# THE FIRE MARSHAL

FOR THE PROVINCE OF BRITISH COLUMBIA

THIRTIETH

## ANNUAL REPORT

---

STATISTICS, 1951

VICTORIA, B.C.
Printed by DON MCDIARMID, Printer to the Queen's Most Excellent Majesty
1952

*To His Honour* CLARENCE A. WALLACE, C.B.E.,
*Lieutenant-Governor of the Province of British Columbia.*

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Thirtieth Annual Report of the Fire Marshal for the year ended December 31st, 1951.

GORDON S. WISMER,
*Attorney-General.*

*Victoria, B.C., March 31st, 1952.*

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# REPORT OF THE FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL,
VANCOUVER, B.C., March 31st, 1952.

*The Honourable Gordon S. Wismer, Q.C.,*
*Attorney-General,*
*Victoria, B.C.*

SIR,—I beg to enclose herewith the Thirtieth Annual Report of the Fire Marshal for the year ended December 31st, 1951.

I regret to report that the fire loss for the year 1951 shows an increase of $1,500,000 over the previous year. Some of the largest contributing causes to the total of $8,604,426 were incendiary fires, which accounted for almost $600,000, and the cause that is always with us, smokers' carelessness, accounted for approximately $500,000. We find that commercial fires, or those set for the purpose of obtaining insurance money, seem to be more numerous than they have been for the last eight or ten years.

There were twenty-seven fires with a loss of over $50,000 each. These accounted for an aggregate of $3,298,685. Of these fires, eleven were over $100,000. Of these eleven, four were over $200,000, and of these four, one was over $400,000.

Lives lost through fire during the year amounted to forty-nine, of which nineteen were men, twelve women, and eighteen children. During the year there were sixteen arson prosecutions in which members of the Investigation Branch of the Office took part. These resulted in eleven convictions, one acquittal, two committed to mental hospital, and in two a stay of proceedings was entered. Three were prosecuted for conspiracy to commit arson, two of which were convicted and one acquitted. There was one prosecution for negligently causing fire, with one conviction.

There were eighteen prosecutions for offences under the " Fire Marshal Act " and Regulations made pursuant thereto, with eighteen convictions.

The Travelling Instructional Unit has been very active throughout the year, which can be seen by the following statistics: 3,175 attended classes held throughout the Province, 546 of whom obtained certificates; 224 showings of fire-prevention films were given at these classes. During their travelling our instructors have made 1,050 inspections with the local authorities.

I would like to thank everyone whose co-operation and help has assisted in the work of this Office.

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

W. A. WALKER,
*Fire Marshal.*

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

## *City Municipalities (35)*

| | Inspections | Orders | | Inspections | Orders |
|---|---|---|---|---|---|
| Alberni | ---- | ---- | Nelson | 643 | 7 |
| Armstrong | ---- | ---- | New Westminster | 5,943 | 151 |
| Chilliwack | 111 | 3 | North Vancouver | 672 | 191 |
| Courtenay | 85 | 1 | Penticton | ---- | ---- |
| Cranbrook | ---- | ---- | Port Alberni | 280 | 24 |
| Cumberland | 47 | 4 | Port Coquitlam | ---- | ---- |
| Duncan | 68 | 3 | Port Moody | ---- | ---- |
| Enderby | ---- | ---- | Prince George | 351 | 3 |
| Fernie | 544 | ---- | Prince Rupert | 409 | 5 |
| Grand Forks | 24 | ---- | Revelstoke | 182 | ---- |
| Greenwood | 3 | ---- | Rossland | ---- | ---- |
| Kamloops | 408 | ---- | Salmon Arm | ---- | ---- |
| Kaslo | ---- | ---- | Slocan | ---- | ---- |
| Kelowna | 1,018 | ---- | Trail | 1,173 | 6 |
| Kimberley | 28 | ---- | Vancouver | 37,915 | 44 |
| Ladysmith | ---- | ---- | Vernon | 340 | 1 |
| Merritt | ---- | ---- | Victoria | 24,458 | 14 |
| Nanaimo | 1,180 | 2 | | | |
| | | | Totals | 75,882 | 459 |

## *District Municipalities (28)*

| | | | | | |
|---|---|---|---|---|---|
| Burnaby | 308 | 17 | North Vancouver | 395 | 71 |
| Central Saanich | 10 | ---- | Oak Bay | 1,922 | 14 |
| Chilliwhack | ---- | ---- | Peachland | ---- | ---- |
| Coldstream | ---- | ---- | Pitt Meadows | ---- | ---- |
| Coquitlam | ---- | ---- | Richmond | 277 | 8 |
| Delta | ---- | ---- | Saanich | 319 | 2 |
| Esquimalt | 238 | ---- | Salmon Arm | ---- | ---- |
| Fraser Mills | ---- | ---- | Spallumcheen | ---- | ---- |
| Glenmore | ---- | ---- | Sumas | ---- | ---- |
| Kent | 15 | ---- | Summerland | ---- | ---- |
| Langley | 25 | 1 | Surrey | 252 | 28 |
| Maple Ridge | ---- | ---- | Tadanac | 58 | ---- |
| Matsqui | ---- | ---- | West Vancouver | 1 | ---- |
| Mission | ---- | ---- | | | |
| North Cowichan | ---- | ---- | Totals | 3,820 | 141 |

## *Village Municipalities (41)*

| | | | | | |
|---|---|---|---|---|---|
| Abbotsford | ---- | ---- | McBride | ---- | ---- |
| Alert Bay | ---- | ---- | New Denver | ---- | ---- |
| Burns Lake | ---- | ---- | North Kamloops | ---- | ---- |
| Campbell River | 18 | 7 | Oliver | ---- | ---- |
| Castlegar | ---- | ---- | Osoyoos | ---- | ---- |
| Chapman Camp | ---- | ---- | Parksville | ---- | ---- |
| Comox | ---- | ---- | Pouce Coupe | ---- | ---- |
| Cranberry Lake | ---- | ---- | Princeton | ---- | ---- |
| Creston | ---- | ---- | Qualicum Beach | ---- | ---- |
| Dawson Creek | ---- | ---- | Quesnel | 45 | 19 |
| Fort St. John | 4 | ---- | Salmo | 23 | ---- |
| Gibsons Landing | ---- | ---- | Silverton | ---- | ---- |
| Harrison Hot Springs | ---- | ---- | Smithers | 235 | 9 |
| Hope | ---- | ---- | Squamish | ---- | ---- |
| Invermere | ---- | ---- | Stewart | ---- | ---- |
| Kinnaird | ---- | ---- | Terrace | 55 | ---- |
| Lake Cowichan | ---- | ---- | Tofino | ---- | ---- |
| Lillooet | ---- | ---- | Vanderhoof | ---- | ---- |
| Lytton | ---- | ---- | Westview | ---- | ---- |
| Marysville | ---- | ---- | Williams Lake | 68 | ---- |
| Mission City | 193 | ---- | | | |
| | | | Totals | 641 | 35 |

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

### *Fire Districts (20)*

| | Inspections | Orders | | Inspections | Orders |
|---|---|---|---|---|---|
| Annable-Warfield | ---- | ---- | Prince Rupert, County of | ---- | ---- |
| Cariboo, County of | 7 | 2 | Sooke | ---- | ---- |
| Colwood | ---- | ---- | University Area | 1,257 | ---- |
| District Lot 172 | 8 | ---- | Vancouver, County of | 314 | ---- |
| Ioco | ---- | ---- | Vernon | ---- | ---- |
| Kelowna | ---- | ---- | Victoria, County of | ---- | ---- |
| Kootenay, County of | 223 | 7 | View Royal | ---- | ---- |
| Langford | ---- | ---- | Westminster, County of | ---- | ---- |
| Nanaimo, County of | ---- | ---- | Yale, County of | 64 | ---- |
| Pacific Mills Limited | ---- | ---- | | | |
| Powell River | 105 | ---- | Totals | 1,978 | 9 |

| | Inspections | Orders |
|---|---|---|
| Grand totals | 82,321 | 644 |
| Grand totals, 1950 | 82,526 | 1,206 |
| Grand totals, 1949 | 85,081 | 1,649 |
| Grand totals, 1948 | 83,918 | 1,976 |
| Grand totals, 1947 | 74,477 | 1,596 |
| Grand totals, 1946 | 50,904 | 1,096 |
| Grand totals, 1945 | 60,638 | 1,350 |
| Grand totals, 1944 | 58,496 | 1,598 |
| Grand totals, 1943 | 56,344 | 1,702 |
| Grand totals, 1942 | 70,181 | 1,536 |

