



Ministry of
Public Safety
and Solicitor General

ANNUAL STATISTICAL REPORT 2006

British Columbia Office of the Fire Commissioner

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INTRODUCTION

The source of all statistical data is from the Office of the Fire Commissioner's (OFC) Fire Incident Reporting and Evaluation (FIRE) System. The FIRE System receives fire incident data from local fire departments in BC, and from insurance companies who have received claims due to fire damage. Fire incident data is received regularly throughout the year as fire events occur in BC.

Dollar Loss is an estimate of the value of the property loss due to a fire. Dollar loss (\$ Loss) data is received from either local fire department estimates, or from insurance company claims for the actual dollar loss amount that was paid to the claimant. Dollar loss does not include loss of business or income as a result of fire.

FIRE CASUALTIES

British Columbia Fire Injury and Death Rates

Year	Population ¹	BC Fire Injuries	BC Fire Deaths ²	BC Fire Death Rate ³
1997	3,964,637	373	41	1.0
1998	3,990,414	333	30	0.8
1999	4,021,567	298	32	0.8
2000	4,069,264	343	42	1.0
2001	4,090,659	288	44	1.1
2002	4,126,608	270	41	1.0
2003	4,154,591	212	23	0.6
2004	4,203,807	208	30	0.7
2005	4,260,246	195	35	0.8
2006	4,320,255	201	23	0.5
10 Year Average	4,120,205	272.1	34.1	0.83

Casualties by Month

MONTH	FIRES ⁴	\$ LOSS	INJURED	DEATHS
JANUARY	489	13,796,132	18	0
FEBRUARY	563	18,721,805	25	1
MARCH	534	10,000,709	16	1
APRIL	719	19,771,274	18	1
MAY	725	19,937,313	9	1
JUNE	746	21,915,859	16	3
JULY	926	27,356,547	19	2
AUGUST	851	20,405,103	6	1
SEPTEMBER	793	25,960,958	13	2
OCTOBER	713	17,431,389	25	5
NOVEMBER	487	13,392,624	7	2
DECEMBER	526	27,382,969	29	4
TOTAL	8,072	236,072,682	201	23

Location of Fire Deaths

Abbotsford	1
Bella Coola	3
Burnaby	1
Central	
Kootenay RD	1
Cowichan	2
Dawson Creek	1
Delta	3
Langley	1
Midway	1
Nelson	1
North	
Vancouver	1
Prince Rupert	1
Surrey	3
Tumbler Ridge	1
Vancouver	2
Total	23

¹ **Source of Population Statistics:** Statistics Canada, CANSIM.

Prepared by: Population Section, BC Stats, Ministry of Labour and Citizens' Services, Government of British Columbia

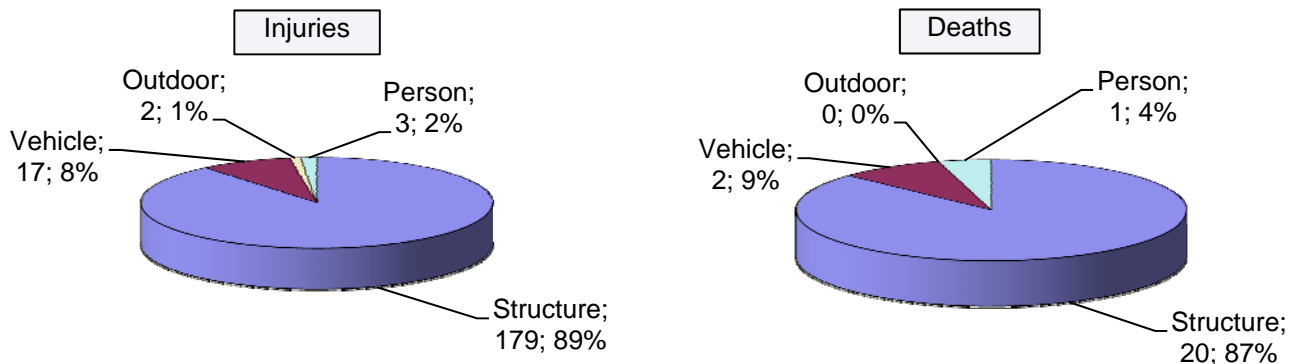
² **Fire Death** is a death directly due to fire; or death within one year of a fire injury

³ **Fire Death Rate** = number of fire deaths per 100,000 population

⁴ **Fire** is any instance of destructive or uncontrolled burning of combustible solids, liquids or gases.

