

*Association of  
Canadian Fire Marshals  
and Fire Commissioners*



*l'Association canadienne  
des directeurs provinciaux et  
des commissaires des incendies*

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## **Annual Report 1993**



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## **Fire Losses in Canada**

**Annual Report  
1993**



**Fire Losses in Canada**

The "Fire Losses in Canada" Annual Report (1993) is prepared by the Occupational Safety and Health and Fire Prevention Division, Human Resources Development Canada and is published by the Association of Canadian Fire Marshals and Fire Commissioners. Copies may be purchased at a cost of \$10.00 each (taxes included) from the Association. See order form at back of report.

## PREFACE

The Association of Canadian Fire Marshals and Fire Commissioners (ACFM/FC) was formed in 1921. It is a national organization with a Constitution and rules and regulations. From the outset the Association has provided a forum through which issues or problems relating to all aspects of fire loss prevention could be discussed and resolved in an atmosphere of mutual respect, cooperation and understanding. Its primary objective is to advise on and promote legislation, policies, and procedures pertinent to fire protection; participate in the development of codes and standards relating to fire safety; promote fire safety awareness; support the professional development of the Canadian fire service; identify trends relative to the causes and the severity of fire; provide advice to Accredited Agencies involved in the certification and testing of fire protection equipment and materials relating to fire safety and provide a forum for the exchange of information on fire safety matters.

The 1993 Annual Report of Fire Losses in Canada is the seventy-second edition to be published. It is compiled by the Occupational Safety and Health and Fire Prevention Division of Human Resources Development Canada, from information supplied by the Association of Canadian Fire Marshals and Fire Commissioners (ACFM & FC), Indian and Northern Affairs Canada (INAC) and Statistics Canada.

I would like to thank the members of the ACFM & FC, INAC and Statistics Canada for their cooperation in providing the necessary data for this report and assisting in the objective to supply complete statistics on Canadian fire losses.

Sincerely,

P.W. Worona  
Director  
Occupational Safety and Health  
and Fire Prevention Division  
Human Resources Development Canada

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## THE RECORD

In 1993, the fire death total of 417 was an increase (3.99%) from the 401 recorded in 1992.

The total number of fire injuries reported in 1993, 3 463 is a decrease of 10.6% from that recorded in 1992.

The number of reported fires, 65 877, is a decrease (0.18%) from the 1992 figure of 65 999.

The property loss figure of \$1 181 892 872 represents a decrease of 4.79% from the 1992 dollar figure of \$1 241 390 000.

The "Residential" property classification continues to account for the largest number of fires. In 1993, there were 26 468 fires in this category, 40% of the Canadian total. These incidents resulted in 327 deaths or approximately 78% of the nation's fire fatalities. The monetary loss amounted to \$482 million, which is 41% of the total loss.

The property classification showing the second largest number of fires is "Special Properties," where 22 053 fires were reported, accounting for approximately 33% of the overall Canadian total. Vehicle fires accounted for 17 270 incidents of all fires within this property classification, amounting to a dollar loss of \$74 million. The total dollar loss for the "Special Properties" classification is \$85 million.

In the category "Source of Ignition" the following three groups (exclusive of miscellaneous and undetermined) lead the list of number of reported fires and property dollar loss: "Smoker's Material and Open Flame" with 10 635 and a dollar loss of \$164 million, "Cooking Equipment" with 7 643 incidents and a loss of \$63 million, and "Electrical Distribution Equipment" with 4 928 incidents and a loss of \$112 million.

Table 7 provides a review of the fire data identified under the heading of "Act or Omission." As in the past, the category of "Mechanical, Electrical Failure and Malfunction" had the greatest number of recorded fires, that being 13 422. The 1993 dollar loss for this category is \$209 million. "Arson or Other Set Fires" accounted for 11 365 incidents, a decrease of 6.14% from last year. However, the 1993 dollar loss of \$232 million from "Arson and Other Set Fires" was a decrease of 7.3% from the 1992 figure of \$250 million.



