



Ministry of
Public Safety
and Solicitor General

ANNUAL STATISTICAL REPORT 2005

British Columbia Office of the Fire Commissioner

TABLE OF CONTENTS

Table of Contents.....	1
Introduction.....	2
Fire Casualties.....	3
<i>British Columbia Fire Injury and Death Rates</i>	3
<i>Casualties by Month</i>	3
Location of Fire Deaths	3
<i>Fire Related Injuries and Deaths by Major Property Classification</i>	4
<i>Major Causes of Fire Injuries</i>	4
<i>Status, Age and Gender of Casualties</i>	4
<i>Circumstances Contributing to Fire Casualties</i>	5
B.C. Fire Loss.....	6
<i>Fire Loss in British Columbia 1996-2005</i>	6
<i>Per Capita Loss in British Columbia 1996-2005</i>	6
<i>Per Capita Fires by Location</i>	7
<i>Fire Loss by Major Property Classification</i>	10
<i>Fire Loss by Major Property Complex (PC)</i>	10
<i>Fire Loss by Major Property Classes (PR)</i>	11
<i>Fire Loss by Major Sources of Ignition (IG)</i>	11
<i>Fire Loss by Major Acts or Omissions (AO)</i>	12
<i>Fire Loss by Major Materials First Ignited (MI)</i>	12
B.C. Fire Facts.....	13
<i>Initial Detection of Fires (ID)</i>	13
<i>Smoke Alarm Operation (SD)</i>	13
<i>Incendiary Fires by Property Group</i>	14
<i>Juvenile Fire Setters</i>	14
<i>Fires Related to Illegal Activity</i>	14
<i>Fires Related to School Property</i>	14
Glossary.....	15
Contact information	19

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
1996	3,899,213	432	27	0.7
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
10 Year Average	4,078,101	295.2	34.5	0.85

Casualties by Month

MONTH	FIRES ⁴	\$ LOSS	INJURED	DEATHS
JANUARY	647	19,469,241	22	2
FEBRUARY	570	16,922,590	20	1
MARCH	630	17,659,748	19	10
APRIL	702	12,192,764	13	1
MAY	750	15,413,024	10	0
JUNE	548	15,024,580	19	0
JULY	654	41,856,195	14	4
AUGUST	710	22,612,746	11	1
SEPTEMBER	567	12,490,138	21	6
OCTOBER	527	9,537,070	11	3
NOVEMBER	477	14,654,126	14	5
DECEMBER	467	15,152,933	21	2
TOTAL	7,249	212,985,155	195	35

Location of Fire Deaths	
Coquitlam	1
Dawson Creek	1
Duncan	1
Fort St John	1
Kamloops	1
Kelowna	1
Nanaimo	4
Prince Rupert	1
Revelstoke	1
Richmond	2
Surrey	5
Vancouver	1
Victoria	1
Williams Lake	3
Langley	1
Powell River	1
Anahim Lake	3
Comox	1
Fort Nelson	1
Grand Forks	1
Moberly Lake	1
Kootenay Region	1
100 Mile House	1
Total	35

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

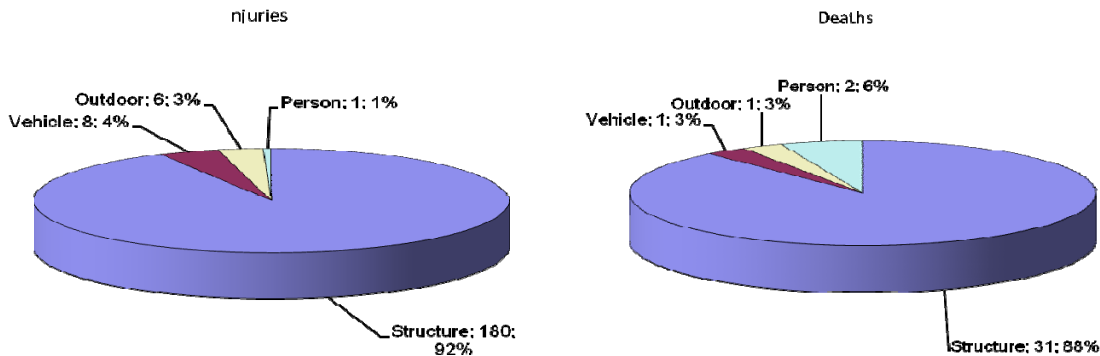
Prepared by: Population Section, BC Stats, Ministry of Labour and Citizens' Services, Government of British Columbia.

