

## Fire Losses in Apartments in Calgary & Edmonton, Alberta: 2000 - 2012

SOURCE: Office of the Fire Commissioner

Year	Fires	Fire Deaths	Fire Injuries	\$ Losses
2000	294	5	51	8,232,233
2001	308	6	55	10,097,340
2002	339	5	47	58,690,172
2003	285	1	51	9,023,059
2004	260	3	51	17,198,939
2005	234	4	31	14,278,621
2006	269	4	38	12,742,813
2007	241	1	15	14,587,166
2008	294	2	28	11,730,611
2009	251	2	30	22,872,020
2010	313	0	26	61,749,614
2011	225	1	27	18,032,082
2012	18	0	2	33,566,760
<b>Total</b>	3,331	34	452	292,801,430

### Fire Losses in Apartments in Calgary & Edmonton, Alberta: 2000 - 2012

SOURCE: Office of the Fire Commissioner

<b>Municipality</b>	<b>Fires</b>	<b>Fire Deaths</b>	<b>Fire Injuries</b>	<b>\$ Losses</b>
Calgary	1,378	15	189	147,578,288
Edmonton	1,953	19	263	145,223,142
<b>Total</b>	<b>3,331</b>	<b>34</b>	<b>452</b>	<b>292,801,430</b>

### Fire Losses in Apartments in Calgary & Edmonton, Alberta: 2000 - 2012

SOURCE: Office of the Fire Commissioner

<b>Type of Apartments</b>	<b>Fires</b>	<b>Fire Deaths</b>	<b>Fire Injuries</b>	<b>\$ Losses</b>
Apartment, Tenement, Flat - 1 to 4 units with business	35	0	4	28,419,533
Apartment, Tenement, Flat - 1 to 4 units without business	291	2	34	31,823,437
Apartment, Tenement, Flat - 5 to 20 units with business	149	0	30	8,423,718
Apartment, Tenement, Flat - 5 to 20 units without business	1,101	12	153	37,073,334
Apartment, Tenement, Flat - over 20 units with or w/o business	1,449	19	206	164,655,969
Apartment, Tenement, Flat - unclassified or unknown	306	1	25	22,405,439
<b>Total</b>	<b>3,331</b>	<b>34</b>	<b>452</b>	<b>292,801,430</b>

## Fire Losses in Apartments\* in Calgary & Edmonton, Alberta: 2000 - 2012

\*Apartments = 5 to 20 units w/o business and over 20 units with or w/o business

SOURCE: Office of the Fire Commissioner

Year	Fires	Fire Deaths	Fire Injuries	\$ Losses
2000	261	5	43	7,339,387
2001	267	6	47	9,764,065
2002	252	5	46	44,936,321
2003	208	1	31	7,932,284
2004	205	1	28	15,528,205
2005	170	4	30	12,603,457
2006	190	3	29	9,993,429
2007	177	1	12	12,435,228
2008	226	2	25	9,810,633
2009	181	2	20	19,158,833
2010	231	0	23	25,354,568
2011	171	1	24	16,631,383
2012	11	0	1	10,241,510
<b>TOTAL</b>	2,550	31	359	201,729,303

76% of fires; 91% of deaths; 79% of injuries; and 68% of \$ losses in apartment fires were in apartments with 5 to 20 units w/o business and over 20 units with or w/o business

## All Fire Losses in Calgary & Edmonton, Alberta: 2000 - 2012

SOURCE: Office of the Fire Commissioner

Year	Fires	Fire Deaths	Fire Injuries	\$ Losses
2000	2,691	10	162	41,334,241
2001	3,013	13	217	61,213,790
2002	2,584	15	157	130,655,110
2003	2,631	6	179	85,223,508
2004	2,209	9	136	88,412,037
2005	2,249	14	108	73,422,608
2006	2,326	11	120	75,214,109
2007	2,371	8	85	106,703,610
2008	2,510	8	134	122,472,047
2009	2,276	12	94	122,960,715
2010	2,119	8	91	136,944,664
2011	1,682	7	86	78,333,430
2012	61	0	2	35,636,178
<b>Total</b>	<b>28,722</b>	<b>121</b>	<b>1,571</b>	<b>1158526047</b>