In summary, this latest information indicates, the total number of fire deaths increased from that recorded in 1992, the total number of fires decreased 0.18% from the previous year, and the dollar loss decreased 4.79%. Typically the category of "Residential Properties" remains an area of utmost concern, accounting for 78% of the total number of fire deaths, 40% of the total number of fires, and 41% of the total dollar loss. The large number of electrical incidents and the associated dollar loss, as well as the number of "Arson or Other Set Fires" and the associated dollar loss, are two other areas of major concern within the Fire Services. A continued effort by all fire protection authorities as well as the public is most imperative in order to reduce the loss of lives, number of fires and property damage.

## Section I

### Summary 1984 - 1993

**Table 1 - Canada Fire Losses and Fire Deaths**

Year	Population	Number of Fires	\$ Loss	Per Capita \$ Loss	Fire Deaths	Fire Death Rate *	
1984	25 584 586	71 032	944 079 254	36.90	636	2.49	
1985	25 812 885	70 342	934 555 585	36.21	585	2.27	
1986	25 783 567	68 163	984 758 302	38.19	579	2.25	
1987	26 056 136	67 498	965 607 142	37.06	539	2.07	
1988	26 372 481	71 009	1 018 232 771	38.61	535	2.03	
1989	26 646 701	67 588	1 128 079 909	42.33	519	1.95	
1990	27 418 116	68 007	1 237 393 172	45.13	481	1.75	
1991	27 908 282	68 150	1 239 716 205	44.42	406	1.45	
1992	28 531 069	65 999	1 241 390 000	43.51	401	1.41	
1993	29 074 524	65 877	1 181 892 872	40.65	417	1.43	
<b>10-Year Average</b>			<b>68 366</b>	<b>1 087 570 521</b>	<b>40.40</b>	<b>510</b>	<b>1.89</b>

\* Fire Death Rate - number of deaths per 100 000 population per annum

Note: The 1993 Alberta figures for number of fires and \$ loss are not available. The 1992 Alberta figures have been used instead.

**Figure 1 - Canada Fire Losses, Actual and Adjusted**

**Summary 1984 - 1993**

**Figure 2 - Canada Fire Deaths and 10-Year Average**

**Summary 1984 - 1993**

**Figure 3 - Canada Fire Injuries and 10-Year Average**

**Summary 1984 - 1993**

## Section II

### Fire Losses, 1993 and 10-Year Average

**Table 2 - Property Losses by Jurisdiction**

Jurisdiction	Population 1993	Number of Fires		\$ Loss		Per Capita \$ Loss	
		1993	10-Year Average	1993 \$	10-Year Average	1993 \$	10-Year Average
Alberta*	2 662 300	*6 771	7 849	*97 758 939	117 223 089	36.72	48.26
British Columbia	3 532 700	7 562	7 585	174 386 218	133 730 415	49.36	42.44
Manitoba	1 142 304	5 693	6 053	50 134 609	39 445 184	43.89	43.29
New Brunswick	750 900	2 329	2 104	24 327 605	14 589 515	32.40	23.47
Newfoundland	568 349	537	694	32 692 855	14 227 629	57.52	31.15
Nova Scotia	899 942	2 491	2 256	19 865 416	20 739 454	22.07	24.87
Ontario	10 746 300	22 747	20 804	353 311 042	256 675 267	32.88	30.02
Prince Edward Island	125 000	630	735	16 214 573	3 795 338	129.72	44.11
Quebec	6 904 745	12 688	11 202	348 440 966	262 897 554	50.46	41.38
Saskatchewan	1 007 400	3 407	2 569	37 032 957	30 494 679	36.76	34.02
Northwest Territories	57 649	169	159	5 234 632	4 229 461	90.80	87.60
Yukon	31 928	270	202	10 254 290	1 575 785	321.17	58.57
National Defence	104 474	173	171	1 161 048	2 594 421	11.11	31.41
Indian Reserves	303 725	325	354	8 024 075	7 857 742	26.42	26.99
Federal Properties	236 808	85	131	3 053 047	2 860 174	12.89	16.76
<b>Summary</b>	<b>29 074 524</b>	<b>65 877</b>	<b>62 868</b>	<b>1 181 892 872</b>	<b>912 935 707</b>	<b>31.40</b>	<b>38.62</b>

\* Note: The 1993 Alberta figures for number of fires and \$ loss are not available. The 1992 Alberta figures have been used instead.

