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February 21, 1990

To: The President and Members of the Association of Canadian Fire Marshals and Fire Commissioners

This 1988 Annual Report of Fire Losses in Canada is the sixty-seventh edition to be published. As in the past years, it is compiled from information supplied by the Association of Canadian Fire Marshals and Fire Commissioners (ACFM & FC) and Statistics Canada. The report is made available to the public by distribution through provincial and territorial fire marshals and fire commissioners. Copies are also forwarded to various public and government libraries and in response to specific requests.

For 1988, the numbers of fire deaths and fire injuries are continuing their downward trend, but the number of fires and the associated dollar losses are higher than those of the previous year. The section following, entitled "The Record," elaborates further on the 1988 losses.

I would like to thank the members of the ACFM & FC and Statistics Canada for their cooperation in providing the necessary data for this report.

Yours truly,

A handwritten signature in dark ink, appearing to read "T.J. Dunfield", with a stylized circular flourish at the beginning.

T.J. Dunfield

Fire Commissioner of Canada

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THE RECORD

The 1988 fire death total of 498 is a decline of approximately 3% from the 1987 figure of 516. As was reported last year, the fire death total is in keeping with the downward trend started in 1981.

The total number of fire injuries reported in 1988, 3 630, is a decrease of 6% from that recorded in 1987.

The number of reported fires, 70 624, is an increase of 5% from the record in 1987. This is the first time in eight years that we have seen an increase over the previous year.

The property loss figure of \$1 004 932 771 represents an increase of approximately 5% from the 1987 dollar figure.

The "Residential" property classification continues to account for the largest number of fires. In 1988 there were 31 752 in this category, 45% of the Canadian total. These fires resulted in 415 deaths, or approximately 83% of the nation's fire fatalities, and 2 492 injuries, or approximately 69% of the nation's fire injuries. The monetary loss amounted to \$442 million, which is 44% of the total loss. There was an increase of approximately 3% in the total number of residential fires reported in 1988, compared with 1987; the number of fire deaths decreased by 5%; the number of fire injuries decreased by 4%, and there was a notable increase of 15% in the dollar loss. This year's trend in residential fires is identical to that of the overall 1988 report: increases in both the number of fires and the associated dollar loss, and decreases in both the number of fire deaths and the number of fire injuries.

The property classification showing the second largest number of fires is "Special Properties," with 25 728 fires reported, accounting for approximately 36% of the Canadian total. Vehicle fires accounted for 17 914 incidents, or approximately 70% of all fires within this property classification, and a dollar loss of \$58 million. The total dollar loss for the "Special Properties" classification is approximately \$107 million, or 11% of the total. The dollar loss of \$107 million represents a notable 22% increase from the 1987 dollar loss reported for this same property classification.

In the category "Source of Ignition," the following three groups (exclusive of miscellaneous and undetermined) lead the list in reported number of fires: "Smoker's Material and Open Flames" with 14 496 fires and a dollar loss of \$185 million, "Cooking Equipment" with 8 946 fires and a dollar loss of \$60 million, and "Heating Equipment" with 7 416 fires and a dollar loss of \$94 million.

The 3 318 fires reported in the category of "Appliances and Equipment" is a notable increase of 45% from last year, and the dollar loss of \$32.6 million is another notable increase of 50%.

Table 1 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, 17 661, an increase of approximately 1%. The 1988 dollar loss of \$195.4 million in this category is a notable decrease of approximately 17% from the previous year. "Arson or Other Set Fires" accounted for 9 814 incidents, an increase of 9% from last year. The 1988 dollar loss of \$175.7 million for the "Arson or Other Set Fires" category was an increase of 11% from the \$157.7 million reported in 1987.

In summary, from the latest information compiled, the total number of fire deaths decreased approximately 3% from the previous year, the number of fire injuries decreased 6%, the total number of fires increased approximately 5%, and the dollar loss increased approximately 5%. As in previous years, the category of "Residential Properties" remains the area of utmost concern, accounting for 83% of fire deaths and approximately 69% of the fire injuries, with no signs of a downward trend.

As has been reported in previous years, the large number of fires that occurred as a result of "Smoker's Material and Open Flames" and associated dollar loss, as well as the number of "Arson or Other Set Fires" and the associated dollar loss, are indicative of two other areas of grave concern.

Again it is most gratifying to note a continuation of the downward trend in the number of fire deaths and fire injuries. The increase in the number of fires, and the associated dollar loss, is an indication that we must continue our vigilance against the peril of fire.

SECTION I

SUMMARY 1979-1988

TABLE 1 - CANADA FIRE LOSSES AND FIRE DEATHS

Year	Population	Number of Fires	Loss \$	Per Capita \$	Fire Deaths	Fire Death Rate*
1979	23 914 400	83 107	756 427 141	31.63	733	3.07
1980	24 088 500	85 530	978 986 708	40.64	833	3.46
1981	24 213 000	79 263	905 422 511	37.39	694	2.87
1982	24 658 500	76 199	998 888 902	40.51	675	2.74
1983	24 889 000	70 953	815 967 016	32.78	539	2.17
1984	25 145 000	70 730	929 479 253	36.96	598	2.38
1985	25 380 000	70 061	925 955 586	36.48	550	2.17
1986	25 354 018	67 884	973 458 302	38.39	553	2.18
1987	25 625 200	67 168	956 207 142	37.32	516	2.01
1988	25 949 700	70 624	1 004 932 771	38.73	498	1.92
10-YEAR AVERAGE		74 152	924 572 533	37.08	619	2.50