Fire Losses in Apartments - 5 to 20 units w/o business and over 20 units with or w/o business in Calgary & Edmonton 2000-2012												
	Fire Losses in Apartment (>5 units)				All Fire Losses				% of Fire Losses			
Year	Fires	Fire Deaths	Fire Injuries	\$ Losses	All Fires	All Fire Deaths	All Fire Injuries	All \$ Losses	% of All Fires	% of All Deaths	% of All Injuries	% of All \$Losses
2000	261	5	43	7,339,387	2,691	10	162	41,334,241	10	50	27	18
2001	267	6	47	9,764,065	3,013	13	217	61,213,790	9	46	22	16
2002	252	5	46	44,936,321	2,584	15	157	130,655,110	10	33	29	34
2003	208	1	31	7,932,284	2,631	6	179	85,223,508	8	17	17	9
2004	205	1	28	15,528,205	2,209	9	136	88,412,037	9	11	21	18
2005	170	4	30	12,603,457	2,249	14	108	73,422,608	8	29	28	17
2006	190	3	29	9,993,429	2,326	11	120	75,214,109	8	27	24	13
2007	177	1	12	12,435,228	2,371	8	85	106,703,610	7	13	14	12
2008	226	2	25	9,810,633	2,510	8	134	122,472,047	9	25	19	8
2009	181	2	20	19,158,833	2,276	12	94	122,960,715	8	17	21	16
2010	231	0	23	25,354,568	2,119	8	91	136,944,664	11	0	25	19
2011	171	1	24	16,631,383	1,682	7	86	78,333,430	10	14	28	21
2012	11	0	1	10,241,510	61	0	2	35,636,178	18	-	50	29
<b>Total</b>	2,550	31	359	201,729,303	28,722	121	1,571	1,158,526,047	9	26	23	17
								AVERAGE	10	23	25	18

No increasing/decreasing trend in apartment complex fires is seen in the above data.

**Major Known Causes of Apartment(> 5 units) Fires in Calgary & Edmonton, Alberta: 2000-2012**

<b>Fire Causes</b>	<b>Fires</b>	<b>% Fires</b>	<b>Deaths</b>	<b>Injuries</b>	<b>\$ Losses</b>
Smoking	543	21	14	70	47,418,404
Arson/Set Fire	410	16	4	49	24,037,754
Other Cooking	380	15	1	65	6,329,723
Overheated Cooking Oil Fire	297	12	1	60	4,328,736
Other Causes/Unknown	254	10	6	29	34,221,359
Candle (accident)	132	5	1	23	3,683,821
Electrical Distrib. Eqpt.	112	4	0	9	7,716,728
Child Fireplay	73	3	1	12	1,485,807
Light/Fluorescent Bulb	57	2	0	5	3,163,283
Welding/Torch Too Close	52	2	0	3	14,845,270
Heating Eqpt. Related	47	2	0	8	5,780,543
Clothes Dryer	46	2	0	1	614,880
Appliance/Equipment Related	43	2	0	3	1,318,742
Exposure Fire	34	1	0	0	43,558,434
Flammable/Comb. Liquid Ignition	33	1	0	10	508,626
Match/Lighter Not Used For Smoking	27	1	3	8	2,509,184
Flammable Gas Ignition	10	0	0	4	208,009
<b>Total</b>	<b>2550</b>	<b>100</b>	<b>31</b>	<b>359</b>	<b>201,729,303</b>

Causes of apartment fires rank as follows: Cooking (27%), smoking (21%) and arson/set fires (16%). Smoking fires rank #1 in relation to fire deaths. Cooking fires rank # in relation to fire injuries.

