

Fire Losses in Canada
Year 2007 and Selected Years

Mahendra Wijayasinghe, PhD
Manager, Research & Analysis
Office of the Fire Commissioner
Public Safety Division
Alberta Municipal Affairs

Presented at the CCFM/FC Meeting – September 2011, Calgary, Alberta, Canada

Abstract

Fire incident data for 2007 from BC, AB, MB, ON, NB, and NS; for 2008 from SK; and for 2003 – 2007 from NT was analysed separately. A total of 42,753 fires resulted in 224 civilian deaths, two firefighter deaths, and \$1,551,657,179 in direct property damage.

On average, home fires accounted for 30% of all fires and 73% of all fire deaths in the jurisdictions that contributed data. Cooking is the leading cause of home fires and home fire injuries, while smoking materials are the leading cause of home fire deaths. One-third (33%) of all home fire deaths were caused by fires that started in the living room; 20% resulted from fires originating in the bedroom; and 11% were caused by fires starting in the kitchen. Fire causes in Canadian homes were very similar to those reported for homes in the United States.

Keywords: Canadian fire statistics, home fires, fire causes.

Acknowledgements

The author thanks all the provincial, territorial and Department of National Defence (DND) contacts listed below who assisted in this study by sharing their fire data, resolving data issues and providing feedback on the analysis output:

BC: Dave Ferguson, Deputy Fire Commissioner, Executive Director, Mitigation Emergency Management BC

SK: Cheryl Diebert, Deputy Commissioner, Emergency Management and Fire Safety and Sean McKenzie, Business Information Officer, Emergency Management and Fire Safety

MB: Paige Dimayuga, Statistician, Labour and Immigration, Office of the Fire Commissioner

ON: Alison Wilson, Coordinator, Statistical Services, Office of the Ontario Fire Marshal

NB: Stacey Cooling, Fire Reporting Officer, Office of the Fire Marshal

NS: Sheila S. Harvey, Fire Services Coordinator, Fire Safety Office of the Fire Marshal

NT: Stephen Moss, Fire Marshal

QC: Marc Marcotte, Technicien en administration, Service des statistiques & Sylvie Mathurin Chef du Service des statistiques, Ministère de la Sécurité publique, Direction générale de la Sécurité civile et de la Sécurité incendie

DND: Luc Page, Canadian Forces Fire Marshal

Executive Summary

The 2002 Annual Report of Fire Losses in Canada¹, published in 2007 by the Council of Canadian Fire Marshals and Fire Commissioners (CCFM/FC) is the last available analysis of nation-wide fire losses in Canada. The present analysis was carried out on fire incident data from Canadian provinces, territories and the Department of National Defence (DND) using analytical programs (Statistical Analysis System (SAS) software) developed at the Office of the Alberta Fire Commissioner. Data contributed by BC, AB, MB, ON, NB, and NS for 2007; by SK for 2008; by NT for 2003 - 2007; and by the DND for 2006 - 2008 was analysed. Data from QC was not complete, and from PE, NL, YK and NU was not available, hence not analysed.

An initial assumption of the study was that all Canadian jurisdictions code fire incident data using the Canadian Coding Structure (CCS) accepted in 2002 by the CCFM/FC. However, examination of data structures revealed that none of the contributing jurisdictions fully conform to the CCS. While using the CCS as the base, each jurisdiction has developed their own coding so as to be different from the CCS to varying degrees. A Task Group (National Research Council and the Office of the Ontario Fire Marshal) study (personal correspondence: Mary Prencipe, Fire Protection Engineer, Office of the Ontario Fire Marshal) on National Fire Loss Reporting, presented to the CCFM/FC in 2008, also identified a number of inconsistencies between jurisdictions in definitions of "fire," "fire death," "child," "fires with and without dollar loss." In addition, the same study noted variations in the inclusion of fire incident and fire death data from First Nations Communities. The present study did not attempt to address these jurisdictional fire data differences except that the Alberta analytical programs were modified to suit the somewhat unique data structure of each jurisdiction. Accordingly, the data received from each jurisdiction was analysed separately and presented. In addition, fire death data from the contributing jurisdictions (BC, AB, SK, MB, ON, NB, NS and NT), represented by about 75% of the Canadian population, was combined to characterize the causes of fatal fires in "Canada" and in "Canadian homes." Readers are encouraged to access the respective websites of the provincial/territorial fire marshals or fire commissioners to gain an understanding of jurisdictional variations in fire loss data before attempting any inter-provincial comparisons.

Key variables used in the analysis were: year, property classification, source of ignition/igniting object, material first ignited, act or omission/possible cause, area of origin, deaths, injuries, and \$ losses. Analysis was not exhaustive but of a preliminary nature and carried out in two stages: First, a top-down analysis of fire data was conducted for each jurisdiction in the following order: 1. Total number of fires, deaths, injuries, and \$ losses. 2. Fires by types of property (structural, vehicle, outdoor). 3. Residential fires. 4. Home fires. 5. Areas of fire origin in homes. 6. Home fire causes. Second, a summary of fire deaths by property classification and fire causes was computed for each jurisdiction.

There were a total of 226 fire deaths recorded in BC, AB, SK, MB, ON, NB, NS, and NT. Of these, MB reported two firefighter deaths. Major causes of fatal fires in Canada were: smoking (22%), arson/set fire (9%), electrical (5%), cooking (5%), child fire-play (3%), flammable gas/flammable or combustible liquid ignition (3% each), candles (2%), heating equipment (2%) and exposure (1%).

A total of 42,753 fires were recorded in BC, AB, SK, MB, ON, NB, NS, NT. Direct property damage from these fires was estimated at \$1,551,657,179. The distribution of fires by property type varied vastly between Canadian jurisdictions (DND not included) and averaged 54% (range 32-78%) structural, 19% (range 8-31%) vehicle and 25% (range 8-52%) outdoor. Corresponding distribution in the US² for 2007 was 34%, 17% and 49%, respectively. Fires in residential

properties accounted, on average, for 69% of all structural fires and 79% of all structural fire deaths. The corresponding figure for residential fires in the US was 78% in 2007. Homes representing one/two family dwellings, apartments and mobile homes accounted for 82% of all fires in residential properties and 83% of all residential fire deaths. In the US, 75.2% of residential fires occurred in 1 and 2 family dwellings and apartments³. In Canada, home fires accounted for 30% of all fires and 67% of all fire deaths.

Major areas of fire origin in Canadian homes (BC, AB, SK, MB, ON, NB, NS, NT) were kitchen (22%), outside area (includes porch, balcony, court, patio, terrace, lawn, other...) (9%), bedroom (9%), living room (8%), chimney/flue-pipe (5%), vehicle garage (5%), exterior wall (4%), and laundry area (3%). In US homes, the leading areas of fire origin were kitchen (41%), bedroom (8%), chimney/flue-pipe (6%), living room (4%), laundry room (3%). One-third (32%) of all home fire deaths were caused by fires that started in the living room; 20% resulted from fires originating in the bedroom; and 12% were caused by fires starting in the kitchen. The distribution of fire deaths by leading areas of fire origin in US homes³ were bedroom (25%), living room (24%), kitchen (15%), laundry area (1%), and unclassified functional areas (11%).

The major causes of home fires in Canada on the basis of data from BC, AB, SK, MB, ON, NB, NS, NT were: Cooking (20%), heating equipment related fires (12%), arson/set fires (11%), electrical (8%), smoking (7%), candles (3%), appliance/equipment, clothes dryer, exposure, lighting equipment, cutting/welding or blow torch (2% each), and child fireplay (1%). The ranking of fire causes in US homes³ was very similar – cooking equipment (42%), heating (17%), intentional (8%), electrical (6%), smoking (5%), clothes dryer (4%), and candles (3%), exposure (3%), and playing with heat source (2%).

Where cause was identified, most fire deaths in Canadian homes were from smoking (22%), arson/set fire (10%), cooking (7%), electrical (7%), candles (3%) and child fire-play (3%). The leading cause of home fire injuries in Canadian homes were, cooking (27%), smoking (9%), arson/set fire (8%), heating equipment and electrical (6% each), and candles (5%). About 50% of all cooking related fire injuries were from cooking oil fires.

Conclusion: Fire incident data as it currently exists in various Canadian jurisdictions can be analysed to some degree, as demonstrated in this study, to yield meaningful interpretations and to build a fire picture for Canada as long as variations in data definitions and data collection are kept in mind. Such analysis can be supportive of fire prevention than what has been published in the "*Fire Losses in Canada*" report. The present study was only an initial exploration to examine this feasibility and to generate a somewhat in-depth analysis of home fires which account for most fire deaths and fire injuries in Canada.

References:

¹*Annual Report 2002, Fire Losses in Canada* (2007). Council of Canadian Fire Marshals and Fire Commissioners. Source: http://www.ccfmfc.ca/stats/en/report_e_02.pdf

²*Fire Loss in the United States 2007* (2008). Michael J. Karter, Jr., Fire Analysis and Research Division, National Fire Protection Association, Quincy, MA. Source: <http://tkolb.net/FireReports/2007FireLossUS.pdf>

³*U.S. Home Structure Fires* (2011), Marty Ahrens, Fire Analysis and Research. National Fire Protection Association, Quincy, MA.

Fire Data Analyses by Canadian Province/Territory

British Columbia

Fire Losses in BC - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	7,847	37	171	436,985,580
Total	7,847	37	171	436,985,580

Fire Losses in BC by Type of Property Class - 2007

Year	Fires	Structural	Vehicle	Outdoor	Equipment
2007	7,847	3,527	2,140	2,239	44
%	100	45	27	29	1

Fire Losses in BC by Major Property Classes - 2007

Major Property Class	Fires	%	\$ Losses	% of \$ Losses
Assembly	235	3	33,836,099	7.7
Institutional	31	0	423,175	0.1
Residential	2,371	30	229,722,672	52.6
Business and Personal Service	78	1	8,623,079	2.0
Mercantile	111	1	11,685,070	2.7
Industrial Manufacturing Properties	171	2	13,584,377	3.1
Storage Properties	198	3	75,138,202	17.2
Special Property-Transportation Equip.	4,337	55	54,887,935	12.6
Miscellaneous Property	309	4	9,084,171	2.1
Unknown (not coded)	6	0	800	0.0
Total	7,847	100	436,985,580	100.0

Fire Losses in BC by Major Sources of Ignition - 2007

Major Source of Ignition	Fires	%	\$ Losses	%
Cooking Equipment	655	8	15,724,644	3.6
Heating Equipment	392	5	21,377,244	4.9
Appliances & Equipment	155	2	9,384,867	2.1
Electrical Distribution Equipment	456	6	30,399,747	7.0
Other Electrical Equipment	196	2	7,833,276	1.8
Smoker's Material & 'Open' Flames	1,565	20	112,003,983	25.6
Exposure	249	3	63,774,861	14.6
Miscellaneous	517	7	17,870,436	4.1
Not Determined	3,662	47	158,616,522	36.3
Total	7,847	100	436,985,580	100.0

