

*Council of  
Canadian Fire Marshals  
and Fire Commissioners*



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

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## **Annual Report 1994**



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## **Fire Losses in Canada**

**Annual Report  
1994**



**Fire Losses in Canada**

The 1994 "Fire Losses in Canada" Annual Report is prepared by the Occupational Safety and Health and Fire Prevention Division, Human Resources Development Canada and is published by the Council of Canadian Fire Marshals and Fire Commissioners. Copies may be purchased at a cost of \$10.00 each (taxes included) from the Council. 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. At their Annual meeting in July 1996, a new constitution and rules and regulations were approved and in addition a new name for the Association: "Council of Canadian Fire Marshals and Fire Commissioners".

The 1994 Annual Report of Fire Losses in Canada is the seventy-third 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 1994, the fire death total of 377 was a decrease (10.61%) from the 417 recorded in 1993.

The total number of fire injuries reported in 1994, 3 539 is an increase of 2.19% from that recorded in 1993.

The number of reported fires 66 719, is an increase (1.28%) from the 1993 figure of 65 877.

The property loss figure of \$1 151 546 461 represents a decrease of 2.64% from the 1993 dollar figure of \$1 181 892 872.

The "Residential" property classification continues to account for the largest number of fires. In 1994, there were 25 098 fires in this category, 38% of the Canadian total. These incidents resulted in 273 deaths or approximately 72% of the nation's fire fatalities. The monetary loss amounted to \$458 million, which is 40% of the total loss.

The property classification showing the second largest number of fires is "Special Properties," where 23 442 fires were reported, accounting for approximately 35% of the overall Canadian total. Vehicle fires accounted for 17 631 incidents of all fires within this property classification, amounting to a dollar loss of \$86 million. The total dollar loss for the "Special Properties" classification is \$116 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 11 346 and a dollar loss of \$157 million, "Cooking Equipment" with 6 834 incidents and a loss of \$55 million, and "Electrical Distribution Equipment" with 4 978 incidents and a loss of \$116 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 13 472. The 1994 dollar loss for this category is \$180 million. "Arson or Other Set Fires" accounted for 10 946 incidents, a decrease of 3.83% from last year. However, the 1994 dollar loss of \$192 million from "Arson and Other Set Fires" was a decrease of 20.44% from the 1993 figure of \$232 million.



In summary, this latest information indicates, the total number of fire deaths decreased from that recorded in 1993, the total number of fires increased 1.28% from the previous year, and the dollar loss decreased 2.64%. Typically the category of "Residential Properties" remains an area of utmost concern, accounting for 72% of the total number of fire deaths, 38% of the total number of fires, and 40% 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 1985 - 1994

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

Year	Population	Number of Fires	\$ Loss	Per Capita \$ Loss	Fire Deaths	Fire Death Rate *	
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	
1994	29 686 694	66 719	1 151 546 461	38.79	377	1.27	
<b>10-Year Average</b>			67 935	1 108 317 241	40.39	484	2.03