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

Figure 1
PROPERTY LOSS

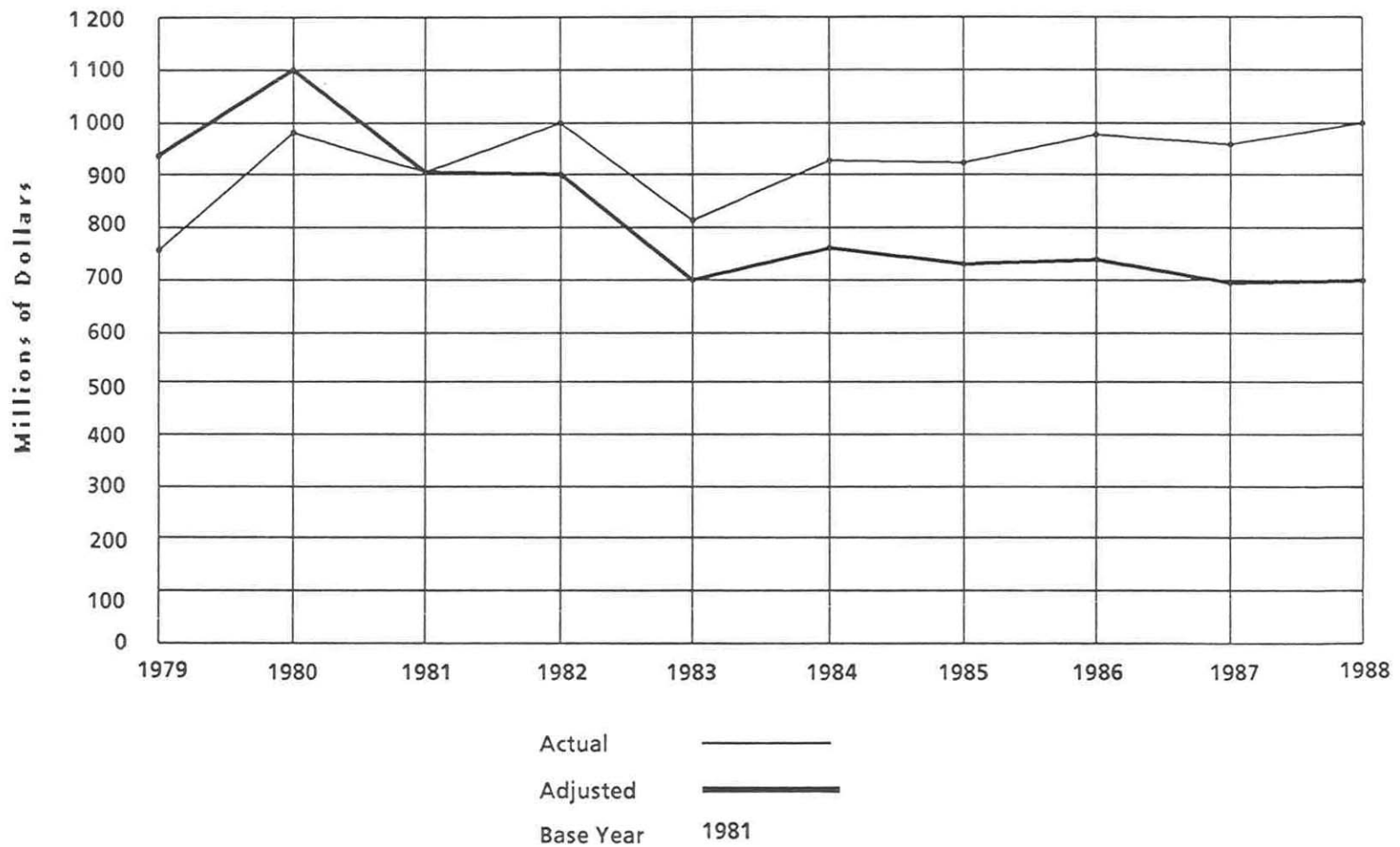
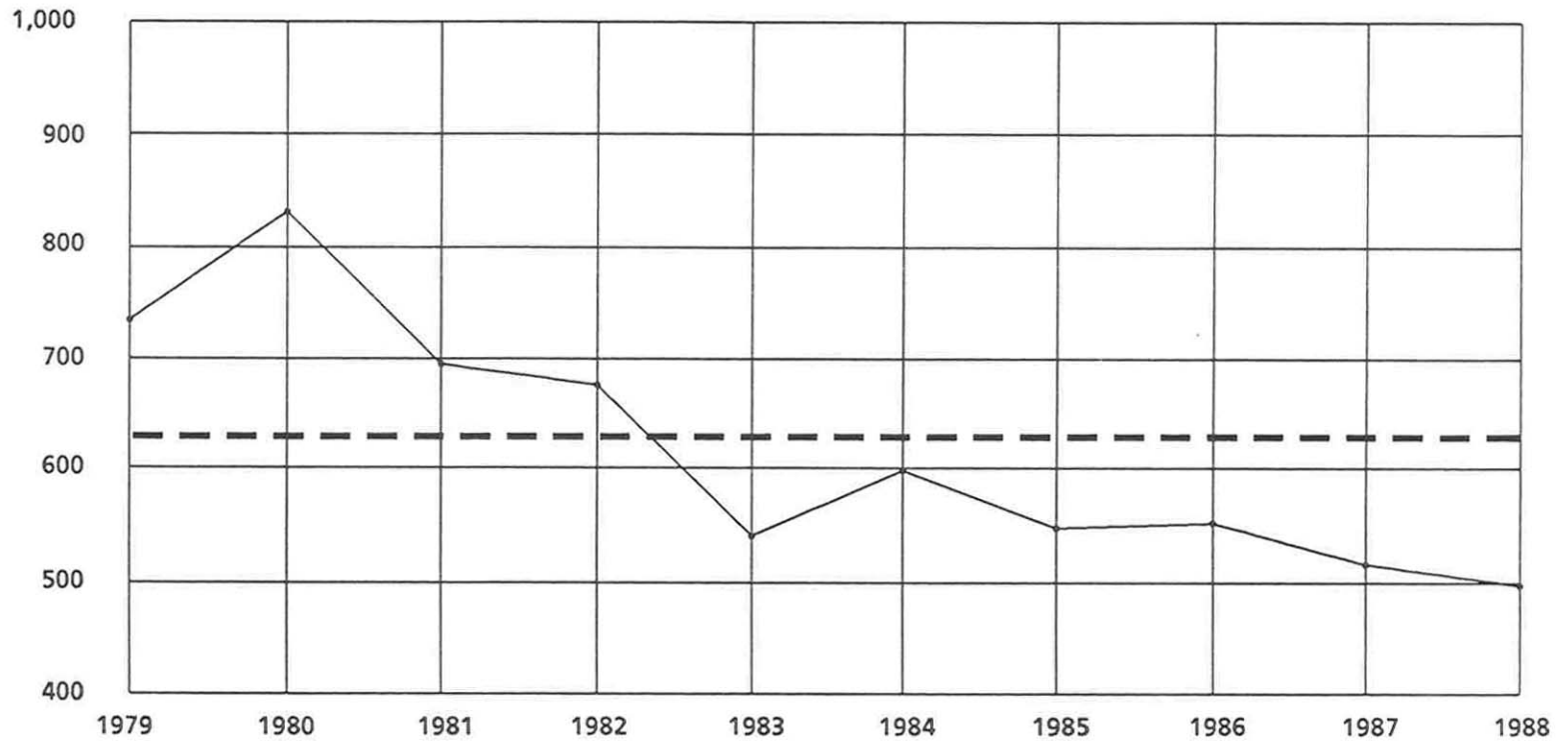


Figure 2
FIRE DEATHS



10-year average - - - -

SECTION II

FIRE LOSSES, 1988 AND 10-YEAR AVERAGE

TABLE 2 - PROPERTY LOSSES BY JURISDICTION

Jurisdiction	Population 1988	Number of Fires		Loss \$		Loss per capita \$	
		1988	10-Year Average	1988	10-Year Average	1988	10-Year Average
Alberta	2 403 900	8 278	9 494	87 353 207	122 675 363	36.34	53.53
British Columbia	2 989 200	7 499	7 465	119 633 561	118 972 099	40.02	42.17
Manitoba	1 085 500	7 010	6 501	60 710 918	43 743 054	55.93	41.43
New Brunswick	714 800	2 068	1 755	12 673 476	17 783 690	17.73	25.04
Newfoundland*	568 500	768	907	14 822 123	16 796 144	26.07	29.15
Nova Scotia	884 600	2 466	2 632	22 969 760	26 623 899	25.97	30.76
Ontario	9 442 000	23 689	24 402	317 302 152	238 783 842	33.61	26.69
Prince Edward Island	128 900	981	631	5 994 148	4 304 276	46.50	34.25
Quebec	6 643 800	14 480	16 765	307 494 374	291 510 913	46.28	44.93
Saskatchewan	1 011 200	2 855	3 087	47 038 700	32 905 973	46.52	33.08
Northwest Territories	51 900	165	169	3 935 993	5 514 055	75.84	116.51
Yukon	25 400	97	148	1 371 094	1 736 217	53.98	76.54
National Defence	195 354	167	227	1 355 717	2 525 614	-	-
Federal Properties	227 427	101	330	2 277 548	6 212 582	-	-
CANADA	25 949 700	70 624	74 513	1 004 932 771	930 087 720	38.73	37.04

* Newfoundland statistics are unavailable. For all tables except Tables 4 and 8, 1987 figures have been substituted.

