citizens.

Fire Investigations.—This work has been diligently carried out during the year. Seventy-three suspicious fires were investigated. Nine persons were charged with arson; five convicted and four acquitted. Four persons were charged with fraud arising out of claims for insurance; three were convicted and one acquitted. Nine inquiries were held under section 12 of the Act.

Twenty appeals under section 20 have been received and passed on by the Fire Marshal. One appeal from the decision of the Fire Marshal was made to the Courts, but was dismissed and the Fire Marshal upheld.

Theatres and Film Exchanges.—Under Part IV. of the Act eighty-four theatres were licensed to operate during the year. One hundred and sixty-five inspections were made and 1,400,000 feet of nitro-cellulose film was removed from service and destroyed. Fifty-four inspections of film exchanges were made and sixteen orders for changes issued.

Public and Private Hospitals.—Owing to the economic situation prevailing the conditions found in many of these hospitals were far from satisfactory, but, taking into consideration the lack of funds, everything humanly possible is being done to keep a reasonably safe standard.

Government Institutions.—Regular, and special inspections as requested, of all Government institutions and buildings, including the Parliament Buildings and Court-houses, have been made by the staff of this office and reports on conditions found sent to the departments having jurisdiction. While, as noted in my report of 1932, conditions in some of these buildings, due to their construction and occupancy, is not ideal, yet we feel that under careful supervision they are reasonably safe.

Unorganized Districts.—In the unorganized districts of the Province the work of fire prevention, inspection, and investigation has been carried on by the members of the Provincial Police Force, acting with the consent of Colonel McMullin. The men employed are increasing in efficiency and they achieved splendid results during the year. Our thanks are due to Colonel McMullin and the members of his force for their splendid co-operation.

Thanks are also due to the officials and officers of the several municipalities who assisted in our investigations, and to the members of my staff who have carried out their duties in their usual efficient manner.

I have the honour to be,
Sir,
Your obedient servant,

J. A. THOMAS,
Fire Marshal.

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

Name.	Inspections.	Orders.
City Municipalities (33).		
Alberni	8	3
Armstrong	149	11
Chilliwack	.....	.....
Courtenay	73	.....
Cranbrook	1,032	27
Cumberland	45	23
Duncan	18	16
Enderby	.....	.....
Fernie	424	14
Grand Forks	154	8
Greenwood	.....	.....
Kamloops	261	2
Kaslo	.....	.....
Kelowna	687	9
Ladysmith	19	7
Merritt	4	3
Nanaimo	513	2
Nelson	1,368	44
New Westminster	3,731	329
North Vancouver	1,433	138
Port Alberni	130	30
Port Coquitlam	.....	.....
Port Moody	70	6
Prince George	244	86
Prince Rupert	840	277
Revelstoke	.....	.....
Rossland	1,002	89
Salmon Arm	20	6
Slocan	.....	.....
Trail	1,924	81
Vancouver	35,548	2,832
Vernon	178	57
Victoria	5,189	99
Totals	55,064	4,199
District Municipalities (28).		
Burnaby	.....	.....
Chilliwack	.....	.....
Coldstream	.....	.....
Coquitlam	6	3
Delta	.....	.....
Esquimalt	19	.....
Fraser Mills	.....	.....
Glenmore	.....	.....
Kent	.....	.....
Langley	.....	.....
Maple Ridge	.....	.....
Matsqui	.....	.....
Mission	206	2
North Cowichan	50	9
North Vancouver	23	.....
Oak Bay	123	5
Peachland	.....	.....
Penticton	.....	.....
Pitt Meadows	.....	.....
Richmond	.....	.....
Saanich	.....	.....
Salmon Arm	.....	.....
Spallumcheen	.....	.....
Sumas	.....	.....
Summerland	17	.....