Fire Losses in BC by Major Acts or Omissions - 2007

Major Act or Omission	Fires	%	\$ Losses	%
Arson or 'Set' Fires	1,942	25	47,753,523	10.9
Misuse of Source of Ignition	527	7	29,788,036	6.8
Misuse of Material Ignited	171	2	6,513,414	1.5
Mech., Electr. Failure, Malfunction	992	13	23,689,246	5.4
Constructn., Design, Installn. Def.	99	1	7,298,801	1.7
Misuse of Equipment	256	3	9,938,351	2.3
Human Failing	1,277	16	94,232,753	21.6
Vehicle Accident	107	1	884,152	0.2
Miscellaneous	95	1	2,716,790	0.6
Not Determined	2,241	29	201,151,952	46.0
xxxx	140	2	13,018,562	3.0
Total	7,847	100	436,985,580	100.0

Fire Losses in BC by Major Materials First Ignited - 2007

Major Material First Ignited	Fires	%	\$ Loss	%
Building Components	215	3	30,939,594	7.1
Furniture, Furnishings	238	3	10,293,170	2.4
Clothing, Textiles	297	4	21,196,111	4.9
Wood, Paper Products	1,112	14	90,235,684	20.6
Flammable & Combustible Liquids	675	9	19,512,621	4.5
Flammable Gases	66	1	2,531,003	0.6
Chemicals	340	4	5,090,980	1.2
Agricultural Products	730	9	19,105,923	4.4
Miscellaneous	1,012	13	22,771,926	5.2
Not Determined	3,162	40	215,308,568	49.3
Total	7,847	100	436,985,580	100.0

Fire Losses in BC by Type of Residential Property - 2007

Type of Residence	Fires	%	Fire Deaths	Fire Injuries	\$ Losses
One and Two Family Dwellings	1,590	67	17	82	144,903,033
Apartments	528	22	6	38	74,389,839
Residential Miscellaneous-Unclassified	57	2	4	3	2,905,099
Mobile Home, Trailer-Unclassified	31	1	1	1	1,132,949
Motor Home (includes camperized van)	31	1	0	0	545,470
Travel Trailer	30	1	0	1	387,400
Hotel, Inn, Lodge (year round use)	23	1	0	0	246,620
Motor Hotel, Motel (over 20 units)	15	1	0	0	1,542,350
School, College or University Dormitory	9	0	0	0	1,801
Rooming, Boarding, Lodging House (less than 10 persons)	8	0	0	0	240,423
Motor Hotel, Motel (3 to 20 units)	6	0	1	0	662,005
Rooming, Boarding, Lodging House-Unclassified	6	0	0	0	159,230
Truck with Camper	5	0	0	0	10,800
Hotel, Inn, Lodge (hostels)	5	0	0	0	117,400
Single Cabins	5	0	0	0	303,000
Camping Trailer (includes tent trailer)	3	0	1	0	55,000
Tents	2	0	1	0	2,000
Hotel, Inn, Lodge-Unclassified	1	0	0	0	143,703
Dormitory-Unclassified	1	0	0	0	5,000
Children's Playhouse	1	0	0	0	22,000
Hotel, Inn, Lodge (seasonal use, in season)	1	0	0	0	1,600,000
Bunkhouse & Worker's Barracks	1	0	0	0	10,000
Total	2,359	100	31	125	229,385,122

**Fire Losses in BC Homes (One/Two Family Dwellings, Apartments, Mobile Homes)
- 2007**

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
One/Two Family Dwellings	1,550	73	16	78	143,602,522
Apartments	528	25	6	38	74,389,839
Mobile Homes	39	2	1	4	1,260,511
Permanent year-round float home	1	0	0	0	40,000
Total	2,118	100	23	120	219,292,872

Home Fires in BC by Major Areas of Fire Origin - 2007

Area of Origin	Fires	%	Deaths	Injuries	\$ Losses
Kitchen	556	26	1	37	14,170,221
Living room	204	10	11	21	17,819,916
Bedroom	169	8	6	18	11,286,367
Chimney - masonry/factory built, metal; flue-pipe; gas-vent	131	7	0	0	1,650,291
Outside Area - lawn, balcony, court, patio...	154	8	0	2	15,271,964
Exterior wall	79	4	0	2	8,069,468
Exterior roof	34	2	0	0	1,454,823
Vehicle Garage/ Carport	64	3	0	3	4,821,040
Laundry area	62	3	0	7	1,726,498
Heating equipment room	50	2	0	0	4,843,200
Exposure (including smoke damage)	50	2	0	1	8,282,401
Washroom	47	2	0	3	1,408,284
Ceiling & roof/ceiling space (attic)	46	2	0	3	4,641,865
All Other Area of Origin (each 1% or less)	359	15	0	20	94,690,119
Unknown	113	5	5	3	29,156,415
Total	2,118	99	23	120	219,292,872

Major Known Causes of Home Fires in BC - 2007

Fire Cause	Fires	%	Deaths	Injuries	\$ Losses
Cooking (except cooking oil fire)	487	23	0	41	10,339,499
Heating Equipment Related	298	14	1	10	14,715,931
Arson/Set Fire	250	12	0	9	25,179,735
Electrical Distribution Equipment	145	7	0	1	23,280,721
Smoking	80	4	3	3	3,864,767
Candle	66	3	0	7	2,969,217
Exposure Fire	56	3	0	1	9,186,275
Cutting/Welding Equipment or Blow Torch	45	2	0	5	1,720,895
Appliance/Equipment Related	43	2	0	0	3,914,699
Lighting Equipment	42	2	0	3	2,014,708
Clothes Dryer	36	2	0	1	133,739
Other Electrical Equipment	32	2	0	0	871,949
Flammable/Comb. Liquid Ignition	14	1	0	5	1,561,496
Cooking Oil Fire	12	1	0	0	136,670
Flammable Gas Ignition	7	0	0	0	346,400
Other Causes/Unknown	505	24	19	34	119,056,171
Total	2,118	100	23	120	219,292,872

Fire Deaths in BC by Property Class - 2007

Property Class	Deaths	%
One and Two Family Dwellings	17	46
Apartments	6	16
Residential Miscellaneous-Unclass.	4	11
Shed (includes implement shed & workshop)	2	5
Camping Trailer (includes tent trailer)	1	3
Mobile Home, Trailer-Unclass.	1	3
Motor Hotel, Motel (3 to 20 units)	1	3
Chemicals, Petroleum, Paints, Plastics-Unclass.	1	3
Vehicle & Non-Motorized Hauling Vehicle	1	3
Barn Storage (excludes silos & animal barn)	1	3
Tents	1	3
Automobile (Incl. cars/light trucks/vans/single body units)	1	3
Total	37	100

Property Class	Deaths	%
Residential	30	81
Shed	2	5
Chemicals, Petroleum, Paints, Plastics-Unclass.	1	3
Vehicle & Non-Motorized Hauling Vehicle	1	3
Barn Storage (excludes silos & animal barn)	1	3
Tents	1	3
Automobile (Incl. cars/light trucks/vans/single body units)	1	3
Total	37	100

Major Known Causes of Fire Deaths in BC - 2007

Fire Cause	Deaths	%
Other Causes/Unknown	29	78
Smoking	3	8
Heating Equipment Related	1	3
Electrical Distribution Equipment	1	3
Flammable Gas Ignition	1	3
Flammable/Comb. Liquid Ignition	1	3
Appliance/Equipment Related	1	3
Total	37	100

Major Sources of Ignition in Fire Deaths in BC - 2007

Source of Ignition	Deaths	%
Cannot be determined	22	59
Smoker's material	10	8
Heating equipment	1	3
Low voltage wiring	1	3
Chemical reaction	1	3
Miscellaneous igniting object	1	3
Appliances & equipment - unclassified	1	3
Total	37	100

Alberta

Fire Losses in Alberta - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	5,310	23	212	333,256,887
Total	5,310	23	212	333,256,887

Fire Losses in AB by Type of Property Class - 2007

Year	Total # of Fires	Structural	Vehicle	Outdoor
2007	5,310	3,106	1,635	569
%	100	58	31	11

Fire Losses in AB by Major Property Classes - 2007

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	%
Assembly	131	2	0	4	18,569,495	6
Institutional	29	1	1	4	1,753,422	1
Residential	1,903	36	17	141	171,732,020	52
Business and Personal Service	60	1	0	0	10,531,434	3
Mercantile	154	3	0	3	18,928,757	6
Industrial Manufacturing Properties	97	2	0	9	20,228,785	6
Storage Properties	339	6	0	14	30,640,740	9
Special Property-Transportation Equip.	2,238	42	5	27	48,880,512	15
Miscellaneous Property	359	7	0	10	11,991,722	4
Total	5,310	100	23	212	333,256,887	100

Fire Losses in AB by Major Sources of Ignition - 2007

Major Source of Ignition	Fires	%	\$ Losses	%
Not Determined	1,497	28	114,373,450	34.3
No Igniting Object	26	0	5,497,171	1.6
Cooking Equipment	382	7	14,926,048	4.5
Heating Equipment	245	5	19,139,189	5.7
Appliances & Equipment	160	3	11,769,213	3.5
Electrical Distribution Equipment	520	10	26,706,152	8.0
Other Electrical Equipment	163	3	8,789,497	2.6
Smoker's Material & 'Open' Flames	1,177	22	59,517,482	17.9
Exposure	620	12	31,109,739	9.3
Miscellaneous	520	10	41,428,946	12.4
Total	5,310	100	333,256,887	100.0

Fire Losses in AB by Major Acts or Omissions - 2007

Major Act or Omission	Fires	%	\$ Losses	%
Not Determined	784	15	69,630,930	20.9
Act or Omission N/A	204	4	14,674,426	4.4
Arson or 'Set' Fires	1,429	27	64,640,746	19.4
Misuse of Source of Ignition	384	7	36,672,724	11.0
Misuse of Material Ignited	276	5	16,306,684	4.9
Mech., Electr. Failure, Malfunction	1,251	24	65,328,706	19.6
Constructn., Design, Installn. Def.	102	2	7,624,784	2.3
Misuse of Equipment	82	2	5,538,566	1.7
Human Failing	619	12	35,110,381	10.5
Vehicle Accident	78	1	2,941,164	0.9
Miscellaneous	101	2	14,787,776	4.4
Total	5,310	100	333,256,887	100.0

Fire Losses in AB by Major Materials First Ignited - 2007

Major Material First Ignited	Fires	%	\$ Losses	%
Not Determined	1,702	32	134,810,013	40.5
Building Components	621	12	53,630,599	16.1
Furniture, Furnishings	198	4	19,362,179	5.8
Clothing, Textiles	180	3	5,310,089	1.6
Wood, Paper Products	468	9	13,969,070	4.2
Flammable & Combustible Liquids	676	13	31,068,528	9.3
Flammable Gases	69	1	2,017,117	0.6
Chemicals	260	5	10,928,523	3.3
Agricultural Products	309	6	15,335,832	4.6
Miscellaneous	827	16	46,824,937	14.1
Total	5,310	100	333,256,887	100.0