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	31 752	44.96	441 921 116	43.98	2 492	68.65	415	83.33
Assembly	2 144	3.04	77 905 957	7.75	129	3.55	1	0.20
Institutional	616	0.87	6 925 332	0.69	80	2.20	17	3.41
Business and personal service	620	0.88	20 499 955	2.04	31	0.85	0	0.00
Mercantile	2 093	2.96	114 685 181	11.41	156	4.30	3	0.60
Industrial manufacturing	1 976	2.80	94 784 896	9.43	178	4.90	11	2.21
Storage	1 775	2.51	57 276 550	5.70	114	3.14	2	0.40
Special	25 728	36.43	107 417 517	10.69	326	8.98	40	8.03
Farm	1 868	2.64	60 324 996	6.00	29	0.80	2	0.40
Miscellaneous	2 052	2.91	23 191 271	2.31	95	2.62	7	1.41
TOTAL	70 624	100.00	1 004 932 771	100.00	3 630	100.00	498	100.00

3(a) Residential Properties

Jurisdiction	1988				10-Year Average 1979 - 1988			
	Number of Fires	% of Total	Loss \$	% of Total	Number of Fires	% of Total	Loss \$	% of Total
Alberta	2 367	28.59	28 563 904	32.70	2 938	35.49	31 012 495	35.50
British Columbia	3 050	40.67	63 775 136	53.31	3 291	43.88	52 812 526	44.15
Manitoba	1 991	28.40	22 286 986	36.71	2 188	31.22	16 599 140	27.34
New Brunswick	1 280	61.90	8 114 262	64.03	1 079	52.18	10 390 693	81.99
Newfoundland	439	57.16	7 425 404	50.10	522	67.98	7 222 171	48.73
Nova Scotia	1 522	61.72	12 564 767	54.70	1 653	67.02	10 715 047	46.65
Ontario	11 161	47.11	145 384 050	45.82	11 536	48.70	99 828 176	31.46
Prince Edward Island	736	75.03	2 138 360	35.67	448	45.65	1 916 091	31.97
Quebec	8 139	56.21	131 413 486	42.74	9 826	67.86	121 338 506	39.46
Saskatchewan	867	30.37	17 186 800	36.54	1 109	38.85	11 293 755	24.01
Northwest Territories	94	56.97	1 576 101	40.04	95	57.70	1 858 508	47.22
Yukon	45	46.39	1 014 633	74.00	67	69.18	1 063 308	77.55
National Defence	60	35.93	472 227	34.83	106	63.23	497 691	36.71
Federal Properties	1	0.99	5 000	0.22	32	31.68	485 718	21.33
CANADA	31 752	44.96	441 921 116	43.98	34 890	49.40	367 033 825	36.52

Percentages used in Table 3 relate to jurisdictional totals.

3(b) Residential - Detail

Occupancy	Fires	Loss \$	Injuries	Deaths
One and two family residence	21 423	293 325 169	1 263	254
Apartment, tenement, flat	7 056	95 360 623	973	81
Rooming, boarding, lodging	372	6 220 208	68	17
Hotel, inn, lodge	386	14 825 501	46	6
Motor hotel, motel	159	2 876 799	11	4
Dormitory	90	1 109 839	16	0
Mobile home, trailer	1 039	14 457 640	72	26
Miscellaneous	1 227	13 745 337	33	10
TOTAL	31 752	441 921 116	2 482	398

3(c) Assembly

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	196	2.37	7 652 794	8.76
British Columbia	239	3.19	7 026 554	5.87
Manitoba	134	1.91	7 753 118	12.77
New Brunswick	40	1.93	151 955	1.20
Newfoundland	12	1.56	2 157 165	14.55
Nova Scotia	57	2.31	1 009 189	4.39
Ontario	867	3.66	14 970 570	4.72
Prince Edward Island	21	2.14	1 118 244	18.66
Quebec	494	3.41	29 444 487	9.58
Saskatchewan	54	1.89	6 489 100	13.80
Northwest Territories	2	1.21	25 300	0.64
Yukon	1	1.03	1 000	0.07
National Defence	18	10.78	39 577	2.92
Federal Properties	9	8.91	66 904	2.94
CANADA	2 144	3.04	77 905 957	7.75

3(d) Assembly - Detail

Occupancy	Fires	Loss \$	Injuries	Deaths
Theatre, studio, auditorium	50	1 454 261	8	0
Amusement, recreation place	237	12 656 758	12	0
School, college, university	529	18 492 183	26	0
Church, funeral parlour	125	5 861 504	13	0
Club, social, sport	120	5 354 117	3	0
Museum, art gallery, library	19	1 444 160	3	0
Food, beverage establishment	912	31 870 447	62	1
Passenger terminal, station	90	142 631	1	0
Miscellaneous	62	629 896	1	0
TOTAL	2 144	77 905 957	129	1

3(e) Institutional

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	45	0.54	249 943	0.29
British Columbia	51	0.68	527 762	0.44
Manitoba	33	0.47	3 050 551	5.02
New Brunswick	6	0.29	2 320	0.02
Newfoundland	5	0.65	237 431	1.60
Nova Scotia	28	1.14	69 744	0.30
Ontario	253	1.07	1 005 536	0.32
Prince Edward Island	3	0.31	2 500	0.04
Quebec	121	0.84	1 496 048	0.49
Saskatchewan	8	0.28	66 000	0.14
Northwest Territories	4	2.42	7 900	0.20
Yukon	0	0.00	0	0.00
National Defence	0	0.00	0	0.00
Federal Properties	59	58.42	209 597	9.20
CANADA	616	0.87	6 925 332	0.69

3(f) Institutional - Detail

Occupancy	Fires	Loss \$	Injuries	Deaths
Prison, jail, reformatory	128	728 382	7	0
Home for the aged	169	1 506 514	28	17
Child care facility	9	126 334	0	0
Hospital, sanatorium, clinic	265	4 164 945	43	0
Miscellaneous	45	399 157	2	0
TOTAL	616	6 925 332	80	17

3(g) Business and Personal Service

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	54	0.65	1 480 556	1.69
British Columbia	66	0.88	2 848 304	2.38
Manitoba	26	0.37	2 295 158	3.78
New Brunswick	21	1.02	401 825	3.17
Newfoundland	1	0.13	123 608	0.83
Nova Scotia	14	0.57	404 574	1.76
Ontario	234	0.99	4 045 850	1.28
Prince Edward Island	0	0.00	0	0.00
Quebec	184	1.27	8 421 164	2.74
Saskatchewan	8	0.28	5 600	0.01
Northwest Territories	1	0.61	200	0.01
Yukon	0	0.00	0	0.00
National Defence	2	1.20	153 000	11.29
Federal Properties	9	8.91	320 116	14.06
CANADA	620	0.88	20 499 955	2.04

3(h) Mercantile Properties

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	150	1.81	5 490 349	6.29
British Columbia	174	2.32	7 134 312	5.96
Manitoba	86	1.23	4 668 275	7.69
New Brunswick	24	1.16	708 264	5.59
Newfoundland	14	1.82	1 323 720	8.93
Nova Scotia	53	2.15	4 322 938	18.82
Ontario	884	3.73	50 730 582	15.99
Prince Edward Island	5	0.51	801 337	13.37
Quebec	631	4.36	35 973 529	11.70
Saskatchewan	58	2.03	3 431 800	7.30
Northwest Territories	5	3.03	43 550	1.11
Yukon	2	2.06	48 000	3.50
National Defence	6	3.59	8 225	0.61
Federal Properties	1	0.99	300	0.01
CANADA	2 093	2.96	114 685 181	11.41