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	\$ Loss
FC100 - SMOKE INHALATION	70	78	14	14,591,057
FC101 - BURNS RESULTING FROM FIRE AND FLAMES	57	63	4	1,987,770
FC102 - BURNS RESULTING FROM HOT SUBSTANCES	16	16	0	5,862,100
FC103 - STRUCK BY OBJECTS OR PERSONS	3	3	0	2,199,070
FC104 - INJURY CAUSED BY FALLS	4	3	1	440,000
FC105 - INJURY CAUSED BY EXPLOSIVES	2	3	0	25,000
FC107 - UNCLASSIFIED	15	15	1	12,246,070
FC108 - UNKNOWN	24	14	15	491,020
TOTAL	191	195	35	37,842,087

Status, Age and Gender of Casualties

	Injured	Deaths
STATUS OF CASUALTY		
Firefighter	20	1
Civilian	175	34
AGE OF CASUALTY		
Unknown	18	14
Birth - 2 Years	7	1
3 - 4 Years	1	0
5 - 6 Years	3	0
7 - 8 Years	1	0
9 - 10 Years	0	0
11 - 12 Years	0	0
13 - 14 Years	1	0
15 - 16 Years	5	0
17 - 18 Years	2	0
19 - 20 Years	6	0
21 - 30 Years	28	2
31 - 40 Years	33	0
41 - 50 Years	34	3
51 - 60 Years	22	8
61 - 70 Years	13	4
71 - 80 Years	6	2
81 - 90 Years	2	0
over 90 Years	13	1
GENDER OF CASUALTY		
Male	128	23
Female	67	12

Circumstances Contributing to Fire Casualties

NATURE OF CASUALTY	Fires	Injuries	Deaths	\$ Loss
FC001 - DEATH	28	0	35	6,856,200
FC002 - LIGHT INJURY (HOSP. 1-2 DAYS AND/OR OFF WORK 1-15 DAYS)	49	56	0	6,946,381
FC003 - MINOR INJURY (LESS THAN ONE DAY HOSPITAL OR OFF WORK)	95	118	0	9,022,316
FC004 - SERIOUS INJURY (HOSP. 3+ DAYS AND/OR OFF WORK 15+ DAYS)	19	21	0	2,869,070
TOTAL	191	195	35	25,693,967

CONDITION OF CASUALTY	Fires	Injuries	Deaths	\$ Loss
FC010 - CONDITION OF CASUALTY UNKNOWN	35	25	22	5,224,650
FC011 - ASLEEP AT TIME OF FIRE	26	24	5	1,381,910
FC012 - BEDRIDDEN OR OTHER PHYSICAL HANDICAP	2	1	1	1,500
FC013 - IMPAIRMENT BY ALCOHOL, DRUGS, OR MEDICATION	17	15	3	590,420
FC014 - AWAKE OR NO PHYSICAL OR MENTAL IMPAIRMENT AT TIME OF FIRE	74	87	2	16,422,247
FC015 - UNDER RESTRAINT OR DETENTION	1	1	0	1,500
FC016 - TOO YOUNG TO REACT TO FIRE EMERGENCY	0	0	0	0
FC017 - MENTAL HANDICAP - INCLUDES SENILITY	1	1	0	3,500
FC018 - CHILD LEFT UNATTENDED	0	0	0	0
FC019 - UNCLASSIFIED	32	41	2	2,596,040
TOTAL	188	195	35	26,221,767