## Section III

### Fire Losses by Property Classification

**Table 3 - Summary of Fires by Property Classification**

Classification	Number of Fires	% of Total	\$ Loss	% of Total	Injuries	% of Total	Deaths	% of Total
Residential	26 468	40.17	482 670 341	40.84	2 268	65.49	327	78.42
Assembly	1 809	2.75	80 558 701	6.82	89	2.56	6	1.44
Institutional	498	0.76	8 448 919	0.71	29	0.84	6	1.44
Business and personal service	501	0.76	16 491 193	1.40	21	0.61	0	0.00
Mercantile	1 722	2.61	92 084 749	7.79	120	3.47	0	0.00
Industrial manufacturing	1 285	1.95	116 608 650	9.87	121	3.49	4	0.95
Storage	1 331	2.02	65 125 491	5.51	65	1.88	1	0.24
Special	22 053	33.48	85 583 264	7.24	207	5.98	14	3.36
Farm	1 385	2.10	60 281 101	5.10	49	1.41	6	1.44
Miscellaneous*	8 825	13.40	174 040 463	14.72	494	14.27	53	12.71
<b>Total</b>	<b>65 877</b>	<b>100.00</b>	<b>1 181 892 872</b>	<b>100.00</b>	<b>3 463</b>	<b>100.00</b>	<b>417</b>	<b>100.00</b>

\* 1993 total losses for Newfoundland and Alberta have been included under "Miscellaneous" as their losses by specific property classification are not available. The 1993 Alberta figures for number of fires and \$ loss are not available. The 1992 Alberta figures have been used instead. As for number of injuries and deaths, 1993 figures have been used.

### 3(a) Residential Occupancies

Jurisdiction	1993		10-Year Average					
	Number of Fires	% of Total	\$ Loss	% of Total	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A	2 121	24.95	32 844 170	26.37
British Columbia	2 815	37.23	80 180 950	59.96	3 064	35.07	63 924 142	43.32
Manitoba	1 653	29.04	19 633 317	49.77	1 939	29.56	20 976 179	38.12
New Brunswick	1 552	66.64	14 762 231	101.18	1 351	58.28	11 714 646	61.25
Newfoundland	N/A	N/A	N/A	N/A	376	40.13	6 231 444	32.86
Nova Scotia	1 553	62.34	14 659 896	70.69	1 565	57.12	13 316 228	48.78
Ontario	10 319	45.36	168 402 417	65.61	10 900	45.94	144 003 505	45.29
Prince Edward Island	427	67.78	1 751 819	46.16	566	65.25	2 336 036	46.09
Quebec	6 818	53.74	159 033 142	60.49	7 584	51.97	138 869 413	42.86
Saskatchewan	868	25.48	13 587 840	44.56	861	27.51	11 538 925	30.03
Northwest Territories	84	49.70	3 640 103	86.07	89	48.10	2 472 653	45.50
Yukon	110	40.74	1 242 800	78.87	89	36.54	1 088 690	58.99
National Defence	55	31.79	254 598	9.81	74	34.41	504 207	13.66
Indian Reserves	209	64.31	5 404 278	68.78	275	64.85	5 908 503	75.43
Federal Properties	5	5.88	116 950	4.09	31	4.31	176 242	6.83
<b>Total</b>	<b>26 468</b>	<b>40.18</b>	<b>482 670 341</b>	<b>40.84</b>	<b>30 885</b>	<b>45.15</b>	<b>455 904 983</b>	<b>41.92</b>

Percentages used in this table relate to jurisdictional totals.