Fire does not include: lightning, forest fire, motor vehicle accidents, explosion – steam/ammunition

Fire Related Injuries and Deaths by Major Property Classification



Major Causes of Fire Injuries

	Fires	Injuries	Deaths
FC100 - SMOKE INHALATION	74	90	8
FC101 - BURNS RESULTING FROM FIRE AND FLAMES	59	58	5
FC102 - BURNS RESULTING FROM HOT SUBSTANCES	23	23	0
FC103 - STRUCK BY OBJECTS OR PERSONS	5	5	0
FC104 - INJURY CAUSED BY FALLS	10	12	0
FC105 - INJURY CAUSED BY EXPLOSIVES	2	4	0
FC107 - UNCLASSIFIED	8	7	1
FC108 - UNKNOWN	9	2	9
TOTAL	190	201	23

Status, Age and Gender of Casualties

	Injured	Deaths
STATUS OF CASUALTY		
Firefighter	21	0
Civilian	180	23
AGE OF CASUALTY		
Unknown	27	8
Birth - 2 Years	5	0
3 - 4 Years	1	0
5 - 6 Years	1	1
7 - 8 Years	1	0
9 - 10 Years	1	1
11 - 12 Years	1	1
13 - 14 Years	3	0
15 - 16 Years	6	0
17 - 18 Years	4	0
19 - 20 Years	6	2
21 - 30 Years	35	1
31 - 40 Years	19	0
41 - 50 Years	40	2
51 - 60 Years	30	3
61 - 70 Years	8	0
71 - 80 Years	7	1
81 - 90 Years	4	3
over 90 Years	2	0
GENDER OF CASUALTY		
Male	143	14
Female	58	9

Circumstances Contributing to Fire Casualties

NATURE OF CASUALTY	Fires	Injuries	Deaths
FC001 - DEATH	18	0	23
FC002 - LIGHT INJURY (HOSP. 1-2 DAYS AND/OR OFF WORK 1-15 DAYS)	59	68	0
FC003 - MINOR INJURY (LESS THAN ONE DAY HOSPITAL OR OFF WORK)	88	105	0
FC004 - SERIOUS INJURY (HOSP. 3+ DAYS AND/OR OFF WORK 15+ DAYS)	23	28	0
TOTAL	188	201	23

CONDITION OF CASUALTY	Fires	Injuries	Deaths
FC010 - CONDITION OF CASUALTY UNKNOWN	39	29	15
FC011 - ASLEEP AT TIME OF FIRE	34	42	5
FC012 - BEDRIDDEN OR OTHER PHYSICAL HANDICAP	2	1	1
FC013 - IMPAIRMENT BY ALCOHOL, DRUGS, OR MEDICATION	7	7	1
FC014 - AWAKE OR NO PHYSICAL OR MENTAL IMPAIRMENT AT TIME OF FIRE	82	93	0
FC015 - UNDER RESTRAINT OR DETENTION	0	0	0
FC016 - TOO YOUNG TO REACT TO FIRE EMERGENCY	1	0	1
FC017 - MENTAL HANDICAP - INCLUDES SENILITY	0	0	0
FC018 - CHILD LEFT UNATTENDED	0	0	0
FC019 - UNCLASSIFIED	22	29	0
TOTAL	187	201	23

ACTION OF CASUALTY	Fires	Injuries	Deaths
FC020 - ACTION OF CASUALTY UNKNOWN	40	32	13
FC021 - INJURED WHILE ATTEMPTING TO ESCAPE	22	23	2
FC022 - OVER-EXERTION, HEART ATTACK	1	1	0
FC023 - VOLUNTARILY ENTERED OR REMAINED FOR RESCUE PURPOSE	10	12	0
FC024 - VOLUNTARILY ENTERED OR REMAINED FOR FIRE FIGHTING	75	86	0
FC025 - VOLUNTARILY ENTERED OR REMAINED TO SAVE PERSONAL PROPERTY	8	9	0
FC026 - LOSS OF JUDGEMENT OR PANIC	12	9	5
FC027 - RECEIVED DELAYED WARNING	3	3	0
FC028 - DID NOT ACT	11	11	2
FC029 - UNCLASSIFIED	13	15	1
TOTAL	195	201	23

CAUSE OF FAILURE TO ESCAPE	Fires	Injuries	Deaths
FC050 - UNKNOWN	34	26	11
FC051 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH VERTICAL OPENINGS	3	6	0
FC052 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH HORIZONTAL OPENINGS	10	5	7
FC053 - HIGH FLAME SPREAD OF COMBUSTIBLE INTERIOR FINISH OF WALLS, CEILINGS	5	4	3
FC054 - BUILDING COLLAPSE	1	1	0
FC055 - FALLING DEBRIS	0	0	0
FC056 - EXPLOSION	6	6	1
FC057 - EXIT LOCKED, BLOCKED OR OBSTRUCTED	5	5	0
FC058 - OUTDOOR FIRE INCLUDES FOREST/BRUSH FIRES	1	1	0
FC059 - UNCLASSIFIED OR NOT APPLICABLE	119	147	1
TOTAL	184	201	23

B.C. FIRE LOSS

Fire Loss in British Columbia 1997-2006

Year	Fires	\$ Loss
1997	6,415	202,644,692
1998	6,674	167,096,340
1999	6,037	167,334,641
2000	6,315	157,866,569
2001	6,035	202,889,229
2002	6,703	214,056,071
2003	6,264	483,970,947 ⁵
2004	7,614	167,285,613
2005	7,249	212,985,155
2006	8,071	236,072,682