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

Name.	Inspections.	Orders.
District Municipalities—Continued.		
Surrey	.....	.....
Tadanac	18	.....
West Vancouver	.....	.....
Totals	462	19
Village Municipalities (16).		
Abbotsford	84	4
Burns Lake	.....	.....
Creston	.....	.....
Gibsons Landing	.....	.....
Hope	.....	.....
Mission	288	26
New Denver	.....	.....
Pouce Coupe	.....	.....
Quesnel	.....	.....
Silverton	.....	.....
Smithers	119	13
Stewart	38	8
Terrace	.....	.....
Tofino	48	.....
Vanderhoof	60	.....
Williams Lake	.....	.....
Totals	637	51
Fire Districts (12).		
Cariboo, County of	59	9
Ioco	2	.....
Kootenay, County of	138	10
Nanaimo, County of	.....	.....
Pacific Mills, Limited	.....	.....
Powell River	476	.....
Prince Rupert, County of	118	2
University Area	.....	.....
Vancouver, County of	.....	.....
Victoria, County of	.....	.....
Westminster, County of	.....	.....
Yale, County of	42	35
Totals	835	56
Grand totals	56,998	4,325
Grand totals, 1932	74,441	5,753
Grand totals, 1931	72,821	6,852
Grand totals, 1930	60,136	6,912
Grand totals, 1929	56,954	6,832

TABLE II.—FIRES REPORTED.

Districts reporting.	Number.	Amount of Loss.
City Municipalities (33).		
Alberni	3	$1,869
Armstrong	11	20,258
Chilliwack	9	37,181
Courtenay	8	7,191
Cranbrook	9	1,840
Cumberland	44	123,903
Duncan	5	1,799
Enderby	2	66
Fernie	12	15,947
Grand Forks	13	19,870
Greenwood	.....	.....
Kamloops	13	894
Kaslo	1	4,984
Kelowna	21	8,555
Ladysmith	4	438
Merritt	4	2,442
Nanaimo	34	4,903
Nelson	13	3,603
New Westminster	62	8,548
North Vancouver	32	11,733
Port Alberni	7	5,464
Port Coquitlam	3	1,062
Port Moody	2	621
Prince George	17	19,047
Prince Rupert	29	26,013
Revelstoke	9	7,579
Rossland	19	12,506
Salmon Arm	1	10
Slocan	.....	.....
Trail	18	1,098
Vancouver	1,132	334,018
Vernon	9	9,383
Victoria	202	44,777
Totals	1,748	$737,602
District Municipalities (28).		
Burnaby	85	$42,947
Chilliwack	17	20,264
Coldstream	3	2,192
Coquitlam	9	5,853
Delta	1	966
Esquimalt	24	3,472
Fraser Mills	.....	.....
Glenmore	2	749
Kent	7	7,731
Langley	16	16,509
Maple Ridge	30	66,514
Matsqui	14	15,787
Mission	9	24,496
North Cowichan	9	1,382
North Vancouver	22	31,837
Oak Bay	44	1,882
Peachland	.....	.....
Penticton	14	15,334
Pitt Meadows	4	9,613
Richmond	25	35,152
Saanich	44	20,956
Salmon Arm	3	4,536
Spallumcheen	.....	.....
Sumas	8	21,048
Summerland	6	14,194
Surrey	29	28,977
Tadanac	3	612
West Vancouver	35	5,036
Totals	463	$398,039

TABLE II.—FIRES REPORTED—*Continued.*

Districts reporting.	Number.	Amount of Loss.
Village Municipalities (16).		
Abbotsford	8	$17,516
Burns Lake	1	903
Creston	.....	.....
Gibsons Landing	.....	.....
Hope	2	684
Mission	5	2,301
New Denver	.....	.....
Pouce Coupe	1	19
Quesnel	4	4,300
Silverton	.....	.....
Smithers	2	16,572
Stewart	2	5,100
Terrace	4	4,650
Tofino	1	175
Vanderhoof	3	12,600
Williams Lake	.....	.....
Totals	33	$64,820
Fire Districts (12).		
Cariboo, County of	41	$81,839
Ioco	2	85
Kootenay, County of	98	231,294
Nanaimo, County of	68	72,806
Pacific Mills, Limited	5	3,067
Powell River	5	202
Prince Rupert, County of	30	47,350
University Area	7	140
Vancouver, County of	24	60,470
Victoria, County of	34	20,747
Westminster, County of	15	26,185
Yale, County of	62	107,607
Totals	391	$651,792
Grand totals	2,635	$1,852,253

NOTE.—Construction of buildings—

Fire-resisting	19,	loss	$950
Brick or concrete	174,	,,	117,815
Frame	2,442,	,,	1,733,488
	2,635,	,,	$1,852,253

TABLE III.—CAUSES OF FIRES.