1993 Newfoundland and Alberta statistics not available for Tables 3(a) to 3(m); table 5; figure 3; table 7; figure 4.



### 3(b) Residential - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
One and two family residence	17 863	338 019 612	1 379	246
Apartment, tenement, flat	5 646	89 564 982	714	43
Rooming, boarding, lodging	286	6 391 512	50	6
Hotel, inn, lodge	279	7 613 270	30	1
Motor hotel, motel	94	2 421 116	7	0
Dormitory	66	513 021	1	0
Mobile home, trailer	752	13 210 454	31	19
Miscellaneous	1 482	24 936 374	56	12
<b>Total</b>	<b>26 468</b>	<b>482 670 341</b>	<b>2 268</b>	<b>327</b>

### 3(c) Assembly

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	271	3.58	12 052 215	6.91
Manitoba	106	1.86	7 588 720	15.14
New Brunswick	55	2.36	3 447 478	14.17
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	48	1.93	117 507	0.59
Ontario	741	3.26	20 684 340	5.85
Prince Edward Island	10	1.59	853 571	5.26
Quebec	432	3.40	32 707 773	9.39
Saskatchewan	95	2.79	2 112 567	5.70
Northwest Territories	8	4.73	3 255	0.06
Yukon	5	1.85	22 100	0.22
National Defence	13	7.51	164 275	14.15
Indian Reserves	17	5.23	673 900	8.40
Federal Properties	8	9.41	131 000	4.29
Total	1 809	2.75	80 558 701	6.82

Percentages used in this table relate to jurisdictional totals.

### 3(d) Assembly - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Theatre, studio, auditorium	26	1 335 304	5	1
Amusement, recreation place	172	7 911 140	3	0
School, college, university	580	16 872 289	21	0
Church, funeral parlour	92	6 153 726	4	1
Club, social, sport	91	3 017 045	3	2
Museum, art gallery, library	23	1 023 943	1	0
Food, beverage establishment	640	33 131 150	48	0
Passenger terminal, station	65	7 146 253	1	0
Miscellaneous	120	3 967 851	3	2
<b>Total</b>	<b>1 809</b>	<b>80 558 701</b>	<b>89</b>	<b>6</b>

### 3(e) Institutional

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	47	0.62	1 396 896	0.80
Manitoba	40	0.70	204 936	0.41
New Brunswick	9	0.39	13 247	0.05
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	33	1.32	388 436	1.96
Ontario	206	0.91	1 217 745	0.34
Prince Edward Island	3	0.48	0	0.00
Quebec	106	0.84	5 182 478	1.49
Saskatchewan	14	0.41	27 002	0.07
Northwest Territories	4	2.37	5 810	0.11
Yukon	0	0	0	0.00
National Defence	1	0.58	210	0.02
Indian Reserves	0	0.00	0	0.00
Federal Properties	35	41.18	12 159	0.40
<b>Total</b>	<b>498</b>	<b>0.76</b>	<b>8 448 919</b>	<b>0.71</b>

Percentages used in this table relate to jurisdictional totals.

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### 3(f) Institutional - Detail

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Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Prison, jail, reformatory	80	183 416	9	0
Home for the aged	152	4 471 197	8	3
Child care	19	92 561	1	0
Hospital, sanatorium, clinic	183	1 261 577	8	3
Miscellaneous	64	2 440 168	3	0
Total	498	8 448 919	29	6

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### **3(g) Business and Personal Service**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	77	1.02	3 823 558	2.19
Manitoba	23	0.40	530 109	1.06
New Brunswick	14	0.60	386 806	1.52
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	16	0.64	127 963	0.64
Ontario	181	0.80	3 754 571	1.06
Prince Edward Island	14	2.22	174 354	1.08
Quebec	132	1.04	5 841 165	1.68
Saskatchewan	9	0.26	294 805	0.80
Northwest Territories	7	4.14	35 250	0.67
Yukon	3	1.11	2 000	0.02
National Defence	4	2.31	13 700	1.18
Indian Reserves	11	0.26	1 219 000	4.81
Federal Properties	10	11.76	305 912	10.02
<b>Total</b>	<b>501</b>	<b>0.76</b>	<b>16 491 193</b>	<b>0.14</b>

Percentages used in this table relate to jurisdictional totals.