3(i) Industrial Manufacturing Properties

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	134	1.62	5 166 860	5.91
British Columbia	184	2.45	10 849 738	9.07
Manitoba	80	1.14	3 261 400	5.37
New Brunswick	49	2.37	1 748 813	13.80
Newfoundland	6	0.78	315 050	2.13
Nova Scotia	29	1.18	706 440	3.08
Ontario	989	4.17	34 717 776	10.94
Prince Edward Island	11	1.12	79 507	1.33
Quebec	463	3.20	36 835 966	11.98
Saskatchewan	21	0.74	913 600	1.94
Northwest Territories	2	1.21	25 000	0.64
Yukon	4	4.12	148 000	10.79
National Defence	3	1.80	15 546	1.15
Federal Properties	1	0.99	1 200	0.05
CANADA	1 976	2.80	94 784 896	9.43

3(j) Storage Properties

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	385	4.65	6 457 834	7.39
British Columbia	280	3.73	7 498 313	6.27
Manitoba	236	3.37	4 272 324	7.04
New Brunswick	53	2.56	767 030	6.05
Newfoundland	14	1.82	264 096	1.78
Nova Scotia	67	2.72	1 333 981	5.81
Ontario	286	1.21	9 632 210	3.04
Prince Edward Island	17	1.73	533 367	8.90
Quebec	260	1.80	17 908 303	5.82
Saskatchewan	154	5.39	6 574 500	13.98
Northwest Territories	11	6.67	1 960 485	49.81
Yukon	4	4.12	72 100	5.26
National Defence	4	2.40	705	0.05
Federal Properties	4	3.96	1 302	0.06
CANADA	1 775	2.51	57 276 550	5.70

3(k) Special Properties (Outdoor and Vehicles)

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	4 109	49.64	23 582 532	27.00
British Columbia	3 231	43.09	14 676 322	12.27
Manitoba	4 033	57.53	7 181 800	11.83
New Brunswick	531	25.68	573 041	4.52
Newfoundland	218	28.39	1 398 268	9.43
Nova Scotia	572	23.20	1 589 817	6.92
Ontario	8 084	34.13	32 422 879	10.22
Prince Edward Island	129	13.15	204 519	3.41
Quebec	3 347	23.11	18 440 098	6.00
Saskatchewan	1 348	47.22	6 304 800	13.40
Northwest Territories	39	23.64	280 707	7.13
Yukon	32	32.99	83 361	6.08
National Defence	47	28.14	653 880	48.23
Federal Properties	8	7.92	25 493	1.12
CANADA	25 728	36.43	107 417 517	10.69

3(l) Special Properties - Detail

Occupancy	Fires	Loss \$	Injuries	Deaths
Outdoor property	5 422	3 121 272	66	4
Special connecting properties	60	2 521 219	1	0
Construction, demolition, vacant	537	9 604 675	23	1
Watercraft	217	5 949 150	22	1
Rail transport vehicle and equipment	336	4 094 194	7	0
Ground transport vehicle	17 914	57 953 106	193	34
Aircraft	13	4 110 216	0	0
Special vehicle	1 222	19 999 435	14	0
Pier, wharf	7	64 250	0	0
TOTAL	25 728	107 417 517	326	40

3(m) Farm Properties

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	415	5.01	5 839 061	6.68
British Columbia	53	0.71	2 614 452	2.19
Manitoba	223	3.18	4 802 875	7.91
New Brunswick	15	0.73	96 600	0.76
Newfoundland	4	0.52	22 000	0.15
Nova Scotia	21	0.85	428 831	1.87
Ontario	514	2.17	22 844 694	7.20
Prince Edward Island	42	4.28	1 114 663	18.60
Quebec	246	1.70	16 595 730	5.40
Saskatchewan	329	11.52	5 954 200	12.66
Northwest Territories	2	1.21	7 000	0.18
Yukon	0	0.00	0	0.00
National Defence	4	2.40	4 890	0.36
Federal Properties	0	0.00	0	0.00
CANADA	1 868	2.64	60 324 996	6.00

3(n) Miscellaneous Properties

Jurisdiction	Number of Fires	% of Total	Loss \$	% of Total
Alberta	423	5.11	2 869 374	3.28
British Columbia	171	2.28	2 682 668	2.24
Manitoba	168	2.40	1 138 431	1.88
New Brunswick	49	2.37	109 366	0.86
Newfoundland	55	7.16	1 555 381	10.49
Nova Scotia	103	4.18	539 479	2.35
Ontario	417	1.76	1 548 005	0.49
Prince Edward Island	17	1.73	1 651	0.03
Quebec	595	4.11	10 965 563	3.57
Saskatchewan	8	0.28	112 300	0.24
Northwest Territories	5	3.03	9 750	0.25
Yukon	9	9.28	4 000	0.29
National Defence	23	13.77	7 667	0.57
Federal Properties	9	8.91	1 647 636	72.34
CANADA	2 052	2.91	23 191 271	2.31

SECTION IV

TABLE 4 - ARSON AND ATTEMPTED ARSON

Jurisdiction	Offences Cleared					Persons Charged				
	Suspected or Known		Actual Number	By Charge	Otherwise	Adults		Young Offenders		Not Charged
	Incendiary	Unfounded				M	F	M	F	
Alberta	813	92	721	102	91	60	5	32	6	96
British Columbia	1 059	82	977	101	93	61	12	27	5	66
Manitoba	461	26	435	76	46	36	11	20	18	32
New Brunswick	563	214	349	53	11	45	2	11	0	10
Newfoundland	82	7	75	28	12	21	6	3	0	8
Nova Scotia	309	65	244	31	15	22	4	7	3	5
Ontario	2 118	166	1 952	329	245	170	46	96	8	87
Prince Edward Island	30	0	30	4	4	3	0	2	0	2
Quebec	4 691	1 565	3 126	435	205	327	43	127	13	62
Saskatchewan	279	20	259	42	26	27	8	7	2	35
Northwest Territories	30	3	27	5	9	1	4	0	0	11
Yukon	25	6	19	4	3	0	0	2	0	0
CANADA	10 460	2 246	8 214	1 210	760	773	141	334	55	414