Fire Losses in AB by Type of Residential Property - 2007

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	%
One and Two Family Dwellings	1,330	70	14	86	115,207,877	67
Apartments	339	18	1	27	36,891,986	21
Rooming, Boarding, Lodging House (less than 10 persons)	13	1	0	8	1,078,212	1
Rooming, Boarding, Lodging House- Unclass.	4	0	0	0	86,550	0
Hotel, Inn, Lodge (year round use)	30	2	0	3	10,403,704	6
Hotel, Inn, Lodge (seasonal use, in season)	1	0	0	0	7,000	0
Hotel, Inn, Lodge-Unclassified	1	0	0	0	1,000	0
Motor Hotel, Motel (3 to 20 units)	1	0	0	0	15,000	0
Motor Hotel, Motel (over 20 units)	5	0	0	6	137,550	0
School, College or University Dormitory	3	0	0	0	112,500	0
Bunkhouse & Worker's Barracks	4	0	0	1	675,502	0
Dormitory- Unclassified	2	0	0	1	1,501	0
Mobile Home (1 or 2 family units)	79	4	2	8	3,896,154	2
Travel Trailer	33	2	0	0	419,533	0
Camping Trailer (includes tent trailer)	13	1	0	0	109,453	0
Motor Home (includes camperized van)	18	1	0	1	836,903	0
Truck with Camper	2	0	0	0	8,700	0
Tents	3	0	0	0	1,700	0
Mobile Home, Trailer- Unclassified	1	0	0	0	105,000	0
Single Cabins	5	0	0	0	555,500	0
Camps/Retreats- Unclassified	3	0	0	0	960,000	1
Residential Miscellaneous- Unclassified	13	1	0	0	220,695	0
Total	1,903	100	17	141	171,732,020	100

**Fire Losses in AB Homes (One/Two Family Dwellings, Apartments, Mobile Homes)
- 2007**

Type of Home	Fires	%	Deaths	%	Injuries	%	\$ Losses	%
One/Two Family Dwellings	1,330	76	14	82	86	71	115,207,877	74
Apartments, Tenements, Flats	339	19	1	6	27	22	36,891,986	24
Mobile Homes	79	5	2	12	8	7	3,896,154	2
Total	1,748	100	17	100	121	100	155,996,017	100

Home Fires in AB by Major Areas of Fire Origin - 2007

Area of Origin	Fires	%	Deaths	%	Injuries	%	\$ Losses
Kitchen	349	20	0	0	43	36	15,404,205
Bedroom	165	9	3	18	26	21	17,442,251
Living Room	127	7	5	29	12	10	15,334,873
Exterior Wall	112	6	0	0	1	1	8,028,150
Outside Area - lawn, balcony, court, patio...	152	9	0	0	3	3	28,947,657
Laundry Area	59	3	0	0	3	2	3,906,411
Vehicle (garage)	50	3	1	6	4	3	5,178,698
Outside Area-Unclassified	40	2	0	0	0	0	2,359,805
Heating Equipment Room	35	2	0	0	2	2	4,170,585
Washroom	34	2	1	6	0	0	2,067,440
Hallway, Corridor	31	2	0	0	0	0	1,935,722
Ceiling and Roof/Ceiling Space-Attic	29	2	0	0	3	2	3,222,169
Wall Assembly	27	2	0	0	0	0	4,063,807
Other Areas (1% or less)	298	16	6	35	21	17	20,222,213
Area of Origin-Unknown	240	14	1	6	3	2	23,712,031
Total	1,748	100	17	100	121	100	155,996,017

Major Known Causes of Home Fires in AB - 2007

Fire Cause	Fires	% Fires	Deaths	Injuries	\$ Losses
Arson/Set Fire	372	21	6	10	30,456,963
Other Causes/Unknown	283	16	5	14	28,818,510
Cooking (except cooking oil fire)	202	12	0	27	7,657,017
Smoking	178	10	5	21	27,352,066
Heating Equipment Related	144	8	0	12	14,887,049
Electrical Distribution Equipment	136	8	1	5	12,774,651
Exposure Fire	97	6	0	0	10,783,879
Cooking Oil Fire	87	5	0	11	2,872,942
Candle	54	3	0	9	3,794,553
Appliance/Equipment Related	40	2	0	3	4,653,107
Lighting Equipment	36	2	0	0	4,572,492
Clothes Dryer	31	2	0	0	2,156,643
Child Fireplay	28	2	0	3	1,361,051
Flammable/Comb. Liquid Ignition	28	2	0	4	2,067,883
Cutting/Welding Equipment or Blow Torch	13	1	0	1	546,127
Flammable Gas Ignition	9	1	0	1	181,081
Match/Lighter Not Used From Smoking	6	0	0	0	308,503
Inadequate Control of Open Fire	4	0	0	0	751,500
Total	1,748	100	17	121	155,996,017

Fire Deaths in AB by Property Classes - 2007

Property Class	Deaths	%
One and Two Family Dwellings	14	61
Trucks (incl. light trucks/van/single body units)	2	9
Mobile Home (1 or 2 family units)	2	9
Vehicles	2	9
Long Term Residential Care For Disabled	1	4
Trash/Rubbish/Recyclable	1	4
Apartments	1	4
Total	23	100

Major Known Causes of Fire Deaths in AB - 2007

Fire Cause	Deaths	%
Other Causes/Unknown	8	35
Arson/Set Fire	6	26
Smoking	5	22
Flammable/Comb. Liquid Ignition	1	4
Children Under 12 Set Fire	1	4
Electrical Distribution Equipment	1	4
Match/Lighter Not Used For Smoking	1	4
Total	23	100

Saskatchewan

Fire Losses in Saskatchewan - 2008

Year	Fires	Deaths	Injuries	\$ Losses
2008	3,245	21	11	59,020,321
Total	3,245	21	11	59,020,321

Fire Losses in SK by Type of Property Class - 2008

	Total # of Fires	Structural	Vehicle	Outdoor
Fires	3,245	1,116	1,014	963
%	100	34	31	30

Structural = residential, farm, miscellaneous, commercial, manufacturing and industrial
 Vehicles = vehicles; Outdoor = outdoor.

Fire Losses in SK by Major Property Classes - 2008

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	%
Vehicle	1,014	31	2	1	11,211,843	19
Outdoor	963	29	0	0	3,385,530	6
Residential	920	29	15	5	31,133,036	53
Farm	190	6	1	0	7,708,076	13
Unclassified*	81	2	1	0	249,907	0
Commercial	63	2	2	5	4,820,332	8
Miscellaneous	6	0	0	0	70,596	0
Industrial	5	0	0	0	284,000	0
Manufacturing	3	0	0	0	157,000	0
Total	3,245	100	21	11	59,020,321	100

*Not coded

Fire Losses in SK by Property Type - 2008

Property Type	Fires	%	Deaths	Injuries	\$ Losses
Apartment	55	2	1	0	3,942,115
Boarding	4	0	.	.	294,800
Care Home	2	0	.	.	13,100
Cottage	4	0	.	.	88,000
Farm	107	3	0	0	1,550,546
Garbage	220	7	0	0	694,966
Grass	550	17	1	0	2,769,342
Hotel	2	0	.	.	7,480
House	577	17	13	5	22,389,412
Institution	24	1	0	0	383,599
Mobile Home	39	1	0	0	675,659
Outbuilding	6	0	1	0	60,497
Restaurant	11	0	0	0	318,571
Storage	219	7	0	0	6,330,997
Town House	2	0	.	.	85,000
Unclassified	30	1	.	.	534,724
Unknown (not coded)	1,393	43	5	6	18,881,512
Total	3,245	100	21	11	59,020,321

Fire Losses in SK by Major Acts or Omissions - 2008

Act or Omission	Fires	%	Deaths	Injuries	\$ Losses
Undetermined	889	27	4	1	19,475,995
Mechanical Failure	757	23	3	0	18,356,635
Human Failure	684	21	13	8	10,392,983
Not Coded	518	16	1	0	5,427,506
Arson	310	10	.	.	4,253,111
Vehicle Accident	33	1	.	.	331,880
Miscellaneous	23	1	.	.	84,000
Human Failure	18	0	0	2	425,174
Mechanical Failure	6	0	.	.	146,486
Design Flaw	5	0	.	.	106,550
Misuse	2	0	.	.	20,000
Total	3,245	100	21	11	59,020,321

Fire Losses in SK by Type of Home - 2008

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
Houses, Town-houses, Cottages	583	17	13	5	22,562,412
Apartments	55	2	1	0	3,942,115
Mobile Homes	39	1	0	0	675,659
Total	677	20	14	5	27,180,186

Fire Losses in SK by Areas of Fire Origin in Residential Properties - 2008

Area of Origin	Fires	%	Deaths	Injuries	\$ Losses
Kitchen	131	15	3	1	2,244,674
Exterior	42	5	.	.	1,710,976
Bedroom	31	3	1	2	1,247,058
Living room	26	3	5	1	1,603,400
Laundry	15	2	1	0	3,644,561
Mechanical	9	1	.	.	33,900
Vehicle	7	1	.	.	71,600
Exterior	2	0	.	.	29,000
Patio	2	0	.	.	150,000
Other	69	8	.	.	2,505,222
Unknown*	586	63	4	1	17,892,645
Total	920	100	15	5	31,133,036

*Not coded

Fire Losses in Residential Properties in SK by Sources of Ignition - 2008

Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Open Flame	222	24	.	.	5,534,525
Electrical Distribution Equipment	136	15	3	0	9,865,313
Cooking (except cooking oil fire)	95	10	1	0	1,130,178
Not Coded	61	7	.	.	1,313,891
Heating Equipment Related	60	7	.	.	1,290,285
Smoking	55	6	7	3	1,838,950
Appliance/Equipment Related	41	4	.	.	453,751
Exposure Fire	40	4	0	1	508,202
Other Causes/Unknown	210	21	4	1	9,197,942
Total	920	100	15	5	31,133,036

Fire Losses in Residential Kitchens in SK by Sources of Ignition - 2008

Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Cooking	68	52	1	0	941,107
Heating	22	17	.	.	378,620
Appliance	21	16	.	.	146,501
Electrical	5	4	.	.	158,000
Undetermined	5	4	1	0	252,396
Open Flame	4	3	.	.	180,533
Exposure	2	2	0	1	65,000
Smoker	2	2	1	0	6,517
Misc	1	1	.	.	.
Not Coded	1	1	.	.	116,000
Total	131	100	3	1	2,244,674

Fire Deaths in SK by Property Classes and Causes - 2008

Property Class	Deaths	%
Residential	15	71
Commercial	2	10
Vehicle	2	10
Farm	1	5
Unknown	1	5
Total	21	100

Fire Cause	Deaths	%
Smoking	7	34
Electrical	3	15
Appliance/Flammable gas	2	10
Open flame	1	5
Friction	1	5
Heating/Flam gas	1	5
Unknown/Undet.	4	19
Cooking	1	5
Engine	1	5
Total	21	100

Manitoba

Fire Losses in Manitoba - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	5,983	28	294	125,895,528
Total	5,983	28	294	125,895,528

Fire Losses in MB by Type of Property Class - 2007

Year	Structural	Vehicle	Outdoor	Total
2007	1,915	900	3,118	5,983
%	32	15	52	100

Fire Losses in MB by Major Property Classes - 2007

Major Property Class	Fires	%	Deaths†	Injuries	\$ Losses	%
Special Property & Transportation Equipment	3,981	67	9	32	11,675,104	9
Residential	1,165	19	17	210	54,837,023	44
Miscellaneous Property	397	7	2	15	14,477,077	11
Storage Properties	197	3	.	10	6,617,175	5
Assembly	85	1	.	7	18,047,261	14
Industrial Manufacturing Properties	56	1	.	12	5,834,703	5
Mercantile	44	1	.	4	9,821,485	8
Institutional	35	1	.	3	1,114,400	1
Business & Personal Service	23	0	.	1	3,471,300	3
Total	5,983	100	28	294	125,895,528	100

† Two firefighters died in a house fire.