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

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

**Summary 1985 - 1994**

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

**Summary 1985 - 1994**

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

**Summary 1985 - 1994**

## Section II

### Fire Losses, 1994 and 10-Year Average

**Table 2 - Property Losses by Jurisdiction**

Jurisdiction	Population 1994	Number of Fires		\$ Loss		Per Capita \$ Loss	
		1994	10-Year Average	1994 \$	10-Year Average	1994 \$	10-Year Average
Alberta	2 601 282	6 696	7 539	95 984 125	110 267 786	36.90	44.43
British Columbia	3 668 400	7 430	7 638	164 581 639	151 295 453	44.86	47.13
Manitoba	1 143 740	6 931	6 028	66 518 799	54 838 811	58.16	49.44
New Brunswick	750 800	1 993	2 109	22 802 783	23 231 500	30.37	25.90
Newfoundland	575 600	678	738	42 322 752	21 708 807	73.60	35.91
Nova Scotia	938 300	2 303	2 441	24 504 863	25 003 199	26.12	27.26
Ontario	10 927 000	23 422	23 089	365 882 298	333 366 054	33.48	33.80
Prince Edward Island	131 600	537	780	4 024 532	5 905 425	30.58	46.39
Quebec	7 218 373	12 433	13 645	306 203 297	326 799 094	42.42	48.24
Saskatchewan	1 007 400	3 065	2 877	27 406 499	35 739 693	27.21	35.54
Northwest Territories	57 649	211	175	15 368 310	6 256 738	266.58	113.30
Yukon	31 928	268	217	1 761 342	13 713 305	55.17	95.27
National Defence	99 695	138	182	847 541	3 007 145	8.50	10.27
Indian Reserves	313 184	546	402	9 101 393	8 210 238	29.06	26.01
Federal Properties	221 643	68	129	4 236 288	3 268 302	19.11	6.94
<b>Summary</b>	<b>29 686 694</b>	<b>66 719</b>	<b>67 989</b>	<b>1 151 546 461</b>	<b>1 122 579 550</b>	<b>38.79</b>	<b>38.80</b>

## 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	25 098	37.62	458 543 212	39.82	2 279	64.40	273	72.41
Assembly	2 015	3.02	68 003 871	5.91	97	2.74	0	0.00
Institutional	401	0.60	3 967 971	0.34	31	0.88	2	0.53
Business and personal service	494	0.74	15 028 233	1.31	38	1.07	0	0.00
Mercantile	1 788	2.68	95 714 568	8.31	172	4.86	2	0.53
Industrial manufacturing	1 396	2.09	118 137 790	10.26	102	2.88	2	0.53
Storage	1 351	2.02	47 146 520	4.09	69	1.95	3	0.80
Special	23 442	35.14	116 712 770	10.14	255	7.21	37	9.82
Farm	1 050	1.57	59 226 664	5.14	28	0.79	2	0.53
Miscellaneous*	9 684	14.51	169 064 862	14.68	468	13.22	56	14.85
<b>Total</b>	<b>66 719</b>	<b>100.00</b>	<b>1 151 546 461</b>	<b>100.00</b>	<b>3 539</b>	<b>100.00</b>	<b>377</b>	<b>100.00</b>

\* 1994 total losses for Alberta, Newfoundland and Indian Reserves have been included under "Miscellaneous" as their losses by specific property classifications are not available.

### 3(a) Residential Occupancies

Jurisdiction	1994				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	1 867	24.76	30 037 600	27.24
British Columbia	2 691	40.19	68 271 043	41.48	3 097	40.55	65 261 783	43.14
Manitoba	1 876	25.25	25 259 357	37.97	1 901	31.54	21 722 030	39.61
New Brunswick	1 337	19.29	15 046 267	65.98	1 356	64.30	12 109 089	52.12
Newfoundland*	N/A	N/A	N/A	N/A	318	43.09	5 519 094	25.42
Nova Scotia	1 380	59.92	15 511 775	63.30	1 510	61.86	13 752 699	55.00
Ontario	10 000	42.69	174 023 824	47.56	10 772	46.65	151 963 142	45.58
Prince Edward Island	399	74.30	2 393 428	59.47	557	71.41	2 401 197	40.66
Quebec	6 379	51.31	141 984 175	46.37	7 402	54.25	142 292 489	43.54
Saskatchewan	787	25.68	6 401 640	23.36	844	29.34	11 034 013	30.87
Northwest Territories	106	50.24	7 925 232	51.57	91	52.00	3 075 595	49.16
Yukon	95	35.45	1 380 750	78.39	86	39.63	1 123 764	65.47
National Defence	46	33.33	304 991	35.99	71	39.01	577 232	19.20
Indian Reserves*	N/A	N/A	N/A	N/A	172	42.79	4 431 377	53.97
Federal Properties	2	2.94	40 730	0.96	5	3.88	94 838	2.90
<b>Total</b>	<b>25 098</b>	<b>37.62</b>	<b>458 543 212</b>	<b>39.82</b>	<b>30 049</b>	<b>44.23</b>	<b>465 395 942</b>	<b>41.99</b>

Percentages used in this table relate to jurisdictional totals.