### **3(h) Mercantile Properties**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	202	2.67	16 173 353	9.27
Manitoba	61	1.07	4 326 036	8.63
New Brunswick	40	1.72	674 772	2.77
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	38	1.53	748 175	3.77
Ontario	717	3.15	29 382 407	8.32
Prince Edward Island	13	2.06	585 003	3.61
Quebec	566	4.46	36 743 542	10.55
Saskatchewan	68	2.00	2 669 691	7.21
Northwest Territories	4	2.37	370 000	7.07
Yukon	3	1.11	180 000	1.76
National Defence	3	1.73	1 250	0.11
Indian Reserves	5	1.54	230 500	2.87
Federal Properties	2	2.35	20	0.00
<b>Total</b>	<b>1 722</b>	<b>2.61</b>	<b>92 084 749</b>	<b>7.79</b>

Percentages used in this table relate to jurisdictional totals.

### **3(i) Industrial Manufacturing Properties**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	185	2.45	19 512 524	11.19
Manitoba	58	1.02	1 563 940	3.12
New Brunswick	30	1.29	2 896 770	11.91
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	27	1.08	692 938	3.49
Ontario	625	2.75	36 699 426	10.39
Prince Edward Island	3	0.48	12 100 000	74.62
Quebec	315	2.48	40 517 260	11.63
Saskatchewan	36	1.06	2 572 555	6.95
Northwest Territories	1	0.59	50 000	0.96
Yukon	2	0.74	0	0.00
National Defence	2	1.16	3 237	0.28
Indian Reserves	0	0.00	0	0.00
Federal Properties	1	1.18	0	0.00
<b>Total</b>	<b>1 285</b>	<b>1.95</b>	<b>116 608 650</b>	<b>9.87</b>

Percentages used in this table relate to jurisdictional totals.



### 3(j) Storage Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	268	3.54	15 849 305	9.09
Manitoba	201	3.53	6 523 532	13.01
New Brunswick	74	3.18	845 656	3.48
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	48	1.93	571 658	2.88
Ontario	250	1.10	9 338 647	26.45
Prince Edward Island	11	1.75	329 297	2.03
Quebec	279	2.20	17 797 218	5.11
Saskatchewan	169	4.96	4 178 002	11.28
Northwest Territories	6	3.55	778 800	14.88
Yukon	5	1.85	8 640 640	84.26
National Defence	11	6.36	87 814	7.56
Indian Reserves	7	2.15	179 800	2.24
Federal Properties	2	2.35	5 122	0.17
<b>Total</b>	<b>1 331</b>	<b>2.02</b>	<b>65 125 491</b>	<b>5.51</b>

Percentages used in this table relate to jurisdictional totals.

### **3(k) Special Properties (Outdoor and Vehicles)**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	3 450	45.62	19 302 185	11.07
Manitoba	3 208	56.35	5 519 114	11.01
New Brunswick	481	20.65	988 532	4.06
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	632	25.37	1 639 971	8.26
Ontario	8 611	37.86	33 242 104	9.41
Prince Edward Island	116	18.41	129 339	0.80
Quebec	3 506	27.63	18 564 134	5.33
Saskatchewan	1 726	50.66	4 738 688	12.80
Northwest Territories	41	24.26	334 764	6.40
Yukon	136	50.37	158 250	1.54
National Defence	65	37.57	282 743	24.35
Indian Reserves	66	20.31	303 297	3.78
Federal Properties	15	17.65	380 143	12.45
<b>Total</b>	<b>22 053</b>	<b>33.48</b>	<b>85 583 264</b>	<b>7.24</b>

Percentages used in this table relate to jurisdictional totals.

### 3(l) Special Properties - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Outdoor property	4 311	3 922 918	28	1
Special connecting properties	48	911 680	0	0
Construction, demolition, vacant	278	4 611 253	13	0
Watercraft	215	3 222 733	28	0
Rail, transport vehicle and equipment	206	2 032 842	4	0
Ground transport vehicle	16 107	59 448 943	118	13
Aircraft	27	495 995	6	0
Special vehicle	715	9 005 799	8	0
Pier, wharf	146	1 931 101	2	0
<b>Total</b>	<b>22 053</b>	<b>85 583 264</b>	<b>207</b>	<b>14</b>

### **3(m) Farm Properties**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	44	0.58	4 243 730	2.43
Manitoba	178	3.13	3 378 213	6.74
New Brunswick	13	0.56	180 889	0.74
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	24	0.96	598 648	3.01
Ontario	556	2.44	31 510 348	8.92
Prince Edward Island	18	2.86	252 673	1.56
Quebec	146	1.15	13 741 040	3.94
Saskatchewan	403	11.83	6 375 345	17.22
Northwest Territories	0	0.00	0	0.00
Yukon	0	0.00	0	0.00
National Defence	0	0.00	0	0.00
Indian Reserves	2	0.62	200	0.00
Federal Properties	1	1.18	15	0.00
<b>Total</b>	<b>1 385</b>	<b>2.10</b>	<b>60 281 101</b>	<b>5.10</b>

Percentages used in this table relate to jurisdictional totals.