Causes of Fires.	Number.	Amount of Loss.
Ashes against wood	24	$5,249
Boiler insufficiently protected	3	285
Boiling wax ignited from hot bar	1	18
Brush drying in oven ignited	1	9
Candle carelessness	24	496
Carburettor back-firing	35	5,633
Car upset	6	1,475
Children playing with fire	2	19
Clothes too near fireplace	2	123
Clothes too near stove or stove-pipe	67	15,367
Coal-gas explosion	13	12,451
Coal-oil carelessness	4	742
Curtains from candle	9	197
Curtains from lamp	1	35
Curtains from stove	9	194
Defective battery connection	1	100
Defective chimney	183	137,376
Defective fireplace	22	6,471
Defective furnace or furnace-pipe	7	5,441
Defective gas connection	2	1,047
Defective gasoline-lantern	1	2,750
Defective gasoline-stove	2	2,837
Defective gasoline-torch	1	95
Defective matches	6	160
Defective oil-burner	11	2,833
Defective oil-stove	2	40
Defective range oil-burner	1	1,057
Defective stove or stove-pipe	19	12,045
Defective wiring	30	34,920
Electrical appliances	135	15,402
Emulsion piling up on tension-shoes	1	191
Exposure	108	163,921
Fire-crackers	14	2,531
Friction on rope-drive	1	3,000
Furnace or furnace-pipe insufficiently protected	14	6,590
Gas explosion	4	205
Gas-furnace back-firing	2	53
Gasoline carelessness	20	10,123
Gasoline explosion	2	138
Gasoline on exhaust-pipe	4	902
Gasoline-pump damaged by car	2	107
Gasoline-torch carelessness	3	423
Gas-radiator back-firing	1	95
Grease dripping on hot sawdust	1	26
Grease on stove	31	18,500
Hot metal dropped on car	1	14
Incendiary	49	163,125
Incense-burner upset	1	6
Lamp explosion	2	3,298
Lamp igniting paint-fumes	1	2,261
Lamp upset	6	4,025
Lantern upset	4	2,038
Lightning	1	1,423
Live coals	30	851
Loose pulley caused friction	1	100
Match carelessness	34	786
Matches, children with	22	2,307
Mattress too near stove	2	1,369
Naphtha carelessness	1	644
Oil-furnace back-firing	3	45
Oil-stove upset	1	5
Overheated electric motor	1	72
Overheated machinery bearings	1	85
Paper from fireplace	1	27
Paper from stove	5	83

TABLE III.—CAUSES OF FIRES—*Continued.*

Causes of Fires.	Number.	Amount of Loss.
Roofing material being heated, ignited	1	$248
Sawdust-burner back-firing	3	59
Sawdust-burner insufficiently protected	2	53
Short circuit	81	24,550
Smokers' carelessness	505	107,744
Sparks from boiler	6	40,375
Sparks from burning rubbish	12	1,117
Sparks from bush fire	5	12,768
Sparks from chimney	253	91,646
Sparks from Christmas crackers	1	9
Sparks from engine	1	75
Sparks from fireplace	197	3,397
Sparks from furnace or furnace-pipe	4	197
Sparks from mill burner	5	9,302
Sparks from picker-machine	1	14,178
Sparks from smudge fire	2	2,555
Sparks from stove or stove-pipe	50	33,355
Spontaneous combustion	17	33,977
Static electricity	2	930
Stove explosion	9	375
Stove or stove-pipe insufficiently protected	110	69,164
Sulphur burning	1	79
Sun's rays	2	42
Tar boiling over	3	6,545
Thawing pipes	11	2,907
Turpentine upset on stove	1	52
Unknown	323	730,818
Varnish boiling over	2	221
Wood too near furnace	6	3,298
Wood too near stove	20	7,981
Totals	2,635	$1,852,253

TABLE IV.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES.