Per Capita Loss in British Columbia 1997-2006

Year	Population ⁶	Fires	Fire Rate ⁷	\$ Loss	\$ Loss/Capita
1997	3,964,637	6,415	1.62	202,644,692	51.11
1998	3,990,414	6,674	1.67	167,096,340	41.87
1999	4,021,567	6,037	1.50	167,334,641	41.61
2000	4,069,264	6,315	1.55	157,866,569	38.79
2001	4,090,659	6,035	1.48	202,889,229	49.60
2002	4,126,608	6,703	1.62	214,056,071	51.87
2003 ⁸	4,154,591	6,264	1.51	483,970,947	116.49
2004	4,203,807	7,614	1.81	167,285,613	39.79
2005	4,260,246	7,249	1.70	212,985,155	49.99
2006	4,320,255	8,071	1.87	236,072,682	54.64
10 Year Average	4,120,205	6,738	1.63	221,220,194	53.58

⁵ 2003 was an exceptional year with very high losses due to major forest fires that swept throughout the interior of British Columbia. This is referred to as Firestorm 2003

⁶ **Source of Population Statistics:** Statistics Canada, CANSIM.

⁷ **Fire Rate** = Number of fires per 1,000 population

⁸ 2003 was an exceptional year with very high loss due to major forest fires that swept throughout the interior of British Columbia. This is referred to as Firestorm 2003.

Per Capita Fires by Location

Municipality	Population ⁹	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹⁰
100 MILE HOUSE	1,829	3	0	0	269,649	89,883	147.4	1.6
ABBOTSFORD	128,940	591	0	1	8,454,849	14,306	65.6	4.6
ARMSTRONG	4,531	2	0	0	3,896	1,948	0.9	0.4
ASHCROFT	1,825	1	0	0	13,900	13,900	7.6	0.5
BURNABY	205,477	112	13	1	8,931,841	79,749	43.5	0.5
BURNS LAKE	2,209	6	0	0	122,000	20,333	55.2	2.7
CACHE CREEK	1,115	1	0	0	8,527	8,527	7.6	0.9
CAMPBELL RIVER	31,444	76	0	0	668,821	8,800	21.3	2.4
CASTLEGAR	7,863	8	0	0	61,976	7,747	7.9	1.0
CENTRAL SAANICH	16,768	15	1	0	694,900	46,327	41.4	0.9
CHASE	2,600	9	0	0	601,261	66,807	231.3	3.5
CHETWYND	2,866	4	0	0	99,077	24,769	34.6	1.4
CITY OF CHILLIWACK	72,621	215	15	0	5,510,976	25,632	75.9	3.0
COLDSTREAM	10,320	13	0	0	785,547	60,427	76.1	1.3
COLWOOD	15,470	26	0	0	109,191	4,200	7.1	1.7
COMOX	13,008	3	0	0	170,000	56,667	13.1	0.2
COQUITLAM CITY	119,319	178	3	0	12,800,829	71,915	107.3	1.5
COURTENAY	22,533	69	0	0	543,810	7,881	24.1	3.1
CRANBROOK	20,102	39	0	0	1,714,655	43,966	85.3	1.9
CRESTON	5,201	37	2	0	726,754	19,642	139.7	7.1
CUMBERLAND	2,881	4	0	0	133,205	33,301	46.2	1.4
DAWSON CREEK	11,615	70	3	1	4,218,168	60,260	363.2	6.0
DELTA	102,939	49	0	3	1,056,931	21,570	10.3	0.5
DISTRICT OF LAKE								
COUNTRY	10,668	30	0	0	913,721	30,457	85.7	2.8
DUNCAN	5,032	11	0	0	368,537	33,503	73.2	2.2
ELKFORD	2,683	14	0	0	1,000	71	0.4	5.2
ENDERBY	3,134	11	0	0	1,372,482	124,771	437.9	3.5
ESQUIMALT	17,407	26	0	0	134,944	5,190	7.8	1.5
FERNIE	5,168	8	0	0	394,000	49,250	76.2	1.5
FORT NELSON	4,871	43	1	0	2,302,626	53,549	472.7	8.8
FORT ST. JOHN	18,270	50	0	0	1,370,066	27,401	75.0	2.7
FRASER LAKE	1,354	1	0	0	25,000	25,000	18.5	0.7
FRUITVALE	2,039	6	0	0	681,739	113,623	334.3	2.9
GIBSONS	4,458	4	0	0	72,284	18,071	16.2	0.9
GOLDEN	4,498	10	0	0	663,178	66,318	147.4	2.2
GRAND FORKS	4,159	2	0	0	5,574	2,787	1.3	0.5
GRANISLE	352	2	0	0	1,000	500	2.8	5.7
HARRISON HOT								
SPRINGS	1,609	3	0	0	21,634	7,211	13.4	1.9
HAZELTON	362	1	0	0	650,000	650,000	1795.6	2.8
HOPE DISTRICT	6,667	49	0	0	1,108,292	22,618	166.2	7.3
HOUSTON	3,796	13	0	0	702,343	54,026	185.0	3.4
INVERMERE	3,470	2	0	0	228,099	114,050	65.7	0.6
KAMLOOPS	84,064	212	6	0	2,079,309	9,808	24.7	2.5
KASLO	1,087	1	0	0	1,047	1,047	1.0	0.9
KELOWNA	112,775	251	2	0	8,401,492	33,472	74.5	2.2
KENT	5,756	27	1	0	445,354	16,495	77.4	4.7