ACTION OF CASUALTY	Fires	Injuries	Deaths	\$ Loss
FC020 - ACTION OF CASUALTY UNKNOWN	38	25	22	5,145,750
FC021 - INJURED WHILE ATTEMPTING TO ESCAPE	29	28	7	4,003,450
FC022 - OVER-EXERTION, HEART ATTACK	5	3	2	5,716,400
FC023 - VOLUNTARILY ENTERED OR REMAINED FOR RESCUE PURPOSE	13	15	0	558,950
FC024 - VOLUNTARILY ENTERED OR REMAINED FOR FIRE FIGHTING	71	74	2	9,639,401
FC025 - VOLUNTARILY ENTERED OR REMAINED TO SAVE PERSONAL PROPERTY	12	12	1	6,739,316
FC026 - LOSS OF JUDGEMENT OR PANIC	11	11	0	158,150
FC027 - RECEIVED DELAYED WARNING	0	0	0	0
FC028 - DID NOT ACT	12	13	1	233,470
FC029 - UNCLASSIFIED	14	14	0	6,522,350
TOTAL	205	195	35	38,717,237

CAUSE OF FAILURE TO ESCAPE	Fires	Injuries	Deaths	\$ Loss
FC050 - UNKNOWN	37	34	17	5,406,350
FC051 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH VERTICAL OPENINGS	6	3	5	843,250
FC052 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH HORIZONTAL OPENINGS	7	5	6	2,575,800
FC053 - HIGH FLAME SPREAD OF COMBUSTIBLE INTERIOR FINISH OF WALLS, CEILINGS	5	5	0	422,500
FC054 - BUILDING COLLAPSE	0	0	0	0
FC055 - FALLING DEBRIS	2	2	0	7,299,070
FC056 - EXPLOSION	5	8	0	76,000
FC057 - EXIT LOCKED, BLOCKED OR OBSTRUCTED	0	0	0	0
FC058 - OUTDOOR FIRE INCLUDES FOREST/BRUSH FIRES	3	3	0	15,000
FC059 - UNCLASSIFIED OR NOT APPLICABLE	123	135	7	15,336,047
TOTAL	188	195	35	31,974,017

B.C. FIRE LOSS

Fire Loss in British Columbia 1996-2005

Year	Fires	Injuries	Deaths	\$ Loss
1996	7,494	432	27	165,040,632
1997	6,415	373	41	202,644,692
1998	6,674	333	30	167,096,340
1999	6,037	298	32	167,334,641
2000	6,315	343	42	157,866,569
2001	6,035	288	44	202,889,229
2002	6,703	270	41	214,056,071
2003	6,264	212	23	483,970,947 ⁵
2004	7,614	208	30	167,285,613
2005	7,249	195	35	212,985,155

Per Capita Loss in British Columbia 1996-2005

Year	Population ⁶	Fires	Fire Rate ⁷	\$ Loss	\$ Loss/Capita
1996	3,899,213	7,494	1.92	165,040,632	42.33
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	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
10 Year Average	4,078,101	6,680	1.64	214,116,989	52.35