Fire Losses in MB by Major Sources of Ignition - 2007

Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Cannot Be Determined	3,406	57	6	54	53,256,873
Smoker's Material & Open Flame	940	16	10	94	15,486,220
Cooking Equipment	378	6	6	57	11,373,463
Miscellaneous	336	6	5	10	3,525,754
Electrical Distribution Equipment	285	5	.	22	13,305,561
Exposure	271	5	1	10	5,043,361
Heating Equipment	185	3	.	32	10,608,784
Appliances & Equipment	89	1	.	10	2,865,031
Other Electrical Equipment	74	1	.	5	10,107,581
No Igniting Object	19	0	.	.	322,900
Total	5,983	100	28	294	125,895,528

Fire Losses in MB by Major Acts or Omissions - 2007

Act or Omission	Fires	%	Deaths	Injuries	\$ Losses
Incendiary Fires or Set Fires	2,138	36	5	46	21,864,661
Miscellaneous Act or Omission	1,806	30	2	76	47,279,345
Mechanical/Electrical Failure/Malfunction	751	13	.	39	28,051,281
Misuse of Source of Ignition	680	11	4	54	11,352,987
Human Failing	282	5	9	31	6,996,274
Misuse of Material Ignited	214	4	1	38	5,673,439
Construction, Design or Installation Deficiency	51	1	.	6	3,353,223
Vehicle Accident	36	1	7	.	890,569
Misuse of Equipment	25	0	.	4	433,749
Total	5,983	100	28	294	125,895,528

Fire Losses in MB by Major Materials First Ignited - 2007

Material First Ignited	Fires	%	Deaths	Injuries	\$ Losses
Miscellaneous	2,095	35	4	52	13,918,625
Cannot Be Determined	1,240	21	6	50	47,444,898
Agricultural, Forestry Products	1,226	20	1	12	4,156,294
Wood, Paper Products	521	9	.	31	12,711,557
Flammable Liquids, Combustible Liquids	273	5	7	51	8,211,439
Structural Components, Finish Materials	266	4	4	22	25,444,814
Furniture, Furnishings	143	2	6	49	8,442,915
Chemicals, Plastics, Metals	108	2	.	15	1,723,167
Clothing, Textiles	85	1	.	12	3,775,368
Flammable Gases	26	0	.	.	66,451
Total	5,983	100	28	294	125,895,528

Fire Losses in MB Homes (One/Two Family Dwellings, Apartments, Mobile Homes) - 2007

Property Class	Fires	%	Deaths	Injuries	\$ Losses
One/Two Family Dwellings	784	71	15	120	41,352,944
Apartments, Tenements, Flats	288	26	1	77	10,089,045
Mobile Homes	36	3	1	2	1,579,064
Total	1,108	100	17	199	53,021,053

Fire Losses in MB Homes (One/Two Family Dwellings, Apartments, Mobile Homes) by Areas of Fire Origin - 2007

Area of Origin	Fires	%	Deaths	Injuries	\$ Losses
Kitchen	357	32	6	54	7,724,830
Bedroom	111	10	6	38	8,484,557
Living Room	105	9	1	50	7,421,925
Outside Area - lawn, balcony, court, patio...	53	5	1	1	1,164,645
Exterior Wall	47	4	.	.	3,539,711
Laundry Area	37	3	.	3	531,502
Chimney, Flue Pipe, Gas Vent	36	3	.	.	767,934
Heating Equipment Room	35	3	.	4	1,602,443
Vehicle Storage - Garage/Carport	33	3	2	14	4,333,907
Crawl Space-Incl. Substructure/Attic	31	3	.	1	1,553,875
Washroom	27	2	.	6	558,631
Lobby, Entrance Way	24	2	.	1	738,220
Other Areas (1% or less)	161	15	0	27	10,140,691
Area of Origin - Unknown	51	5	1	.	4,458,182
Total	1,108	100	17	199	53,021,053

Major Known Causes of Home Fires in MB - 2007

Fire Cause	Fires	%	Deaths	Injuries	\$ Losses
Arson/Set Fire	206	19	4	22	10,223,211
Cooking (except cooking oil fire)	202	18	5	21	3,237,293
Heating Equipment Related	122	11	.	23	7,060,827
Cooking Oil Fire	97	9	.	18	1,731,740
Electrical Distribution Equipment	87	8	.	17	6,746,277
Candle	34	3	1	10	1,458,685
Child Fireplay	24	2	.	3	1,613,939
Exposure Fire	23	2	.	1	941,662
Appliance/Equipment Related	22	2	.	2	1,701,300
Cutting/Welding Equipment or Blow Torch	19	2	.	.	449,325
Clothes Dryer	19	2	.	1	144,740
Lighting Equipment	18	2	.	1	1,576,105
Flammable/Comb. Liquid Ignition	2	0	.	3	276,469
Flammable Gas Ignition	2	0	.	.	0
Other Causes/Unknown	231	21	7	77	15,859,480
Total	1,108	100	17	199	53,021,053

Major Known Causes of Fire Deaths in MB - 2007

Fire Cause	Deaths	%
Other Causes/Unknown	12	43
Arson/Set Fire	5	18
Flammable/Comb. Liquid Ignition	4	14
Cooking (Excludes Over Heated Cooking Oil)	5	18
Candle	1	4
Exposure Fire	1	4
Total	28	100

Fire Deaths in MB by Property Classes - 2007

Property Class	Deaths	%
Year-Round Use Dwell-1 Family	14	50
Automobile	6	21
Truck - Semi Trailer	2	7
Mobile Home - 1 or 2 Family	1	4
Apt, Flat, 20+ with or w/o Bus	1	4
Shed-Incl. Implement Shed	1	4
Outdoor Property-Unclass./Unknown	1	4
Year-Round Dwelling-2 Family	1	4
Misc. Property-Unclass./Unknown	1	4
Total	28	100

Ontario

Fire Losses in Ontario - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	14,310	92	836	549,390,867
Total	14,310	92	836	549,390,867

Fire Losses in ON by Type of Property Class - 2007

Property Type	Fires	%	Deaths	Injuries	\$ Losses
Structure	8,912	62	85	771	488,850,038
Outdoor	1,612	11	1	34	12,360,806
Vehicle	3,786	27	6	31	48,180,023
Total	14,310	100	92	836	549,390,867

Fire Losses in ON by Major Property Classes - 2007

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	%
Group C Residential	6,347	44	84	637	290,489,803	53
Vehicles	3,786	26	6	31	48,180,023	9
Structures/Properties not classified by O.B.C.	1,978	14	1	34	14,945,185	3
Group F Industrial	725	5	0	73	78,975,975	14
Group A Assembly	538	4	0	10	21,953,270	4
Group E Mercantile	340	2	0	23	23,002,805	4
Group D Business and Personal Services	245	2	0	8	8,153,015	1
Classified under National Farm Building Code	234	2	0	6	57,645,396	10
Group B Care and Detention	117	1	1	14	6,045,395	1
Total	14,310	100	92	836	549,390,867	100

Fire Losses in ON by Major Sources of Ignition - 2007

Major Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Open flame tools, smoker's articles	1,863	13	38	152	66,330,916
Other mechanical, electrical	1,850	13	4	24	33,882,471
Miscellaneous	1,556	11	2	67	44,561,462
Cooking equipment	1,492	10	5	180	30,242,782
Electrical distribution equipment	1,023	7	6	52	45,656,254
Heating equipment, chimney etc.	847	6	3	23	28,727,321
Appliances	420	3	0	10	11,235,527
Lighting equipment	409	3	4	36	16,308,776
Processing equipment	130	1	0	4	8,444,020
Not reported	99	1	3	2	5,480,400
Undetermined	4,621	32	27	286	258,520,938
Total	14,310	100	92	836	549,390,867

Fire Losses in ON by Major Possible Causes - 2007

Major Possible Cause	Fires	%	Deaths	Injuries	\$ Losses
Misuse of Ignition Source/Material Ignited	3,191	22	41	349	101,780,137
Mechanical/Electrical failure	2,611	18	6	66	75,594,941
Arson/Riot/Vandalism	2,112	15	6	63	37,791,601
Design, Construction, Maintenance Deficiency	1,202	8	3	36	31,908,828
Other Unintentional	789	6	7	36	22,318,743
Other	260	2	0	3	6,193,215
Unintentional	251	2	5	17	7,107,947
Undetermined	3,894	27	24	266	266,695,455
Total	14,310	100	92	836	549,390,867

Fire Losses in ON by Major Materials First Ignited - 2007

Major Material First Ignited	Fires	%	Deaths	Injuries	\$ Losses
Materials	2,627	18	10	78	48,879,001
Other Objects	2,600	18	9	55	53,063,914
Building Component	1,704	12	7	83	102,009,701
Flammable, Combustible Liquids	1,254	9	5	148	31,179,486
Soft Goods, Wearing Apparel	648	5	12	94	20,585,021
Furniture	505	4	13	59	17,621,243
Gases	141	1	3	14	2,774,291
Unknown/Undetermined)	126	1	0	2	6,505,900
Miscellaneous	4,705	33	33	303	266,772,310
Total	14,310	100	92	836	549,390,867