⁹ Source of Population Statistics: Statistics Canada, CANSIM.¹⁰ **Fire Rate** = Number of fires per 1,000 population

B.C. Fire Loss

Municipality	Population ¹¹	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹²
KEREMEOS	1,369	2	0	0	27,397	13,699	20.0	1.5
KIMBERLEY	7,147	16	0	0	825,542	51,596	115.5	2.2
KITIMAT	10,510	27	6	0	1,081,223	40,045	102.9	2.6
LADYSMITH	7,460	41	0	0	427,368	10,424	57.3	5.5
LAKE COWICHAN	3,118	2	0	0	12,879	6,440	4.1	0.6
LANGFORD DISTRICT	22,229	1	0	0	12,840	12,840	0.6	0.0
LANGLEY CITY	25,789	28	0	0	764,965	27,320	29.7	1.1
LANGLEY TOWNSHIP	99,537	350	3	1	7,116,287	20,332	71.5	3.5
LILLOOET	2,779	2	0	0	38,000	19,000	13.7	0.7
LIONS BAY	1,418	1	1	0	25,000	25,000	17.6	0.7
LUMBY	1,766	13	0	0	441,932	33,995	250.2	7.4
LYTTON	330	1	0	0	3,000	3,000	9.1	3.0
MACKENZIE	5,452	6	0	0	724,788	120,798	132.9	1.1
MAPLE RIDGE	75,783	58	2	0	771,236	13,297	10.2	0.8
MCBRIDE	745	1	0	0	35,000	35,000	47.0	1.3
MERRITT	7,595	6	1	0	1,131	189	0.1	0.8
METCHOSIN	5,312	1	0	0	180,000	180,000	33.9	0.2
MIDWAY	629	4	0	1	60,000	15,000	95.4	6.4
MISSION	35,262	35	0	0	3,660,794	104,594	103.8	1.0
NAKUSP	1,800	11	0	0	311,000	28,273	172.8	6.1
NANAIMO	80,949	454	10	0	8,861,559	19,519	109.5	5.6
NELSON	9,923	44	2	1	208,841	4,746	21.0	4.4
NEW HAZELTON	729	1	0	0	15,000	15,000	20.6	1.4
NEW WESTMINSTER	57,645	72	1	0	2,361,316	32,796	41.0	1.2
NORTH COWICHAN	29,118	23	2	0	1,722,419	74,888	59.2	0.8
NORTH SAANICH	11,258	1	0	0	5,333	5,333	0.5	0.1
NORTH VANCOUVER CITY	49,248	136	2	1	1,858,703	13,667	37.7	2.8
NORTH VANCOUVER DISTRICT	87,518	81	0	0	2,459,869	30,369	28.1	0.9
OAK BAY	18,059	67	0	0	156,720	2,339	8.7	3.7
OLIVER	4,369	25	0	0	1,264,037	50,561	289.3	5.7
OSOYOOS	4,963	15	0	0	215,506	14,367	43.4	3.0
PARKSVILLE	12,081	3	0	0	94,727	31,576	7.8	0.2
PEACHLAND	5,369	29	0	0	5,112,049	176,278	952.1	5.4
PEMBERTON	2,563	1	0	0	1,529	1,529	0.6	0.4
PENTICTON	34,669	175	0	0	1,779,641	10,169	51.3	5.0
PITT MEADOWS	17,532	15	0	0	231,524	15,435	13.2	0.9
PORT ALBERNI	18,790	21	1	0	257,472	12,261	13.7	1.1
PORT ALICE	1,131	5	0	0	160,000	32,000	141.5	4.4
PORT CLEMENTS	517	1	0	0	38,000	38,000	73.5	1.9
PORT COQUITLAM	55,712	116	6	0	1,306,841	11,266	23.5	2.1
PORT HARDY	4,585	1	0	0	1,243	1,243	0.3	0.2
PORT MCNEILL	2,929	2	0	0	9,923	4,962	3.4	0.7
PORT MOODY	30,120	11	0	0	610,242	55,477	20.3	0.4
POUCE COUPE	910	3	0	0	0	0	0.0	3.3
POWELL RIVER	14,035	20	0	0	303,725	15,186	21.6	1.4
PRINCE GEORGE	77,343	536	6	0	5,317,111	9,920	68.7	6.9

¹¹ Source of Population Statistics: Statistics Canada, CANSIM.

