



Ministry of
Public Safety
and Solicitor General

ANNUAL STATISTICAL REPORT 2004

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
1995	3,805,056	414	36	1.0
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
10 Year Average	4,032,582	317	34.6	0.9

Fire Events by Month, 2004

Month	Fires ⁴	\$ Loss	Injured	Deaths
JANUARY	601	13,067,183	25	6
FEBRUARY	525	9,260,889	17	3
MARCH	680	23,821,685	22	0
APRIL	892	15,186,781	23	1
MAY	696	11,372,057	9	2
JUNE	772	14,063,131	18	4
JULY	710	11,198,343	16	1
AUGUST	572	13,371,457	15	5
SEPTEMBER	473	10,063,714	12	2
OCTOBER	663	11,723,900	14	1
NOVEMBER	526	16,634,409	12	3
DECEMBER	512	18,037,720	25	2
TOTAL	7,622	167,801,269	208	30

LOCATION OF FIRE DEATHS

Armstrong	1
Bulkley-Netchako	1
Burnaby	1
Campbell River	1
Coquitlam	2
Courtenay	1
Eagle Bay	1
Esquimalt	1
Grand Forks	1
Hope	1
Jaffray	1
Kelowna	1
Kitimat	1
Langley	2
Merritt	1
Nanaimo	3
North Oyster	1
North Vancouver	1
Penticton	2
Prince George	1
Richmond	2
Sidney	1
Surrey	1
Trail	1
TOTAL	30

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

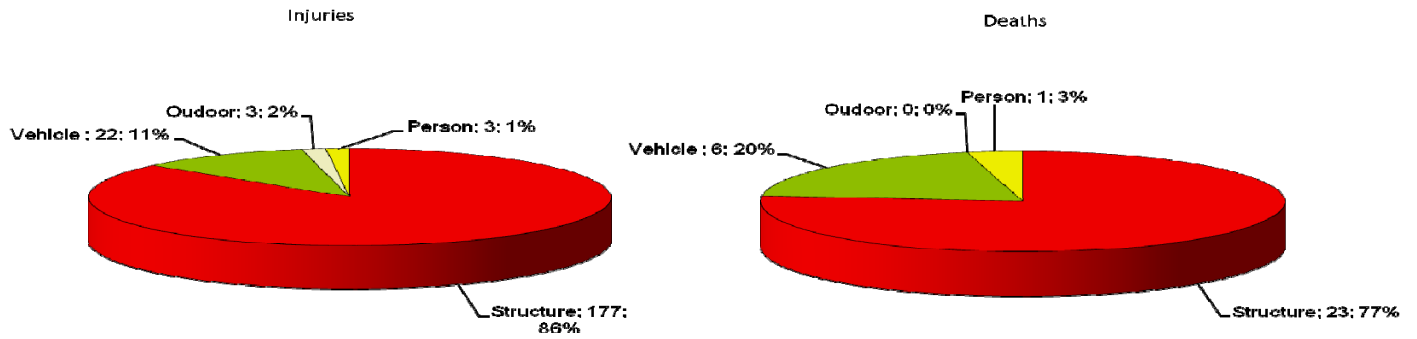
Prepared by: Population Section, BC Stats, Ministry of Labour and Citizens' Services, Government of British Columbia.

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	73	76	14
FC101 - BURNS RESULTING FROM FIRE AND FLAMES	84	90	6
FC102 - BURNS RESULTING FROM HOT SUBSTANCES	11	11	0
FC103 - STRUCK BY OBJECTS OR PERSONS	0	0	0
FC104 - INJURY CAUSED BY FALLS	5	5	0
FC105 - INJURY CAUSED BY EXPLOSIVES	3	4	0
FC107 - UNCLASSIFIED	11	12	0
FC108 - UNKNOWN	19	10	10
TOTAL	206	208	30