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

Per Capita Fires by Location

Municipality	Population ⁸	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ⁹
100 MILE HOUSE	1,826	1	0	1	0	0	0.0	0.5
ABBOTSFORD	128,088	64	0	0	1,780,089	27,814	13.9	0.5
ALERT BAY	611	2	0	0	43,144	21,572	70.6	3.3
ARMSTRONG	4,554	17	0	0	260,484	15,323	57.2	3.7
ASHCROFT	1,836	1	0	0	1,200	1,200	0.7	0.5
BOWEN ISLAND	3,424	2	0	0	7,700	3,850	2.2	0.6
BURNABY	204,551	128	13	0	3,862,822	30,178	18.9	0.6
BURNS LAKE	2,173	3	0	0	167,297	55,766	77.0	1.4
CACHE CREEK	1,134	3	0	0	3,613	1,204	3.2	2.6
CAMPBELL RIVER	30,806	85	2	0	1,058,440	12,452	34.4	2.8
CASTLEGAR	7,820	29	1	0	182,184	6,282	23.3	3.7
CENTRAL SAANICH	16,819	35	2	0	458,835	13,110	27.3	2.1
CHASE	2,568	5	0	0	1,370,500	274,100	533.7	1.9
CHETWYND	2,770	1	0	0	373,441	373,441	134.8	0.4
CITY OF CHILLIWACK	70,513	206	11	0	6,330,050	30,728	89.8	2.9
CLINTON	654	2	0	0	0	0	0.0	3.1
COLDSTREAM	10,101	25	0	0	613,000	24,520	60.7	2.5
COLWOOD	15,122	55	0	0	76,419	1,389	5.1	3.6
COMOX	12,833	4	0	0	58,671	14,668	4.6	0.3
COQUITLAM CITY	119,451	221	5	1	2,127,949	9,629	17.8	1.9
COURTENAY	21,798	67	0	0	1,101,376	16,438	50.5	3.1
CRANBROOK	19,771	62	0	0	1,534,348	24,748	77.6	3.1
CRESTON	5,097	25	0	0	1,699,359	67,974	333.4	4.9
CUMBERLAND	2,817	2	0	0	45,500	22,750	16.2	0.7
DAWSON CREEK	11,393	37	0	1	11,060	299	1.0	3.2
DELTA	102,642	104	5	0	1,769,949	17,019	17.2	1.0
DISTRICT OF LAKE COUNTRY	10,366	22	0	0	813,742	36,988	78.5	2.1
DUNCAN	4,898	13	0	1	298,396	22,954	60.9	2.7
ELKFORD	2,670	10	0	0	255,000	25,500	95.5	3.7
ENDERBY	3,072	9	0	0	102,900	11,433	33.5	2.9
ESQUIMALT	17,188	13	0	0	442,036	34,003	25.7	0.8
FERNIE	5,126	19	4	0	19,270	1,014	3.8	3.7
FORT NELSON	4,822	18	0	0	348,034	19,335	72.2	3.7
FORT ST. JAMES	2,003	1	0	0	101,854	101,854	50.9	0.5
FORT ST. JOHN	17,779	41	1	1	620,359	15,131	34.9	2.3
FRASER LAKE	1,366	1	0	0	2,100	2,100	1.5	0.7
GIBSONS	4,349	1	0	0	44,086	44,086	10.1	0.2
GOLD RIVER	1,356	2	0	0	300	150	0.2	1.5
GOLDEN	4,398	8	0	0	171,192	21,399	38.9	1.8
GRAND FORKS	4,200	27	1	0	496,750	18,398	118.3	6.4
GREENWOOD	668	5	0	0	267,962	53,592	401.1	7.5
HARRISON HOT SPRINGS	1,595	4	0	0	209,051	52,263	131.1	2.5
HAZELTON	341	1	0	0	9,020	9,020	26.5	2.9
HIGHLANDS DISTRICT	2,114	1	0	0	0	0	0.0	0.5
HOPE DISTRICT	6,590	54	3	0	628,709	11,643	95.4	8.2
HOUSTON	3,732	6	0	0	1,225,842	204,307	328.5	1.6
HUDSON'S HOPE	1,157	4	0	0	230,000	57,500	198.8	3.5
INVERMERE	3,256	1	0	0	12,420	12,420	3.8	0.3

⁸ **Source of Population Statistics:** Statistics Canada, CANSIM.