¹² **Fire Rate** = Number of fires per 1,000 population

B.C. Fire Loss

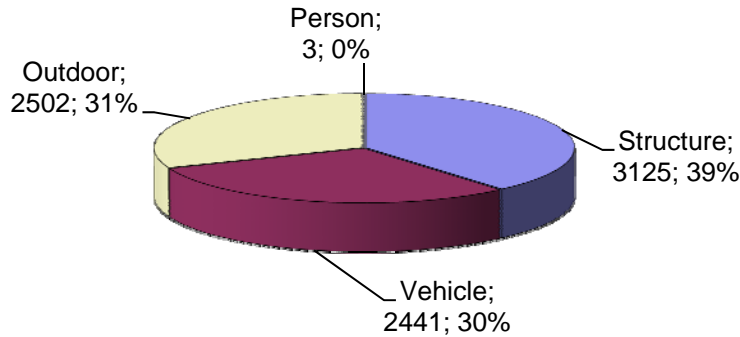
Municipality	Population ¹³	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹⁴
PRINCE RUPERT	15,281	78	3	1	499,703	6,406	32.7	5.1
PRINCETON	2,687	3	0	0	1,876,890	625,630	698.5	1.1
QUALICUM BEACH	8,899	13	0	0	1,441,289	110,868	162.0	1.5
QUESNEL	10,561	36	2	0	1,867,828	51,884	176.9	3.4
RADIUM HOT SPRINGS	921	10	0	0	25,612	2,561	27.8	10.9
REVELSTOKE	8,029	18	0	0	263,431	14,635	32.8	2.2
RICHMOND	176,599	228	0	0	5,640,353	24,738	31.9	1.3
ROSSLAND	3,653	6	0	0	41,000	6,833	11.2	1.6
SAANICH	110,737	246	4	0	6,744,842	27,418	60.9	2.2
SALMON ARM	17,150	60	0	0	743,662	12,394	43.4	3.5
SALMON ARM	16,815	4	0	0	33,514	8,379	2.0	0.2
SAYWARD	410	1	0	0	1,305	1,305	3.2	2.4
SECHELT	9,224	2	0	0	10,512	5,256	1.1	0.2
SICAMOUS	3,192	1	0	0	6,714	6,714	2.1	0.3
SIDNEY	11,849	7	0	0	249,945	35,706	21.1	0.6
SMITHERS	5,575	7	0	0	420,600	60,086	75.4	1.3
SOOKE	10,436	17	0	0	725,750	42,691	69.5	1.6
SPALLUMCHEEN	5,729	12	0	0	1,043,566	86,964	182.2	2.1
SPARWOOD	4,013	3	2	0	19,300	6,433	4.8	0.7
SQUAMISH	16,199	5	0	0	29,104	5,821	1.8	0.3
STEWART	670	1	0	0	215,000	215,000	320.9	1.5
SUMMERLAND	11,443	41	0	0	808,950	19,730	70.7	3.6
SURREY	402,150	791	58	3	31,477,872	39,795	78.3	2.0
TELKWA	1,443	1	0	0	22,289	22,289	15.4	0.7
TERRACE	12,660	105	2	0	800,708	7,626	63.2	8.3
TOFINO	1,906	1	0	0	2,268	2,268	1.2	0.5
TRAIL	7,744	12	1	0	831,255	69,271	107.3	1.5
TUMBLER RIDGE	2,698	2	0	1	97,750	48,875	36.2	0.7
UCLUELET	1,978	3	0	0	148,129	49,376	74.9	1.5
VALEMOUNT	1,388	1	0	0	10,000	10,000	7.2	0.7
VANCOUVER	587,891	152	0	2	2,481,974	16,329	4.2	0.3
VANDERHOOF	4,799	2	0	0	19,374	9,687	4.0	0.4
VERNON	36,785	30	0	0	2,560,676	85,356	69.6	0.8
VICTORIA	78,659	103	11	0	3,046,559	29,578	38.7	1.3
VIEW ROYAL	8,375	10	2	0	37,100	3,710	4.4	1.2
WEST VANCOUVER	44,272	24	2	0	2,118,753	88,281	47.9	0.5
WHISTLER	9,595	21	0	0	855,273	40,727	89.1	2.2
WHITE ROCK	19,545	2	0	0	12,807	6,404	0.7	0.1
WILLIAMS LAKE	11,961	101	0	0	2,887,697	28,591	241.4	8.4
OTHER ¹⁵	581,084	1,139	24	6	45,435,132	39,890	78.0	2.0
TOTAL	4,320,255	8,071	201	23	236,072,682	29,249	55.0	1.9

¹³ **Source of Population Statistics:** Statistics Canada, CANSIM.

¹⁴ **Fire Rate** = Number of fires per 1,000 population

¹⁵ Other refers to any municipal/non-municipal districts that were not listed from our population statistic source.