\* 1994 total losses for Alberta, Newfoundland and Indian Reserves have been included under "Table 3(n) Miscellaneous Properties" as their losses by specific classifications are not available.



### 3(b) Residential - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
One and two family residence	16 640	333 042 499	1 262	172
Apartment, tenement, flat	5 814	68 368 871	772	58
Rooming, boarding, lodging	283	4 946 245	82	10
Hotel, inn, lodge	244	12 923 685	45	4
Motor hotel, motel	98	1 859 376	6	2
Dormitory	60	431 272	1	0
Mobile home, trailer	697	12 226 730	34	14
Miscellaneous	1 262	24 744 534	77	13
<b>Total</b>	<b>25 098</b>	<b>458 543 212</b>	<b>2 279</b>	<b>273</b>

### 3(c) Assembly

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	290	3.90	11 650 314	7.08
Manitoba	116	1.67	6 631 331	9.97
New Brunswick	35	1.76	216 110	0.95
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	64	2.78	1 378 404	5.63
Ontario	926	3.95	19 242 648	5.26
Prince Edward Island	4	0.74	300,000	7.45
Quebec	443	3.56	21 029 687	6.87
Saskatchewan	93	3.03	2 825 399	10.31
Northwest Territories	13	6.16	4 538 300	29.53
Yukon	8	2.99	5 100	0.29
National Defence	11	7.97	51 292	6.05
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	12	17.65	129 286	3.05
<b>Total</b>	<b>2 015</b>	<b>3.02</b>	<b>68 003 871</b>	<b>5.91</b>

Percentages used in this table relate to jurisdictional totals.

### 3(d) Assembly - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Theatre, studio, auditorium	30	2 692 024	4	0
Amusement, recreation place	221	6 242 178	5	0
School, college, university	645	11 856 526	19	0
Church, funeral parlour	118	9 738 098	13	0
Club, social, sport	111	5 517 702	6	0
Museum, art gallery, library	21	358 141	0	0
Food, beverage establishment	698	28 521 403	43	0
Passenger terminal, station	73	1 383 868	6	0
Miscellaneous	98	1 693 931	1	0
<b>Total</b>	<b>2 015</b>	<b>68 003 871</b>	<b>97</b>	<b>0</b>

### 3(e) Institutional

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	N/A	N/A	N/A	N/A
British Columbia	22	0.30	97 560	0.06
Manitoba	32	0.46	16 400	0.02
New Brunswick	8	0.40	86 954	0.38
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	26	1.13	21 169	0.09
Ontario	183	0.78	605 085	0.17
Prince Edward Island	1	0.19	0	0.00
Quebec	83	0.67	2 034 640	0.66
Saskatchewan	11	0.36	510 702	1.86
Northwest Territories	3	1.42	230	0.00
Yukon	2	0.75	40 000	2.27
National Defence	2	1.45	393	0.05
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	28	41.18	554 898	13.10
<b>Total</b>	<b>401</b>	<b>0.60</b>	<b>3 967 971</b>	<b>0.61</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	82	631 330	9	0
Home for the aged	97	1 123 157	11	0
Child care	24	240 324	2	0
Hospital, sanatorium, clinic	153	404 781	7	1
Miscellaneous	45	1 568 379	2	1
Total	401	3 967 971	31	2

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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	89	1.20	1 959 102	1.19
Manitoba	25	0.36	90 923	0.14
New Brunswick	14	0.70	181 713	0.80
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	16	0.69	612 758	2.50
Ontario	182	0.78	3 964 391	1.08
Prince Edward Island	10	1.86	73 372	1.82
Quebec	135	1.09	7 629 969	2.49
Saskatchewan	7	0.23	129 000	0.47
Northwest Territories	2	0.95	170 040	1.11
Yukon	2	0.75	700	0.04
National Defence	3	2.17	75	0.01
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	9	13.24	216 190	5.10
<b>Total</b>	<b>494</b>	<b>0.74</b>	<b>15 028 233</b>	<b>1.31</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	198	2.66	17 709 568	10.76
Manitoba	59	0.85	5 435 981	8.17
New Brunswick	42	2.11	1 764 232	7.74
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	49	2.13	968 548	3.95
Ontario	756	3.23	30 860 304	8.43
Prince Edward Island	7	1.30	0	0.00
Quebec	599	4.82	36 194 682	11.82
Saskatchewan	57	1.86	1 573 011	5.74
Northwest Territories	5	2.37	1 036 200	6.74
Yukon	4	1.49	53 300	3.03
National Defence	11	7.97	118 742	14.01
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	1	1.47	0	0.00
Total	1 788	2.68	95 714 568	8.31