Status, Age and Gender of Casualties

	Injuries	Deaths
STATUS OF CASUALTY		
Firefighter	11	2
Civilian	197	28
AGE OF CASUALTY		
Unknown	11	4
Birth - 2 Years	2	0
3 - 4 Years	0	0
5 - 6 Years	0	0
7 - 8 Years	1	0
9 - 10 Years	0	0
11 - 12 Years	3	0
13 - 14 Years	6	1
15 - 16 Years	4	0
17 - 18 Years	7	0
19 - 20 Years	9	0
21 - 30 Years	48	0
31 - 40 Years	40	6
41 - 50 Years	44	6
51 - 60 Years	19	4
61 - 70 Years	6	6
71 - 80 Years	5	2
81 - 90 Years	2	1
over 90 Years	1	0
GENDER OF CASUALTY		
Male	130	24
Female	78	6

Circumstances Contributing to Fire Casualties

NATURE OF CASUALTY	Fires	Injuries	Deaths
FC001 - DEATH	29	0	30
FC002 - LIGHT INJURY (HOSP. 1-2 DAYS AND/OR OFF WORK 1-15 DAYS)	46	54	0
FC003 - MINOR INJURY (LESS THAN ONE DAY HOSPITAL OR OFF WORK)	112	128	0
FC004 - SERIOUS INJURY (HOSP. 3+ DAYS AND/OR OFF WORK 15+ DAYS)	24	26	0
TOTAL	211	208	30

CONDITION OF CASUALTY	Fires	Injuries	Deaths
FC010 - CONDITION OF CASUALTY UNKNOWN	33	22	12
FC011 - ASLEEP AT TIME OF FIRE	27	27	4
FC012 - BEDRIDDEN OR OTHER PHYSICAL HANDICAP	6	3	3
FC013 - IMPAIRMENT BY ALCOHOL, DRUGS, OR MEDICATION	18	18	4
FC014 - AWAKE OR NO PHYSICAL OR MENTAL IMPAIRMENT AT TIME OF FIRE	87	102	3
FC015 - UNDER RESTRAINT OR DETENTION	2	2	0
FC016 - TOO YOUNG TO REACT TO FIRE EMERGENCY	1	1	0
FC017 - MENTAL HANDICAP - INCLUDES SENILITY	2	1	1
FC018 - CHILD LEFT UNATTENDED	0	0	0
FC019 - UNCLASSIFIED	29	32	3
TOTAL	205	208	30

ACTION OF CASUALTY	Fires	Injuries	Deaths
FC020 - ACTION OF CASUALTY UNKNOWN	35	22	17
FC021 - INJURED WHILE ATTEMPTING TO ESCAPE	27	29	3
FC022 - OVER-EXERTION, HEART ATTACK	0	0	0
FC023 - VOLUNTARILY ENTERED OR REMAINED FOR RESCUE PURPOSE	8	8	1
FC024 - VOLUNTARILY ENTERED OR REMAINED FOR FIRE FIGHTING	86	93	2
FC025 - VOLUNTARILY ENTERED OR REMAINED TO SAVE PERSONAL PROPERTY	9	8	1
FC026 - LOSS OF JUDGEMENT OR PANIC	14	14	1
FC027 - RECEIVED DELAYED WARNING	6	6	1
FC028 - DID NOT ACT	6	5	1
FC029 - UNCLASSIFIED	23	23	3
TOTAL	214	208	30

CAUSE OF FAILURE TO ESCAPE	Fires	Injuries	Deaths
FC050 - UNKNOWN	40	27	15
FC051 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH VERTICAL OPENINGS	5	5	1
FC052 - TRAPPED BY RAPID SPREADING OF FIRE/SMOKE THROUGH HORIZONTAL OPENINGS	8	8	4
FC053 - HIGH FLAME SPREAD OF COMBUSTIBLE INTERIOR FINISH OF WALLS, CEILINGS	9	7	3
FC054 - BUILDING COLLAPSE	1	1	0
FC055 - FALLING DEBRIS	1	0	1
FC056 - EXPLOSION	8	14	2
FC057 - EXIT LOCKED, BLOCKED OR OBSTRUCTED	1	1	0
FC058 - OUTDOOR FIRE INCLUDES FOREST/BRUSH FIRES	1	0	1
FC059 - UNCLASSIFIED OR NOT APPLICABLE	133	145	3
TOTAL	207	208	30