### **3(n) Miscellaneous Properties**

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta*	*6 771	100.0	*97 758 939	100.0
British Columbia	203	2.68	1 851 502	1.06
Manitoba	165	2.90	866 692	1.73
New Brunswick	61	2.62	149 224	0.61
Newfoundland**	**537	100.0	**32 692 855	100.0
Nova Scotia	72	2.89	320 224	1.61
Ontario	541	2.38	19 079 637	5.40
Prince Edward Island	15	2.38	38 517	0.24
Quebec	388	3.06	18 313 214	5.26
Saskatchewan	19	0.56	476 462	1.29
Northwest Territories	14	8.28	16 650	0.32
Yukon	6	2.22	8 500	0.08
National Defence	19	10.98	353 221	30.42
Indian Reserves	8	2.46	13 100	0.16
Federal Properties	6	7.06	2 101 726	68.84
<b>Total</b>	<b>8 825</b>	<b>13.40</b>	<b>174 040 463</b>	<b>14.73</b>

Percentages used in this table relate to jurisdictional totals.

\* The 1993 Alberta figures for number of fires and \$ loss are not available. The 1992 Alberta figures have been used instead.

\*\* 1993 total losses for Newfoundland have been included in this table.

## Section V

### Table 5 - Fire Losses by Source of Ignition

Source of Ignition (Igniting Object)	Number of Fires	\$ Loss	Injuries					Deaths				
			FF	M	W	C	Uncl.	FF	M	W	C	Uncl.
No igniting object (e.g., lightning)	574	7 073 621	4	10	5	2	3	0	0	0	3	0
Cooking equipment	7 643	63 320 070	88	350	219	45	8	0	30	9	18	2
Heating equipment	5 873	87 852 288	57	84	18	9	0	0	12	4	10	0
Appliances and equipment	2 063	35 218 462	14	24	14	4	0	0	2	0	2	0
Electrical distribution equipment	4 928	112 377 586	60	64	23	11	2	0	4	3	0	0
Other electrical equipment	1 191	35 590 326	13	22	28	0	0	0	2	0	1	0
Smoker's material and "open flame":												
Smoker's material	2 532	29 930 780	46	151	73	18	6	0	35	22	10	0
Match, lighter (not used with smoking), lamp, candle, taper	2 608	37 343 287	45	71	41	64	6	0	6	1	14	0
Cutting torch, welding equipment, varied torches	732	14 296 985	32	28	1	0	1	0	1	0	0	0
Hot ashes, embers (non-smoking material)	403	5 894 345	2	4	1	0	0	0	0	0	0	0
Smoker's material or "open flame", unclassified	4 360	76 632 501	84	93	45	7	0	0	11	9	6	0
Exposure	928	23 199 558	1	5	1	0	0	1	0	0	0	0
Miscellaneous	19 461	230 104 963	96	115	21	8	457	0	9	2	2	47
Undetermined	12 581	422 743 100	346	190	189	31	3	4	62	41	31	1
<b>Total</b>	<b>65 877</b>	<b>1 181 892 872</b>	<b>888</b>	<b>1 211</b>	<b>679</b>	<b>199</b>	<b>486</b>	<b>5</b>	<b>174</b>	<b>91</b>	<b>97</b>	<b>50</b>