# **Smoking Related Fire Losses in Apartments\* in Calgary & Edmonton, Alberta: 2000 - 2012**

\*Apartments - 5 to 20 units w/o business and over 20 units with or w/o business

SOURCE: Office of the Fire Commissioner

Year	Fires	Fire Deaths	Fire Injuries	\$ Losses
2000	67	2	10	3,837,130
2001	66	5	10	6,150,144
2002	56	2	12	1,232,835
2003	48	0	4	1,382,708
2004	48	1	6	2,522,296
2005	38	1	5	821,160
2006	44	1	8	4,167,916
2007	31	1	2	996,332
2008	37	0	1	1,314,198
2009	31	1	2	455,258
2010	43	0	7	22,152,144
2011	39	0	4	7,556,933
<b>Total</b>	<b>548</b>	<b>14</b>	<b>71</b>	<b>52,589,054</b>

**Smoking Related Fire Losses in 1/2 Fam. Dwellings, Apartments, Mobile Homes, Alberta:  
2000 - 2012**

SOURCE: Office of the Fire Commissioner

<b>Year</b>	<b>Fires</b>	<b>Fire Deaths</b>	<b>Fire Injuries</b>	<b>\$ Losses</b>
2000	178	5	24	8,049,136
2001	244	11	43	13,130,513
2002	167	5	28	4,652,789
2003	173	3	23	5,643,529
2004	174	4	25	8,705,270
2005	173	4	18	10,202,372
2006	174	3	17	9,615,375
2007	189	5	21	28,287,616
2008	192	6	13	10,625,620
2009	189	3	23	13,653,822
2010*	177	2	14	37,808,103
2011*	162	3	21	18,105,758
2012*	4	0	0	1,211,000
<b>Total</b>	<b>2,196</b>	<b>54</b>	<b>270</b>	<b>169,690,903</b>

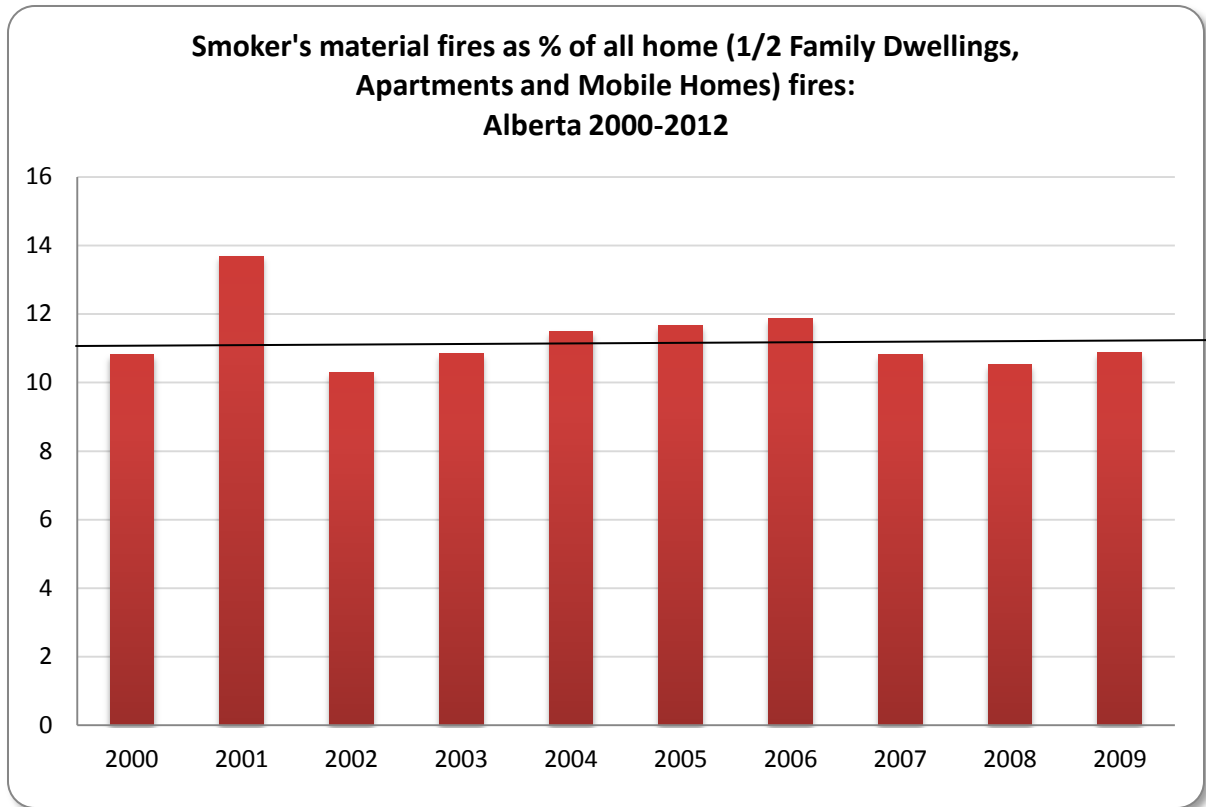
\*Fire incident data for year 2010 - 2012 for Alberta was incomplete at the time of this analysis.