Property.		Causes.		Amount of Loss.	
Apartments	125	Ashes against wood	1	$20	
		Candle carelessness	2	47	
		Clothes too near stove	2	7	
		Curtains from stove	2	5	
		Defective chimney	4	88	
		Defective fireplace	3	401	
		Defective matches	2	30	
		Defective oil-burner	5	401	
		Defective wiring	4	7,043	
		Electrical appliances	11	349	
		Exposure	1	15	
		Grease on stove	4	197	
		Match carelessness	2	17	
		Oil-furnace back-firing	1	8	
		Sawdust-burner back-firing	2	53	
		Smokers' carelessness	61	8,107	
		Sparks from chimney	8	1,633	
		Sparks from fireplace	3	41	
		Spontaneous combustion	1	4,048	
		Stove explosion	1	6	
		Stove insufficiently protected	1	5	
		Unknown	3	1,707	
		Wood too near furnace	1	2,218	
					$26,446
Armouries	1	Smokers' carelessness	1		20

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

Property.		Causes.		Amount of Loss.	
Automobile camps	1	Paper from stove	1		$25
Automobiles	139	Carburettor back-firing	33	$2,325	
		Car upset	6	1,475	
		Defective battery connection	1	100	
		Defective wiring	3	709	
		Gasoline carelessness	4	230	
		Gasoline on exhaust-pipe	4	902	
		Hot metal dropped on car	1	14	
		Incendiary	2	700	
		Short circuit	46	2,473	
		Smokers' carelessness	24	1,055	
		Unknown	15	4,440	
					14,423
Bakeries	1	Stove insufficiently protected	1		882
Banks	4	Exposure	2	$6,097	
		Smokers' carelessness	2	65	
					6,162
Barber-shops	2	Electrical appliances	1	$12	
		Exposure	1	444	
					456
Barns	36	Exposure	1	$718	
		Fire-crackers	1	200	
		Incendiary	3	4,205	
		Lantern upset	2	1,287	
		Smokers' carelessness	2	13,052	
		Sparks from bush fire	1	2,275	
		Sparks from smudge fire	1	1,755	
		Spontaneous combustion	2	8,121	
		Unknown	23	35,020	
					66,633
Beauty-parlours	1	Exposure	1		650
Blacksmith-shops	2	Defective furnace	1	$3,550	
		Gasoline-torch carelessness	1	15	
					3,565
Boarding-houses	5	Exposure	1	$1,700	
		Smokers' carelessness	3	27	
		Sparks from chimney	1	10	
					1,737
Boat-building works	2	Smokers' carelessness	1	$115	
		Unknown	1	1,550	
					1,665
Boat-houses	1	Short circuit	1		1,300
Bunk-houses	2	Unknown	2		3,729
Chicken-houses	8	Incendiary	1	$1,100	
		Lamp upset	1	60	
		Thawing pipes	1	40	
		Unknown	5	3,359	
					4,559
Churches	8	Ashes against wood	1	$26	
		Exposure	1	1,800	
		Furnace-pipe insufficiently protected	1	21	
		Matches, children with	1	181	
		Sparks from chimney	1	100	
		Spontaneous combustion	2	1,580	
		Stove insufficiently protected	1	26	
					3,734
Clubs	5	Electrical appliances	1	$51	
		Furnace insufficiently protected	1	24	
		Match carelessness	1	67	
		Sparks from chimney	2	23	
					165