Fire Losses in ON by Type of Residential Property - 2007

Type of Residential Property	Fires	%	Deaths	Injuries	\$ Losses
Detached Dwelling	3,328	52	42	255	185,386,158
Multi-Unit Dwelling - Over 12 Units	956	15	10	130	22,195,932
Attached Dwelling (eg. rowhouse, townhouse, etc.)	405	6	7	70	15,949,334
Multi-Unit Dwelling - 2 to 6 Units	390	6	3	73	15,892,841
Semi-Detached Dwelling	355	6	4	35	10,769,344
Detached Garage	271	4	2	11	8,083,193
Multi-Unit Dwelling - 7 to 12 Units	119	2	3	15	3,199,914
Apartment, Flat, Tenement with Business	89	1	1	17	7,920,956
Rooming/Boarding/Lodging House	69	1	1	9	2,428,466
Hotel, Motel, Lodging - 4 or more guests or suites	64	1	0	6	5,769,500
Mobile Home	62	1	3	1	2,051,600
Motor Home, Camper, Trailer	60	1	3	3	996,450
Other Residential	53	1	1	3	2,547,950
Detached Dwelling - Acc. Apartment (above gr.)	28	0	1	3	1,402,000
Attached Dwelling with Business	26	0	0	1	3,201,650
Detached Dwelling - Acc. Apartment (below gr.)	23	0	0	3	481,200
Residential Camp	15	0	3	0	758,095
Detached Dwelling with Business	14	0	0	0	1,173,500
School/College Dormitory (det. from education)	6	0	0	2	56,600
Semi-Detached Dwelling with Business	5	0	0	0	196,020
Hostel	3	0	0	0	1,600
Bunkhouse, Workers Barrack	3	0	0	0	14,500
Houseboat	2	0	0	0	12,000
Residential Club	1	0	0	0	1,000
Total	6,347	100	84	637	290,489,803

Fire Losses in ON by Type of Home - 2007

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
One/Two Family Dwellings	4,088	70	53	360	212,104,836
Apartments, Tenements, Flats	1,650	28	18	242	55,664,013
Mobile Homes	62	1	3	1	2,051,600
Total	5,800	100	74	603	269,820,449

Major Areas of Fire Origin in ON Homes - 2007

Area of Origin	Fires	%	Deaths	Injuries	\$ Losses
Kitchen	1335	23	6	187	34,819,709
Living Room	545	9	27	97	38,805,564
Bedroom	524	9	12	104	27,442,105
Porch or Balcony	323	6	3	15	11,876,348
Garage	273	5	2	19	20,995,385
Chimney/Flue Pipe	246	4	0	0	4,226,370
Court, Patio, Terrace	228	4	0	12	5,807,163
Exterior Wall	226	4	0	5	9,587,380
Laundry Area	203	4	0	11	4,993,222
Undetermined	177	3	0	10	31,420,870
Washroom	133	2	1	17	5,423,755
Basement/cellar not partitioned	132	2	9	32	14,159,199
Other Outside Area	114	2	0	3	1,329,343
Open Area (inc lawn, field, farmyard, park, playing field)	99	2	0	3	1,084,508
HVAC Equipment Room (furnace room, water heater closet, boiler)	85	1	0	10	4,878,875
All Other Areas (1% or less)	1,157	18	14	78	52,970,653
Total	5,800	100	74	603	269,820,449

Major Known Causes of Home Fires in ON - 2007

Fire Cause	Fires	%	Deaths	Injuries	\$ Losses
Cooking (except cooking oil fire)	658	11	5	57	14,680,176
Cooking Oil Fire	591	10	0	112	11,884,776
Heating Equipment Related	589	10	1	19	21,669,135
Smoking	543	9	19	65	11,962,886
Electrical Distribution Equipment	486	8	6	36	28,056,525
Arson/Set Fire	427	7	3	34	15,403,823
Candle	172	3	4	24	7,450,001
Appliance/Equipment Related	154	3	0	2	6,382,954
Clothes Dryer	131	2	0	6	1,410,168
Cutting/Welding Equipment or Blow Torch	126	2	0	12	5,420,684
Lighting Equipment	126	2	0	9	4,847,545
Child Fireplay	64	1	4	13	2,893,955
Flammable/Comb. Liquid Ignition	38	1	1	12	1,968,850
Flammable Gas Ignition	13	0	2	1	247,650
Other Causes/Unknown	1,682	29	29	201	135,541,321
Total	5,800	100	74	603	269,820,449

Distribution of Fire Deaths in ON by Property Classes - 2007

Property Class	Deaths	%
Detached Dwelling	42	46
Multi-Unit Dwelling - Over 12 Units	10	11
Semi-Detached Dwelling	4	4
Attached Dwelling (eg. rowhouse, townhouse, etc.)	7	8
Automobile	3	3
Small Truck (eg. pick-up, van, etc.)	3	3
Multi-Unit Dwelling - 2 to 6 Units	3	3
Motor Home, Camper, Trailer	3	3
Detached Garage	2	2
Multi-Unit Dwelling - 7 to 12 Units	3	3
Mobile Home	3	3
Open Land (eg. light ground cover, bush, grass)	1	1
Seniors long term care facility, licensed	1	1
Apartment, Flat, Tenement with Business	1	1
Other Residential	1	1
Detached Dwelling - Acc. Apartment (above gr	1	1
Rooming/Boarding/Lodging House	1	1
Residential Camp	3	3
Total	92	100

Distribution of Fire Deaths in ON by Property Classes (summary) - 2007

Property Class	Deaths	%
Residential	83*	90
Automobile	6	7
Detached Garage	2	2
Open Land (eg. light ground cover, bush, grass)	1	1
Total	92	100

*Of the total number of fire deaths in the residential category, one death occurred in a seniors long term care facility, which is classified under Care Facilities by the Office of the Ontario Fire Marshal.

Fire Deaths in ON by Probable Causes - 2007

Probable Cause	Deaths	%
Asphyxia (CO, HCN)	69	75
Burns or scalds	2	2
Complications from Asphyxia	3	3
Complications from burns/scalds.	11	12
Injured while escaping	1	1
Not coded	4	4
Other	2	2
Total	92	100

Major Known Causes of Fire Deaths in ON - 2007

Fire Cause	Deaths	%
Smoking	22	24
Electrical Distribution Equipment	6	7
Arson/Set Fire	6	7
Cooking (except cooking oil fire)	5	5
Candle	4	4
Child Fireplay	5	5
Heating Equipment Related	3	3
Flammable Gas Ignition	2	2
Cutting/Welding Equipment or Blow Torch	1	1
Flammable/Comb. Liquid Ignition	1	1
Other Causes/Unknown	37	40
Total	92	100

Fire Injuries in ON by Type of Injury - 2007

Injury - Minor	Injury - Serious	Total Injuries
607	229	836
73%	27%	100%

Fire Injuries in ON by Probable Causes - 2007

Probable Cause	Injuries	%
Smoke or Fire	521	62
Accident at incident	169	20
Unknown or Unclassified	115	14
Falling Debris	17	2
Explosion	8	1
FF: Equipment Failure at Incident	4	1
Building collapse	2	0
Total	836	100

Fire Injuries in ON by Age & Sex - 2007

Status and Sex of Casualty		Age in Years							Total
		0-9	10-19	20-39	40-64	65-79	80+		
Firefighter	Female	1	.	.	4	1	.	.	6
	Male	11	.	2	115	180	.	.	308
Occupant (civilian)	Female	27	11	17	36	61	14	11	177
	Male	31	22	22	88	100	14	6	283
Non-Occupant (civilian)	Female	3	.	3	4	5	1	1	17
	Male	6	1	.	19	16	3	.	45
Total		79	34	44	266	363	32	18	836

New Brunswick

Fire Losses in New Brunswick - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	4,585	11	23	26,115,223
Structure Fires- not coded*	717	.	.	.
Total	5,302	11	23	26,115,223

*These fires were not subject to further analysis for this report.

Fire Losses in NB by Type of Property Class - 2007

Year	Fires	Coded	Structural	Vehicle	Outdoor	Equipment	Not Coded
2007	4,585	3,565	2,047	282	1179	57	1,020
% of Coded Fires		100	57	8	33	2	

Fire Losses in NB by Major Property Classes - 2007

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	% of \$ Losses
Special Property & Transportation Equipment	1,492	33	0	3	553,441	2
Residential	1,470	32	10	16	20,976,915	80
Miscellaneous Property	167	4	0	0	771,513	3
Assembly	109	2	0	3	1,490,769	6
Storage Properties	105	2	0	0	1,074,692	4
Industrial Manufacturing Properties	84	2	0	0	19,006	0
Mercantile	82	2	0	1	367,115	1
Business & Personal Services	33	1	0	0	472,000	2
Institutional	23	1	1	0	389,772	1
Not Coded	1,020	22	0	0	0	0
Total	4,585	100	11	23	26,115,223	100

Fire Losses in NB by Major Sources of Ignition - 2007

Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Igniting Object - Cannot Be Determined	1,149	25	11	11	11,130,126
Heating Equipment	577	13	0	0	1,600,912
Smoker's Material/Open Flames	437	10	0	0	2,905,052
Exposure	307	7	0	0	725,716
Miscellaneous	223	5	0	0	1,489,666
Cooking Equipment	190	4	0	6	3,313,743
Electrical Distribution Equipment	173	4	0	5	3,630,519
Other Electrical Equipment	58	1	0	1	364,522
Appliances And Equipment	54	1	0	0	954,968
No Igniting Object	37	1	0	0	0
Not Coded	1,380	30	0	0	0
Total	4,585	100	11	23	26,115,223

Fire Losses in NB by Major Acts or Omissions – 2007

Act or Omission	Fires	%	Deaths	Injuries	\$ Losses
Incendiary Fires	1,224	27	3	7	7,255,425
Cannot be determined	583	13	3	6	6,875,206
Miscellaneous	462	10	0	0	1,644,742
Mechanical, Electrical Failure Malfunction	441	10	0	2	3,687,875
Human Failing	303	7	1	2	3,372,866
Misuse of Source of Ignition	212	5	4	1	1,366,994
Misuse of Material Ignited	123	3	0	4	1,825,458
Vehicle Accident	38	1	0	1	82,758
Construction, Design or Installation Deficiency	31	1	0	0	3,900
Misuse of Equipment	14	0	0	0	0
Not Coded	1,154	25	0	0	0
Total	4,585	100	11	23	26,115,223

Fire Losses in NB by Major Materials First Ignited - 2007

Material First Ignited	Fires	%	Deaths	Injuries	\$ Losses
Miscellaneous	796	17	0	4	2,389,046
Material First Ignited - Miscellaneous, Cannot be	694	15	11	9	10,995,780
Agricultural, Forest Products	663	14	0	0	1,020,577
Wood, Paper Products	378	8	0	1	1,215,385
Building Components	255	6	0	4	5,168,968
Flammable/Combustible Liquids	205	4	0	3	3,069,289
Chemicals, Plastics, Metals	90	2	0	0	109,469
Furniture, Furnishings	59	1	0	2	382,248
Clothing, Textiles	47	1	0	0	319,125
Flammable Gases	11	0	0	0	1,445,337
Not Coded	1,387	30	0	0	0
Total	4,585	100	11	23	26,115,223