⁹ **Fire Rate** = Number of fires per 1,000 population

Municipality	Population ¹⁰	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹¹
KAMLOOPS	82,703	154	4	1	1,627,731	10,570	19.7	1.9
KASLO	1,105	1	0	0	2,556	2,556	2.3	0.9
KELOWNA	109,477	209	4	1	4,120,700	19,716	37.6	1.9
KENT	5,679	25	0	0	50,301	2,012	8.9	4.4
KEREMEOS	1,315	4	0	0	115,585	28,896	87.9	3.0
KIMBERLEY	7,048	3	0	0	10,940	3,647	1.6	0.4
KITIMAT	10,586	28	1	0	1,751,927	62,569	165.5	2.6
LADYSMITH	7,291	28	0	0	16,138	576	2.2	3.8
LAKE COWICHAN	3,029	1	0	0	7,072	7,072	2.3	0.3
LANGLEY CITY	25,712	40	2	0	2,603,990	65,100	101.3	1.6
LANGLEY TOWNSHIP	97,113	316	8	1	13,480,784	42,661	138.8	3.3
LANTZVILLE	3,819	3	0	0	31,345	10,448	8.2	0.8
LILLOOET	2,755	2	0	0	51,392	25,696	18.7	0.7
LOGAN LAKE	2,313	10	0	0	7,400	740	3.2	4.3
LUMBY	1,738	17	0	0	355,520	20,913	204.6	9.8
MACKENZIE	5,453	30	0	0	247,746	8,258	45.4	5.5
MAPLE RIDGE	73,748	36	3	0	1,124,526	31,237	15.2	0.5
MASSET	967	1	0	0	97,000	97,000	100.3	1.0
MCBRIDE	752	1	0	0	4,000	4,000	5.3	1.3
MERRITT	7,561	9	0	0	4,932	548	0.7	1.2
METCHOSIN	500	2	0	0	24,152	12,076	48.3	4.0
MISSION	34,738	30	0	0	2,863,838	95,461	82.4	0.9
MONTROSE	1,086	1	0	0	12,000	12,000	11.0	0.9
NAKUSP	1,779	11	0	0	14,540	1,322	8.2	6.2
NANAIMO	79,616	410	4	4	2,534,908	6,183	31.8	5.1
NELSON	9,796	42	1	0	237,937	5,665	24.3	4.3
NEW DENVER	549	1	0	0	1,938	1,938	3.5	1.8
NEW HAZELTON	758	1	0	0	80,000	80,000	105.5	1.3
NEW WESTMINSTER	57,572	156	6	0	993,136	6,366	17.3	2.7
NORTH COWICHAN	28,516	20	1	0	718,771	35,939	25.2	0.7
NORTH SAANICH	11,273	1	0	0	146,000	146,000	13.0	0.1
NORTH VANCOUVER CITY	48,037	116	1	0	4,766,108	41,087	99.2	2.4
NORTH VANCOUVER DISTRICT	87,072	79	0	0	4,757,639	60,223	54.6	0.9
OAK BAY	18,311	74	1	0	142,775	1,929	7.8	4.0
OLIVER	4,379	3	0	0	73,019	24,340	16.7	0.7
OSOYOOS	4,800	9	0	0	639,664	71,074	133.3	1.9
PARKSVILLE	11,707	4	0	0	187,450	46,863	16.0	0.3
PEACHLAND	5,230	14	0	0	918,140	65,581	175.6	2.7
PENTICTON	33,057	185	0	0	2,529,069	13,671	76.5	5.6
PITT MEADOWS	16,780	5	0	0	417,154	83,431	24.9	0.3
PORT ALBERNI	18,686	36	2	0	1,002,649	27,851	53.7	1.9
PORT ALICE	1,128	6	0	0	138,650	23,108	122.9	5.3
PORT CLEMENTS	533	2	0	0	6,000	3,000	11.3	3.8
PORT COQUITLAM	57,666	98	7	0	918,038	9,368	15.9	1.7
PORT HARDY	4,596	3	0	0	15,727	5,242	3.4	0.7
PORT MCNEILL	2,927	4	0	0	10,777	2,694	3.7	1.4
PORT MOODY	28,639	8	0	0	806,694	100,837	28.2	0.3
POUCE COUPE	887	6	2	0	99,035	16,506	111.7	6.8

¹⁰ Source of Population Statistics: Statistics Canada, CANSIM.