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

Property.		Causes.		Amount of Loss.	
Dairies	1	Sparks from chimney	1		$13
Dry-cleaning establishments	2	Gasoline carelessness	1	$260	
		Static electricity	1	17	
					277
Dwellings	1,797	Ashes against wood	18	$4,529	
		Brush drying in oven ignited	1	9	
		Candle carelessness	22	449	
		Children playing with fire	2	19	
		Clothes too near fireplace	2	123	
		Clothes too near stove or stove-pipe	64	16,515	
		Coal-gas explosion	12	2,080	
		Coal-oil carelessness	2	434	
		Curtains from candle	9	197	
		Curtains from lamp	1	35	
		Curtains from stove	5	98	
		Defective chimney	153	121,301	
		Defective fireplace	20	6,072	
		Defective furnace or furnace-pipe	5	1,869	
		Defective gas connection	1	975	
		Defective gasoline-stove	1	29	
		Defective gasoline-torch	1	95	
		Defective matches	3	29	
		Defective oil-burner	1	10	
		Defective oil-stove	1	15	
		Defective range oil-burner	1	1,057	
		Defective stove or stove-pipe	16	6,980	
		Defective wiring	22	26,946	
		Electrical appliances	103	10,806	
		Exposure	37	14,342	
		Fire-crackers	8	371	
		Furnace or furnace-pipe insufficiently protected	10	5,584	
		Gas explosion	3	187	
		Gas-furnace back-firing	2	53	
		Gasoline carlessness	9	550	
		Gasoline-torch carelessness	1	60	
		Grease on stove	22	865	
		Incendiary	26	36,240	
		Incense-burner upset	1	6	
		Lamp explosion	2	3,298	
		Lamp igniting paint-fumes	1	2,261	
		Lamp upset	5	3,965	
		Lightning	1	1,423	
		Live coals	30	851	
		Match carelessness	27	661	
		Matches, children with	19	2,108	
		Mattress too near stove	2	1,369	
		Oil-furnace back-firing	2	37	
		Oil-stove upset	1	5	
		Paper from fireplace	1	27	
		Paper from stove	3	53	
		Sawdust-burner back-firing	1	6	
		Sawdust-burner insufficiently protected	1	8	
		Short circuit	15	3,872	
		Smokers' carelessness	308	16,353	
		Sparks from burning rubbish	8	911	
		Sparks from bush fire	2	2,512	
		Sparks from chimney	220	85,463	
		Sparks from Christmas crackers	1	9	
		Sparks from fireplace	192	3,349	
		Sparks from furnace	4	197	
		Sparks from mill burner	1	30	
		Sparks from smudge fire	1	800	
		Sparks from stove or stove-pipe	42	25,310	
		Spontaneous combustion	7	7,370	

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

Property.		Causes.		Amount of Loss.	
		Stove explosion	7	$349	
		Stove or stove-pipe insufficiently protected	89	63,699	
		Sulphur burning	1	79	
		Sun's rays	2	42	
		Tar boiling over	1	1,234	
		Thawing pipes	8	2,477	
		Turpentine upset on stove	1	52	
		Unknown	180	238,351	
		Varnish boiling over	1	65	
		Wood too near furnace	5	1,080	
		Wood too near stove	20	7,981	
					$736,587
Electrical plants	1	Unknown	1		3,800
Electric-light poles	1	Exposure	1		2,000
Elevators (grain)	2	Loose pulley caused friction	1	$100	
		Static electricity	1	913	
					1,013
Engines	1	Short circuit	1		300
Factories (bed and mattress)	3	Defective chimney	1	$19	
		Sparks from picker-machine	1	14,178	
		Sparks from stove	1	185	
					14,382
Factories (biscuit and candy)	1	Short circuit	1		2,341
Factories (box)	1	Sparks from mill burner	1		434
Factories (broom)	1	Smokers' carelessness	1		8
Factories (furniture)	1	Boiler insufficiently protected	1		120
Factories (jam)	1	Unknown	1		1,003
Factories (metal and rubber)	1	Gasoline-torch carelessness	1		348
Factories (paint)	1	Varnish boiling over	1		156
Factories (rubber mat)	1	Smokers' carelessness	1		820
Factories (sash and door)	2	Incendiary	1	$176	
		Unknown	1	17,211	
					17,387
Fishing-boats	1	Carburettor back-firing	1		2,308
Fish-salteries	1	Exposure	1		235
Flour-mills	2	Overheated electric motor	1	$72	
		Stove insufficiently protected	1	25	
					97
Foundries	1	Sparks from chimney	1		25
Gaols	1	Stove-pipe insufficiently protected	1		15
Garages	26	Ashes against wood	1	$10	
		Exposure	3	671	
		Fire-crackers	1	10	
		Furnace insufficiently protected	1	683	
		Gasoline carelessness	1	50	
		Gas-radiator back-firing	1	95	
		Short circuit	2	1,634	
		Smokers' carelessness	2	7,376	
		Sparks from burning rubbish	1	51	
		Spontaneous combustion	1	5	
		Unknown	12	39,392	
					49,977