B.C. FIRE LOSS***Fire Loss in British Columbia 1995-2004***

Year	Fires	\$ Loss
1995	7,282	147,356,211
1996	7,494	165,040,632
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	214,201,260
2003	6,264	484,414,632
2004	7,622	167,801,269

Per Capita Fire Loss in British Columbia 1995-2004

Year	Population ⁵	Fires	Fire Rate ⁶	\$ Loss	\$ Loss/Capita
1995	3,805,056	7,282	1.91	147,356,211	38.73
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	7,622	1.81	167,801,269	39.92
10 Year Average	4,032,581.60	6,684.10	1.66	207,605,660.10	51.23

⁵ **Source of Population Statistics:** Statistics Canada, CANSIM.

⁶ **Fire Rate** = Number of fires per 1,000 population.

Per Capita Fires by Location

Municipality	Population ⁷	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ⁸
100 MILE HOUSE	1,828	6	0	0	5,420	903	3.0	3.3
ABBOTSFORD	127,192	58	0	0	897,133	15,468	7.1	0.5
ALERT BAY	617	1	0	0	1,200	1,200	1.9	1.6
ANMORE	1,553	1	0	0	0	0	0.0	0.6
ARMSTRONG	4,534	15	0	1	95,933	6,396	21.2	3.3
BOWEN ISLAND	3,353	1	0	0	1,000	1,000	0.3	0.3
BURNABY	203,244	216	16	1	7,024,787	32,522	34.6	1.1
BURNS LAKE	2,016	4	0	0	76,300	19,075	37.8	2.0
CACHE CREEK	1,145	3	0	0	15,519	5,173	13.6	2.6
CAMPBELL RIVER	30,250	136	2	1	1,385,073	10,184	45.8	4.5
CASTLEGAR	7,774	16	0	0	733,976	45,874	94.4	2.1
CENTRAL SAANICH	16,495	40	3	0	214,694	5,367	13.0	2.4
CHASE	2,552	9	0	0	121,000	13,444	47.4	3.5
CHETWYND	2,729	5	7	0	292,350	58,470	107.1	1.8
CITY OF CHILLIWACK	69,193	218	21	0	3,033,898	13,917	43.8	3.2
CLINTON	672	7	0	0	180,005	25,715	267.9	10.4
COLDSTREAM	9,922	25	0	0	132,599	5,304	13.4	2.5
COLWOOD	14,821	64	2	0	177,916	2,780	12.0	4.3
COMOX	12,426	6	0	0	538,679	89,780	43.4	0.5
COQUITLAM CITY	119,159	439	4	2	3,801,461	8,659	31.9	3.7
COURTENAY	21,124	75	1	0	767,556	10,234	36.3	3.6
CRANBROOK	19,660	41	0	0	149,200	3,639	7.6	2.1
CRESTON	5,053	28	0	0	2,205,200	78,757	436.4	5.5
CUMBERLAND	2,768	15	0	0	412,000	27,467	148.8	5.4
DAWSON CREEK	11,320	52	0	0	3,269,151	62,868	288.8	4.6
DELTA	102,114	28	0	0	484,076	17,288	4.7	0.3
DISTRICT OF LAKE								
COUNTRY	10,091	28	1	0	382,875	13,674	37.9	2.8
DUNCAN	4,884	11	0	0	211,486	19,226	43.3	2.3
ELKFORD	2,683	4	0	0	71,000	17,750	26.5	1.5
ENDERBY	3,023	14	0	0	32,450	2,318	10.7	4.6
ESQUIMALT	17,078	27	7	1	350,626	12,986	20.5	1.6
FERNIE	5,054	16	1	0	236,900	14,806	46.9	3.2
FORT NELSON	4,706	20	0	0	628,206	31,410	133.5	4.2
FORT ST. JAMES	2,004	1	0	0	213,695	213,695	106.6	0.5
FORT ST. JOHN	17,326	37	1	0	1,846,563	49,907	106.6	2.1
FRASER LAKE	1,369	4	0	0	46,020	11,505	33.6	2.9
GIBSONS	4,216	5	0	0	26,535	5,307	6.3	1.2
GOLD RIVER	1,436	3	0	0	11,000	3,667	7.7	2.1
GOLDEN	4,385	10	0	0	429,300	42,930	97.9	2.3
GRAND FORKS	4,184	36	1	1	684,001	19,000	163.5	8.6
GREENWOOD	666	8	0	0	16,375	2,047	24.6	12.0
HIGHLANDS DISTRICT	1,967	1	0	0	0	0	0.0	0.5
HOPE DISTRICT	6,575	58	1	1	1,317,182	22,710	200.3	8.8
HOUSTON	3,849	11	0	0	971,733	88,339	252.5	2.9
HUDSON'S HOPE	1,159	2	0	0	50,267	25,134	43.4	1.7
INVERMERE	3,149	2	0	0	175,000	87,500	55.6	0.6