M - male; F - female

Source : Canadian Centre for Justice Statistics - Statistics Canada

SECTION V

TABLE 5 - FIRE LOSSES BY SOURCE OF IGNITION

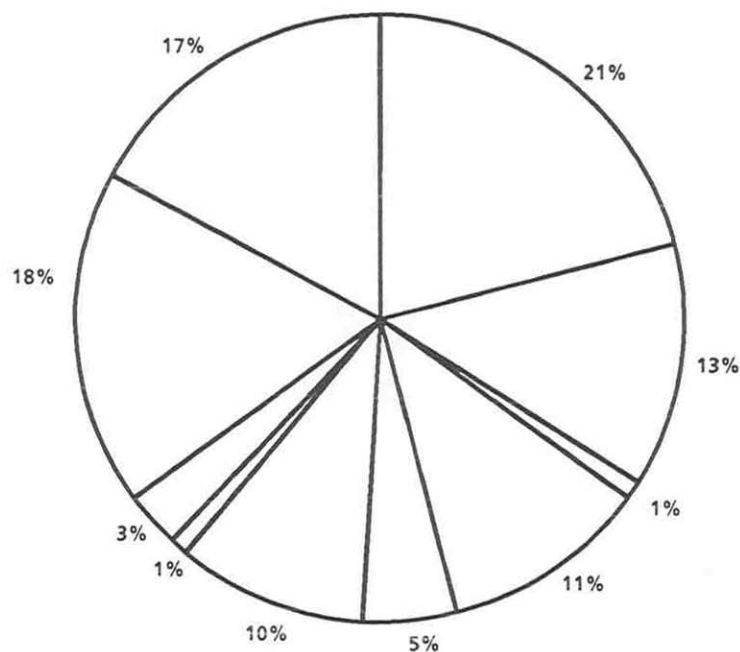
Source of Ignition (Igniting object)	Number of Fires	Loss \$	Injuries					Deaths				
			FF	M	W	C	Uncl.	FF	M	W	C	Uncl.
No igniting object (e.g., lightning)	437	10 132 499	2	8	3	0	1	0	0	3	0	0
Cooking equipment	8 946	59 559 762	83	328	241	80	16	0	30	7	5	0
Heating equipment	7 416	94 264 504	135	126	41	16	7	1	27	11	12	0
Appliances and equipment	3 318	32 618 150	24	38	12	3	2	0	2	1	1	0
Electrical distribution equipment	7 238	112 481 384	112	99	21	10	1	0	9	6	6	0
Other electrical equipment	1 043	28 704 382	21	22	9	3	0	0	1	0	0	0
Smoker's material and open flame :												
Smoker's material	3 927	36 165 988	131	232	105	36	5	0	64	28	14	0
Match, lighter (not used with smoking), lamp, candle, taper	3 632	37 886 421	95	83	53	57	2	0	12	5	11	0
Cutting torch, welding equip., varied torches	1 138	23 039 154	39	51	4	0	2	0	6	0	0	0
Hot ashes, embers (non-smoking material)	621	9 612 389	20	6	0	0	0	0	1	1	0	0
Smoker's material or open flame, uncl.	5 178	78 854 882	84	64	45	8	0	2	30	11	1	0
Exposure	2 393	16 298 560	6	8	3	2	0	0	1	0	0	0
Miscellaneous	12 939	116 905 631	164	160	23	9	0	0	32	4	2	0
Undetermined	12 398	348 409 065	369	188	72	30	10	0	94	28	29	0
TOTAL	70 624	1 004 932 771	1 285	1 413	632	254	46	3	309	105	81	0

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

Figure 3

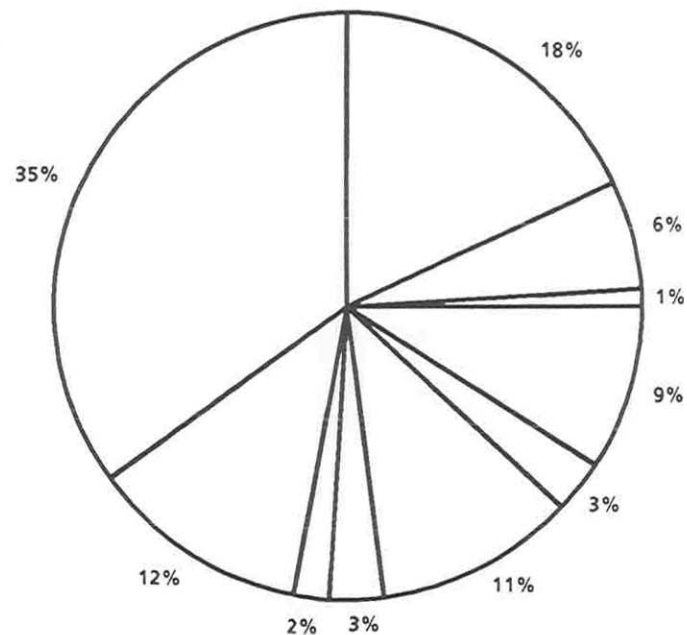
SOURCE OF IGNITION 1988

3(a) NUMBER OF FIRES



21%	Smoker's material
13%	Cooking equipment
1%	No igniting object
11%	Heating equipment
5%	Appliances and equipment
10%	Electrical distribution equipment
1%	Other electrical equipment
3%	Exposure
18%	Miscellaneous
17%	Undetermined

3(b) LOSS



18%	Smoker's material
6%	Cooking equipment
1%	No igniting object
9%	Heating equipment
3%	Appliances and equipment
11%	Electrical distribution equipment
3%	Other electrical equipment
2%	Exposure
12%	Miscellaneous
35%	Undetermined

SECTION VI

TABLE 6 - FIRE DEATHS AND INJURIES

TABLE 6(a) FIRE DEATHS, 1988 AND 10-YEAR SUMMARY

Jurisdiction	1988						10-Year Summary	
	FF	M	W	C	Total	Fire Death Rate*	Average No. of Deaths	Fire Death Rate*
Alberta	0	42	13	4	59	2.45	66	2.90
British Columbia	0	27	16	16	59	1.97	74	2.65
Manitoba	0	14	4	12	30	2.76	38	3.63
New Brunswick	0	11	7	5	23	3.22	23	3.19
Newfoundland	0	11	2	4	17	2.99	20	3.40
Nova Scotia	0	21	8	2	31	3.50	28	3.19
Ontario	1	96	26	18	141	1.49	184	2.07
Prince Edward Island	0	2	0	1	3	2.33	5	4.15
Quebec	2	68	25	11	106	1.60	139	2.16
Saskatchewan	0	13	4	7	24	2.37	32	3.26
Northwest Territories	0	2	0	1	3	5.78	8	17.58
Yukon	0	2	0	0	2	7.87	2	7.22
National Defence	0	0	0	0	0	0.00	1	-
Federal Properties	0	0	0	0	0	0.00	1	-
CANADA	3	309	105	81	498	1.92	619	2.48

FF - Firefighters; M - Men; W - Women; C - Children.

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

TABLE 6(b) FIRE INJURIES, 1988 AND FIVE-YEAR SUMMARY

Jurisdiction	1988						Five-Year Summary		
	FF	M	W	C	Uncl.	Total	Fire Injury Rate*	Average No. of Injuries	Fire Injury Rate*
Alberta	115	205	68	37	0	425	17.68	424	17.85
British Columbia	65	174	64	32	45	380	12.71	383	13.17
Manitoba	141	92	41	32	0	306	28.19	265	24.65
New Brunswick	10	24	8	2	0	44	6.16	35	4.87
Newfoundland	1	9	3	5	0	18	3.17	23	3.95
Nova Scotia	43	34	7	12	0	96	10.85	98	11.17
Ontario	767	642	314	108	0	1 831	19.39	1 989	21.72
Prince Edward Island	0	2	0	0	0	2	1.55	0	0.31
Quebec	133	167	95	17	0	412	6.20	583	8.87
Saskatchewan	10	43	27	9	1	90	8.90	76	7.47
Northwest Territories	0	6	2	1	0	9	17.34	10	20.25
Yukon	0	0	0	0	0	0	0.00	3	12.81
National Defence	0	10	3	0	0	13	6.65	16	-
Federal Properties	0	4	0	0	0	4	1.76	6	-
CANADA	1 285	1 412	632	255	46	3 630	13.99	3 889	15.26