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

Property.		Causes.		Amount of Loss.	
Gasoline-stations	10	Carburettor back-firing	1	$1,000	
		Defective chimney	1	96	
		Electrical appliances	1	125	
		Gasoline-pump damaged by car	2	107	
		Smokers' carelessness	1	23	
		Spontaneous combustion	1	402	
		Thawing pipes	1	385	
		Unknown	2	5,410	
					$7,548
Gasworks	1	Unknown	1	.....	125
Golf Club houses	1	Gasoline carelessness	1	.....	766
Greenhouses	4	Boiler insufficiently protected	1	$145	
		Defective chimney	1	100	
		Sparks from boiler	2	2,875	
					3,120
Halls	11	Defective chimney	1	$148	
		Exposure	2	3,636	
		Short circuit	1	1,950	
		Sparks from chimney	2	46	
		Tar boiling over	1	4,311	
		Unknown	4	13,654	
					23,745
Hospitals	2	Smokers' carelessness	1	$12	
		Sparks from chimney	1	2	
					14
Hotels	63	Defective chimney	4	$1,011	
		Defective fireplace	1	18	
		Defective matches	1	101	
		Defective oil-stove	1	25	
		Electrical appliances	3	41	
		Exposure	4	20,316	
		Fire-crackers	1	15	
		Grease on stove	1	16,552	
		Incendiary	2	14,913	
		Short circuit	1	75	
		Smokers' carelessness	34	1,173	
		Sparks from chimney	5	2,120	
		Unknown	5	64,112	
					120,472
Launches	7	Coal-oil carelessness	1	$300	
		Match carelessness	1	25	
		Short circuit	2	3,810	
		Smokers' carelessness	1	100	
		Unknown	2	1,300	
					5,535
Laundries	3	Exposure	1	$1,750	
		Stove-pipe insufficiently protected	1	85	
		Unknown	1	16	
					1,851
Logging camps	2	Sparks from boiler	1	$500	
		Unknown	1	18,611	
					19,111
Machine-shops	2	Coal-oil carelessness	1	$8	
		Sawdust-burner insufficiently protected	1	45	
					53
Mining property	3	Incendiary	1	$17,399	
		Sparks from bush fire	1	481	
		Unknown	1	3,911	
					21,791
Offices	12	Ashes against wood	2	$648	
		Defective gas connection	1	72	
		Exposure	1	291	
		Grease on stove	1	109	
		Incendiary	1	1,800	