⁷ **Source of Population Statistics:** Statistics Canada, CANSIM.⁸ **Fire Rate** = Number of fires per 1,000 population.

B.C. Fire Loss

Municipality	Population ⁹	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹⁰
KAMLOOPS	81,916	123	3	0	2,370,742	19,274	28.9	1.5
KASLO	1,071	1	0	0	6,500	6,500	6.1	0.9
KELOWNA	105,902	147	4	1	9,946,284	67,662	93.9	1.4
KENT	5,525	26	0	0	599,516	23,058	108.5	4.7
KIMBERLEY	6,946	16	0	0	490,043	30,628	70.6	2.3
KITIMAT	10,725	36	0	1	545,500	15,153	50.9	3.4
LADYSMITH	7,130	38	0	0	586,683	15,439	82.3	5.3
LANGFORD DISTRICT	20,879	3	0	0	1,500	500	0.1	0.1
LANGLEY CITY	24,982	36	0	0	2,182,921	60,637	87.4	1.4
LANGLEY TOWNSHIP	94,776	287	11	2	11,104,404	38,691	117.2	3.0
LILLOOET	2,821	1	0	0	8,663	8,663	3.1	0.4
LIONS BAY	1,421	2	0	0	53,300	26,650	37.5	1.4
LOGAN LAKE	2,321	2	1	0	10,000	5,000	4.3	0.9
LUMBY	1,703	26	0	0	58,150	2,237	34.1	15.3
LYTTON	333	3	0	0	72,721	24,240	218.4	9.0
MACKENZIE	5,458	23	0	0	473,755	20,598	86.8	4.2
MAPLE RIDGE	71,037	82	0	0	1,236,376	15,078	17.4	1.2
MASSET	967	3	0	0	87,500	29,167	90.5	3.1
MERRITT	7,516	17	0	1	1,611,850	94,815	214.5	2.3
METCHOSIN	5,258	3	0	0	30,300	10,100	5.8	0.6
MISSION	34,061	39	0	0	2,652,254	68,007	77.9	1.1
NAKUSP	1,789	4	0	0	161,500	40,375	90.3	2.2
NANAIMO	78,480	419	7	3	2,085,253	4,977	26.6	5.3
NELSON	9,810	38	1	0	414,095	10,897	42.2	3.9
NEW DENVER	550	2	0	0	37,026	18,513	67.3	3.6
NEW HAZELTON	765	2	0	0	24,685	12,343	32.3	2.6
NEW WESTMINSTER	57,892	170	5	0	3,123,854	18,376	54.0	2.9
NORTH COWICHAN	28,140	31	6	0	2,097,458	67,660	74.5	1.1
NORTH SAANICH	11,132	2	0	0	44,000	22,000	4.0	0.2
NORTH VANCOUVER CITY	46,831	140	3	1	954,132	6,815	20.4	3.0
NORTH VANCOUVER DISTRICT	86,868	100	1	0	1,844,800	18,448	21.2	1.2
OAK BAY	18,406	64	0	0	550,740	8,605	29.9	3.5
OLIVER	4,378	2	0	0	9,060	4,530	2.1	0.5
OSOYOOS	4,611	9	0	0	1,105,141	122,793	239.7	2.0
PARKSVILLE	11,275	29	0	0	40,165	1,385	3.6	2.6
PEACHLAND	5,090	30	0	0	225,788	7,526	44.4	5.9
PEMBERTON	2,210	1	0	0	1,858	1,858	0.8	0.5
PENTICTON	32,955	121	0	2	471,445	3,896	14.3	3.7
PITT MEADOWS	16,143	15	0	0	979,838	65,323	60.7	0.9
PORT ALBERNI	18,610	39	0	0	737,984	18,923	39.7	2.1
PORT ALICE	1,206	7	0	0	465,244	66,463	385.8	5.8
PORT COQUITLAM	55,525	125	4	0	1,660,982	13,288	29.9	2.3
PORT EDWARD	659	1	0	0	250,000	250,000	379.4	1.5
PORT HARDY	4,798	2	0	0	3,919	1,960	0.8	0.4
PORT MCNEILL	2,908	8	0	0	280,006	35,001	96.3	2.8
PORT MOODY	26,849	8	0	0	402,335	50,292	15.0	0.3
POUCE COUPE	864	2	0	0	5,000	2,500	5.8	2.3