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

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

SECTION VII

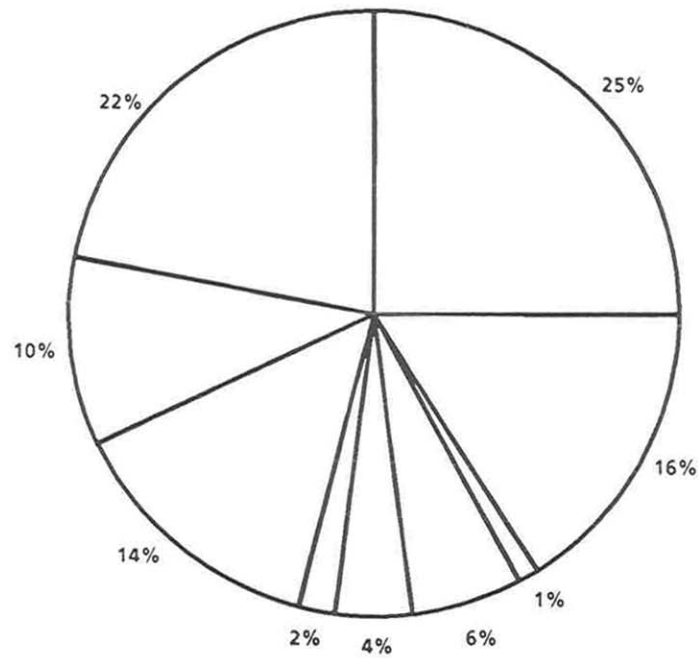
TABLE 7 - ACT OR OMISSION CAUSING FIRE

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	992	87 385 300	183	47	37	15	0	0	20	2	4	0
Other set fires	8 822	88 303 271	98	41	21	5	4	2	8	6	6	0
Misuse of source of ignition :												
Smoker's material	1 602	13 304 289	21	64	25	5	4	0	20	7	2	0
Child playing with	1 394	14 686 163	40	34	29	53	1	0	3	3	13	0
Welding, cutting, thawing	512	14 365 133	5	10	2	0	2	0	0	0	2	0
Unclassified	7 677	89 453 424	154	224	119	33	1	0	71	21	5	0
Misuse of material ignited	4 546	41 825 409	79	257	115	52	5	0	24	4	3	0
Mechanical, electrical failure, malfunction	17 661	195 477 141	174	189	59	17	6	0	22	14	9	0
Construction, design or installation deficiency	2 765	35 787 181	45	23	5	1	0	0	11	5	4	0
Misuse of equipment	1 425	14 241 038	22	31	16	4	1	0	4	2	3	0
Human failing :												
Asleep	183	2 133 764	0	21	8	0	1	0	7	1	0	0
Suspected impairment by alcohol, drugs, medication	189	3 137 758	10	24	10	0	0	0	11	6	6	0
Miscellaneous	6 702	72 587 840	136	245	123	44	15	0	21	6	8	0
Vehicle accident	690	12 708 499	8	21	1	0	0	0	10	5	0	0
Miscellaneous	15 464	319 536 561	310	182	62	25	6	1	77	23	16	0
TOTAL	70 624	1 004 932 771	1 285	1 413	632	254	46	3	309	105	81	0

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

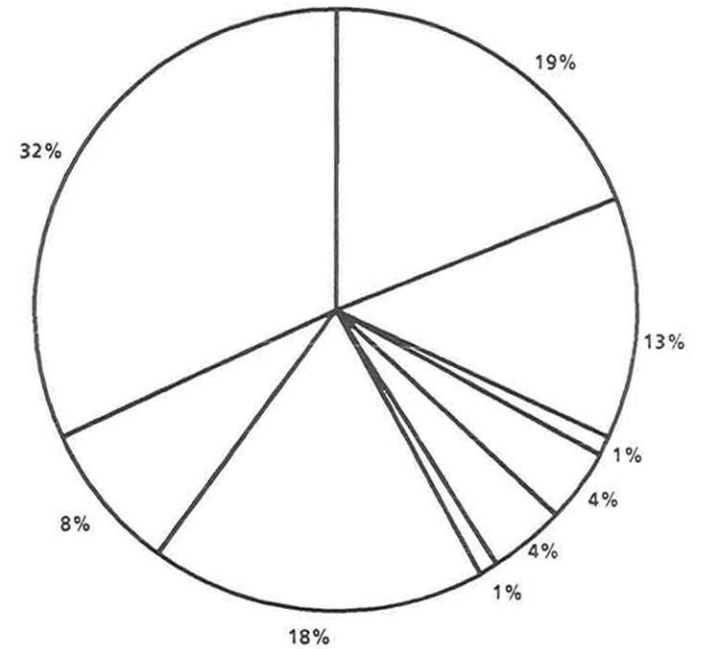
ACT OR OMISSION CAUSING FIRE 1988

4(a) NUMBER OF FIRES



25%	Mechanical, electrical failure
16%	Misuse of source of ignition
1%	Vehicle accident
6%	Misuse of material ignited
4%	Construction, design or installation deficiency
2%	Misuse of equipment
14%	Arson or other set fires
10%	Human failing
22%	Miscellaneous

4(b) LOSS



19%	Mechanical, electrical failure
13%	Misuse of source of ignition
1%	Vehicle accident
4%	Misuse of material ignited
4%	Construction, design or installation deficiency
1%	Misuse of equipment
18%	Arson or other set fires
8%	Human failing
32%	Miscellaneous

SECTION VIII

TABLE 8 - LOSSES OF \$500 000 AND OVER

Table 8(a) Alberta

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Manning	88.01.13	Arena	Unknown	1 861 033	0	0
Slave Lake	88.02.06	Heavy machinery/equipment	Part failure	501 500	0	0
Edmonton	88.03.17	Variety store	Incendiary	712 000	0	0
Claresholm	88.04.05	Supermarket	Mechanical failure	667 371	0	0
Lac La Biche	88.04.21	Historical building	Unknown	1 000 000	0	0
Edmonton	88.05.20	Apartment	Unknown	694 127	0	0
Calgary	88.06.26	Elementary school	Incendiary	1 500 400	2	0
County No. 23	88.07.25	Barn	Unknown	1 781 780	1	0
McLennan	88.08.11	Vacant building	Incendiary	500 000	0	0
District No. 18	88.09.17	Petroleum refinery	Part failure	500 000	1	0
Indian reserve	88.10.11	Bridge	Uncontrolled open fire	500 000	0	0
County No. 16	88.10.31	Train	Vehicle accident	1 000 000	0	0
Calmar	88.11.26	Arena	Unknown	670 000	0	0
District No. 14	88.12.04	Helicopter	Vehicle accident	4 000 000	0	0
Edmonton	88.12.25	Metal plant	Unknown	977 200	0	0

Table 8(b) British Columbia

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Vancouver	88.01.01	Night club	Unknown	500 000	1	0
Prince George	88.01.05	Restaurant	Arson	516 000	0	0
Burnaby	88.02.13	Laboratory material testing	Arson	564 857	2	0
Matsqui	88.02.14	Cow barn	Unknown	506 031	0	0
Richmond	88.03.08	Bakery	Arson	1 533 291	0	0
Cultus Lake	88.03.08	Business unclassified	Arson	783 069	0	0
Vancouver	88.04.18	Furniture storage	Suspected set fire	1 260 843	0	0
Vancouver	88.04.24	Hotel	Unknown	609 500	5	0
New Westminster	88.05.08	Apartment	Suspected set fire	706 939	0	0
Surrey	88.05.13	Sawmill	Unknown	650 000	0	0
Enderby	88.06.24	Apartment	Unknown	730 000	0	0
Vancouver	88.08.16	Apartment	Arson	1 200 000	0	0
Alert Bay	88.08.27	Residential unclassified	Unknown	600 000	0	0
Vancouver	88.09.07	Drug store	Unknown	1 500 000	0	0
Summerland	88.09.07	Produce packing plant	Child playing with matches	825 000	0	0
Kelowna	88.11.25	Plastic products manufacturing	Accident	570 600	1	0
Vancouver	88.11.26	Furniture manufacturing	Unknown	1 090 000	0	0
Vancouver	88.11.28	Apartment	Torch too close	540 000	0	0
Burnaby	88.12.13	Apartment	Suspected set fire	566 638	0	0
New Westminster	88.12.21	Variety store	Unknown	500 000	0	0
Vancouver	88.12.25	Dwelling	Ignorance of hazard	12 000 000	1	0