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

Property.		Causes.		Amount of Loss.	
		Smokers' carelessness	2	$30	
		Sparks from chimney	1	42	
		Sparks from stove	1	3,492	
		Spontaneous combustion	1	297	
		Stove insufficiently protected	1	200	
					$6,981
Paper-mills	2	Boiling wax ignited from hot bar	1	$18	
		Friction on rope-drive	1	3,000	
					3,018
Pole camps	3	Incendiary	2	$48,125	
		Unknown	1	1,900	
					50,025
Power-houses	2	Overheated machinery bearings	1	$85	
		Short circuit	1	27	
					112
Printing-offices	3	Exposure	1	$34	
		Naphtha carelessness	1	644	
		Stove-pipe insufficiently protected	1	56	
					734
Pump-houses	1	Unknown	1	.....	525
Railway-coaches	3	Defective stove	1	$5,000	
		Sparks from stove	1	40	
		Stove insufficiently protected	1	76	
					5,116
Relief camps	1	Incendiary	1	.....	1,253
Restaurants	10	Defective chimney	2	$113	
		Defective gasoline-lantern	1	2,750	
		Defective stove-pipe	1	5	
		Exposure	1	30	
		Grease on stove	1	45	
		Smokers' carelessness	2	19	
		Stove insufficiently protected	1	60	
		Unknown	1	860	
					3,882
Rinks	1	Unknown	1	.....	5,500
Rooming-houses	32	Clothes too near stove	2	$20	
		Curtains from stove	1	89	
		Defective oil-burner	2	1,385	
		Electrical appliances	2	19	
		Gas explosion	1	18	
		Incendiary	1	5	
		Match carelessness	1	5	
		Matches, children with	1	10	
		Paper from stove	1	5	
		Smokers' carelessness	10	449	
		Sparks from chimney	5	99	
		Sparks from fireplace	1	5	
		Sparks from stove	1	263	
		Stove explosion	1	20	
		Stove insufficiently protected	2	484	
					2,876
Sawmills	12	Smokers' carelessness	1	$22,362	
		Sparks from boiler	2	36,600	
		Sparks from bush fire	1	7,500	
		Sparks from mill burner	2	8,500	
		Unknown	6	82,287	
					157,249
Schools	11	Exposure	1	$32	
		Furnace-pipe insufficiently protected	1	25	
		Incendiary	1	1,000	
		Smokers' carelessness	1	75	
		Sparks from chimney	1	6	
		Unknown	6	10,772	
					11,910

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

Property.		Causes.		Amount of Loss.	
Sheds	13	Defective chimney	1	$590	
		Exposure	1	50	
		Gasoline carelessness	1	65	
		Gasoline explosion	1	120	
		Lantern upset	1	125	
		Sparks from burning rubbish	3	155	
		Sparks from chimney	1	2	
		Tar boiling over	1	1,000	
		Unknown	3	220	
					$2,327
Shingle-mills	6	Short circuit	1	$5,568	
		Sparks from engine	1	75	
		Sparks from mill burner	1	338	
		Spontaneous combustion	1	12,108	
		Unknown	2	11,933	
					30,022
Shipyards	1	Unknown	1		1,018
Smelting plants	1	Sparks from boiler	1		400
Smoke-houses	1	Grease dripping on hot sawdust	1		26
Stables	2	Unknown	2		2,017
Stores	87	Defective chimney	2	$14	
		Defective gasoline-stove	1	2,808	
		Electrical appliances	7	1,767	
		Exposure	30	54,988	
		Fire-crackers	2	22	
		Gasoline carelessness	1	5,195	
		Incendiary	2	1,467	
		Short circuit	5	366	
		Smokers' carelessness	16	2,701	
		Stove or stove-pipe insufficiently protected	5	3,204	
		Unknown	16	67,029	
					139,561
Stores and apartments	11	Grease on stove	1	$722	
		Match carelessness	2	11	
		Matches, children with	1	8	
		Short circuit	1	14	
		Smokers' carelessness	5	2,492	
		Unknown	1	1,001	
					4,248
Stores and dwellings	46	Ashes against wood	1	$16	
		Curtains from stove	1	2	
		Defective chimney	6	11,788	
		Electrical appliances	3	2,170	
		Exposure	10	36,311	
		Gasoline carelessness	1	1,660	
		Gasoline explosion	1	18	
		Grease on stove	1	10	
		Incendiary	2	1,255	
		Roofing material being heated, ignited	1	248	
		Short circuit	1	49	
		Smokers' carelessness	4	112	
		Sparks from chimney	2	2,040	
		Sparks from fireplace	1	2	
		Sparks from stove	2	2,333	
		Stove-pipe insufficiently protected	2	230	
		Thawing pipes	1	5	
		Unknown	6	23,074	
					81,323
Stores and hotels	1	Smokers' carelessness	1		87