¹¹ Fire Rate = Number of fires per 1,000 population

B.C. Fire Loss

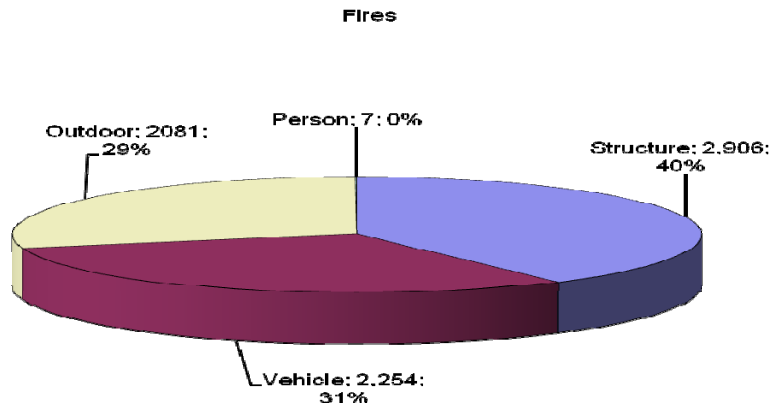
Municipality	Population ¹²	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss/ Capita	Fire Rate ¹³
POWELL RIVER	13,830	29	0	1	1,926,775	66,441	139.3	2.1
PRINCE GEORGE	77,151	610	3	0	6,922,627	11,349	89.7	7.9
PRINCE RUPERT	14,972	126	9	1	1,317,552	10,457	88.0	8.4
PRINCETON	2,687	3	0	0	110,970	36,990	41.3	1.1
QUALICUM BEACH	8,806	2	0	0	4,750	2,375	0.5	0.2
QUESNEL	10,485	37	0	0	719,009	19,433	68.6	3.5
RADIUM HOT SPRINGS	813	11	0	0	221,000	20,091	271.8	13.5
REVELSTOKE	7,963	24	0	1	194,357	8,098	24.4	3.0
RICHMOND	175,791	39	0	2	24,975,097	640,387	142.1	0.2
ROSSLAND	3,724	2	0	0	55,000	27,500	14.8	0.5
SAANICH	110,382	185	15	0	4,756,091	25,709	43.1	1.7
SALMON ARM	16,800	30	3	0	168,704	5,623	10.0	1.8
SAYWARD	407	1	0	0	1,888	1,888	4.6	2.5
SECHELT	8,899	4	0	0	156,899	39,225	17.6	0.4
SIDNEY	11,861	8	0	0	348,956	43,620	29.4	0.7
SMITHERS	5,508	9	0	0	287,500	31,944	52.2	1.6
SOOKE	10,116	15	1	0	3,210,595	214,040	317.4	1.5
SPALLUMCHEEN	5,706	17	0	0	405,834	23,873	71.1	3.0
SPARWOOD	3,972	2	0	0	1,280	640	0.3	0.5
SQUAMISH	15,724	6	0	0	158,737	26,456	10.1	0.4
STEWART	695	6	0	0	630,000	105,000	906.5	8.6
SUMMERLAND	11,404	36	2	0	347,369	9,649	30.5	3.2
SURREY	395,664	808	45	5	29,970,501	37,092	75.7	2.0
TERRACE	12,554	37	0	0	2,319,326	62,684	184.7	2.9
TOFINO	1,846	1	0	0	12,000	12,000	6.5	0.5
TRAIL	7,939	24	2	0	173,309	7,221	21.8	3.0
VALEMOUNT	1,250	2	0	0	102,000	51,000	81.6	1.6
VANCOUVER	583,191	128	0	1	4,481,898	35,015	7.7	0.2
VANDERHOOF	4,727	2	0	0	844,395	422,198	178.6	0.4
VERNON	36,228	48	2	0	1,078,020	22,459	29.8	1.3
VICTORIA	78,296	147	4	1	1,872,150	12,736	23.9	1.9
WEST VANCOUVER	44,143	21	1	0	484,500	23,071	11.0	0.5
WHISTLER	9,360	19	0	0	616,729	32,459	65.9	2.0
WHITE ROCK	19,699	3	0	0	6,135	2,045	0.3	0.2
WILLIAMS LAKE	11,871	76	0	3	5,030,347	66,189	423.8	6.4
OTHER ¹⁴	610,782	1,039	13	8	37,069,009	35,678	60.7	1.7
TOTAL	4,260,246	7,249	195	35	212,985,155	29,381	50.0	1.7

¹² **Source of Population Statistics:** Statistics Canada, CANSIM.