Table 8(c) Manitoba

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Fisher River	88.01.02	Arena	Unknown	1 187 500	0	0
Fort Alexander	88.01.05	High school	Unknown	2 500 000	0	0
Wallace	88.01.19	Mercantile unclassified	Unknown	613 032	0	0
Gillam	88.01.25	Hospital	Accidental	3 000 000	7	0
West St. Paul	88.01.25	Industrial manufacturing	Unknown	535 500	0	0
Winnipeg	88.05.02	Building under renovation	Cutting torch	1 000 000	0	0
St. François Xavier	88.06.30	Industrial manufacturing	Unknown	802 350	1	0
Winnipeg	88.07.04	Business unclassified	Incendiary	750 000	0	0
Hanover	88.07.16	Barn	Electrical	510 000	0	0
Winnipeg	88.10.14	Mercantile unclassified	Incendiary	1 543 156	0	0
Ste. Anne	88.10.21	Barn	Electrical	720 000	0	0
Ste. Rose du Lac	88.11.23	Industrial storage	Unknown	925 400	0	0
Winnipeg	88.12.03	Community centre	Unknown	508 000	0	0
Dauphin	88.12.18	Church	Incendiary	1 103 550	0	0
Winnipeg	88.12.23	School	Unknown	1 520 000	1	0

Table 8(d) New Brunswick

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
-	-	-	-	0	0	0

Table 8(e) Newfoundland

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Triton	88.01.03	School	Furnace malfunction	1 000 000	0	0
Belle Island	88.02.17	Store\dwelling	Furnace malfunction	750 000	0	0
Belle Island	88.02.17	Variety stores	Furnace malfunction	800 000	0	0
Come-by-Chance	88.03.29	Oil refinery	Furnace malfunction	1 000 000	0	0
Gander	88.10.02	Hotel	Appliance malfunction	650 000	0	0

Table 8(f) Nova Scotia

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Hants county	88.03.14	Lumber yard	Welding too close	522 357	0	0
North Sydney	88.06.04	Furniture store	Child playing with matches	1 181 202	0	0
Yarmouth	88.09.11	Shopping mall	Suspected incendiary	500 000	1	0
Belliveau Cove	88.11.29	Car sales	Undetermined	1 000 000	0	0

Table 8(g) Ontario

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
St. Isidore	88.01.07	Manufacturing plant	Undetermined	2 000 000	0	0
Kingston	88.01.07	Variety store	Undetermined	1 569 000	0	0
Etobicoke	88.01.07	Country club	Undetermined	1 000 000	0	0
Scarborough	88.01.08	Dwelling	Arson	650 000	0	0
Oshawa	88.01.14	Specialty store	Undetermined	510 000	0	0
Essex	88.01.16	Building supply store	Undetermined	1 025 000	0	0
Chatham	88.01.22	Repair garage	Undetermined	1 400 000	1	0
Kirkland Lake	88.02.02	Commercial sales	Misuse of igniting object	4 000 000	1	0
Chatham	88.02.04	Plastics manufacturing	Installation deficiency	3 700 000	1	0
Gloucester	88.02.04	Attached dwelling	Misuse of equipment	500 000	3	0
St. Isidore	88.02.21	Storage silo	Undetermined	500 000	0	0
Mississauga	88.02.27	Motor vehicle sales	Misuse of equipment	550 000	0	0
Leeds and Landsdown	88.02.29	Hotel	Undetermined	1 302 000	0	0
Nepean	88.03.02	Manufacturing unclassified	Undetermined	1 100 000	2	0
Bradford	88.03.08	Warehouse	Arson	600 000	0	0
Mara	88.03.08	Attached dwelling	Accidental	500 000	0	0
Thunder Bay	88.03.20	Commercial unclassified	Arson	3 000 000	0	0
Dryden	88.03.22	Pulp/paper manufacturing	Accidental	1 200 000	0	0
Adjala	88.04.06	Elementary school	Arson	550 000	0	0
Toronto	88.04.16	Multiunit dwelling	Arson	1 500 000	2	1
Orillia	88.04.24	Barn	Undetermined	500 000	0	0
Bradford	88.04.28	Manufacturing unclassified	Mechanical/electrical failure	2 000 000	0	0
Kirkland Lake	88.05.12	Convenience store	Mechanical/electrical failure	950 000	1	0
Mississauga	88.06.03	Office	Arson	950 000	0	0
Peterborough	88.06.07	Watercraft sales	Undetermined	2 000 000	0	0
North York	88.06.08	Warehouse	Undetermined	600 000	3	0

Table 8(g) Ontario (cont'd)

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Michipicoten	88.06.09	Restaurant	Undetermined	600 000	0	0
Mississauga	88.06.13	Dwelling	Arson	500 000	0	0
Scarborough	88.06.17	Lumber yard	Undetermined	6 500 000	10	0
London	88.06.17	Amusement centre	Undetermined	700 000	0	0
Foley	88.06.20	Manufacturing unclassified	Arson	600 000	0	0
Wallaceburg	88.06.21	Department store	Arson	600 000	1	0
Toronto	88.06.29	Attached dwelling	Undetermined	3 000 000	2	0
St. Catharines	88.07.03	Commercial sales	Arson	750 000	2	0
Midland	88.07.07	Lumber yard	Arson	750 000	0	0
Cambridge	88.07.30	Lumber yard	Accidental	1 400 000	0	0
St. Catharines	88.07.30	Hotel	Misuse of igniting object	500 000	4	0
Flamborough	88.08.03	Crops	Undetermined	500 000	0	0
Tillsonburg	88.08.20	Furniture store	Undetermined	937 000	0	0
Sidney	88.08.21	Lumber yard	Arson	3 000 000	0	0
Mississauga	88.08.24	Printing plant	Accidental	1 000 000	5	0
Fort Francis	88.08.27	Lumber yard	Arson	540 000	0	0
Niagara	88.08.31	Hotel	Arson	1 500 000	0	0
Lochiel	88.09.08	Repair garage	Undetermined	550 000	0	0
Etobicoke	88.09.10	Dwelling	Undetermined	750 000	0	1
Toronto	88.09.27	Warehouse	Arson	2 000 000	8	0
Brantford	88.10.09	Fabric manufacturing	Arson	560 000	0	0
Thunder Bay	88.10.10	Produce manufacturing	Undetermined	750 000	4	0
Sudbury	88.10.12	Dwelling	Undetermined	550 000	0	0
Markham	88.10.18	Garden supply store	Mechanical/electrical failure	2 000 000	0	0
Burlington	88.10.24	Grocery store	Undetermined	700 000	3	0
York	88.10.28	Metal manufacturing	Undetermined	2 100 000	0	0

Table 8(g) Ontario (cont'd)

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Niagara	88.10.29	Rail vehicle	Arson	522 000	2	0
London	88.10.31	Restaurant	Arson	2 050 000	0	0
Newmarket	88.11.03	Repair garage	Arson	500 000	0	0
Midland	88.11.08	Metal manufacturing	Arson	500 000	0	0
Timmins	88.11.09	Metal manufacturing	Accidental	1 000 000	0	0
Kitchener	88.11.29	Restaurant	Undetermined	500 000	0	0
Richmond Hill	88.11.29	Semi-detached dwelling	Undetermined	500 000	0	0
Hamilton	88.12.03	Multiunit dwelling	Arson	2 800 000	4	0
Oshawa	88.12.04	Paint store	Undetermined	1 300 000	0	0
Windsor	88.12.06	Watercraft sales	Arson	2 500 000	0	0
Oshawa	88.12.12	Dwelling with business	Accidental	600 000	0	0
Milverton	88.12.16	Metal manufacturing	Undetermined	600 000	0	0
Haldimand-Norfolk	88.12.17	Warehouse	Misuse of igniting object	500 000	0	0
Ottawa	88.12.31	Commercial unclassified	Misuse of igniting object	1 000 000	0	0
Sudbury	88.12.31	Dwelling with business	Accidental	800 000	1	0