Fire Losses in NB by Residential Property Classes - 2007

Property Class	Fires	%	Deaths	Injuries	\$ Losses
One & Two-Family Dwellings	899	61	5	11	16,064,586
Residential	337	23	5	3	3,649,209
Apartment, Tenement, Flat, Townhouse, Condominium	142	10	0	2	565,182
Mobile Home, Mobile Accommodation, Trailer	39	3	0	0	645,106
Miscellaneous - Residential	19	1	0	0	7,000
Camp/Retreats - Seasonal Use	14	1	0	0	37,030
Hotel, Inn, Lodge	7	0	0	0	0
Motor Hotel, Motel	6	0	0	0	0
Rooming, Boarding, Lodging House, Hostel	5	0	0	0	8,802
Dormitory	2	0	0	0	0
Total	1,470	100	10	16	20,976,915

Fire Losses in NB by Homes - 2007

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
Year-Round Use Dwelling - 1-family	765	72	5	9	13,149,207
One & Two Family Dwellings	50	5	0	0	714,006
Apartment, Tenement, Flat - 5 to 20 units without business	47	4	0	0	214,582
Year-Round Use Dwelling - 2-family	27	3	0	1	266,283
Seasonal Use Dwelling - in season, 1-family	26	2	0	0	292,380
Apartment, Tenement, Flat - 5 to 20 units with business	20	2	0	0	0
Apartment, Tenement, Flat - 1 to 4 units without business	19	2	0	1	59,683
Apartment - 5 - 20 units w/o business	17	2	0	0	.
Apartment, Tenement, Flat - over 20 units with or w/o business	16	2	0	1	26,000
Mobile Home - 1 or 2 family units	16	2	0	0	439,856
Farm Dwelling - 1-Family	11	1	0	0	1,067,009
One & Two-Family Dwelling - unclassified or unknown	10	1	0	1	519,802
Apartment, Tenement, Flat - 1 to 4 units with business	10	1	0	0	1,400
Seasonal Use Dwelling - off season, 1-family	8	1	0	0	52,000
Apartment, Tenement, Flat, Townhouse, Condominium	4	0	0	0	41,552
Apartment - 5 - 20 units w business	3	0	0	0	.
Apartment - 1 - 4 units w/o business	2	0	0	0	51,965
Apartment, Tenement, Flat - unclassified or unknown	2	0	0	0	0
Apartment - 1 - 4 units w business	2	0	0	0	170,000
Seasonal Use Dwelling - off season, 2-family	1	0	0	0	0
Seasonal Use Dwelling - in season, 2-family	1	0	0	0	3,900
Total	1,057	100	5	13	17,069,624

Fire Losses in NB by Homes: One/Two Family Dwellings, Apartments, Mobile Homes - 2007

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
One/Two Family Dwellings	899	85	5	11	16,064,587
Apartments, Tenements, Flats	142	13	0	2	565,182
Mobile Homes	16	2	0	0	439,856
Total	1,057	100	5	13	17,069,625

Fire Losses in NB Homes by Areas of Origin - 2007

Area of Origin	Fires	%	Deaths	Injuries	\$ Losses
Chimney - masonry/factory built, metal	323	31	0	0	164,224
Kitchen	168	16	1	5	2,284,850
Outside Area - lawn, balcony, court, patio...	107	10	0	0	716,198
Living/Family Room	37	4	0	0	1,641,777
Bedroom	29	3	0	1	983,689
Laundry Area	27	3	0	0	537,745
Vehicle Garage/Carport	23	2	0	0	1,730,925
Unknown Area of Origin	177	17	2	5	4,247,993
Other (1% or less)	166	16	2	2	4,762,224
Total	1,057	100	5	13	17,069,624

Major Known Causes of Home Fires in NB - 2007

Fire Cause	Fires	%	Deaths	Injuries	\$ Losses
Heating Equipment Related	340	32	0	0	635,122
Arson/Set Fire	194	18	3	6	3,496,420
Cooking (except cooking oil fire)	108	10	0	2	1,928,983
Electrical Distribution Equipment	68	6	0	1	2,237,613
Smoking	34	3	0	0	476,544
Cooking Oil Fire	25	2	0	1	871,200
Match/Lighter Not Used for Smoking	15	1	0	0	0
Clothes Dryer	14	1	0	0	4,660
Appliance/Equipment Related	11	1	0	0	607,603
Exposure Fire	10	1	0	0	0
Candle	10	1	0	0	1,017,476
Inadequate Control of Open Fire	9	1	0	0	.
Flammable/Comb. Liquid Ignition	6	1	0	0	346,737
Child Fireplay	3	0	0	0	19,477
Cutting/Welding Equipment or Blow Torch	2	0	0	0	223,521
Flammable Gas Ignition	2	0	0	0	0
Other Causes/Unknown	206	19	2	3	5,204,269
Total	1,057	100	5	13	17,069,624

Fire Deaths in NB by Property Class - 2007

Property Class	Deaths	%
Dwelling - 1-family	5	45
Residential	5	45
Home for Aged unclassified or unknown	1	9
Total	11	100

Major Known Causes of Fires involving Deaths in NB - 2007

Fire Cause	Deaths	%
Other Causes/Unknown	4	36
Arson/Set Fire	3	27
Smoking	4	36
Total	11	100

Nova Scotia

Fire Losses in Nova Scotia - 2007

Year	Fires	Deaths	Injuries	\$ Losses
2007	659	10	15	19,225,804
Total	659	10	15	19,225,804

Fire Losses in NS by Type of Property Class - 2007

Year	Fires	Structural	Vehicle	Outdoor
2007	659	517	83	58
%	100	78	13	9

Fire Losses in NS by Major Property Classes - 2007

Major Property Class	Fires	%	Deaths	Injuries	\$ Losses	%
Residential	388	59	9	9	13,374,784	70
Miscellaneous Property	112	17	1	5	1,210,320	6
Vehicles	83	13	0	1	873,893	5
Assembly	25	4	0	0	393,059	2
Industrial Manufacturing Properties	18	3	0	0	650,923	3
Mercantile	14	2	0	0	123,000	1
Storage Properties	8	1	0	0	2,318,520	12
Institutional	8	1	0	0	61,000	0
Business & Personal Services	3	0	0	0	220,305	1
Total	659	100	10	15	19,225,804	100

Fire Losses in NS by Major Sources of Ignition - 2007

Major Source of Ignition	Fires	%	Deaths	Injuries	\$ Losses
Undetermined	203	31	5	3	8,677,380
Miscellaneous	158	24	0	2	3,337,051
Smoker's Material & 'Open' Flames	98	15	3	6	1,357,726
Heating Equipment	83	13	0	1	1,885,556
Electrical Distribution Equipment	75	11	1	1	1,688,854
Cooking Equipment	29	4	1	2	1,529,196
Appliances & Equipment	6	1	0	0	653,141
Lightning	4	1	0	0	74,000
Exposure	3	0	0	0	22,900
Total	659	100	10	15	19,225,804

Fire Losses in NS by Major Acts or Omissions - 2007

Major Act or Omission (Possible Cause)	Fires	%	Deaths	Injuries	\$ Losses
Not Determined	144	22	5	4	8,121,881
Misuse of Equipment	94	14	0	3	989,305
Mech., Electr. Failure, Malfunction	89	14	1	0	2,613,541
Misuse of Material Ignited	78	12	0	1	1,013,661
Arson or 'Set' Fires	69	10	0	2	2,210,971
Under Investigation	53	8	0	1	946,094
Constructn. Design, Installn. Def.	45	7	0	0	383,250
Human Failing	37	6	2	1	1,253,121
Unknown	25	4	1	0	705,100
Misuse of Source of Ignition	22	3	1	2	956,530
Vehicle Accident	3	0	0	1	32,350
Total	659	100	10	15	19,225,804

Fire Losses in NS by Major Materials First Ignited - 2007

Major Material First Ignited	Fires	%	Deaths	Injuries	\$ Losses
Not Determined	195	30	5	4	9,839,462
Miscellaneous	150	23	0	0	1,478,107
Building Components	75	11	1	0	3,096,811
Other	63	10	0	1	377,859
Agricultural Products	58	9	0	3	217,738
Wood, Paper Products	39	6	0	1	998,913
Flammable & Combustible Liquids	25	4	1	0	1,300,443
Furniture, Furnishings	21	3	2	4	889,351
Vehicle	18	3	0	2	783,620
Clothing, Textiles	10	2	1	0	235,500
Chemicals	5	1	0	0	8,000
Total	659	100	10	15	19,225,804

Fire Losses in NS by Residential Property Classes - 2007

Residential Property Class	Fires	%	Deaths	Injuries	\$ Losses
Detached Dwelling	261	67	6	4	10,242,514
Multi-Unit Dwelling 2- 6 Unit	24	6	1	0	1,132,595
Other Residential	18	5	0	2	401,500
Mobile Home	18	5	2	2	252,453
Detached Garage	17	4	0	0	566,660
Detached Dwell/Apt above grd.	11	3	0	0	265,000
Semi-Detached Dwelling	8	2	0	0	202,799
Motor Home Camper Trailer	5	1	0	1	96,400
Multi-Unit Dwelling 13 plus	4	1	0	0	58,942
Detached Dwelling with Business	4	1	0	0	30,000
Residential Camp	3	1	0	0	0
Attached Dwelling-Town house	3	1	0	0	100
Multi-Unit Dwelling 7-12 Unit	3	1	0	0	34,371
Apartment/Flat with Business	2	1	0	0	90,000
Retirement Home	2	1	0	0	200
Motel Motor Hotel-NON Alcohol	2	1	0	0	500
Semi Detach Dwl./Apt above grd.	1	0	0	0	750
Military Barrack	1	0	0	0	0
Attached Dwelling with Business	1	0	0	0	0
Total	388	100	9	9	13,374,784

Fire Losses in NS Homes: By Types of Homes - 2007

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
Detached Dwelling	261	77	6	4	10,242,514
Multi-Unit Dwelling 2- 6 Unit	24	7	1	0	1,132,595
Mobile Home	18	5	2	2	252,453
Detached Dwell/Apt above grd.	11	3	0	0	265,000
Semi-Detached Dwelling	8	2	0	0	202,799
Multi-Unit Dwelling 13 plus	4	1	0	0	58,942
Detached Dwelling with Business	4	1	0	0	30,000
Attached Dwelling-Town house	3	1	0	0	100
Multi-Unit Dwelling 7-12 Unit	3	1	0	0	34,371
Apartment/Flat with Business	2	1	0	0	90,000
Semi Detach Dwl./Apt above grd.	1	0	0	0	750
Attached Dwelling with Business	1	0	0	0	0
Total	340	100	9	6	12,309,524

Fire Losses in NS Homes: One/Two Family Dwellings, Apartments and Mobile Homes - 2007

Type of Home	Fires	%	Deaths	Injuries	\$ Losses
One/Two Family Dwellings	272	80	6	4	10,445,413
Apartments, Tenements, Flats	50	15	1	0	1,611,658
Mobile Homes	18	5	2	2	252,453
Total	340	100	9	6	12,309,524