¹³ **Fire Rate** = Number of fires per 1,000 population

¹⁴ **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
Assembly Use	176	1	0	7,062,043	2.43
Institutional Use	31	2	0	342,740	0.43
Residential Use	1,926	167	28	87,302,537	26.57
Business Use	26	0	0	5,606,008	0.36
Commercial/Mercantile Use	99	2	0	6,298,389	1.37
Manufacturing Use	142	1	1	28,054,920	1.96
Storage Use	10	0	0	106,100	0.14
Other Special Use ¹⁵	4,839	22	6	78,212,418	66.75
TOTAL	7,249	195	35	212,985,155	100.00

¹⁵ (PC) **Other Special Use** includes: parks, public transportation terminals and agricultural property.

Fire Loss by Major Property Classes (PR)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Assemblies	213	1	0	9,488,225	2.94
Institutional	36	1	0	363,404	0.50
Residential	2,131	169	29	102,332,926	29.40
Business & Personal Service	48	1	0	8,063,026	0.66
Mercantile	103	1	0	5,952,548	1.42
Industrial Manufacturing Property	139	1	1	29,170,962	1.92
Storage Property	158	2	0	24,719,393	2.18
Special Property & Transportation Equipment ¹⁶	4,131	10	2	19,183,367	56.99
Miscellaneous Property ¹⁷	290	9	3	13,711,304	4.00
TOTAL	7,249	195	35	212,985,155	100.00

Fire Loss by Major Sources of Ignition (IG)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Cooking Equipment	573	71	2	11,073,160	7.90
Heating Equipment	432	10	2	12,250,129	5.96
Appliances & Equipment	162	8	0	3,384,266	2.23
Electrical Distribution Equipment	405	7	1	10,669,993	5.59
Electrical Equipment	145	6	2	6,480,481	2.00
Smoker's Material & "Open" Flame	1,239	45	5	26,186,167	17.09
Exposure	177	0	0	2,492,176	2.44
Miscellaneous ¹⁸	4,116	48	23	140,448,783	56.78
TOTAL	7,249	195	35	212,985,155	100.00

¹⁶ (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.

¹⁷ (PR) **Miscellaneous Properties** include: laboratories, farm facilities, outbuildings, utilities, mining, communications and nucleonic.

¹⁸ (IG) **Miscellaneous** includes: fireworks, heat treatment equipment and commercial and industrial machinery.

Fire Loss by Major Acts or Omissions (AO)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Incendiary	1,629	7	0	22,330,726	22.5
Misuse of Source of Ignition	550	12	1	14,557,139	7.6
Misuse of Material Ignited	207	34	1	5,837,125	2.9
Mechanical/Electrical Failure/Malfunction	1,103	11	0	17,977,195	15.2
Construction, Design or Installation Deficiency	104	2	0	5,586,024	1.4
Misuse of Equipment	259	4	2	4,457,147	3.6
Human Failing	995	81	8	21,679,541	13.7
Vehicle Accident	62	4	0	689,046	0.9
Miscellaneous ¹⁹	2,340	40	23	119,871,212	32.3
TOTAL	7,249	195	35	212,985,155	100.0

Fire Loss by Major Materials First Ignited (MI)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Structural Components, Finish Materials	209	6	1	13,888,836	2.9
Furniture, Furnishings	217	14	2	6,526,309	3.0
Clothing, Textiles	260	16	4	9,098,928	3.6
Wood, Paper Products	833	9	2	11,922,004	11.5
Flammable Liquids, Combustible Liquids	550	55	0	13,902,146	7.6
Flammable Gases	60	12	0	859,942	0.8
Chemicals, Plastics, Metals	203	7	0	2,801,656	2.8
Agricultural, Forestry Products	688	12	0	11,310,970	9.5
Miscellaneous ²⁰	4,229	64	26	142,674,364	58.3
TOTAL	7,249	195	35	212,985,155	100.0

¹⁹ (AO) Miscellaneous includes: illegal operations/activities, exposure fire from wildland fire and tampering with safety devices.