## TABLE II.—FIRES REPORTED

### *City Municipalities (35)*

| Districts Reporting | Number | Amount of Loss | Districts Reporting | Number | Amount of Loss |
|---|---|---|---|---|---|
| Alberni | 24 | $16,074 | Nelson | 29 | $10,542 |
| Armstrong | 5 | 2,540 | New Westminster | 208 | 338,369 |
| Chilliwack | 23 | 22,614 | North Vancouver | 100 | 40,670 |
| Courtenay | 19 | 3,439 | Penticton | 55 | 125,146 |
| Cranbrook | 16 | 2,814 | Port Alberni | 63 | 19,849 |
| Cumberland | 5 | 235 | Port Coquitlam | 15 | 11,338 |
| Duncan | 17 | 783 | Port Moody | 11 | 20,161 |
| Enderby | 4 | 884 | Prince George | 41 | 130,519 |
| Fernie | 13 | 5,423 | Prince Rupert | 31 | 30,676 |
| Grand Forks | 10 | 7,259 | Revelstoke | 21 | 2,913 |
| Greenwood | 5 | 48,315 | Rossland | 8 | 341 |
| Kamloops | 53 | 14,201 | Salmon Arm | 8 | 2,302 |
| Kaslo | 6 | 1,679 | Slocan | 2 | 3,050 |
| Kelowna | 58 | 13,795 | Trail | 45 | 21,227 |
| Kimberley | 13 | 9,106 | Vancouver | 2,712 | 1,694,356 |
| Ladysmith | 14 | 1,813 | Vernon | 27 | 38,726 |
| Merritt | 11 | 16,810 | Victoria | 406 | 80,027 |
| Nanaimo | 89 | 17,947 | | | |
| | | | Totals | 4,167 | $2,755,943 |

## TABLE II.—FIRES REPORTED—*Continued*

### *District Municipalities (28)*

| Districts Reporting | Number | Amount of Loss | Districts Reporting | Number | Amount of Loss |
|---|---|---|---|---|---|
| Burnaby | 341 | $84,463 | North Vancouver | 97 | $35,200 |
| Central Saanich | 9 | 20,128 | Oak Bay | 112 | 11,063 |
| Chilliwhack | 37 | 16,716 | Peachland | 2 | 141 |
| Coldstream | 2 | 230 | Pitt Meadows | 7 | 3,293 |
| Coquitlam | 45 | 37,189 | Richmond | 88 | 74,055 |
| Delta | 35 | 172,524 | Saanich | 177 | 34,418 |
| Esquimalt | 66 | 10,204 | Salmon Arm | 2 | 27,884 |
| Fraser Mills | 3 | 5,145 | Spallumcheen | 3 | 7,482 |
| Glenmore | 3 | 129 | Sumas | 14 | 11,503 |
| Kent | 8 | 15,237 | Summerland | 9 | 11,089 |
| Langley | 44 | 155,059 | Surrey | 153 | 200,915 |
| Maple Ridge | 48 | 94,868 | Tadanac | 64 | 14,820 |
| Matsqui | 22 | 73,237 | West Vancouver | 110 | 39,079 |
| Mission | 10 | 15,817 | | | |
| North Cowichan | 29 | 14,996 | Totals | 1,540 | $1,186,884 |

### *Village Municipalities (41)*

| | | | | | |
|---|---|---|---|---|---|
| Abbotsford | 22 | $63,624 | McBride | 1 | $125 |
| Alert Bay | 3 | 4,950 | New Denver | 2 | 954 |
| Burns Lake | 3 | 164 | North Kamloops | 7 | 3,838 |
| Campbell River | 15 | 3,463 | Oliver | 5 | 9,429 |
| Castlegar | 3 | 11,744 | Osoyoos | 2 | 366 |
| Chapman Camp | 1 | 12,577 | Parksville | 9 | 1,795 |
| Comox | 10 | 291 | Pouce Coupe | 2 | 45 |
| Cranberry Lake | 9 | 1,305 | Princeton | 7 | 3,864 |
| Creston | 6 | 856 | Qualicum Beach | 5 | 226 |
| Dawson Creek | 12 | 15,617 | Quesnel | 14 | 11,487 |
| Fort St. John | 4 | 1,662 | Salmo | 6 | 438 |
| Gibsons Landing | 1 | 45 | Silverton | 1 | 15 |
| Harrison Hot Springs | 1 | 23 | Smithers | 15 | 75,001 |
| Hope | 7 | 22,586 | Squamish | 3 | 982 |
| Invermere | ------ | ------ | Stewart | 2 | 1,811 |
| Kinnaird | 5 | 11,448 | Terrace | 7 | 9,589 |
| Lake Cowichan | 7 | 1,560 | Tofino | 3 | 137 |
| Lillooet | 1 | 25 | Vanderhoof | 4 | 277 |
| Lytton | 2 | 33 | Westview | 20 | 466,841 |
| Marysville | ------ | ------ | Williams Lake | 4 | 88,862 |
| Mission City | 25 | 151,026 | | | |
| | | | Totals | 256 | $979,081 |

### *Fire Districts (20)*

| | | | | | |
|---|---|---|---|---|---|
| Annable-Warfield | 2 | $262 | Sooke | 6 | $1,016 |
| Cariboo, County of | 118 | 588,185 | University Area | 22 | 1,055 |
| Colwood | 5 | 5,419 | Vancouver, County of | 62 | 1,352,982 |
| District Lot 172 | 7 | 177 | Vernon | 1 | 8,376 |
| Ioco | 1 | 35 | Victoria, County of | 70 | 119,931 |
| Kelowna | 9 | 3,722 | View Royal | 8 | 1,362 |
| Kootenay, County of | 119 | 234,063 | Westminster, County of | 43 | 103,202 |
| Langford | 6 | 5,873 | Yale, County of | 181 | 365,896 |
| Nanaimo, County of | 193 | 652,110 | | | |
| Pacific Mills Limited | 12 | 15,738 | Totals | 926 | $3,682,518 |
| Powell River | 9 | 409 | | | |
| Prince Rupert, County of | 52 | 222,705 | Grand total | 6,889 | $8,604,426 |

| Construction of buildings burned— | Number | Amount of Loss |
|---|---|---|
| Fire-resistive | 41 | $4,445 |
| Brick, concrete, or heavy timber | 354 | 643,431 |
| Wood frame | 5,672 | 7,668,652 |
| Metal or corrugated iron | 822 | 287,898 |
| Totals | 6,889 | $8,604,426 |

# TABLE III.—CAUSES OF FIRES

| Causes of Fires | Number | Amount of Loss |
|---|---|---|
| Acetylene-torch carelessness | 6 | $796 |
| Alcohol-vapour explosion | 2 | 38 |
| Ashes against wood | 54 | 8,928 |
| Asphalt boiling over | 2 | 560 |
| Broken gasoline-line | 12 | 6,170 |
| Bunsen burner, carelessness with | 1 | 180 |
| Candle carelessness | 51 | 4,935 |
| Car upset | 21 | 39,989 |
| Children playing with fire | 16 | 6,045 |
| Clothes too near stove or stove-pipe | 141 | 17,938 |
| Coal-gas explosion | 8 | 1,929 |
| Collision | 8 | 16,363 |
| Core oven, being overstocked, set fire to wiring | 1 | 50 |
| Curtains from stove | 4 | 371 |
| Defective acetylene equipment | 2 | 2,312 |
| Defective battery connection | 1 | 166 |
| Defective brick-kiln key | 1 | 44,550 |
| Defective brooder | 9 | 2,762 |
| Defective chimney | 263 | 339,380 |
| Defective fireplace | 29 | 22,233 |
| Defective furnace or furnace-pipe | 12 | 4,659 |
| Defective gas oven | 1 | 80 |
| Defective muffler | 1 | 200 |
| Defective oil-burner | 58 | 36,555 |
| Defective oil-burning equipment | 33 | 8,716 |
| Defective stove or stove-pipe | 27 | 33,585 |
| Defective wiring | 31 | 51,703 |
| Dust explosion | 9 | 1,084 |
| Electrical appliances | 372 | 191,843 |
| Engine back-firing | 48 | 32,347 |
| Exposure | 133 | 747,085 |
| Firecrackers | 76 | 13,490 |
| Friction in drive-shaft | 1 | 10 |
| Friction of logging-cable | 1 | 1,780 |
| Friction on brake-drum | 9 | 2,095 |
| Friction on conveyor-belt | 1 | 2,000 |
| Friction on tires | 1 | 75 |
| Friction sparks | 7 | 36,381 |
| Fuel-oil, carelessness in use of | 2 | 8,754 |
| Furnace or furnace-pipe insufficiently protected | 52 | 177,845 |
| Gas explosion | 10 | 2,407 |
| Gasoline carelessness | 37 | 45,994 |
| Gasoline on exhaust-pipe | 21 | 5,113 |
| Gasoline-torch carelessness | 24 | 12,159 |
| Gasoline-vapour explosion | 28 | 24,696 |
| Gas-plate insufficiently protected | 1 | 1,404 |
| Grease on stove | 129 | $25,395 |
| Heat radiation | 9 | 2,935 |
| Hot poker, carelessness with | 1 | 1,500 |
| Hot slag from retort igniting cartons | 1 | 1,300 |
| Hot stove-lid falling on floor | 1 | 15 |
| Ignition of metallic powder | 1 | 41 |
| Incendiary | 65 | 535,891 |
| Kerosene carelessness | 7 | 6,132 |
| Lamp explosion | 2 | 2,776 |
| Lamp upset | 10 | 9,343 |
| Lightning | 13 | 328,736 |
| Live coals | 12 | 411 |
| Match carelessness | 73 | 14,647 |
| Matches, children with | 107 | 33,222 |
| Molten metal | 3 | 1,350 |
| Oil-burner explosion | 21 | 24,440 |
| Overheating of machinery bearings | 3 | 28,160 |
| Paint vapours igniting | 7 | 31,478 |
| Sawdust-burner back-firing | 10 | 11,077 |
| Short circuit | 447 | 299,525 |
| Smokers' carelessness | 2,473 | 439,658 |
| Sparks from acetylene torch | 24 | 35,550 |
| Sparks from boiler | 6 | 46,300 |
| Sparks from bonfire | 84 | 91,350 |
| Sparks from bush fire | 17 | 84,321 |
| Sparks from chimney | 210 | 123,997 |
| Sparks from electric welder | 3 | 16,250 |
| Sparks from engine | 1 | 100 |
| Sparks from fireplace | 385 | 14,167 |
| Sparks from forge | 1 | 1,674 |
| Sparks from furnace or furnace-pipe | 28 | 15,964 |
| Sparks from mill burner | 14 | 96,283 |
| Sparks from stove or stove-pipe | 118 | 59,470 |
| Sparks from welding machine | 1 | 98 |
| Spontaneous ignition | 22 | 15,802 |
| Steam-pipe insufficiently protected | 3 | 4,553 |
| Stock piled against chimney | 1 | 443 |
| Stove explosion | 14 | 2,603 |
| Stove or stove-pipe insufficiently protected | 247 | 238,851 |
| Thawing pipes | 25 | 43,917 |
| Turpentine, carelessness in use of | 2 | 87 |
| Unknown | 646 | 3,940,019 |
| Varnish boiling over | 1 | 350 |
| Wood too near furnace | 7 | 8,093 |
| Wood too near stove | 6 | 8,397 |
| Totals | 6,889 | $8,604,426 |