Fire Loss by Major Property Classification



Fire Loss by Major Property Complex (PC)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Other Special Use ¹⁶	5,420	26	3	54,218,675	67.15
Residential Use	2,125	170	20	132,964,330	26.33
Assembly Use	201	1	0	15,327,803	2.49
Manufacturing Use	152	2	0	15,824,853	1.88
Commercial/Mercantile Use	107	1	0	15,517,581	1.33
Business Use	30	0	0	1,238,710	0.37
Institutional Use	28	1	0	427,220	0.35
Storage Use	8	0	0	553,510	0.10
TOTAL	8,071	201	23	236,072,682	100.00

Fire Loss by Major Property Classes (PR)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Special Property & Transportation Equipment ¹⁷	4,664	15	2	25,134,860	57.79
Residential	2,303	171	20	140,919,454	28.53
Storage Property	194	2	0	8,856,578	2.40
Miscellaneous Property ¹⁸	323	8	1	5100102	4.00
Assemblies	235	0	0	19,315,953	2.91
Industrial Manufacturing Property	150	2	0	16,030,204	1.86
Mercantile	123	2	0	17,449,508	1.52
Business & Personal Service	47	0	0	2,470,631	0.58
Institutional	32	1	0	795,392	0.40
TOTAL	8,071	201	23	236,072,682	100.00

¹⁶ (PC) Other Special Use includes: parks public transportation terminals and agricultural property

¹⁷ (PR) Special Property & Transportation Equipment includes: outdoor property, connecting thoroughfares like bridges and tunnels, vacant property that is under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft and heavy machinery.

¹⁸ (IG) Miscellaneous Properties includes: laboratories, farm facilities, outbuildings, utilities, mining, communications and nucleonic.

Fire Loss by Major Sources of Ignition (IG)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Miscellaneous ¹⁹	4,577	58	13	130,339,664	56.71
Smoker's Material & "Open" Flame	1,468	47	3	31,561,693	18.19
Cooking Equipment	539	54	3	12274531	6.68
Heating Equipment	519	24	4	15551297	6.43
Electrical Equipment	421	8	0	26302675	5.22
Exposure	247	0	0	5095699	3.06
Electrical Distribution Equipment	225	7	0	10912720	2.79
Appliances & Equipment	75	3	0	4034403	0.93
TOTAL	8,071	201	23	236,072,682	100.00

Fire Loss by Major Acts or Omissions (AO)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Miscellaneous ²⁰	2,710	41	14	108,428,081	33.58
Incendiary	2,000	15	0	38,056,339	24.78
Mechanical/Electrical Failure/Malfunction	1,111	18	1	26,890,825	13.77
Human Failing	1027	64	5	26007342	12.72
Misuse of Source of Ignition	581	22	1	12540500	7.20
Misuse of Equipment	254	3	0	13516894	3.15
Misuse of Material Ignited	194	27	0	5367684	2.40
Construction, Design or Installation Deficiency	101	10	2	3835860	1.25
Vehicle Accident	93	1	0	1429157	1.15
TOTAL	8,071	201	23	236,072,682	100.00

Fire Loss by Major Materials First Ignited (MI)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Miscellaneous ²¹	4,526	62	16	142,505,337	56.08
Wood, Paper Products	952	11	1	21775704	11.80
Agricultural, Forestry Products	825	8	2	6728004	10.22
Flammable Liquids, Combustible Liquids	676	62	0	19080497	8.38
Clothing, Textiles	287	7	0	8805423	3.56
Furniture, Furnishings	275	30	3	12212880	3.41
Chemicals, Plastics, Metals	251	6	0	3679620	3.11
Structural Components, Finish Materials	213	3	0	19333247	2.64
Flammable Gases	66	12	1	1951970	0.82
TOTAL	8,071	201	23	236,072,682	100.00

¹⁹ **(IG) Miscellaneous** includes: fireworks, heat treatment equipment and commercial and industrial machinery.

²⁰ **(AO) Miscellaneous** includes: illegal operations/activities, exposure from Wildland fire, and tampering with safety devices.

²¹ **(MI) Miscellaneous** includes: barbecue briquettes and sticks, fire logs, coal, peat, hog fuel, creosote, electrical insulation, garbage, oily rags, artificial Christmas trees, gunpowder and wood treatment oil.