**All Fire Losses in 1/2 Fam. Dwellings, Apartments, Mobile Homes, Alberta  
2000 - 2009**

SOURCE: Office of the Fire Commissioner

<b>Year</b>	<b>Fires</b>	<b>Fire Deaths</b>	<b>Fire Injuries</b>	<b>\$ Losses</b>
2000	1,646	19	187	59,856,950
2001	1,783	32	217	78,363,938
2002	1,621	20	171	114,677,248
2003	1,596	11	198	72,907,723
2004	1,516	16	193	85,640,084
2005	1,484	23	142	94,284,373
2006	1,466	24	116	97,390,904
2007	1,748	17	121	155,996,017
2008	1,825	25	141	154,207,612
2009	1,739	19	132	221,894,118
<b>Total</b>	<b>16,424</b>	<b>206</b>	<b>1,618</b>	<b>1,135,218,967</b>



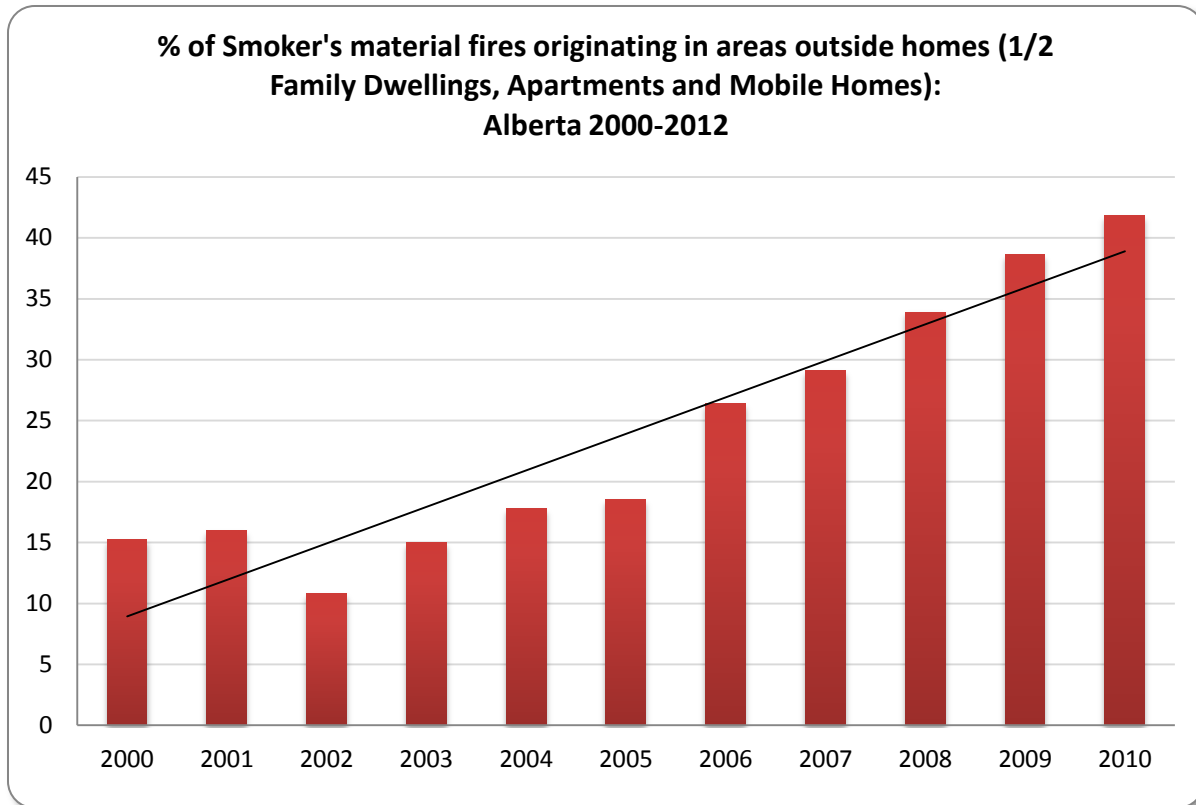
There is no trend (on average about 11%) in smoker's material fires in Alberta homes.