## TABLE IV.—CLASSIFICATION OF PROPERTY BURNED AND CAUSES

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| Aircraft | 2 | Acetylene-torch carelessness | 1 | $500 | |
| | | Unknown | 1 | 55,226 | |
| | | | | | $55,726 |
| Apartments | 387 | Ashes against wood | 1 | $343 | |
| | | Candle carelessness | 2 | 162 | |
| | | Clothes too near stove | 7 | 350 | |
| | | Curtains from stove | 1 | 41 | |
| | | Defective chimney | 22 | 5,823 | |
| | | Defective furnace | 2 | 126 | |
| | | Defective oil-burner | 1 | 1,285 | |
| | | Defective oil-burning equipment | 1 | 148 | |
| | | Electrical appliances | 22 | 6,762 | |
| | | Exposure | 8 | 6,616 | |
| | | Firecrackers | 5 | 199 | |
| | | Furnace-pipe insufficiently protected | 1 | 35 | |
| | | Gas explosion | 2 | 159 | |
| | | Gasoline-torch carelessness | 2 | 125 | |
| | | Gasoline-vapour explosion | 1 | 681 | |
| | | Grease on stove | 8 | 557 | |
| | | Incendiary | 2 | 9,811 | |
| | | Match carelessness | 6 | 3,291 | |
| | | Matches, children with | 3 | 396 | |
| | | Oil-burner explosion | 2 | 132 | |
| | | Paint vapours igniting | 1 | 994 | |
| | | Short circuit | 7 | 2,135 | |
| | | Smokers' carelessness | 212 | 102,355 | |
| | | Sparks from bonfire | 4 | 4,791 | |
| | | Sparks from chimney | 16 | 3,626 | |
| | | Sparks from fire-place | 7 | 94 | |
| | | Sparks from stove or stove-pipe | 6 | 707 | |
| | | Spontaneous ignition | 2 | 266 | |
| | | Stove explosion | 3 | 385 | |
| | | Stove or stove-pipe insufficiently protected | 10 | 4,542 | |
| | | Thawing pipes | 3 | 1,018 | |
| | | Turpentine, carelessness in use of | 2 | 87 | |
| | | Unknown | 14 | 29,922 | |
| | | Wood too near furnace | 1 | 778 | |
| | | | | | 188,742 |
| Asphalt-mixing machines | 1 | Sparks from acetylene torch | 1 | | 8,000 |
| Asphalt plants | 1 | Asphalt boiling over | 1 | | 410 |
| Automobile courts | 38 | Candle carelessness | 1 | $12 | |
| | | Clothes too near stove | 1 | 49 | |
| | | Defective chimney | 1 | 142 | |
| | | Defective oil-burning equipment | 1 | 30 | |
| | | Defective stove | 1 | 500 | |
| | | Electrical appliances | 3 | 80 | |
| | | Grease on stove | 1 | 88 | |
| | | Sawdust-burner back-firing | 1 | 140 | |
| | | Short circuit | 2 | 207 | |
| | | Smokers' carelessness | 22 | 969 | |
| | | Thawing pipes | 1 | 75 | |
| | | Unknown | 3 | 2,566 | |
| | | | | | 4,858 |
| Automobiles | 764 | Acetylene-torch carelessness | 3 | $171 | |
| | | Alcohol-vapour explosion | 2 | 38 | |
| | | Ashes against wood | 2 | 156 | |
| | | Broken gasoline-line | 12 | 6,170 | |
| | | Car upset | 21 | 39,989 | |
| | | Collision | 8 | 16,363 | |
| | | Defective muffler | 1 | 200 | |
| | | Defective wiring | 9 | 1,387 | |
| | | Electrical appliances | 9 | 1,748 | |
| | | Engine back-firing | 29 | 6,822 | |
| | | Exposure | 10 | 2,746 | |
| | | Firecrackers | 4 | 686 | |
| | | Friction in drive-shaft | 1 | 10 | |
| | | Friction on brake-drum | 6 | 266 | |
| | | Friction on tires | 1 | 75 | |
| | | Gasoline carelessness | 9 | 8,369 | |
| | | Gasoline on exhaust-pipe | 19 | 4,505 | |
| | | Gasoline-torch carelessness | 1 | 32 | |
| | | Gasoline-vapour explosion | 9 | 976 | |
| | | Heat radiation | 1 | 15 | |
| | | Incendiary | 8 | 3,945 | |
| | | Match carelessness | 8 | 607 | |
| | | Matches, children with | 4 | 370 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Short circuit | 266 | $37,132 | |
| | | Smokers' carelessness | 221 | 17,615 | |
| | | Sparks from acetylene torch | 6 | 1,711 | |
| | | Sparks from bonfire | 4 | 1,030 | |
| | | Spontaneous ignition | 1 | 25 | |
| | | Unknown | 89 | 36,576 | |
| | | | | | $189,735 |
| Bakeries | 8 | Acetylene-torch carelessness | 1 | $25 | |
| | | Defective oil-burner | 1 | 53 | |
| | | Defective oil-burning equipment | 1 | 293 | |
| | | Exposure | 1 | 146 | |
| | | Furnace insufficiently protected | 1 | 1,420 | |
| | | Sparks from stove | 1 | 3,686 | |
| | | Stock piled against chimney | 1 | 443 | |
| | | Unknown | 1 | 319 | |
| | | | | | 6,385 |
| Banks | 2 | Exposure | 1 | $10 | |
| | | Smokers' carelessness | 1 | 15 | |
| | | | | | 25 |
| Barber-shops | 2 | Defective oil-burner | 1 | $2,856 | |
| | | Exposure | 1 | 214 | |
| | | | | | 3,070 |
| Barges | 1 | Unknown | 1 | | 3,000 |
| Barns | 37 | Ashes against wood | 1 | $52 | |
| | | Exposure | 1 | 730 | |
| | | Firecrackers | 2 | 1,400 | |
| | | Incendiary | 5 | 31,109 | |
| | | Lightning | 1 | 2,466 | |
| | | Matches, children with | 2 | 812 | |
| | | Short circuit | 1 | 121 | |
| | | Sparks from bonfire | 3 | 780 | |
| | | Sparks from bush fire | 2 | 2,050 | |
| | | Spontaneous ignition | 3 | 3,431 | |
| | | Unknown | 16 | 50,950 | |
| | | | | | 93,901 |
| Barracks | 1 | Smokers' carelessness | 1 | | 3,162 |
| Blacksmith-shops | 2 | Sparks from forge | 1 | $1,674 | |
| | | Unknown | 1 | 1,459 | |
| | | | | | 3,133 |
| Boarding-houses | 6 | Defective fireplace | 1 | $132 | |
| | | Electrical appliances | 1 | 20 | |
| | | Lamp upset | 1 | 150 | |
| | | Smokers' carelessness | 3 | 122 | |
| | | | | | 424 |
| Boat-houses | 1 | Firecrackers | 1 | | 5,091 |
| Bowling-alleys | 4 | Defective oil-burner | 1 | $909 | |
| | | Exposure | 1 | 1,766 | |
| | | Sparks from bonfire | 1 | 278 | |
| | | Unknown | 1 | 9,979 | |
| | | | | | 12,932 |
| Breweries | 1 | Sparks from boiler | 1 | | 2,081 |
| Bridges | 2 | Smokers' carelessness | 1 | $25 | |
| | | Sparks from acetylene torch | 1 | 7,000 | |
| | | | | | 7,025 |
| Bulldozers | 1 | Short circuit | 1 | | 500 |
| Bunk-houses | 14 | Clothes too near stove | 1 | $22 | |
| | | Furnace-pipe insufficiently protected | 1 | 2,666 | |
| | | Gasoline carelessness | 1 | 1,217 | |
| | | Match carelessness | 1 | 573 | |
| | | Short circuit | 1 | 6,783 | |
| | | Smokers' carelessness | 1 | 500 | |
| | | Stove or stove-pipe insufficiently protected | 3 | 6,597 | |
| | | Unknown | 5 | 47,515 | |
| | | | | | 65,873 |
| Buses | 5 | Friction on brake-drum | 3 | $1,829 | |
| | | Gasoline on exhaust-pipe | 1 | 74 | |
| | | Unknown | 1 | 200 | |
| | | | | | 2,103 |
| Canneries (fish) | 1 | Unknown | 1 | | 10,080 |
| Canneries (fruit and vegetable) | 3 | Sparks from boiler | 1 | $240 | |
| | | Spontaneous ignition | 1 | 726 | |
| | | Unknown | 1 | 3,404 | |
| | | | | | 4,370 |
| Cellulose plants | 2 | Kerosene carelessness | 1 | $412 | |