B.C. FIRE FACTS***Initial Detection of Fires (ID)***

	Fires	Injuries	Deaths	\$ Loss
CANNOT BE DETERMINED	384	7	6	25,439,814
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,914	22	3	25,832,465
INITIAL DETECTION - UNCLASSIFIED (DESCRIBE)	27	1	0	2,055,763
SMOKE ALARM DEVICE	263	18	2	7,890,895
SMOKE DETECTOR DEVICE	100	5	0	12,979,323
HEAT ALARM DEVICE	6	1	0	520,600
HEAT DETECTOR DEVICE	23	2	0	1,107,220
AUTOMATIC SPRINKLER SYSTEM	32	2	0	2,778,100
AUTOMATIC SYSTEM OTHER THAN SPRINKLER	5	0	0	10,601
VISUAL SIGHTING OR OTHER MEANS OF PERSONAL DETECTION (E.G. SMELL)	2,299	143	12	156,698,281
NO INITIAL DETECTION (EXTINGUISHED BEFORE DETECTION)	15	0	0	158,920
SPECIALTY DETECTOR (INCLUDES FLAME, BEAM, LINE)	3	0	0	600,700
TOTAL	8,071	201	23	236,072,682

Smoke Alarm Operation (SD)

	Fires	Injuries	Deaths	\$ Loss
ALARM OPERATION CANNOT BE DETERMINED	1,011	28	10	81,540,095
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,946	22	3	26,153,550
ALARM ACTIVATED - ASSISTED OCCUPANT(S) IN EVACUATING	408	38	0	24,151,724
ALARM ACTIVATED - INAUDIBLE	13	2	0	754,300
ALARM ACTIVATED - OCCUPANT(S) UNABLE TO RESPOND	22	3	1	453,385
ALARM ACTIVATED - UNNECESSARY TO EVACUATE OR UNOCCUPIED	184	6	0	10,336,145
ALARM ACTIVATED - OCCUPANT ACTION UNKNOWN	79	4	1	4,088,599
ALARM NOT ACTIVATED - UNSUITABLE LOCATION	136	5	0	4,162,041
ALARM NOT ACTIVATED - NO BATTERY OR BATTERY DEAD	76	11	1	3,419,396
ALARM NOT ACTIVATED - AC POWER NOT CONNECTED, DISABLE OR OFF	42	9	1	782,625
ALARM NOT ACTIVATED - MECHANICAL FAILURE	12	1	1	431,340
ALARM NOT ACTIVATED - UNKNOWN	354	29	0	27,368,006
NO SMOKE ALARM INSTALLED	788	43	5	52,431,476
TOTAL	8,071	201	23	236,072,682

Incendiary²² Fires by Property Group

	# of Fires	\$ Loss	# of Injuries	# of Deaths
ASSEMBLY				
Educational	2	2,000	0	0
INSTITUTIONAL				
None Reported	0	0	0	0
RESIDENTIAL				
One & two-family dwelling	48	1,262,524	0	0
Apartment	3	68,750	0	0
Business and personal service	1	2,700	0	0
Industrial manufacturing	1	58,028	0	0
Industrial storage	1	5,000	0	0
MISCELLANEOUS				
None Reported	0	0	0	0
TOTAL	56	1,399,002	0	0

Juvenile Fire Setters²³

Age of Children	# of Children	\$ Loss
1-4 years	0	0
5-8 years	9	1,500
9-12 years	28	405,560
13-18 years	43	818,295
Unknown age	9	470
TOTAL	89	1,225,825

Gender of Children	Amount
Female	11
Male	76
Unknown	2
TOTAL	89

Fires Related to Illegal Activity

	# of Fires	Total \$ Loss	Injuries	Deaths
Marijuana Grow Operation	18	1,938,500	1	0
Meth Lab	0	0	0	0
Cooking Marijuana	2	20,000	4	0
Theft/Arson (Miscoded)	1	50	0	0
Bylaw Infraction (Miscoded)	34	50	0	0
Not Specified	11	1,288,510	3	1
Other	2	0	0	0
TOTAL	68	3,247,110	8	1

Fires Related to School Property

# of Fires	Property Loss	Contents Loss	Total Loss	Injuries	Deaths	# Wildland/Interface Fires
69	475,685	18,652	494,337	0	0	0

²² **Incendiary** or set fires include arson, suspected incineration, riot, mischief or vandalism.

²³ **Juvenile Fire Setters** are children and/or adolescents (under 18 years of age) that engage in fire setting

GLOSSARY

Act or omission (AO)

The human element by which someone has done something (an act) or failed to do something (an omission). The act or omission indicates whether the fire was deliberate, neglectful or accidental.

INCENDIARY OR SET FIRES:

- Includes arson, suspected incendiarism, riot, mischief or vandalism.

MISUSE OF SOURCE OF IGNITION:

- Includes disposal of smoker's material, thawing, inadequate control of an open fire, children playing with source of ignition, welding or cutting too close to combustible material or torch too close to combustible material.

MISUSE OF MATERIAL IGNITED:

- Includes fuel spilled accidentally, improper fuelling technique, cleaning or washing parts, improper container, overheated cooking oil, combustible placed too close to heat, and improper storage.

CONSTRUCTION, DESIGN OR INSTALLATION DEFICIENCY:

- Includes construction or design deficiency, installation too close to a combustible, other installation deficiency or over-fusing.

MISUSE OF EQUIPMENT:

- Over fuelling, includes any misuse of equipment or tools.

HUMAN FAILING:

- Includes person asleep, temporary loss of judgement, physical disability, panic, influence of alcohol or drugs and ignorance of hazard.