⁹ **Source of Population Statistics:** Statistics Canada, CANSIM.

¹⁰ **Fire Rate** = Number of fires per 1,000 population.

B.C. Fire Loss

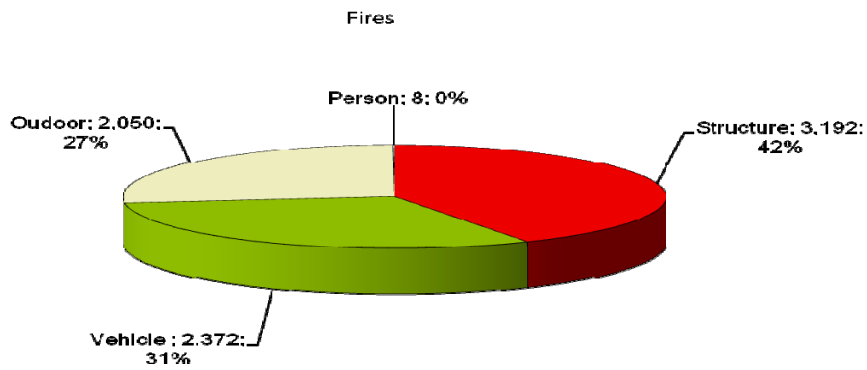
Municipality	Population ¹¹	Fires	Injuries	Deaths	\$ Loss	\$ Loss / Fire	\$ Loss / Capita	Fire Rate ¹²
POWELL RIVER	13,716	20	0	0	140,943	7,047	10.3	1.5
PRINCE GEORGE	77,827	400	1	1	5,437,306	13,593	69.9	5.1
PRINCE RUPERT	15,060	112	4	0	1,939,513	17,317	128.8	7.4
PRINCETON	2,691	2	0	0	7,638	3,819	2.8	0.7
QUALICUM BEACH	7,403	8	0	0	1,015,252	126,907	137.1	1.1
QUESNEL	10,445	57	0	0	1,300,164	22,810	124.5	5.5
RADIUM HOT SPRINGS	749	6	0	0	800	133	1.1	8.0
REVELSTOKE	7,932	22	4	0	331,554	15,071	41.8	2.8
RICHMOND	174,364	34	1	2	1,127,851	33,172	6.5	0.2
ROSSLAND	3,690	4	0	0	42,212	10,553	11.4	1.1
SAANICH	109,873	251	9	0	3,108,612	12,385	28.3	2.3
SALMON ARM	16,466	19	0	0	726,846	38,255	44.1	1.2
SECHELT	8,511	12	1	0	171,230	14,269	20.1	1.4
SIDNEY	11,525	7	0	1	257,254	36,751	22.3	0.6
SMITHERS	5,652	12	0	0	467,986	38,999	82.8	2.1
SOOKE	9,756	51	1	0	58,475	1,147	6.0	5.2
SPALLUMCHEEN	5,648	30	0	0	451,112	15,037	79.9	5.3
SPARWOOD	3,998	4	1	0	315,700	78,925	79.0	1.0
SQUAMISH	15,431	7	0	0	109,579	15,654	7.1	0.5