| | | Sparks from acetylene torch | 1 | 1,231 | |
| | | | | | 1,643 |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| Cement-mixers | 1 | Gasoline-vapour explosion | 1 | | $160 |
| Chemical laboratories | 1 | Bunsen burner, carelessness with | 1 | | 180 |
| Chlorination plants | 1 | Unknown | 1 | | 4,756 |
| Churches | 13 | Clothes too near stove | 1 | $60 | |
| | | Defective chimney | 2 | 3,512 | |
| | | Electrical appliances | 1 | 77 | |
| | | Exposure | 1 | 25 | |
| | | Gasoline-vapour explosion | 1 | 175 | |
| | | Incendiary | 1 | 2,000 | |
| | | Match carelessness | 1 | 45 | |
| | | Matches, children with | 2 | 30 | |
| | | Sparks from chimney | 1 | 115 | |
| | | Unknown | 2 | 1,825 | |
| | | | | | 7,864 |
| City halls | 1 | Unknown | 1 | | 12,515 |
| Clubs | 21 | Defective chimney | 1 | $10 | |
| | | Electrical appliances | 1 | 132 | |
| | | Firecrackers | 1 | 300 | |
| | | Furnace-pipe insufficiently protected | 1 | 1,972 | |
| | | Grease on stove | 1 | 24 | |
| | | Match carelessness | 1 | 70 | |
| | | Smokers' carelessness | 12 | 952 | |
| | | Sparks from chimney | 1 | 35 | |
| | | Stove-pipe insufficiently protected | 1 | 75 | |
| | | Unknown | 1 | 5,355 | |
| | | | | | 8,925 |
| Cold-storage plants | 1 | Short circuit | 1 | | 259 |
| Cook-houses | 1 | Grease on stove | 1 | | 3,188 |
| Cranes | 2 | Sparks from acetylene torch | 1 | $85 | |
| | | Unknown | 1 | 600 | |
| | | | | | 685 |
| Crematories | 1 | Unknown | 1 | | 5,360 |
| Dairies | 5 | Defective oil-burning equipment | 1 | $49 | |
| | | Electrical appliances | 1 | 44 | |
| | | Short circuit | 1 | 2,660 | |
| | | Sparks from boiler | 1 | 900 | |
| | | Sparks from chimney | 1 | 50 | |
| | | | | | 3,703 |
| Dry-cleaning plants | 6 | Exposure | 2 | $8,975 | |
| | | Incendiary | 1 | 233 | |
| | | Match carelessness | 1 | 1,715 | |
| | | Sparks from chimney | 1 | 65 | |
| | | Unknown | 1 | 3,250 | |
| | | | | | 14,238 |
| Dwellings | 4,120 | Ashes against wood | 38 | $6,838 | |
| | | Candle carelessness | 45 | 2,593 | |
| | | Children playing with fire | 13 | 5,809 | |
| | | Clothes too near stove or stove-pipe | 112 | 16,509 | |
| | | Coal-gas explosion | 8 | 1,929 | |
| | | Curtains from stove | 3 | 330 | |
| | | Defective chimney | 199 | 148,073 | |
| | | Defective fireplace | 27 | 18,601 | |
| | | Defective furnace or furnace-pipe | 9 | 4,513 | |
| | | Defective oil-burner | 33 | 21,153 | |
| | | Defective oil-burning equipment | 23 | 4,267 | |
| | | Defective stove or stove-pipe | 21 | 28,724 | |
| | | Defective wiring | 13 | 21,735 | |
| | | Dust explosion | 1 | 259 | |
| | | Electrical appliances | 285 | 26,625 | |
| | | Exposure | 39 | 35,198 | |
| | | Firecrackers | 22 | 1,604 | |
| | | Fuel-oil, carelessness in use of | 1 | 8,500 | |
| | | Furnace or furnace-pipe insufficiently protected | 36 | 36,551 | |
| | | Gas explosion | 5 | 1,155 | |
| | | Gasoline carelessness | 13 | 15,966 | |
| | | Gasoline-torch carelessness | 13 | 3,813 | |
| | | Gasoline-vapour explosion | 3 | 4,997 | |
| | | Grease on stove | 106 | 15,852 | |
| | | Heat radiation | 5 | 505 | |
| | | Hot stove-lid falling on floor | 1 | 15 | |
| | | Incendiary | 16 | 38,278 | |
| | | Kerosene carelessness | 5 | 5,675 | |
| | | Lamp explosion | 2 | 2,776 | |
| | | Lamp upset | 9 | 9,193 | |
| | | Lightning | 5 | 3,311 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Live coals | 12 | $411 | |
| | | Match carelessness | 46 | 7,197 | |
| | | Matches, children with | 76 | 24,395 | |
| | | Oil-burner explosion | 14 | 2,447 | |
| | | Paint vapours igniting | 2 | 2,440 | |
| | | Sawdust-burner back-firing | 9 | 10,937 | |
| | | Short circuit | 78 | 72,379 | |
| | | Smokers' carelessness | 1,615 | 171,651 | |
| | | Sparks from bonfire | 37 | 32,472 | |
| | | Sparks from bush fire | 5 | 5,822 | |
| | | Sparks from chimney | 162 | 98,735 | |
| | | Sparks from fireplace | 374 | 13,999 | |
| | | Sparks from furnace or furnace-pipe | 19 | 10,658 | |
| | | Sparks from stove or stove-pipe | 96 | 29,765 | |
| | | Spontaneous ignition | 9 | 7,333 | |
| | | Stove explosion | 10 | 2,093 | |
| | | Stove or stove-pipe insufficiently protected | 183 | 161,530 | |
| | | Thawing pipes | 14 | 20,133 | |
| | | Unknown | 236 | 663,708 | |
| | | Wood too near furnace | 7 | 7,413 | |
| | | Wood too near stove | 5 | 6,869 | |
| | | | | | $1,843,734 |
| Electrical sub-stations | 2 | Short circuit | 2 | | 490 |
| Electric-light plants | 6 | Short circuit | 1 | $8,704 | |
| | | Unknown | 5 | 19,693 | |
| | | | | | 28,397 |
| Electric-light and telephone poles | 11 | Firecrackers | 1 | $218 | |
| | | Short circuit | 7 | 1,550 | |
| | | Sparks from bush fire | 2 | 200 | |
| | | Unknown | 1 | 500 | |
| | | | | | 2,468 |
| Factories (bed and mattress) | 2 | Friction sparks | 2 | | 5,894 |
| Factories (brick and tile) | 3 | Defective brick-kiln key | 1 | $44,550 | |
| | | Furnace-pipe insufficiently protected | 1 | 150 | |
| | | Heat radiation | 1 | 1,757 | |
| | | | | | 46,457 |
| Factories (food products) | 2 | Defective chimney | 1 | $336 | |
| | | Exposure | 1 | 5,009 | |
| | | | | | 5,345 |
| Factories (furniture) | 5 | Smokers' carelessness | 1 | $4,956 | |
| | | Unknown | 4 | 79,863 | |
| | | | | | 84,819 |
| Factories (paint) | 1 | Paint vapours igniting | 1 | | 1,867 |
| Factories (plastic products) | 2 | Exposure | 1 | $65 | |
| | | Unknown | 1 | 17,397 | |
| | | | | | 17,462 |
| Factories (rock-wool insulation) | 1 | Defective oil-burner | 1 | | 3,080 |
| Factories (roof products) | 2 | Sparks from acetylene torch | 1 | $50 | |
| | | Unknown | 1 | 483 | |
| | | | | | 533 |
| Factories (rubber goods) | 1 | Ignition of metallic powder | 1 | | 41 |
| Factories (wooden box) | 1 | Unknown | 1 | | 3,400 |
| Fences | 18 | Ashes against wood | 1 | $25 | |
| | | Exposure | 3 | 69 | |
| | | Matches, children with | 1 | 10 | |
| | | Smokers' carelessness | 5 | 139 | |
| | | Sparks from bonfire | 3 | 102 | |
| | | Sparks from bush fire | 1 | 75 | |
| | | Spontaneous ignition | 1 | 80 | |
| | | Unknown | 3 | 210 | |
| | | | | | 710 |
| Fishing-boats | 30 | Defective oil-burner | 2 | $1,644 | |
| | | Defective wiring | 1 | 500 | |
| | | Engine back-firing | 6 | 11,003 | |
| | | Gasoline carelessness | 1 | 1,400 | |