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	174	2.34	25 897 540	15.74
Manitoba	83	1.20	5 860 604	8.81
New Brunswick	42	2.11	2 912 112	12.77
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	28	1.22	1 150 438	4.69
Ontario	665	2.84	44 103 239	12.05
Prince Edward Island	2	0.37	7 500	0.19
Quebec	374	3.01	37 556 094	12.27
Saskatchewan	22	0.72	242 136	0.88
Northwest Territories	3	1.42	38 127	0.25
Yukon	2	0.75	120 000	6.81
National Defence	0	0.00	0	0.00
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	1	1.47	250 000	5.90
<b>Total</b>	<b>1 396</b>	<b>2.09</b>	<b>118 137 790</b>	<b>10.26</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	224	3.01	6 680 044	4.06
Manitoba	259	3.74	8 044 858	12.09
New Brunswick	77	3.86	873 120	3.83
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	62	2.69	2 114 264	8.63
Ontario	282	1.20	12 479 589	3.41
Prince Edward Island	6	1.12	274 993	6.83
Quebec	271	2.18	14 214 824	4.64
Saskatchewan	145	4.73	1 510 259	5.51
Northwest Territories	14	6.64	924 669	6.02
Yukon	1	0.37	5 000	0.28
National Defence	7	5.07	23 300	2.75
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	3	4.41	1 600	0.04
<b>Total</b>	<b>1 351</b>	<b>2.02</b>	<b>47 146 520</b>	<b>4.09</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	3 480	46.84	27 323 412	16.60
Manitoba	4 145	59.80	7 545 131	11.34
New Brunswick	397	19.92	1 048 848	4.59
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	587	25.49	2 101 249	8.57
Ontario	9 376	40.03	42 828 485	11.71
Prince Edward Island	77	14.34	99 348	2.47
Quebec	3 547	28.53	21 400 580	6.99
Saskatchewan	1 583	51.65	10 620 550	38.75
Northwest Territories	52	24.64	255 997	1.67
Yukon	146	54.48	131 842	7.49
National Defence	44	31.88	324 899	38.33
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	8	11.76	3 034 429	71.63
<b>Total</b>	<b>23 442</b>	<b>35.14</b>	<b>116 712 770</b>	<b>10.14</b>

Percentages used in this table relate to jurisdictional totals.

### 3(l) Special Properties - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Outdoor property	5 395	6 977 905	25	9
Special connecting properties	23	407 377	0	0
Construction, demolition, vacant	248	16 525 666	11	0
Watercraft	198	2 704 663	14	1
Rail, transport vehicle and equipment	141	3 269 138	4	0
Ground transport vehicle	16 508	65 966 631	163	24
Aircraft	8	78 600	1	0
Special vehicle	776	14 229 922	17	2
Pier, wharf	145	6 552 868	20	1
<b>Total</b>	<b>23 442</b>	<b>116 712 770</b>	<b>255</b>	<b>37</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	48	0.65	3 606 191	2.19
Manitoba	161	2.32	6 832 072	10.27
New Brunswick	9	0.45	591 156	2.59
Newfoundland	N/A	N/A	N/A	N/A
Nova Scotia	17	0.74	219 005	0.89
Ontario	449	1.92	29 565 338	8.08
Prince Edward Island	25	4.66	875 387	21.75
Quebec	144	1.16	14 333 988	4.68
Saskatchewan	196	6.39	3 183 527	11.62
Northwest Territories	1	0.47	20 000	0.13
Yukon	0	0.00	0	0.00
National Defence	0	0.00	0	0.00
Indian Reserves	N/A	N/A	N/A	N/A
Federal Properties	0	0.00	0	0.00
<b>Total</b>	<b>1 050</b>	<b>1.57</b>	<b>59 226 664</b>	<b>5.14</b>

Percentages used in this table relate to jurisdictional totals.