Area of origin (OA)

The area of a building or vehicle where the fire started.

Fuel or energy (FU)

The fuel associated with the source of ignition. Includes coal, wood, fuel oil, gasoline, natural gas or other fuel gases, smoker's material, electricity, lightning or exposures.

Initial Detection (ID)

The means by which the fire was first detected.

Material first ignited (MI)

The actual material that ignites and creates the fire condition.

Property classification (PR)

The principal use or occupancy of the building.

ASSEMBLY:

- Property for the gathering of persons for civic, political, travel, religious, social, educational or recreational purposes.
- Includes theatres, amusement or recreation places, schools, colleges, universities, churches, social or sport clubs, libraries and museums, eating establishments and passenger terminals.

INSTITUTIONAL:

- Property for medical treatment, or care of persons suffering from illness, disease or infirmity, for the care of infants, convalescents or aged persons and for penal or corrective purposes. Includes prisons, jails, reformatories, homes for the aged, children's hospitals, hospitals and clinics.

RESIDENTIAL:

- Property in which sleeping accommodation is provided for normal residential purposes.
- Includes one and two family dwellings, apartments, rooming or boarding houses, hotels, motels, dormitories and mobile homes.

BUSINESS AND PERSONAL SERVICE:

- Property for conducting business. Includes offices, personal services such as hairdressing and data processing or storage facilities.

MERCANTILE:

- Property used for the display and sale of merchandise. Includes food and beverage sales, textile and clothing sales, furniture and appliance sales, books and specialty sales, recreational and hobby supply sales, repair shops, laundries, vehicle and boat sales and department or variety stores.

INDUSTRIAL MANUFACTURING PROPERTIES:

- Property where raw materials are transformed into new products and where the component parts of manufactured products are assembled. Includes chemical, petroleum, paint and plastic manufacturing; wood, furniture, and paper manufacturing; metal product and electrical equipment manufacturing; food processing; beverage, tobacco, soap and margarine manufacturing; textile manufacturing; footwear and wearing apparel manufacturing; and vehicle and related equipment manufacturing.

STORAGE PROPERTIES:

- Property used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals. Includes agricultural product storage; textile, fibre and clothing storage; processed food and beverage storage; flammable liquids, gas and petroleum products storage; wood, furniture, and paper products storage; chemical, paint and plastic storage; metal products, machinery, and electrical appliance storage and vehicle storage.

SPECIAL PROPERTY AND TRANSPORTATION EQUIPMENT:

- Mainly outdoor property and transport equipment. Includes outdoor property, piers, buildings under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft and other special equipment.

MISCELLANEOUS:

- Includes laboratories, farm facilities, outbuildings, utilities, glass and pottery manufacturing, mining, communications and nucleonics.

Property Type (PT)

The type of property involved in the fire, i.e. building, vehicle, outside area.

Source of ignition (IG)

The actual equipment, device or object which brings about ignition.

COOKING EQUIPMENT:

- Includes stove, range, food warming appliance, deep fat fryer, broiler and portable cooking unit.

HEATING EQUIPMENT:

- Includes central heating unit, service water heater, space heater, fireplace, chimney, flue pipe and steam or hot water pipe.

APPLIANCES AND EQUIPMENT:

- Includes dryer, air conditioning equipment, pressing iron and incinerator.

SMOKER'S MATERIAL AND 'OPEN' FLAMES:

- Includes cigarettes, pipes, cigars and/or matches, lighters when used in conjunction with smoking. Includes matches and lighters not associated with smoker's material, candles, cutting torches, welding equipment and hot ashes.

EXPOSURE:

- Includes exposure from an attached or detached structure, lumber yard, open fire, forest, grass and brush.

MISCELLANEOUS:

- Includes internal combustion engine, heat treatment equipment, industrial oven, tar pot, fireworks, conveyors, commercial and industrial machinery and chemical reaction.

Casualty

A person injured or killed accidentally as a direct result of a fire.

Death

A person killed as a direct result of a fire or a person who dies from a fire injury within one year following the date on which the injury was sustained.

Fire

Fire is any instance of destructive or uncontrolled burning of combustible solids, liquids or gases.

Fire does not include:

- lightning
- forest fire
- motor vehicle accidents
- explosion - steam/ammunition

Injury

A person injured as a direct result of a fire.

MINOR INJURY:

An injury that does not require hospitalization of more than a 24-hour period or absence from work of not more than one full day.

LIGHT INJURY:

An injury that required admission to a hospital for between 24 hours to 48 hours and/or absence from work for a period of two to fifteen days.

SERIOUS INJURY:

An injury that required admission to a hospital for a period of more than 48 hours and/or an absence from work for a period exceeding fifteen days.

Juvenile Fire Setter

Children and/or adolescents (under 18 years of age) that engage in fire setting

CONTACT INFORMATION

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Report prepared by the Office of the Fire Commissioner

If you have any questions or concerns regarding this report, or require more detailed statistical information, we encourage you to contact us.

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