| | | Gasoline-torch carelessness | 1 | 2,500 | |
| | | Gasoline-vapour explosion | 1 | 250 | |
| | | Oil-burner explosion | 1 | 6,500 | |
| | | Short circuit | 2 | 9,108 | |
| | | Sparks from acetylene torch | 1 | 35 | |
| | | Stove insufficiently protected | 7 | 17,927 | |
| | | Unknown | 7 | 11,474 | |
| | | | | | 62,341 |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| Foundries | 7 | Core oven, being overstocked, set fire to wiring | 1 | $50 | |
| | | Defective chimney | 1 | 25 | |
| | | Defective gas-oven | 1 | 80 | |
| | | Sparks from chimney | 1 | 73 | |
| | | Unknown | 3 | 61,032 | |
| | | | | | $61,260 |
| Freight cars | 2 | Hot slag from retort igniting cartons | 1 | $1,300 | |
| | | Short circuit | 1 | 15 | |
| | | | | | 1,315 |
| Frozen-food lockers | 1 | Unknown | 1 | | 137 |
| Fruit packing and processing plants | 2 | Incendiary | 1 | $50,000 | |
| | | Unknown | 1 | 17,867 | |
| | | | | | 67,867 |
| Gaols | 2 | Incendiary | 2 | | 28,500 |
| Garages (private) | 67 | Ashes against wood | 2 | $259 | |
| | | Clothes too near stove | 1 | 45 | |
| | | Defective oil-burner | 1 | 224 | |
| | | Defective stove-pipe | 1 | 1,478 | |
| | | Electrical appliances | 1 | 20 | |
| | | Exposure | 8 | 675 | |
| | | Firecrackers | 5 | 1,178 | |
| | | Gasoline carelessness | 1 | 78 | |
| | | Gasoline-torch carelessness | 1 | 2,788 | |
| | | Incendiary | 3 | 1,126 | |
| | | Matches, children with | 5 | 550 | |
| | | Paint vapours igniting | 1 | 1,496 | |
| | | Short circuit | 3 | 2,947 | |
| | | Smokers' carelessness | 1 | 54 | |
| | | Sparks from acetylene torch | 1 | 3,000 | |
| | | Sparks from bonfire | 8 | 2,600 | |
| | | Sparks from chimney | 3 | 81 | |
| | | Sparks from stove | 1 | 170 | |
| | | Spontaneous ignition | 1 | 382 | |
| | | Steam-pipe insufficiently protected | 1 | 1,553 | |
| | | Stove-pipe insufficiently protected | 1 | 2,266 | |
| | | Unknown | 17 | 119,220 | |
| | | | | | 142,190 |
| Garages (public) | 36 | Clothes too near stove | 2 | $58 | |
| | | Defective acetylene equipment | 1 | 684 | |
| | | Defective chimney | 2 | 204 | |
| | | Defective oil-burner | 1 | 82 | |
| | | Furnace or furnace-pipe insufficiently protected | 2 | 99,500 | |
| | | Gasoline carelessness | 2 | 207 | |
| | | Gasoline-torch carelessness | 1 | 2,713 | |
| | | Gasoline-vapour explosion | 3 | 12,808 | |
| | | Heat radiation | 1 | 620 | |
| | | Oil-burner explosion | 1 | 15,000 | |
| | | Short circuit | 3 | 15,459 | |
| | | Smokers' carelessness | 2 | 2,717 | |
| | | Sparks from acetylene torch | 1 | 30 | |
| | | Sparks from electric welder | 2 | 16,216 | |
| | | Sparks from stove | 1 | 1,275 | |
| | | Stove insufficiently protected | 1 | 200 | |
| | | Unknown | 10 | 143,492 | |
| | | | | | 311,265 |
| Gasoline-shovels | 1 | Smokers' carelessness | 1 | | 210 |
| Gasoline-stations | 9 | Defective acetylene equipment | 1 | $1,628 | |
| | | Electrical appliances | 2 | 75 | |
| | | Exposure | 1 | 1,500 | |
| | | Friction sparks | 1 | 5,300 | |
| | | Gasoline-vapour explosion | 1 | 1,975 | |
| | | Incendiary | 1 | 6,600 | |
| | | Short circuit | 1 | 462 | |
| | | Unknown | 1 | 367 | |
| | | | | | 17,907 |
| Grandstands | 1 | Unknown | 1 | | 4,149 |
| Greenhouses | 3 | Defective oil-burner | 1 | $472 | |
| | | Sparks from chimney | 1 | 75 | |
| | | Stove insufficiently protected | 1 | 125 | |
| | | | | | 672 |
| Halls | 22 | Exposure | 1 | $80 | |
| | | Firecrackers | 1 | 12 | |
| | | Grease on stove | 1 | 492 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Incendiary | 2 | $3,500 | |
| | | Smokers' carelessness | 8 | 1,462 | |
| | | Sparks from bonfire | 1 | 52 | |
| | | Sparks from furnace | 1 | 3,691 | |
| | | Unknown | 7 | 21,314 | |
| | | | | | $30,603 |
| Hospitals | 17 | Defective oil-burner | 1 | $13 | |
| | | Furnace-pipe insufficiently protected | 1 | 18 | |
| | | Incendiary | 1 | 100 | |
| | | Match carelessness | 1 | 18 | |
| | | Smokers' carelessness | 7 | 1,021 | |
| | | Sparks from chimney | 3 | 1,706 | |
| | | Stove insufficiently protected | 2 | 60 | |
| | | Unknown | 1 | 272 | |
| | | | | | 3,208 |
| Hotels | 155 | Candle carelessness | 1 | $187 | |
| | | Clothes too near stove | 1 | 66 | |
| | | Defective chimney | 4 | 71,932 | |
| | | Defective oil-burner | 1 | 191 | |
| | | Defective oil-burning equipment | 1 | 1,202 | |
| | | Defective wiring | 1 | 207 | |
| | | Exposure | 1 | 147 | |
| | | Grease on stove | 2 | 643 | |
| | | Incendiary | 1 | 732 | |
| | | Oil-burner explosion | 1 | 25 | |
| | | Short circuit | 5 | 17,583 | |
| | | Smokers' carelessness | 121 | 12,041 | |
| | | Sparks from bonfire | 1 | 60 | |
| | | Sparks from chimney | 3 | 531 | |
| | | Sparks from fireplace | 1 | 37 | |
| | | Steam-pipe insufficiently protected | 1 | 2,750 | |
| | | Stove insufficiently protected | 1 | 1,430 | |
| | | Unknown | 8 | 90,412 | |
| | | | | | 200,176 |
| House-boats | 1 | Stove insufficiently protected | 1 | | 2,500 |
| Launches | 7 | Exposure | 3 | $1,896 | |
| | | Gasoline-vapour explosion | 1 | 1,129 | |
| | | Unknown | 3 | 454 | |
| | | | | | 3,479 |
| Laundries | 7 | Match carelessness | 1 | $459 | |
| | | Smokers' carelessness | 2 | 2,608 | |
| | | Steam-pipe insufficiently protected | 1 | 250 | |
| | | Unknown | 3 | 583 | |
| | | | | | 3,900 |
| Libraries | 1 | Sparks from bonfire | 1 | | 50 |
| Logging camps | 37 | Exposure | 3 | $614,979 | |
| | | Friction of logging cable | 1 | 1,780 | |
| | | Friction sparks | 2 | 5,186 | |
| | | Lightning | 3 | 311,709 | |
| | | Smokers' carelessness | 3 | 68,420 | |
| | | Sparks from bonfire | 2 | 40,593 | |
| | | Sparks from bush fire | 5 | 75,424 | |
| | | Sparks from chimney | 1 | 3,276 | |
| | | Stove-pipe insufficiently protected | 1 | 2,115 | |
| | | Thawing pipes | 1 | 1,347 | |
| | | Unknown | 15 | 460,674 | |
| | | | | | 1,585,503 |
| Lumber-piles | 5 | Incendiary | 1 | $5 | |
| | | Smokers' carelessness | 1 | 15 | |
| | | Unknown | 3 | 230 | |
| | | | | | 250 |
| Lumber-yards | 2 | Unknown | 2 | | 10,945 |
| Machine-shops | 2 | Gas explosion | 1 | $350 | |
| | | Smokers' carelessness | 1 | 300 | |
| | | | | | 650 |
| Mining properties | 9 | Short circuit | 1 | $264 | |
| | | Thawing pipes | 1 | 8,414 | |
| | | Unknown | 7 | 42,745 | |
| | | | | | 51,423 |
| Motorcycles | 9 | Engine back-firing | 7 | $642 | |