FF - Firefighters M - Men W - Women C - Children Uncl. - Unclassified

**Figure 4 - Source of Ignition**

**Summary 1993**

## Section VI

### Table 6 - Fire Deaths and Injuries

#### Table 6(a) - Fire Deaths, 1993 and 10-Year Summary

Jurisdiction	1993						10-Year Average		
	Firefighters	Men	Women	Children	Unclassified	Total	Fire Death Rate *	Average Number of Deaths	Fire Death Rate *
Alberta	0	0	0	0	34	34	1.29	50	1.95
British Columbia	0	17	7	9	0	33	0.93	51	1.70
Manitoba	0	11	3	0	0	14	1.23	27	2.51
New Brunswick	0	11	3	6	0	20	2.66	21	2.73
Newfoundland	0	0	0	0	13	13	2.29	16	2.92
Nova Scotia	0	14	4	1	0	19	2.11	26	2.85
Ontario	0	57	45	35	0	137	1.27	153	1.64
Prince Edward Island	0	1	1	2	0	4	3.20	5	3.83
Quebec	4	37	20	11	0	72	1.04	99	1.47
Saskatchewan	1	11	2	9	0	23	2.28	22	2.22
Northwest Territories	0	0	1	4	3	8	13.88	6	10.87
Yukon	0	2	0	1	0	3	9.40	2	7.80
National Defence	0	0	0	0	0	0	0.00	1	0.71
Indian Reserves	0	13	5	19	0	37	12.18	27	9.02
Federal Properties	0	0	0	0	0	0	0.00	0	0.05
<b>Total</b>	<b>5</b>	<b>174</b>	<b>91</b>	<b>97</b>	<b>50</b>	<b>417</b>	<b>1.43</b>	<b>506</b>	<b>1.88</b>

\* Fire death rate - number of fire deaths per 100 000 population per annum



**Table 6(b) - Fire Injuries, 1993 and 10-Year Summary**

Jurisdiction	1993						10-Year Average		
	Firefighters	Men	Women	Children	Unclassified	Total	Fire Injury Rate *	Average Number of Injuries	Fire Injury Rate *
Alberta	0	0	0	0	433	433	16.26	428	17.15
British Columbia	90	180	70	41	28	409	11.58	396	12.95
Manitoba	69	92	60	29	0	250	21.89	257	23.08
New Brunswick	22	31	13	16	0	82	10.92	50	6.81
Newfoundland	0	0	0	0	22	22	3.87	22	3.62
Nova Scotia	30	38	14	10	0	88	9.78	75	8.38
Ontario	473	529	377	65	0	1 444	13.44	1 858	19.54
Prince Edward Island	0	0	0	0	0	0	0.00	n/a	0.87
Quebec	180	244	116	13	0	553	8.00	565	8.53
Saskatchewan	18	46	20	11	3	98	9.73	85	8.64
Northwest Territories	6	24	8	2	0	40	69.39	170	30.34
Yukon	0	6	3	2	0	11	34.45	4	17.86
National Defence	0	4	0	1	0	5	4.79	15	8.59
Indian Reserves	0	10	1	9	0	20	6.58	19	6.57
Federal Properties	0	7	1	0	0	8	3.38	6	2.32
<b>Total</b>	<b>888</b>	<b>1 211</b>	<b>679</b>	<b>199</b>	<b>486</b>	<b>3 463</b>	<b>11.91</b>	<b>3 950</b>	<b>14.67</b>