²⁰ (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
INITIAL DETECTION UNKNOWN	1	0	0	6,500
CANNOT BE DETERMINED	434	10	11	28,511,573
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,335	15	4	20,115,659
INITIAL DETECTION - UNCLASSIFIED (DESCRIBE)	23	0	1	708,250
SMOKE ALARM DEVICE	234	31	2	10,442,307
SMOKE DETECTOR DEVICE	90	5	0	6,527,363
HEAT ALARM DEVICE	5	0	0	215,153
HEAT DETECTOR DEVICE	16	1	0	21,730,010
AUTOMATIC SPRINKLER SYSTEM	36	2	0	1,150,700
AUTOMATIC SYSTEM OTHER THAN SPRINKLER	6	0	3	4,215,500
VISUAL SIGHTING OR OTHER MEANS OF PERSONAL DETECTION (E.G. SMELL)	2,044	131	12	119,076,700
NO INITIAL DETECTION (EXTINGUISHED BEFORE DETECTION)	16	0	1	136,440
SPECIALTY DETECTOR (INCLUDES FLAME, BEAM, LINE)	9	0	1	149,000
TOTAL	7,249	195	35	212,985,155

Smoke Alarm Operation (SD)

	Fires	Injuries	Deaths	\$ Loss
NO SMOKE ALARM INSTALLED	1	0	0	6,500
ALARM OPERATION CANNOT BE DETERMINED	1,070	39	22	63,901,671
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,342	15	4	20,172,159
ALARM ACTIVATED - ASSISTED OCCUPANT(S) IN EVACUATING	371	47	2	33,971,906
ALARM ACTIVATED - INAUDIBLE	13	1	0	582,250
ALARM ACTIVATED - OCCUPANT(S) UNABLE TO RESPOND	9	1	0	74,600
ALARM ACTIVATED - UNNECESSARY TO EVACUATE OR UNOCCUPIED	150	5	0	25,271,386
ALARM ACTIVATED - OCCUPANT ACTION UNKNOWN	52	11	0	1,339,254
ALARM NOT ACTIVATED - UNSUITABLE LOCATION	90	0	0	1,755,239
ALARM NOT ACTIVATED - NO BATTERY OR BATTERY DEAD	72	6	0	2,532,741
ALARM NOT ACTIVATED - AC POWER NOT CONNECTED, DISABLE OR OFF	31	11	0	719,236
ALARM NOT ACTIVATED - MECHANICAL FAILURE	8	2	0	163,800
ALARM NOT ACTIVATED - UNKNOWN	306	14	5	24,367,913
NO SMOKE ALARM INSTALLED	734	43	2	38,126,500
TOTAL	7,249	195	35	212,985,155

Incendiary²¹ Fires by Property Group

	# of Fires	\$ Loss	# of Injuries	# of Deaths
ASSEMBLY				
Educational	2	75,000	0	0
INSTITUTIONAL				
Other	1	25,000	0	0
RESIDENTIAL				
One & two-family dwelling	41	326,833	0	0
Apartment	1	500	0	0
Hotel, motel, rooming house	1	10,000	0	0
MISCELLANEOUS				
Automobile	1	6,500	0	0
TOTAL	47	443,833	0	0

Juvenile²² Fire Setters

Age of Children	# of Children	\$ Loss
1-4 years	0	0
5-8 years	15	660
9-12 years	40	62,644
13-18 years	55	19,308
Unknown age	2	2
TOTAL	112	\$82,614

Gender of Children	Amount
Female	20
Male	96
Unknown	2
TOTAL	118

Fires Related to Illegal Activity

	# of Fires	Total \$ Loss	Injuries	Deaths
Marijuana Grow Operation	24	1,979,000	1	0
Meth Lab	1	180,000	0	0
Cooking Marijuana	3	6,100	2	0
Fireworks	1	300	0	0
Bylaw Infraction (Miscoded)	26	60,000	0	0
Not Specified	1	1,000	0	0
Other	5	21400	3	0
TOTAL	61	2,247,800	6	0

Fires Related to School Property

# of Fires	Property Loss	Contents Loss	Total Loss	Injuries	Deaths
79	872,452	210,310	1,082,762	1	0

²¹ **Incendiary** or set fires include arson, suspected incendiarism, riot, mischief or vandalism.

²² **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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