| | | Gasoline-vapour explosion | 2 | 275 | |
| | | | | | 917 |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| Offices | 36 | Clothes too near stove | 7 | $167 | |
| | | Defective chimney | 1 | 7,847 | |
| | | Defective oil-burner | 2 | 979 | |
| | | Electrical appliances | 1 | 20 | |
| | | Exposure | 5 | 9,056 | |
| | | Incendiary | 1 | 133 | |
| | | Match carelessness | 1 | 13 | |
| | | Oil-burner explosion | 1 | 300 | |
| | | Short circuit | 2 | 229 | |
| | | Smokers' carelessness | 7 | 4,032 | |
| | | Sparks from bonfire | 1 | 1,273 | |
| | | Stove insufficiently protected | 1 | 50 | |
| | | Unknown | 6 | 14,366 | |
| | | | | | $38,465 |
| Oil-tanks | 1 | Acetylene-torch carelessness | 1 | | 100 |
| Paper-mills | 5 | Electrical appliances | 2 | $800 | |
| | | Short circuit | 1 | 350 | |
| | | Sparks from boiler | 1 | 100 | |
| | | Unknown | 1 | 474 | |
| | | | | | 1,724 |
| Piggeries | 2 | Unknown | 2 | | 63,450 |
| Portable pumps | 1 | Engine back-firing | 1 | | 170 |
| Portable welding-machines | 1 | Unknown | 1 | | 728 |
| Poultry-houses | 31 | Defective brooder | 9 | $2,762 | |
| | | Defective oil-burning equipment | 2 | 169 | |
| | | Defective stove or stove-pipe | 2 | 1,350 | |
| | | Defective wiring | 2 | 1,181 | |
| | | Incendiary | 1 | 95 | |
| | | Match carelessness | 1 | 18 | |
| | | Matches, children with | 1 | 25 | |
| | | Short circuit | 1 | 10 | |
| | | Sparks from bonfire | 1 | 1,000 | |
| | | Sparks from bush fire | 1 | 250 | |
| | | Sparks from stove | 2 | 8,725 | |
| | | Stove or stove-pipe insufficiently protected | 2 | 1,393 | |
| | | Unknown | 6 | 9,558 | |
| | | | | | 26,536 |
| Power-houses | 6 | Engine back-firing | 1 | $400 | |
| | | Short circuit | 4 | 41,039 | |
| | | Thawing pipes | 1 | 313 | |
| | | | | | 41,752 |
| Power-saws | 1 | Unknown | 1 | | 3,143 |
| Printing plants | 9 | Exposure | 1 | $150 | |
| | | Fuel-oil, carelessness in use of | 1 | 254 | |
| | | Gasoline-torch carelessness | 1 | 74 | |
| | | Smokers' carelessness | 2 | 901 | |
| | | Sparks from acetylene torch | 1 | 128 | |
| | | Thawing pipes | 1 | 20 | |
| | | Unknown | 2 | 78,629 | |
| | | | | | 80,156 |
| Pulp-mills | 1 | Electrical appliances | 1 | | 1,416 |
| Pump-houses | 1 | Unknown | 1 | | 300 |
| Pumping stations | 1 | Hot poker, carelessness with | 1 | | 1,500 |
| Rabbitries | 1 | Unknown | 1 | | 4,423 |
| Railway-cars | 2 | Sparks from stove | 1 | $5,344 | |
| | | Unknown | 1 | 1,700 | |
| | | | | | 7,044 |
| Railway-stations | 3 | Smokers' carelessness | 3 | | 35 |
| Restaurants | 43 | Defective chimney | 4 | $8,825 | |
| | | Electrical appliances | 2 | 55 | |
| | | Exposure | 1 | 5,236 | |
| | | Firecrackers | 1 | 63 | |
| | | Grease on stove | 2 | 3,233 | |
| | | Incendiary | 3 | 33,406 | |
| | | Match carelessness | 1 | 5 | |
| | | Short circuit | 2 | 81 | |
| | | Smokers' carelessness | 18 | 432 | |
| | | Stove or stove-pipe insufficiently protected | 5 | 3,311 | |
| | | Unknown | 4 | 15,517 | |
| | | | | | 70,164 |
| Rinks (ice) | 1 | Incendiary | 1 | | 500 |
| Rock-crushers | 1 | Unknown | 1 | | 5,000 |
| Rooming-houses | 133 | Candle carelessness | 1 | $78 | |
| | | Clothes too near stove | 2 | 66 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Defective chimney | 6 | $3,092 | |
| | | Electrical appliances | 4 | 417 | |
| | | Exposure | 3 | 190 | |
| | | Firecrackers | 1 | 177 | |
| | | Gasoline carelessness | 1 | 3,575 | |
| | | Grease on stove | 1 | 25 | |
| | | Match carelessness | 2 | 93 | |
| | | Matches, children with | 2 | 4,319 | |
| | | Short circuit | 3 | 88 | |
| | | Smokers' carelessness | 93 | 2,784 | |
| | | Sparks from bonfire | 1 | 10 | |
| | | Sparks from chimney | 5 | 2,826 | |
| | | Sparks from fireplace | 2 | 25 | |
| | | Spontaneous ignition | 1 | 100 | |
| | | Stove or stove-pipe insufficiently protected | 3 | 245 | |
| | | Thawing pipes | 1 | 35 | |
| | | Unknown | 1 | 46 | |
| | | | | | $18,191 |
| Sailboats | 1 | Unknown | 1 | | 640 |
| Sawmills | 66 | Electrical appliances | 4 | $6,340 | |
| | | Engine back-firing | 2 | 13,000 | |
| | | Friction on conveyor belt | 1 | 2,000 | |
| | | Friction sparks | 1 | 14,001 | |
| | | Gasoline carelessness | 1 | 5,407 | |
| | | Incendiary | 2 | 122,103 | |
| | | Lightning | 2 | 10,292 | |
| | | Overheating of machinery bearings | 2 | 28,120 | |
| | | Short circuit | 4 | 30,845 | |
| | | Sparks from acetylene torch | 2 | 4,050 | |
| | | Sparks from boiler | 2 | 42,979 | |
| | | Sparks from bonfire | 1 | 1,300 | |
| | | Sparks from engine | 1 | 100 | |
| | | Sparks from mill burner | 12 | 96,083 | |
| | | Sparks from stove | 1 | 8,000 | |
| | | Spontaneous ignition | 1 | 339 | |
| | | Stove-pipe insufficiently protected | 1 | 2,033 | |
| | | Unknown | 26 | 436,052 | |
| | | | | | 823,044 |
| Schools | 26 | Candle carelessness | 1 | $1,903 | |
| | | Defective oil-burner | 1 | 261 | |
| | | Electrical appliances | 1 | 404 | |
| | | Furnace insufficiently protected | 1 | 1,620 | |
| | | Gas explosion | 1 | 694 | |
| | | Gasoline-vapour explosion | 1 | 5 | |
| | | Incendiary | 1 | 5,000 | |
| | | Short circuit | 2 | 349 | |
| | | Smokers' carelessness | 3 | 137 | |
| | | Sparks from bonfire | 1 | 92 | |
| | | Sparks from chimney | 1 | 788 | |
| | | Sparks from furnace | 1 | 245 | |
| | | Sparks from stove | 1 | 150 | |
| | | Stove or stove-pipe insufficiently protected | 2 | 213 | |
| | | Unknown | 8 | 223,215 | |
| | | | | | 235,076 |
| Sheds | 90 | Ashes against wood | 6 | $988 | |
| | | Children playing with fire | 2 | 215 | |
| | | Clothes too near stove | 1 | 293 | |
| | | Defective chimney | 2 | 710 | |
| | | Defective oil-burner | 1 | 15 | |
| | | Defective stove | 1 | 400 | |
| | | Defective wiring | 1 | 586 | |
| | | Electrical appliances | 3 | 1,342 | |
| | | Exposure | 6 | 749 | |
| | | Firecrackers | 2 | 173 | |
| | | Gasoline carelessness | 1 | 75 | |
| | | Gasoline-vapour explosion | 2 | 626 | |
| | | Incendiary | 3 | 1,498 | |
| | | Matches, children with | 7 | 1,965 | |
| | | Short circuit | 2 | 647 | |
| | | Smokers' carelessness | 8 | 10,158 | |
| | | Sparks from bonfire | 8 | 3,258 | |
| | | Sparks from bush fire | 1 | 500 | |
| | | Sparks from chimney | 1 | 100 | |
| | | Sparks from stove-pipe | 1 | 25 | |