STEWART	717	1	0	0	13,152	13,152	18.3	1.4
SUMMERLAND	11,285	39	0	0	293,390	7,523	26.0	3.5
SURREY	387,162	788	38	1	12,089,629	15,342	31.2	2.0
TAHSIS	594	1	0	0	0	0	0.0	1.7
TAYLOR	1,291	2	0	0	75,000	37,500	58.1	1.5
TELKWA	1,421	2	0	0	47,000	23,500	33.1	1.4
TERRACE	12,599	43	0	0	448,900	10,440	35.6	3.4
TOFINO	1,716	5	0	0	110,341	22,068	64.3	2.9
TRAIL	7,891	17	1	1	361,894	21,288	45.9	2.2
TUMBLER RIDGE	2,464	2	0	0	3,048	1,524	1.2	0.8
UCLUELET	1,852	2	0	0	69,000	34,500	37.3	1.1
VALEMOUNT	1,247	2	0	0	90,377	45,189	72.5	1.6
VANCOUVER	579,717	140	1	0	4,394,287	31,388	7.6	0.2
VANDERHOOF	4,662	5	0	0	324,245	64,849	69.6	1.1
VERNON	35,643	67	1	0	938,599	14,009	26.3	1.9
VICTORIA	77,769	163	5	0	3,265,179	20,032	42.0	2.1
VIEW ROYAL	7,970	1	1	0	60,000	60,000	7.5	0.1
WARFIELD	1,763	1	0	0	0	0	0.0	0.6
WEST VANCOUVER	43,356	18	2	0	1,684,699	93,594	38.9	0.4
WHISTLER	9,828	29	3	0	760,962	26,240	77.4	3.0
WHITE ROCK	19,370	2	0	0	12,744	6,372	0.7	0.1
WILLIAMS LAKE	11,865	67	0	0	4,400,364	65,677	370.9	5.6
ZEBALLOS	232	4	0	0	500	125	2.2	17.2
OTHER ¹³	565,846	1,071	20	5	35,525,322	33,170	63.0	2.0
TOTAL	4,203,807	7,622	208	30	167,801,269	3,818,395	36.36	2.8

¹¹ **Source of Population Statistics:** Statistics Canada, CANSIM.