Home Fires in NS by Areas of Fire Origin - 2007

Area of Origin	Fires	%	Deaths	%	Injuries	%	\$ Losses	%
Chimney Flue Pipe	95	28	0	0	1	17	1,345,629	11
Cooking Area or Kitchen	29	9	1	11	2	33	2,092,592	17
Living Area/Rec./Family/TV Rm.	23	7	5	56	1	17	793,926	6
Other	17	5	0	0	0	0	87,500	1
Sleeping Area or Bedroom	16	5	0	0	0	0	707,475	6
Laundry Area	8	2	1	11	0	0	322,483	3
Not Coded	8	2	0	0	0	0	500,000	4
Other Outside Area	7	2	0	0	0	0	316,194	3
Heating or Cooling Equip. Area	7	2	0	0	0	0	290,027	2
Exterior Wall	7	2	0	0	0	0	342,500	3
Storage Area	6	1	0	0	0	0	128,739	1
Other Areas (each less than 1% or less)	45	15	1	11	0	0	2,336,269	19
Undetermined	72	21	1	11	2	33	3,046,190	25
Total	340	100	9	100	6	100	12,309,524	100

Major Known Causes of Home Fires in NS - 2007

Fire Cause	Fires	% of Fires	Deaths	Injuries	\$ Losses
Heating Equipment Related	72	21	0	1	1,844,056
Exposure Fire	39	11	1	1	2,306,396
Electrical Distribution Equipment	33	10	1	0	1,354,889
Arson/Set Fire	25	7	0	2	1,596,971
Cooking (except cooking oil fire)	12	4	0	0	728,719
Smoking	8	2	2	0	274,846
Child Fireplay	2	1	1	0	3,697
Flammable/Comb. Liquid Ignition	1	0	0	0	0
Other Causes/Unknown	148	44	4	2	4,199,950
Total	340	100	9	6	12,309,524

Fire Deaths in NS by Property Classes - 2007

Property Class	Deaths	%
Detached Dwelling	6	60
Mobile Home	2	20
Multi-Unit Dwelling 2- 6 Unit	1	10
Other Misc Structure/Property	1	10
Total	10	100

Property Class	Deaths	%
Residential	9	90
Other Misc Structure/Property	1	10
Total	10	100

Fire Deaths in NS by Causes – 2007

Fire Cause	Deaths	%
Other Causes/Unknown	5	50
Smoking	2	20
Child Fireplay	1	10
Electrical Distribution Equipment	1	10
Exposure Fire	1	10
Total	10	100

Northwest Territories

Fire Losses in Northwest Territories 2003 - 2007

Year	Fires	%	Deaths	\$ Losses
2003	111	23	10	1,269,887
2004	73	15	1	1,464,140
2005	162	33	4	1,954,580
2006	81	17	5	1,818,345
2007	57	12	2	2,327,895
Total	484	100	22	8,834,847
Ave.	97		4.4	1,766,969

Fire Losses in NT by Type of Property Class 2003 - 2007

Total # of Fires	Structural	Vehicle	Outdoor
484	313	71	39
%	65	15	8

Fire Losses in NT by Major Property Classes 2003 - 2007

Property Class	Fires	%	Deaths	\$ Losses	% of \$ Losses
Residential	192	40	15	5,610,167	64
Special/Transportation	115	24	4	642,370	7
Unknown (not coded) 0	60	12	0	182,500	2
Assembly	38	8	0	957,280	11
Miscellaneous	25	5	1	97,100	1
Mercantile	19	4	0	173,000	2
Storage	18	4	2	323,600	4
Business & Personal Service	10	2	0	788,300	9
Institutional	6	1	0	10,530	0
Industrial Manufacturing	1	0	0	50,000	1
Total	484	100	22	8,834,847	100

Fire Losses in NT by Major Sources of Ignition: 2003 - 2007

Source of Ignition	Fires	%	Deaths	\$ Losses	% of \$ Losses
Not Determined	166	34	12	5,561,077	63
Smoker's Material & 'Open' Flames	91	19	6	1,677,905	19
No Igniting Object	64	13	0	500	0
Heating Equipment	55	11	3	563,300	6
Cooking Equipment	43	9	1	130,920	1
Miscellaneous	21	4	0	64,625	1
Electrical Distribution Equipment	17	4	0	236,720	3
Other Electrical Equipment	14	3	0	265,800	3
Appliances & Equipment	9	2	0	333,000	4
Exposure	4	1	0	1,000	0
Total	484	100	22	8,834,847	100

Fire Losses in NT by Major Acts or Omissions: 2003 - 2007

Act or Omission	Fires	%	Deaths	\$ Losses	% of \$ Losses
Not Determined	179	37	11	4,483,179	51
Arson or 'Set' Fires	95	20	3	1,614,973	18
Human Failing	67	14	2	641,100	7
Mech., Electr. Failure, Malfunction	55	11	0	747,500	8
Misuse of Source of Ignition	37	8	3	578,950	7
Constructn., Design, Installn. Def.	11	2	2	281,500	3
Misuse of Equipment	11	2	0	159,100	2
Misuse of Material Ignited	10	2	0	257,545	3
Vehicle Accident	8	2	1	54,000	1
Act or Omission N/A	8	2	0	1,000	0
Miscellaneous	3	1	0	16,000	0
Total	484	100	22	8,834,847	100

Fire Losses in NT by Major Materials First Ignited: 2003 - 2007

Material First Ignited	Fires	%	Deaths	\$ Losses	% of \$ Losses
Not Determined	230	48	13	5,468,697	62
Building Components	50	10	2	1,545,100	17
Wood, Paper Products	46	10	1	436,650	5
Miscellaneous	43	9	2	176,480	2
Agricultural Products	30	6	0	43,700	0
Flammable & Combustible Liquids	27	6	0	320,925	4
Chemicals	27	6	0	291,790	3
Furniture, Furnishings	18	4	1	440,910	5
Clothing, Textiles	11	2	3	108,595	1
Flammable Gases	2	0	0	2,000	0
Total	484	100	22	8,834,847	100

Fire Losses in NT by Residential Property Classes 2003 - 2007

Property Class	Fires	%	Deaths	\$ Losses
One and Two Family Dwellings	110	57	12	4,642,627
Apartments	47	24	1	465,740
Hotel, Inn, Lodge (year round use)	5	3	1	6,000
Residential (coded as 3000)	5	3	0	3,700
Residential Miscellaneous- Unclassified	5	3	0	50,000
Mobile Home (1 or 2 family units)	3	2	0	175,000
Single Cabins	3	2	0	105,100
Rooming, Boarding, Lodging House (less than 10 persons)	2	1	0	0
Rooming, Boarding, Lodging House- Unclassified	3	2	0	75,000
Tents	2	1	1	500
Motor Home (includes camperized van)	2	1	0	31,500
Bunkhouse & Worker's Barracks	1	1	0	50,000
Mobile Home, Trailer- Unclassified	1	1	0	0
Military Barracks	1	1	0	0
Camp/Retreats – Seasonal Use (coded as 3800)	1	1	0	0
Childrens' Playhouse	1	1	0	5,000
Total	192	100	15	5,610,167

Fire Losses in NT Homes by Type of Home 2003 - 2007

Type of Home	Fires	%	Deaths	%	\$ Losses	%
One/Two Family Dwellings	110	67	12	92	4,642,627	88
Apartments, Tenements, Flats	47	28	1	8	465,740	9
Residential (coded as 3000)	5	3	0	0	3,700	0
Mobile Homes	3	2	0	0	175,000	3
Total	165	100	13	100	5,287,067	100

Fire Losses in NT Homes by Areas of Fire Origin 2003 - 2007

Area of Origin	Fires	%	Deaths	%	\$ Losses
Kitchen	32	19	1	8	284,690
Living Room	18	11	2	15	710,000
Bedroom	13	8	7	54	465,300
Heating Equipment Room	9	5	0	0	108,200
Crawl Space - includes sub-structure space	8	5	0	0	111,500
Chimney, Flue Pipe, Gas Vent	5	3	0	0	1,000
Outside Area - lawn, balcony, court, patio...	9	5	1	8	1,355,200
Exterior Wall	4	2	0	0	14,000
Vehicle Parking	5	3	0	0	62,200
Unclassified Areas	5	3	0	0	282,718
Other Areas (each 1% or less)	25	17	1	8	528,600
Area of Origin – unknown	32	19	1	8	1,363,659
Total	165	100	13	100	5,287,067

Major Known Causes of Home Fires in NT: 2003 - 2007

Fire Cause	Fires	% Fires	Deaths	\$ Losses
Heating Equipment Related	31	19	0	387,100
Cooking	32	19	1	128,790
Arson/Set Fire	15	9	0	198,418
Smoking	9	5	2	357,200
Candle	7	4	0	285,200
Electrical Distribution Equipment	6	4	0	230,000
Appliance/Equipment Related	4	2	0	98,000
Child Fireplay	3	2	0	171,100
Flammable/Comb. Liquid Ignition	2	1	0	105,000
Clothes Dryer	1	1	0	0
Exposure Fire	1	1	0	1,000
Other Causes/Unknown	54	33	10	3,325,259
Total	165	100	13	5,287,067

Fire Deaths in NT by Property Classes: 2003 - 2007

Property Class	Deaths	%
One and Two Family Dwellings	12	55
Automobile (Incl. cars/light trucks/vans/single body units)	2	9
Apartments	1	5
Hotel, Inn, Lodge (year round use)	1	5
Tents	1	5
Lumberyards, Building Materials Storage	2	9
General Truck (incl. mail truck, trailer truck, tow truck)	2	9
Shed (includes implement shed & workshop)	1	5
Total	22	100

Major Known Causes of Fire Deaths in NT: 2003 - 2007

Fire Cause	Deaths	%
Other Causes/Unknown	13	59
Arson/Set Fire	3	14
Heating Equipment Related	3	14
Smoking	2	9
Cooking (except cooking oil fire)	1	5
Total	22	100

Department of National Defence

Fire Losses in DND 2006 - 2008

Year	Fires	Deaths	\$ Losses
2006	353	.	15,974,784
2007	443	.	1,369,584
2008	384	.	135,595,797
Total	1,180	.	152,940,165

Fire Losses in DND by Type of Property Classes: 2006 - 2008

Year	All Fires	Structural	Vehicle	Outdoor	Equipment	Coded Fires
2006	353	76	45	93	7	221
2007	443	82	67	145	16	310
2008	384	90	61	56	7	214
Total	1180	248	173	294	30	745
% of Coded Fires		33	23	39	4	100