| | | Stove or stove-pipe insufficiently protected | 6 | 2,971 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Unknown | 24 | $57,566 | |
| | | Varnish boiling over | 1 | 350 | |
| | | | | | $85,210 |
| Sheet-metal works | 2 | Paint vapours igniting | 1 | $19,190 | |
| | | Sparks from acetylene torch | 1 | 20 | |
| | | | | | 19,210 |
| Shingle-mills | 8 | Electrical appliances | 1 | $94,313 | |
| | | Friction sparks | 1 | 6,000 | |
| | | Sparks from chimney | 1 | 1,124 | |
| | | Sparks from mill burner | 2 | 200 | |
| | | Unknown | 3 | 29,763 | |
| | | | | | 131,400 |
| Ships | 2 | Short circuit | 1 | $3,448 | |
| | | Sparks from acetylene torch | 1 | 8,739 | |
| | | | | | 12,187 |
| Shipyards | 1 | Sparks from welding machine | 1 | | 98 |
| Smelting plants | 61 | Ashes against wood | 1 | $25 | |
| | | Asphalt boiling over | 1 | 150 | |
| | | Defective furnace | 1 | 20 | |
| | | Defective oil-burner | 3 | 1,857 | |
| | | Defective oil-burning equipment | 1 | 20 | |
| | | Dust explosion | 8 | 825 | |
| | | Electrical appliances | 3 | 550 | |
| | | Furnace insufficiently protected | 3 | 85 | |
| | | Gasoline-torch carelessness | 2 | 55 | |
| | | Molten metal | 1 | 250 | |
| | | Overheating of machinery bearings | 1 | 40 | |
| | | Short circuit | 20 | 8,076 | |
| | | Sparks from acetylene torch | 3 | 90 | |
| | | Sparks from chimney | 2 | 823 | |
| | | Sparks from furnace | 4 | 790 | |
| | | Stove insufficiently protected | 1 | 50 | |
| | | Unknown | 6 | 7,821 | |
| | | | | | 21,527 |
| Stables | 3 | Sparks from bonfire | 1 | $250 | |
| | | Spontaneous ignition | 1 | 2,700 | |
| | | Wood too near stove | 1 | 1,528 | |
| | | | | | 4,478 |
| Steel-fabricating plants | 1 | Molten metal | 1 | | 50 |
| Stores | 173 | Ashes against wood | 1 | $30 | |
| | | Clothes too near stove | 4 | 174 | |
| | | Defective chimney | 4 | 77,274 | |
| | | Defective fireplace | 1 | 3,500 | |
| | | Defective oil-burner | 3 | 114 | |
| | | Defective oil-burning equipment | 2 | 2,538 | |
| | | Defective stove | 1 | 1,133 | |
| | | Defective wiring | 3 | 9,757 | |
| | | Electrical appliances | 9 | 3,417 | |
| | | Exposure | 15 | 12,310 | |
| | | Firecrackers | 20 | 1,356 | |
| | | Furnace-pipe insufficiently protected | 1 | 120 | |
| | | Gas explosion | 1 | 49 | |
| | | Gasoline carelessness | 1 | 203 | |
| | | Gasoline-torch carelessness | 1 | 34 | |
| | | Gas-plate insufficiently protected | 1 | 1,404 | |
| | | Grease on stove | 2 | 364 | |
| | | Heat radiation | 1 | 38 | |
| | | Incendiary | 6 | 88,867 | |
| | | Match carelessness | 1 | 48 | |
| | | Paint vapours igniting | 1 | 5,491 | |
| | | Short circuit | 8 | 2,040 | |
| | | Smokers' carelessness | 48 | 7,727 | |
| | | Sparks from bonfire | 3 | 1,049 | |
| | | Sparks from chimney | 3 | 373 | |
| | | Sparks from furnace | 1 | 119 | |
| | | Sparks from stove | 2 | 135 | |
| | | Stove explosion | 1 | 125 | |
| | | Stove or stove-pipe insufficiently protected | 6 | 7,826 | |
| | | Unknown | 22 | 111,134 | |
| | | | | | 338,749 |
| Stores and apartments | 46 | Ashes against wood | 1 | $212 | |
| | | Defective chimney | 7 | 4,003 | |
| | | Defective oil-burner | 2 | 1,217 | |
| | | Defective wiring | 2 | 16,415 | |
| | | Electrical appliances | 4 | 391 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Exposure | 3 | $10,114 | |
| | | Firecrackers | 3 | 240 | |
| | | Furnace-pipe insufficiently protected | 1 | 28,344 | |
| | | Grease on stove | 1 | 806 | |
| | | Matches, children with | 1 | 137 | |
| | | Short circuit | 1 | 558 | |
| | | Smokers' carelessness | 10 | 4,838 | |
| | | Sparks from chimney | 1 | 3,841 | |
| | | Sparks from stove | 1 | 139 | |
| | | Thawing pipes | 1 | 12,472 | |
| | | Unknown | 7 | 15,788 | |
| | | | | | $99,515 |
| Stores and dwellings | 59 | Defective chimney | 2 | $42 | |
| | | Electrical appliances | 4 | 13,177 | |
| | | Exposure | 3 | 4,595 | |
| | | Firecrackers | 5 | 185 | |
| | | Furnace-pipe insufficiently protected | 1 | 364 | |
| | | Grease on stove | 2 | 88 | |
| | | Matches, children with | 2 | 191 | |
| | | Short circuit | 1 | 80 | |
| | | Smokers' carelessness | 22 | 6,455 | |
| | | Sparks from chimney | 2 | 5,750 | |
| | | Sparks from stove | 3 | 1,019 | |
| | | Stove or stove-pipe insufficiently protected | 4 | 682 | |
| | | Unknown | 8 | 48,399 | |
| | | | | | 81,027 |
| Stores and offices | 5 | Child playing with fire | 1 | $21 | |
| | | Defective chimney | 1 | 22 | |
| | | Electrical appliances | 1 | 28,982 | |
| | | Smokers' carelessness | 1 | 269 | |
| | | Sparks from furnace | 1 | 363 | |
| | | | | | 29,657 |
| Stores and rooms | 35 | Clothes too near stove | 1 | $79 | |
| | | Defective chimney | 2 | 7,443 | |
| | | Defective oil-burner | 1 | 150 | |
| | | Electrical appliances | 2 | 80 | |
| | | Exposure | 3 | 14,293 | |
| | | Firecrackers | 1 | 58 | |
| | | Gasoline-torch carelessness | 1 | 25 | |
| | | Grease on stove | 1 | 35 | |
| | | Incendiary | 2 | 108,350 | |
| | | Kerosene carelessness | 1 | 45 | |
| | | Short circuit | 3 | 31,190 | |
| | | Smokers' carelessness | 10 | 3,814 | |
| | | Stove or stove-pipe insufficiently protected | 3 | 20,223 | |
| | | Unknown | 4 | 8,687 | |
| | | | | | 194,472 |
| Street-cars | 4 | Short circuit | 4 | | 641 |
| Telephone exchanges | 1 | Furnace-pipe insufficiently protected | 1 | | 5,000 |
| Theatres | 6 | Exposure | 1 | $506 | |
| | | Smokers' carelessness | 3 | 415 | |
| | | Sparks from chimney | 1 | 16 | |
| | | Unknown | 1 | 554 | |
| | | | | | 1,491 |
| Tractors | 23 | Defective batttery connection | 1 | $166 | |
| | | Engine back-firing | 2 | 310 | |
| | | Gasoline carelessness | 5 | 997 | |
| | | Gasoline on exhaust-pipe | 1 | 534 | |
| | | Gasoline-vapour explosion | 1 | 392 | |
| | | Short circuit | 6 | 1,150 | |
| | | Sparks from acetylene torch | 1 | 1,263 | |
| | | Sparks from electric welder | 1 | 34 | |
| | | Unknown | 5 | 3,891 | |
| | | | | | 8,737 |
| Tug-boats | 3 | Gasoline carelessness | 1 | $8,500 | |
| | | Smokers' carelessness | 1 | 6,000 | |
| | | Sparks from acetylene torch | 1 | 118 | |
| | | | | | 14,618 |
| Warehouses | 31 | Electrical appliances | 4 | $4,556 | |
| | | Exposure | 4 | 1,040 | |
| | | Firecrackers | 1 | 550 | |
| | | Gasoline-vapour explosion | 1 | 247 | |
| | | Lightning | 2 | 958 | |
| | | Match carelessness | 1 | 495 | |