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

¹³ 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	180	6	0	7,985,709	2
Institutional Use	32	0	0	1,465,939	0
Residential Use	2,163	167	24	82,592,637	28
Business Use	27	0	0	745,957	0
Commercial Use	126	1	0	6,176,542	2
Manufacturing Use	128	2	1	6,447,232	2
Storage Use	12	0	0	543,908	0
Other Special Use ¹⁴	4,954	32	5	61,843,345	65
TOTAL	7,622	208	30	167,801,269	100

¹⁴ **Other Special Use** includes: parks, public transportation terminals and agricultural property

Fire Loss by Major Property Classes (PR)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Assembly	208	5	0	8,728,581	2.73
Institutional	34	2	0	1,597,119	0.45
Residential	2,347	168	24	95,124,002	30.79
Business & Personal Services	46	0	0	2,974,758	0.60
Mercantile	127	1	0	6,204,538	1.67
Industrial Manufacturing	143	2	1	7,720,621	1.88
Storage Properties	138	1	0	7,796,330	1.81
Special Property and Transportation Equipment ¹⁵	4,299	19	4	27,345,968	56.40
Miscellaneous Properties ¹⁶	272	4	0	10,308,452	3.57
Person	8	6	1	900	0.10
TOTAL	7,622	208	30	167,801,269	100.00

Fire Loss by Major Sources of Ignition (IG)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Cooking Equipment	598	65	4	8,019,742	7.85
Heating Equipment	509	20	2	11,913,164	6.68
Appliances & Equipment	141	9	0	4,026,126	1.85
Electrical Distribution Equipment	536	8	3	15,862,101	7.03
Electrical Equipment	148	8	1	4,809,098	1.94
Smoker's Material & "Open" Flames	1,447	49	4	27,331,200	18.98
Exposure	255	1	0	4,018,006	3.35
Miscellaneous ¹⁷	3,988	48	16	91,821,832	52.32
TOTAL	7,622	208	30	167,801,269	100.00

¹⁵ **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 transportation vehicles, aircraft and heavy machinery.

¹⁶ **(PR) Miscellaneous Properties** include: laboratories, farm facilities, outbuildings, utilities, mining, communications and nucleonic.

¹⁷ **(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
Cannot Be Determined	1,997	30	13	61,700,452	26.2
Incendiary & Suspicious Fires	1,739	21	2	25,906,762	22.8
Misuse of Source of Ignition	584	17	2	16,096,414	7.7
Misuse of Material Ignited	229	19	3	5,032,394	3.0
Mechanical/Electrical Failure/Malfunction	1,246	11	3	18,967,411	16.3
Construction, Design, or Installation Deficiency	116	6	0	4,798,761	1.5
Misuse of Equipment	319	4	0	6,869,735	4.2
Human Failing	1,142	90	7	18,886,757	15.0
Vehicle Accident	72	4	0	1,231,355	0.9
Miscellaneous ¹⁸	178	6	0	8,311,228	2.3
TOTAL	7,622	208	30	167,801,269	100.0

Fire Loss by Major Materials First Ignited (MI)

	Fires	Injuries	Deaths	\$ Loss	% of Fires
Cannot Be Determined	3,021	53	14	77,629,781	39.6
Structural Components, Finish Materials	245	12	1	17,353,038	3.2
Furniture, Furnishings	317	25	2	9,539,685	4.2
Clothing, Textiles	275	13	1	6,312,268	3.6
Wood, Paper Products	835	17	3	19,926,379	11.0
Flammable Liquids, Combustible Liquids	622	44	4	12,221,536	8.2
Flammable Gases	83	11	3	1,448,182	1.1
Chemicals, Plastics, Metals	209	5	0	2,254,837	2.7
Agricultural, Forestry Products	828	7	0	8,337,129	10.9
Miscellaneous ¹⁹	1,187	21	2	12,778,434	15.6
TOTAL	7,622	208	30	167,801,269	100.0

¹⁸ (AO) Miscellaneous includes: illegal operations/activities, exposure from Wildland fire, and tampering with safety devices.