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

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta*	*6 696	100.0	*95 984 125	100.0
British Columbia	214	2.88	1 380 865	0.84
Manitoba	175	2.52	802 142	1.21
New Brunswick	32	1.61	84 271	0.37
Newfoundland*	*678	100.0	*42 322 752	100.0
Nova Scotia	74	3.21	427 313	1.74
Ontario	603	2.57	8 209 395	2.24
Prince Edward Island	6	1.12	504	0.01
Quebec	458	3.68	9 824 658	3.21
Saskatchewan	164	5.35	410 275	1.50
Northwest Territories	12	5.69	459 515	2.99
Yukon	8	2.99	24 650	1.40
National Defence	14	10.14	23 849	2.81
Indian Reserves*	*546	100.0	*9 101 393	100.0
Federal Properties	4	5.88	9 155	0.22
<b>Total</b>	<b>9 684</b>	<b>14.51</b>	<b>169 064 862</b>	<b>14.68</b>

Percentages used in this table relate to jurisdictional totals.

\* 1994 total losses for Alberta, Newfoundland and Indian Reserves 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)	956	19 806 732	4	1	1	1	12	0	4	0	0	0
Cooking equipment	6 834	55 626 664	93	227	177	200	22	1	8	6	23	0
Heating equipment	5 331	97 004 857	80	61	33	37	8	0	7	2	0	8
Appliances and equipment	2 147	31 707 136	11	20	12	13	4	0	1	4	1	0
Electrical distribution equipment	4 978	116 639 211	143	58	19	44	1	0	1	3	3	0
Other electrical equipment	1 262	19 924 420	17	23	9	16	4	0	2	0	2	0
Smoker's material and "open flame":												
Smoker's material	2 535	32 001 381	62	152	66	30	9	0	29	12	2	1
Match, lighter (not used with smoking), lamp, candle, taper	2 749	37 935 297	59	68	54	46	8	0	25	5	23	0
Cutting torch, welding equipment, varied torches	821	24 612 278	41	32	2	3	2	0	1	0	0	0
Hot ashes, embers (non-smoking material)	370	5 609 595	2	2	1	0	4	0	0	1	0	0
Smoker's material or "open flame", unclassified	4 871	57 367 506	78	12	3	109	0	0	2	0	23	0
Exposure	902	16 736 793	6	6	1	3	2	0	3	0	0	0
Miscellaneous	12 897	124 602 075	111	98	17	40	3	0	16	6	4	0
Undetermined	20 086	512 602 516	362	124	54	101	415	0	43	17	38	50
<b>Total</b>	<b>66 719</b>	<b>1 151 546 461</b>	<b>1069</b>	<b>884</b>	<b>449</b>	<b>643</b>	<b>494</b>	<b>1</b>	<b>142</b>	<b>56</b>	<b>119</b>	<b>59</b>

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

**Figure 4 - Source of Ignition**

**Summary 1994**

## Section VI

### Table 6 - Fire Deaths and Injuries

#### Table 6(a) - Fire Deaths, 1994 and 10-Year Summary

Jurisdiction	1994						10-Year Average		
	Firefighters	Men	Women	Children	Unclassified	Total	Fire Death Rate *	Average Number of Deaths	Fire Death Rate *
Alberta	0	0	0	0	22	22	0.85	46	1.84
British Columbia	0	23	2	4	1	30	0.82	46	1.49
Manitoba	0	13	8	13	0	34	2.97	27	2.50
New Brunswick	0	11	3	3	0	17	2.26	20	2.61
Newfoundland	0	0	0	0	9	9	1.56	15	2.76
Nova Scotia	0	6	2	5	0	13	1.39	26	2.83
Ontario	0	72	38	19	0	129	1.18	147	1.55
Prince Edward Island	0	2	1	0	0	3	2.28	4	3.49
Quebec	1	0	0	73	2	76	1.05	37	1.38
Saskatchewan	0	12	2	8	0	22	2.18	22	2.17
Northwest Territories	0	3	0	0	0	3	5.20	5	8.78
Yukon	0	0	0	0	0	0	0.00	2	6.91
National Defence	0	0	0	0	0	0	0.00	1	0.67
Indian Reserves	0	0	0	0	19	19	6.07	25	8.29
Federal Properties	0	0	0	0	0	0	0.00	0	0.00
<b>Total</b>	<b>1</b>	<b>142</b>	<b>56</b>	<b>125</b>	<b>53</b>	<b>377</b>	<b>1.27</b>	<b>423</b>	<b>1.42</b>