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

| Property | | Causes | | Amount of Loss | |
|---|---|---|---|---|---|
| | | Sparks from bonfire | 1 | $125 | |
| | | Sparks from stove | 1 | 330 | |
| | | Spontaneous ignition | 1 | 420 | |
| | | Stove insufficiently protected | 1 | 487 | |
| | | Unknown | 14 | 214,600 | |
| | | | | | $223,808 |
| Wharves | 3 | Smokers' carelessness | 1 | $334 | |
| | | Unknown | 2 | 490,479 | |
| | | | | | 490,813 |
| Woodworking plants | 6 | Exposure | 1 | $8,000 | |
| | | Matches, children with | 1 | 22 | |
| | | Molten metal | 1 | 1,050 | |
| | | Thawing pipes | 1 | 90 | |
| | | Unknown | 2 | 38,618 | |
| | | | | | 47,780 |
| Workshops | 1 | Sparks from bonfire | 1 | | 185 |
| Totals | 6,889 | | 6,889 | | $8,604,426 |

## TABLE V.—SUMMARY

| | Fires Reported | | | | | Amount of Loss | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | City Municipalities (35) | District Municipalities (28) | Village Municipalities (41) | Fire Districts (20) | Totals | City Municipalities | District Municipalities | Village Municipalities | Fire Districts | Totals |
| 1951 | | | | | | | | | | |
| January | 399 | 164 | 25 | 84 | 672 | $224,741 | $121,009 | $458,608 | $132,581 | $936,939 |
| February | 322 | 127 | 29 | 54 | 532 | 326,408 | 48,458 | 95,550 | 228,292 | 698,708 |
| March | 385 | 123 | 25 | 85 | 618 | 353,018 | 109,087 | 111,548 | 164,166 | 737,819 |
| April | 404 | 148 | 24 | 109 | 685 | 128,167 | 156,271 | 13,411 | 380,937 | 678,786 |
| May | 285 | 88 | 13 | 67 | 453 | 156,282 | 44,586 | 14,917 | 147,795 | 363,580 |
| June | 326 | 114 | 22 | 72 | 534 | 189,954 | 53,450 | 154,513 | 256,745 | 654,662 |
| July | 302 | 113 | 18 | 58 | 491 | 93,209 | 62,731 | 3,244 | 117,200 | 276,384 |
| August | 304 | 129 | 15 | 76 | 524 | 243,663 | 136,824 | 34,264 | 1,332,476 | 1,747,227 |
| September | 327 | 101 | 12 | 79 | 519 | 420,280 | 74,528 | 17,008 | 330,344 | 842,160 |
| October | 313 | 128 | 31 | 70 | 542 | 60,889 | 102,663 | 36,775 | 231,622 | 431,949 |
| November | 336 | 117 | 22 | 70 | 545 | 285,281 | 123,340 | 7,759 | 176,430 | 592,810 |
| December | 464 | 188 | 20 | 102 | 774 | 274,051 | 153,937 | 31,484 | 183,930 | 643,402 |
| Totals | 4,167 | 1,540 | 256 | 926 | 6,889 | $2,755,943 | $1,186,884 | $979,081 | $3,682,518 | $8,604,426 |

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

| Year | City Municipalities | | District Municipalities | | Village Municipalities | | Fire Districts | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fires | Losses | Fires | Losses | Fires | Losses | Fires | Losses | Fires | Losses |
| 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 |
| 1948 | 3,777 | 2,858,462 | 1,078 | 1,241,681 | 163 | 362,819 | 726 | 2,684,758 | 5,744 | 7,147,720 |
| 1947 | 3,867 | 4,480,751 | 1,077 | 1,753,851 | 113 | 138,774 | 638 | 1,986,525 | 5,695 | 8,359,901 |
| 1946 | 3,835 | 1,276,892 | 934 | 856,654 | 95 | 55,886 | 600 | 1,247,976 | 5,464 | 3,437,408 |
| 1945 | 3,666 | 3,043,359 | 818 | 464,121 | 83 | 120,301 | 526 | 1,619,521 | 5,093 | 5,247,302 |
| 1944 | 3,049 | 1,412,051 | 733 | 863,436 | 73 | 155,882 | 505 | 1,170,580 | 4,360 | 3,601,949 |
| 1943 | 2,853 | 2,034,433 | 661 | 603,509 | 87 | 269,167 | 467 | 1,088,878 | 4,068 | 3,995,987 |
| 1942 | 2,624 | 955,581 | 586 | 292,429 | 56 | 26,419 | 448 | 1,240,915 | 3,714 | 2,515,344 |
| Totals | 35,987 | $23,987,313 | 10,046 | $10,187,391 | 1,344 | $2,996,831 | 6,586 | $20,347,437 | 53,963 | $57,518,972 |

## TABLE VII.—LOSS OF LIFE, 1942–51

| Occupancy | | Cause of Fire | Loss of Life | | |
|---|---|---|---|---|---|
| | | | Men | Women | Children |
| Apartment | 2 | Clothes too near stove | 1 | ---- | 1 |
| Apartment | 1 | Match carelessness | 1 | ---- | ---- |
| Apartment | 1 | Smokers' carelessness | 1 | ---- | ---- |
| Automobile | 2 | Car upset | ---- | 2 | ---- |
| Automobile | 2 | Collision | 2 | ---- | ---- |
| Bunk-house | 1 | Smokers' carelessness | 1 | ---- | ---- |
| Dwelling | 3 | Clothes too near stove | 1 | 2 | 1 |
| Dwelling | 1 | Defective chimney | 1 | ---- | ---- |
| Dwelling | 1 | Defective fireplace | ---- | 1 | 1 |
| Dwelling | 1 | Defective stove-pipe | ---- | ---- | 1 |
| Dwelling | 2 | Electrical appliances | ---- | 1 | 1 |
| Dwelling | 2 | Gasoline carelessness | ---- | 1 | 1 |
| Dwelling | 2 | Kerosene carelessness | 1 | ---- | 2 |
| Dwelling | 1 | Lamp upset | 1 | ---- | ---- |
| Dwelling | 2 | Matches, children with | ---- | ---- | 4 |
| Dwelling | 1 | Smokers' carelessness | ---- | 1 | ---- |
| Dwelling | 1 | Stove insufficiently protected | ---- | ---- | 1 |
| Dwelling | 6 | Unknown | 1 | 3 | 5 |
| Fishing-boat | 1 | Unknown | ---- | 1 | ---- |
| Hospital | 1 | Smokers' carelessness | 1 | ---- | ---- |
| Hotel | 1 | Smokers' carelessness | 1 | ---- | ---- |
| Office | 1 | Clothes too near stove | 1 | ---- | ---- |
| Railway-car | 1 | Sparks from stove | 1 | ---- | ---- |
| Rooming-house | 1 | Gasoline carelessness | 1 | ---- | ---- |
| Store | 1 | Paint vapours igniting | 1 | ---- | ---- |
| Store and rooms | 1 | Kerosene carelessness | 1 | ---- | ---- |
| Store and rooms | 1 | Smokers' carelessness | 1 | ---- | ---- |
| Totals, 1951 | | | 19 | 12 | 18 |
| Totals, 1950 | | | 28 | 13 | 19 |
| Totals, 1949 | | | 24 | 6 | 15 |
| Totals, 1948 | | | 29 | 5 | 24 |
| Totals, 1947 | | | 21 | 2 | 16 |
| Totals, 1946 | | | 21 | 7 | 8 |
| Totals, 1945 | | | 25 | 12 | 21 |
| Totals, 1944 | | | 8 | 6 | 5 |
| Totals, 1943 | | | 3 | 21 | 5 |
| Totals, 1942 | | | 5 | 11 | 16 |
| Ten-year total | | | 183 | 95 | 147 |

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