Fire Losses in DND by Major Property Classes: 2006 - 2008

Property Class	Fires	%	\$ Losses
Special Property & Transportation Equipment	469	40	124,202,557
Not Coded	424	36	80,300
Residential	90	8	892,067
Miscellaneous Property	70	6	782,430
Assembly	50	4	93,755
Business & Personal Services	34	3	25,265,133
Storage Properties	22	2	421,245
Mercantile	11	1	8,315
Institutional	6	1	164,302
Industrial Manufacturing Properties	4	0	1,030,061
Total	1,180	100	152,940,165

Fire Losses in DND 2006 - 2008
By Property Classes in the “Special Property & Transportation Equipment Category”

Property Class	Fires	%	\$ Losses
Brush, Grass & Light Ground Cover on Open Land, Field	243	52	274,807
Special Vehicles - unclassified or unknown	46	10	6,599,307
Combat Ship	31	7	217,455
Outdoor Property - unclassified or unknown	25	5	25,000
Ground Transport Vehicle - unclassified or unknown	24	5	102,925,941
Automobile	17	4	97,820
General Truck - includes mail truck, trailer truck and tow truck	16	3	35,604
Military Non-Combat Aircraft - cargo, training	13	3	10,145
Trash / Rubbish / Recyclable	10	2	550
Forest, Standing Timber	9	2	0
Emergency vehicles	7	1	41,579
Trees - includes individual trees only	6	1	800
Military Combat Aircraft - bomber, fighter, patrol	3	1	.
Industrial Truck, Forklift & Material Handling Truck, etc.	2	0	324
Construction Equipment - excludes crane (8830)	2	0	152,500
Aircraft - unclassified or unknown	2	0	.
Snowmobile, all terrain vehicle (ATV)	2	0	3,000
Tractor Trailer	2	0	80,000
Mobile or Fixed Crane	1	0	0
Farm Tractor & Equipment, Grain Dryer, Harvester, Picker, etc.	1	0	6,500
Helicopter & Vertical Take Off Aircraft - non-military	1	0	.
Bus, Trackless Trolley	1	0	10,000
Motor Craft - 20m or less over-all length	1	0	0
Buildings Under Construction	1	0	61,000
Commercial Passenger Aircraft	1	0	.
Vacant Property, Property Without Contents	1	0	13,660,225
Underpass - includes tunnels 30m or less in length	1	0	0
Total	469	100	124,202,557

Fire Losses in DND by Major Sources of Ignition: 2006 - 2008

Source of Ignition	Fires	%	\$ Losses
Electrical Distribution Equipment	95	8	903,313
Smoker's Material & 'Open' Flames	94	8	532,590
Not Determined	62	5	14,190,121
Other Electrical Equipment	51	4	25,314,497
Cooking Equipment	42	4	86,453
Appliances & Equipment	28	2	160,273
Exposure	24	2	3,293,022
Heating Equipment	19	2	1,062,428
No Igniting Object	5	0	4,500
Miscellaneous	275	23	7,307,318
Not Coded	485	41	100,085,650
Total	1,180	100	152,940,165

Fire Losses in DND by Major Acts or Omissions: 2006 - 2008

Act or Omission	Fires	%	\$ Losses
Not Coded	485	41	100,085,650
Miscellaneous Act or Omission	265	22	638,432
Mechanical/Electrical Failure/Malfunction	178	15	1,751,730
Human Failing	90	8	518,535
Incendiary Fires	71	6	49,326,648
Misuse of Source of Ignition	35	3	217,265
Construction, Design or Installation Deficiency	22	2	173,306
Misuse of Material Ignited	15	1	101,785
Misuse of Equipment	12	1	2,114
Vehicle Accident	7	1	124,700
Total	1,180	100	152,940,165

Fire Losses in DND by Residential Property Classes: 2006 - 2008

Property Class	Fires	%	\$ Losses
One & Two-Family Dwellings	36	40	467,934
Dormitory	35	39	101,527
Apartment, Tenement, Flat, Townhouse, Condominium	10	11	230,926
Mobile Home, Mobile Accommodation, Trailer	3	3	110
Miscellaneous - Residential	2	2	0
Camp/Retreats - Seasonal Use	2	2	81,060
Rooming, Boarding, Lodging House, Hostel	1	1	10,000
Hotel, Inn, Lodge	1	1	510
Total	90	100	892,067

Fire Losses in DND Residential Property Classes by Sources of Ignition: 2006 - 2008

Source of Ignition	Fires	%	\$ Losses
Smoker's Material	19	21	183,235
Electrical Wiring/switch/outlet...	15	17	83,320
Stove, Range, Top Burner Area	11	12	19,510
Other cooking equipment	6	7	5,800
Heating equipment	6	7	97,179
Incandescent Lamp, Light bulb - includes lantern, flashlight	5	6	2,830
Igniting Object - cannot be determined	5	6	225,176
Individual Air Conditioner or Dehumidifier	3	3	1,645
Clothes Dryer/Washer	2	2	1,300
Candle, Taper	2	2	60,300
Explosive - includes blasting agent	1	1	1,278
Appliances & Equipment - unclassified or unknown	1	1	200
Match, lighter	1	1	500
Bar-b-q Starter (Electric)	1	1	30,000
Exposure fire	1	1	0
Motor, 1HP & Over	1	1	0
Miscellaneous Igniting Object - Unclassified	1	1	178,294
Electrical Equipment - unclassified or unknown	1	1	1,500
No Igniting Object (i.e. lightning)	1	1	0
Unknown (not coded)	7	8	.
Total	90	100	892,067

**Fire Losses in DND Residential Property Classes by Acts or Omissions:
2006 - 2008**

Act or Omission	Fires	%	\$ Losses
Ignorance of hazard	12	13	227,750
Electrical Short Circuit	9	10	160,380
Not Coded	7	8	.
Smoker's Material	7	8	2,685
Distracted, Preoccupied	5	6	1,270
Mechanical/Electrical Failure/Malfunction - cannot be determined	4	4	1,545
Suspected Faulty Connection Involving Copper Wiring	4	4	11,904
Part Failure, Leak, Break	4	4	2,370
Act or Omission - Not Applicable	3	3	9,160
Human Failing - unclassified	3	3	810
Part Worn Out	2	2	5,150
Automatic Control Failure	2	2	2,585
Temporary Loss of Judgement Suspected - includes panic	2	2	40,000
Misuse of Source of Ignition - unclassified	2	2	0
Suspect Not Identified	2	2	242,676
Misuse of Equipment - unclassified	2	2	150
Suspicious	2	2	178,294
Overheated Cooking Oil, Grease, Wax	2	2	2,010
Suspected Impairment - use of alcohol, drugs or medication	1	1	0
Adult - 18 years of age and older	1	1	0
Incendiary Fire	1	1	1,278
Asleep - suspected use of alcohol, drugs or medication	1	1	0
Human Failing - cannot be determined	1	1	100
Mechanical/Electrical Failure/Malfunction - unclassified	1	1	0
Act or Omission - cannot be determined	1	1	200
Young Offender - 12 to 17 years of age	1	1	500
Misuse of Source of Ignition - cannot be determined	1	1	0
Improper Storage	1	1	900
Design Deficiency	1	1	0
Misuse of Material Ignited - cannot be determined	1	1	50
Accident	1	1	0
Miscellaneous Act or Omission - unclassified	1	1	0
Child - 11 years of age or younger	1	1	0
Combustible Placed too Close to Heat	1	1	300
Total	90	100	892,067

Canada

Major causes of fire deaths in Canada and combined home fire losses in participating provinces and territories are provided below.

Major Causes of Fire Deaths in Canada*

Fire Cause	% of Deaths
Smoking	22
Arson or Set Fire	9
Electrical	5
Cooking	5
Child Fire-play	3
Flammable Gas Ignition	3
Flam./Comb. Liquid Ignition	3
Candle	2
Heating	2
Exposure	1
Other Causes/Unknown	45

*Fire data for 2007 from BC, AB, MB, ON, NB, NS; for 2008 from SK; and averaged for 2003 - 2007 for NT. Percent Canadian Population represented = 75%. QC, PE, NL, YK and NU data was not available.

Home Fire Losses in Participating Provinces and Territories

Percent Distribution of Home Fires by Type of Home

Type of Home	% Fires	% Deaths	% Injuries
One/Two Family Dwellings	74	78	62
Apartments, Tenements, Flats	24	17	36
Mobile Homes	2	5	2

This Table summarizes data for BC, AB, MB, ON, NB, NS (for 2007); SK (for 2008); and NT (for 2003-2007).

Home Fires in Canada by Area of Fire Origin

Area of Origin	Fires	%	Deaths	% Deaths	Injuries	% Injuries
Kitchen	2,955	22	20	12	334	29
Outside Area (inc porch, balcony, court, patio, terrace, lawn, other...)	1,201	9	5	3	47	4
Bedroom	1,136	9	35	20	242	21
Living Room	1,077	8	56	33	198	17
Chimney - masonry/factory built, metal; flue-pipe; gas-vent	690	5	2	1	6	1
Vehicle garage...	600	5	6	3	45	4
Exterior Wall	475	4	0	0	8	1
Laundry Area	421	3	2	1	24	2
Washroom	241	2	2	1	26	2
Heating equipment room	221	2	0	0	16	1
Other Areas (<=1%)	2,940	22	31	18	195	17
Undetermined/Unknown	1,299	10	14	8	27	2
Total	13,256	100	173	100	1,168	100

This Table contains data for BC, AB, MB, ON, NB, NS (for 2007); SK (for 2008); NT (for 2003-2007).

Causes of Home Fires in Canada

Causes	Fires*	% Fires	Deaths	% Deaths	Injuries	% Injuries
Cooking [∞]	2,582	20	11	7	290	27
Heating Equipment Related	1,631	12	2	1	65	6
Arson/Set Fire	1,477	11	16	10	83	8
Electrical Distribution Equipment	1,092	8	11	7	60	6
Smoking	900	7	36	22	92	9
Candle	337	3	5	3	50	5
Appliance/Equipment Related	312	2	0	0	7	1
Exposure Fire	265	2	1	1	4	0
Clothes Dryer	231	2	0	0	8	1
Lighting Equipment	222	2	0	0	13	1
Cutting/Welding Equipment or Blow Torch	205	2	0	0	18	2
Child Fireplay	122	1	5	3	19	2
Flammable/Comb. Liquid Ignition	89	1	1	1	24	2
Flammable Gas Ignition	33	0	2	1	2	0
Other Causes/Unknown	3626	28	72	44	332	31
Total	13,124	100	162	100	1,067	100

* This Table contains data for one/two family dwellings, apartments and mobile homes in BC, AB, MB, ON, NB, NS (for 2007); SK (for 2008); NT (averaged for 2003-2007). Thus, the totals row reflects fire losses for these periods.

[∞]Cooking fires include cooking oil fires (30%) and all other cooking fires (without ignition of cooking oil) (70%). Injuries were equally distributed between these two types of cooking fires. Please refer to "Cooking Oil: A Home Fire Hazard in Alberta, Canada," by Mahendra S. Wijayasinghe and Thomas B. Makey. Fire Technology Second Quarter 1997.