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



**Table 6(b) - Fire Injuries, 1994 and 10-Year Summary**

Jurisdiction	1994						10-Year Average		
	Firefighters	Men	Women	Children	Unclassified	Total	Fire Injury Rate *	Average Number of Injuries	Fire Injury Rate *
Alberta	0	0	0	0	368	368	14.15	426	17.37
British Columbia	111	175	63	49	30	428	11.67	399	12.73
Manitoba	83	110	65	27	0	285	24.92	263	23.47
New Brunswick	27	37	11	30	0	105	13.98	74	7.68
Newfoundland	0	0	0	0	24	24	4.17	22	3.69
Nova Scotia	26	12	7	5	0	50	5.33	73	8.19
Ontario	616	524	294	132	0	1 566	14.33	1 805	18.63
Prince Edward Island	0	0	0	0	0	0	0.00	n/a	0.16
Quebec	197	0	0	400	0	597	8.27	550	8.22
Saskatchewan	8	3	4	0	52	67	6.65	84	8.52
Northwest Territories	2	9	2	0	0	13	22.55	17	30.39
Yukon	0	1	2	0	0	3	9.40	4	17.03
National Defence	0	5	1	0	0	6	6.02	12	8.15
Indian Reserves	0	0	0	0	20	20	6.39	20	2.61
Federal Properties	0	5	2	0	0	7	3.16	6	2.62
<b>Total</b>	<b>1 070</b>	<b>881</b>	<b>451</b>	<b>643</b>	<b>494</b>	<b>3 539</b>	<b>11.92</b>	<b>3 755</b>	<b>12.65</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	5 295	67 799 787	121	45	29	8	2	0	20	4	1	0
Other set fires	5 651	123 842 274	114	30	10	63	1	0	7	0	13	0
Misuse of source of ignition:												
Smoker's material	643	8 735 361	11	39	20	4	6	0	7	0	2	0
Child playing	901	14 291 835	25	31	29	45	5	0	3	2	17	0
Welding, cutting, thawing	237	10 857 018	20	10	1	2	4	0	0	0	0	0
Unclassified	4 840	72 738 978	84	102	54	195	0	1	12	8	28	0
Misuse of material ignited	2 337	25 967 355	27	112	65	44	8	0	12	6	12	0
Mechanical, electrical failure, malfunction	13 472	180 031 452	180	107	38	68	16	0	2	7	9	0
Construction, design or installation deficiency	1 577	32 128 491	40	7	3	7	2	0	1	2	0	0
Misuse of equipment	1 235	12 528 588	18	21	15	8	8	0	2	1	1	0
Human failing:												
Asleep	85	1 874 136	3	13	3	4	1	0	5	1	0	0
Suspected impairment by alcohol, drugs, medication	91	1 367 398	0	13	1	4	2	0	12	2	0	0
Miscellaneous	6 703	97 968 822	122	221	134	78	18	0	12	5	6	0
Vehicle accident	571	6 601 231	16	8	0	4	1	0	5	0	0	0
Miscellaneous	23 081	494 813 735	288	123	49	109	420	0	43	18	38	50
<b>Total</b>	<b>66 719</b>	<b>1 151 546 461</b>	<b>1 069</b>	<b>882</b>	<b>451</b>	<b>643</b>	<b>494</b>	<b>1</b>	<b>143</b>	<b>56</b>	<b>127</b>	<b>50</b>

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

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

**Summary 1994**

# 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. D. Gillis  
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, P.O. Box 2000  
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