\* Fire injury rate - number of fire injuries per 100 000 population per annum

## Section VII

### Table 7 - Act or Omission Causing Fire

Act or Omission	Number of Fires	\$ Loss	Injuries					Deaths				
			FF	M	W	C	Uncl.	FF	M	W	C	Uncl.
Arson or other set fires:												
Arson/suspected arson	4 704	64 964 998	141	56	20	6	1	0	15	4	4	0
Other set fires	6 661	167 056 159	126	96	27	6	2	4	9	5	2	0
Misuse of source of ignition:												
Smoker's material	731	8 407 598	13	39	21	9	1	0	14	6	0	0
Child playing	827	12 517 956	26	34	36	56	3	0	1	2	20	0
Welding, cutting, thawing	264	5 060 644	9	13	0	0	1	0	0	0	0	0
Unclassified	4 777	69 524 890	140	197	106	13	0	0	12	10	12	0
Misuse of material ignited	2 165	34 741 755	36	129	107	28	1	0	3	2	9	0
Mechanical, electrical failure, malfunction	13 422	209 150 857	55	152	48	16	4	0	9	3	5	0
Construction, design or installation deficiency	1 667	25 297 965	26	14	10	2	0	0	2	0	3	0
Misuse of equipment	1 390	12 244 553	14	49	14	2	0	0	3	0	0	0
Human failing:												
Asleep	98	1 355 083	0	13	2	2	1	0	2	0	0	0
Suspected impairment by alcohol, drugs, medication	77	1 759 859	4	19	7	1	4	0	6	3	1	2
Miscellaneous	6 495	151 252 148	39	226	134	35	13	0	37	14	10	0
Vehicle accident	525	5 105 812	0	9	8	1	0	0	3	0	0	0
Miscellaneous	22 074	413 452 595	259	165	139	22	455	1	58	42	31	48
<b>Total</b>	<b>65 877</b>	<b>1 181 892 872</b>	<b>888</b>	<b>1 211</b>	<b>679</b>	<b>199</b>	<b>486</b>	<b>5</b>	<b>174</b>	<b>91</b>	<b>97</b>	<b>50</b>

FF - Firefighters M - Men W - Women C - Children Uncl. - Unclassified

**Figure 5 - Act or Omission Causing Fire**

**Summary 1993**

# Appendix

## Federal, Provincial and Territorial Fire Marshals and Fire Commissioners

Mr. R. McCullough  
Fire Commissioner  
Department of Community Services  
1855 Victoria Avenue  
Regina, Saskatchewan  
S4P 3T2

Mr. R. Dumala, P. Eng.  
Fire Commissioner  
Ministry Of Municipal Affairs, Recreation and Culture  
800 Johnson Street, 3rd Floor  
Victoria, British Columbia  
V8V 1X4

Mr. Robert Cormier  
Fire Marshal  
Department of Labour  
P.O. Box 697  
5151 Terminal Rd.  
Halifax, Nova Scotia  
B3J 2T8

Mr. Fred Hollett  
Fire Commissioner  
Department Of Municipal and Provincial Affairs  
Pleasantville Fire Station  
Building 901, Box 9700  
St. John's, Newfoundland  
A1B 4J6

Mr. Eric Kieken  
Fire Marshal  
Fire Prevention Service  
Government Of N.W.T.  
4916-49th Street  
Yellowknife, Northwest Territories  
X1A 2L9

Mr. David Blacquiere  
Fire Marshal  
Dept. Of Municipal Affairs  
31 Gordon Drive  
Charlottetown, Prince Edward Island  
C1A 7N8

Mr. Doug Popowich  
Fire Commissioner  
Manitoba Labour  
Room 508-401 York Avenue  
Winnipeg, Manitoba  
R3C 0P8

Lt. Col. Stewart Moore  
Canadian Forces Fire Marshal  
101 Colonel By Drive  
Ottawa, Ontario  
K1A 0K2

Mr. Daniel St. Onge  
Direction de l'expertise en  
sécurité incendie et sinistre  
2525 boul. Laurier, 2e étage  
Tour Laurentides  
Sainte Foy, Québec  
G1V 2L2

Mr. T. Makey  
Fire Commissioner  
Alberta Labour  
Room 601, I.B.M. Building  
10808 - 99th Ave.  
Edmonton, Alberta  
T5K 0G5

Mr. B.A. Moyle  
Fire Marshal  
Ministry of The Solicitor General  
and Correctional Services  
Place Nouveau Bldg.  
5775 Yonge St. 7th floor  
North York, Ontario  
M2M 4J1

Mr. J. Holesworth  
Fire Marshal  
Government Of The Yukon  
2nd And Hansen Streets  
P.O. Box 2703  
Whitehorse, Yukon  
Y1A 2C6

Mr. Jim Stith  
Fire Marshal  
Department of Municipal Affairs  
Culture and Housing  
65 Brunswick Street, 3rd floor  
Fredericton, New Brunswick  
E3B 1G5

Mr. P.W. Worona  
Director  
Occupational, Safety and Health  
and Fire Prevention Division  
Human Resources Development Canada  
Ottawa, Ontario  
K1A 0J2