**Smoking Related Fire Losses in 1/2 Fam. Dwellings, Apartments, Mobile Homes, Alberta  
By Area of Origin: 2000 - 2012**

SOURCE: Office of the Fire Commissioner

Year		Fires	%	Fire Deaths	Fire Injuries	\$ Losses
2000	All Other areas	151	84.8	5	24	7,630,596
	Outside area	27	15.2	0	0	418,540
	Sub total	178	100.0	5	24	8,049,136
2001	All Other areas	205	84.0	11	43	12,640,982
	Outside area	39	16.0	0	0	489,531
	Sub total	244	100.0	11	43	13,130,513
2002	All Other areas	149	89.2	5	28	4,625,336
	Outside area	18	10.8	0	0	27,453
	Sub total	167	100.0	5	28	4,652,789
2003	All Other areas	147	85.0	3	23	5,345,623
	Outside area	26	15.0	0	0	297,906
	Sub total	173	100.0	3	23	5,643,529
2004	All Other areas	143	82.2	4	25	7,666,679
	Outside area	31	17.8	0	0	1,038,591
	Sub total	174	100.0	4	25	8,705,270
2005	All Other areas	141	81.5	4	16	6,973,618
	Outside area	32	18.5	0	2	3,228,754
	Sub total	173	100.0	4	18	10,202,372
2006	All Other areas	128	73.6	3	17	5,643,884
	Outside area	46	26.4	0	0	3,971,491
	Sub total	174	100.0	3	17	9,615,375

Year		Fires	%	Fire Deaths	Fire Injuries	\$ Losses
2007	All Other areas	134	70.9	5	20	25,551,412
	Outside area	55	29.1	0	1	2,736,204
	Sub total	189	100.0	5	21	28,287,616
2008	All Other areas	127	66.1	6	13	7,748,753
	Outside area	65	33.9	0	0	2,876,867
	Sub total	192	100.0	6	13	10,625,620
2009	All Other areas	116	61.4	3	19	8,311,426
	Outside area	73	38.6	0	4	5,342,396
	Sub total	189	100.0	3	23	13,653,822
2010	All Other areas	103	58.2	1	10	11,020,893
	Outside area	74	41.8	1	4	26,787,210
	Sub total	177	100.0	2	14	37,808,103
2011	All Other areas	104	64.2	3	16	13,333,256
	Outside area	58	35.8	0	5	4,772,502
	Sub total	162	100.0	3	21	18,105,758
2012	All Other areas	2	50.0	0	0	631,000
	Outside area	2	50.0	0	0	580,000
	Sub total	4	100.0	0	0	1,211,000
<b>Total</b>		2,196	100.0	54	270	169,690,903



There is a linear increase in smoker's material fires that originate outside homes.  
Fire incident data for year 2010 was incomplete at the time of this analysis.