¹⁹ (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	425	7	3	22,515,727
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,423	31	5	25,449,849
INITIAL DETECTION - UNCLASSIFIED (DESCRIBE)	17	1	0	633,610
SMOKE ALARM DEVICE	240	20	0	8,035,269
SMOKE DETECTOR DEVICE	103	6	1	2,308,972
HEAT ALARM DEVICE	9	0	0	475,100
HEAT DETECTOR DEVICE	23	1	1	1,018,093
AUTOMATIC SPRINKLER SYSTEM	63	3	0	1,102,304
AUTOMATIC SYSTEM OTHER THAN SPRINKLER	5	0	0	7,020
VISUAL SIGHTING OR OTHER MEANS OF PERSONAL DETECTION (E.G. SMELL)	2,293	139	20	105,739,500
NO INITIAL DETECTION (EXTINGUISHED BEFORE DETECTION)	17	0	0	333,325
SPECIALTY DETECTOR (INCLUDES FLAME, BEAM, LINE)	4	0	0	182,500
TOTAL	7,622	208	30	167,801,269

Smoke Alarm Operation (SD)

	Fires	Injuries	Deaths	\$ Loss
ALARM OPERATION CANNOT BE DETERMINED	1,114	37	9	51,403,698
NOT APPLICABLE (FOR VEHICLE, OUTDOOR, PERSON REPORTS ONLY)	4,430	31	5	25,487,099
ALARM ACTIVATED - ASSISTED OCCUPANT(S) IN EVACUATING	375	38	0	17,850,028
ALARM ACTIVATED - INAUDIBLE	9	1	0	36,100
ALARM ACTIVATED - OCCUPANT(S) UNABLE TO RESPOND	42	8	2	667,898
ALARM ACTIVATED - UNNECESSARY TO EVACUATE OR UNOCCUPIED	189	9	0	5,779,004
ALARM ACTIVATED - OCCUPANT ACTION UNKNOWN	67	6	1	4,229,007
ALARM NOT ACTIVATED - UNSUITABLE LOCATION	125	2	0	1,938,701
ALARM NOT ACTIVATED - NO BATTERY OR BATTERY DEAD	86	12	0	3,695,155
ALARM NOT ACTIVATED - AC POWER NOT CONNECTED, DISABLE OR OFF	35	2	1	1,553,530
ALARM NOT ACTIVATED - MECHANICAL FAILURE	12	2	0	386,450
ALARM NOT ACTIVATED - UNKNOWN	356	29	2	11,710,587
NO SMOKE ALARM INSTALLED	782	31	10	43,064,012
TOTAL	7,622	208	30	167,801,269

Incendiary²⁰ Fires by Property Group

	# of Fires	\$ Loss	# of Injuries	# of Deaths
ASSEMBLY				
Educational	1	500,000	0	0
Other	3	6,065	0	0
INSTITUTIONAL				
None Reported	0	0	0	0
RESIDENTIAL				
One & two-family dwelling	84	975,230	0	0
Apartment, condominium	1	250	0	0
Business and personal service	2	372,319	0	0
Industrial storage	2	0	0	0
MISCELLANEOUS				
None Reported	0	0	0	0
TOTAL	93	1,853,864	0	0

Juvenile Fire Setters²¹

Age of Children	# of Children	\$ Loss
1-4 years	5	1,100
5-8 years	18	12,150
10-12 years	58	27,355
13-18 years	73	483,400
Unknown Age	9	20,060
TOTAL	163	544,065

Gender of Children	Amount
Female	15
Male	142
Unknown	6
TOTAL	163

FIRE FACTS

FIRES ON SCHOOL PROPERTY:

- 83 fires were reported to have occurred on school property, resulting in \$5.8 million in damages

GROW OPS/CYRSTAL METH LABS:

- 27 fires were reported to have been caused as a direct result of grow operations, causing \$2 million in damages and 2 injuries
- 2 fires were reported to have been the result of individuals cooking marijuana, causing \$92 thousand damage and 4 injuries
- Only 1 fire was reported to have been the result of a Crystal Methamphetamine laboratory

²⁰ **Incendiary** or set fires include arson, suspected incendarism, riot, mischief or vandalism.

²¹ **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)

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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REPORT POSTED MARCH 2010