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

Property.		Causes.		Amount of Loss.	
Stores and offices	17	Coal-gas explosion	1	$10,371	
		Defective chimney	1	15	
		Defective wiring	1	222	
		Electrical appliances	2	47	
		Smokers' carelessness	8	11,569	
		Stove insufficiently protected	1	47	
		Unknown	3	29,543	
					$51,814
Stores, offices, and rooms	8	Defective stove	1	$60	
		Smokers' carelessness	4	215	
		Sparks from chimney	1	22	
		Sparks from stove	1	32	
		Unknown	1	2,786	
					3,115
Stores and rooms	23	Defective chimney	3	$2,018	
		Defective oil-burner	2	1,032	
		Electrical appliances	1	15	
		Exposure	5	12,811	
		Fire-crackers	1	1,913	
		Furnace-pipe insufficiently protected	1	275	
		Gasoline carelessness	1	1,347	
		Smokers' carelessness	6	114	
		Unknown	3	5,793	
					25,318
Street-cars	1	Short circuit	1		571
Telephone-poles	1	Exposure	1		5,000
Theatres	2	Defective chimney	1	$55	
		Emulsion piling up on tension-shoes	1	191	
					246
Tobacco-kilns	1	Lantern upset	1		626
Tug-boats	3	Short circuit	1	$200	
		Unknown	2	12,050	
					12,250
Undertaking-parlours	1	Incendiary	1		5,828
Warehouses	13	Boiler insufficiently protected	1	$20	
		Defective oil-burner	1	5	
		Incendiary	2	27,659	
		Smokers' carelessness	2	218	
		Sparks from stove	1	1,700	
		Spontaneous combustion	1	46	
		Stove insufficiently protected	1	70	
		Unknown	4	14,629	
					44,347
Wood-working plants	1	Smokers' carelessness	1		19,000
Totals	2,635		2,635		$1,852,253

TABLE V.—SUMMARY.

	Fires reported.					Amount of Loss.				
	City Municipalities (33).	District Municipalities (28).	Village Municipalities (16).	Fire Districts (12).	Totals.	City Municipalities.	District Municipalities.	Village Municipalities.	Fire Districts.	Totals.
1933.										
January	183	44	3	36	266	$64,475	$38,750	$778	$54,448	$158,451
February	192	56	2	29	279	50,831	22,218	24	42,329	115,402
March	141	31	.....	33	205	35,319	30,553	.....	37,394	103,266
April	176	58	3	38	275	62,568	59,868	16,926	50,835	190,197
May	133	38	1	29	201	63,570	24,310	19	49,409	137,308
June	142	32	5	44	223	45,250	21,561	6,431	80,304	153,546
July	144	34	3	39	220	147,714	16,464	1,948	101,036	267,162
August	111	38	2	40	191	139,115	64,157	5,020	74,891	283,183
September	113	26	3	18	160	29,832	17,618	1,290	15,419	64,159
October	146	37	2	34	219	40,438	49,815	4,262	48,512	143,027
November	117	33	4	22	176	14,113	37,515	18,933	55,553	126,114
December	150	36	5	29	220	44,377	15,210	9,189	41,662	110,438
Totals, 1933	1,748	463	33	391	2,635	$737,602	$398,039	$64,820	$651,792	$1,852,253
Totals, 1932	1,884	529	55	474	2,942	1,079,084	943,059	111,948	1,164,914	3,299,005
Totals, 1931	1,673	483	44	480	2,680	1,057,728	686,086	78,716	1,339,864	3,162,394
Totals, 1930	1,764	468	20	460	2,712	2,139,926	1,135,883	19,121	1,406,160	4,701,090
Totals, 1929	1,583	370	14	419	2,386	2,264,496	391,798	13,384	1,520,422	4,190,100
	8,652	2,313	166	2,224	13,355	$7,278,836	$3,554,865	$287,989	$6,083,152	$17,204,842

TABLE VI.—LOSS OF LIFE, 1929–33.

Occupancy.	Cause of Fire.	Loss of Life.	
		Adults.	Children.
Dwelling	Defective stove-pipe	1	....
Dwelling	Stove insufficiently protected	1	....
Dwelling	Stove insufficiently protected	1	....
Dwelling	Unknown	1	....
Dwelling	Unknown	1	....
Store and rooms	Unknown	1	....
Totals, 1933		6	....
Totals, 1932		6	1
Totals, 1931		6	2
Totals, 1930		8	5
Totals, 1929		5	....

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