Table 8(h) Prince Edward Island

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
-	-	-	-	0	0	0

Table 8(i) Quebec

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Not reported	88.05.10	Apartment	Not reported	684 336	0	0
Not reported	88.05.14	Shoe manufacturing	Not reported	963 530	0	0
Not reported	88.05.17	Restaurant	Not reported	608 500	0	0
Not reported	88.05.29	Amusement centre	Not reported	650 000	0	0
Not reported	88.05.31	Hardware store	Not reported	1 175 088	3	0
Not reported	88.05.31	Apartment	Not reported	850 779	0	0
Not reported	88.06.01	Sports club	Not reported	750 000	0	0
Not reported	88.06.16	Petroleum refinery	Not reported	650 000	0	0
Not reported	88.07.06	Apartment	Not reported	600 000	1	0
Not reported	88.07.08	Restaurant	Not reported	1 535 387	0	0
Not reported	88.07.09	Apartment	Not reported	505 903	0	0
Not reported	88.07.12	Vehicle storage	Not reported	1 100 000	0	0
Not reported	88.07.13	Furniture store	Not reported	3 000 000	0	0
Not reported	88.07.16	Furniture manufacturing	Not reported	1 000 000	0	0
Not reported	88.07.19	Food processing plant	Not reported	3 278 594	0	0
Not reported	88.07.23	Toy store	Not reported	1 769 000	3	0
Not reported	88.08.03	Amusement centre	Not reported	884 918	0	0
Not reported	88.08.04	Warehouse	Not reported	698 020	0	0
Not reported	88.08.13	Warehouse	Not reported	1 000 000	0	0
Not reported	88.08.22	Amusement centre	Not reported	1 100 000	0	0
Not reported	88.08.26	Warehouse	Not reported	1 112 884	0	0
Not reported	88.08.29	Vehicle manufacturing	Not reported	1 000 000	0	0
Not reported	88.08.29	Barn	Not reported	500 000	0	0
Not reported	88.08.30	School	Not reported	750 000	0	0
Not reported	88.09.15	Church	Not reported	588 700	2	0
Not reported	88.09.20	Apartment	Not reported	500 000	0	0
Not reported	88.09.28	Apartment	Not reported	576 295	0	0

Table 8(i) Quebec (cont'd)

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Not reported	88.09.30	Laboratory	Not reported	596 000	2	0
Not reported	88.10.06	Shed	Not reported	545 465	0	0
Not reported	88.10.12	School	Not reported	500 000	0	0
Not reported	88.10.22	Warehouse	Not reported	760 000	0	0
Not reported	88.10.22	Store not classified	Not reported	550 000	0	0
Not reported	88.10.30	Clothing store	Not reported	623 541	0	0
Not reported	88.11.06	Laboratory	Not reported	500 000	0	0
Not reported	88.11.07	Apartment	Not reported	1 159 977	1	0
Not reported	88.11.18	Furniture store	Not reported	2 000 000	0	0
Not reported	88.11.19	Hotel	Not reported	3 000 000	1	2
Not reported	88.11.21	Restaurant	Not reported	500 000	0	0
Not reported	88.11.24	Furniture store	Not reported	511 160	0	1
Not reported	88.12.07	Metal manufacturing	Not reported	708 000	0	0
Not reported	88.12.07	Chemical manufacturing	Not reported	500 000	0	0
Not reported	88.12.08	Office	Not reported	900 005	0	0
Not reported	88.12.20	Restaurant	Not reported	538 756	0	0
Not reported	88.12.26	Barn	Not reported	736 000	0	0
Not reported	88.12.30	Apartment	Not reported	1 100 000	0	0
Not reported	88.12.30	Church	Not reported	525 337	0	0
Not reported	88.12.31	Clothing store	Not reported	1 500 000	0	0

Table 8(j) Saskatchewan

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Swift Current	88.01.12	Building unclassified	Welding torch	565 500	0	0
Carrot River	88.02.13	Sawmill	Part failure	500 000	0	0
Big River	88.03.08	High school	Arson	2 500 000	0	0
Moose Jaw	88.03.08	Furniture store	Suspected set fire	500 000	0	0
Gravelbourg	88.05.14	Gymnasium	Mechanical failure	2 000 000	0	0
Biggar	88.06.07	Grain elevator	Lightning	3 000 052	0	0
Hague	88.07.15	Poultry farm	Lightning	520 000	0	0
Saskatoon	88.09.23	Aircraft hangar	Welding	5 000 000	0	0
Moose Jaw	88.11.01	Hotel	Arson	934 000	0	0

Table 8(k) Northwest Territories

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Resolute Bay	88.01.31	Aircraft hangar	Undetermined	1 950 000	0	0

Table 8(l) Yukon

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
-	-	-	-	0	0	0

Table 8(m) National Defence

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
-	-	-	-	0	0	0

Table 8(n) Federal Jurisdiction

Location	Date	Property/Classification	Act or Omission	Dollar Loss	Casualties	
					Injuries	Deaths
Grosse-Île	88.06.14	Laboratory	Misuse of igniting object	1 580 000	0	0

APPENDIX

PROVINCIAL AND FEDERAL FIRE MARSHALS AND FIRE COMMISSIONERS

Mr. A.S. Bartlett
Fire Commissioner
Department of Environment and Public Safety
5th Floor
1870 Albert Street
REGINA, Saskatchewan
S4P 3V7

Mr. C. Bell
Fire Marshal
Fire Prevention Service
Government of Northwest Territories
4916-49th Street
YELLOWKNIFE, Northwest Territories
X1A 2L9

M. Jean-Guy Delage
Direction générale de la
Sécurité civile
Ministère de la Sécurité publique
1577, rue Turmel
L'ANCIENNE-LORETTE, Québec
G2E 3J5

Mr. J. Bateman
Fire Marshal
Ministry of the Solicitor General
3rd Floor
7 Overlea Boulevard
TORONTO, Ontario
M4H 1A8

Mr. Medley Carr
Fire Marshal
Department of Municipal Affairs
P.O. Box 6000
364 Argyle Street
FREDERICTON, New Brunswick
E3B 5H1

Mr. R. Dumala
Fire Commissioner
Ministry of Municipal Affairs
333 Quebec Street
VICTORIA, British Columbia
V8V 1X4

Mr. Bryant Yeomans
A/Fire Marshal
Government of the Yukon
2nd and Hansen Streets
P.O. Box 2703
WHITEHORSE, Yukon Territory
Y1A 2C6

Mr. T. Makey
Fire Commissioner
Alberta Labour
Room 701, I.B.M. Building
10808 - 99th Avenue
EDMONTON, Alberta
T5K 0G2

J. Reimer
Fire Commissioner
Department of Manpower and Labour
Room 510, Norquay Building
401 York Avenue
WINNIPEG, Manitoba
R3C 0V8

Lt. Col. H.H. Singleton
Canadian Forces Fire Marshal
Department of National Defence
101 Colonel By Drive
OTTAWA, Ontario
K1A 0K2

Mr. C.R. Kennedy
Fire Marshal
Department of Municipal Affairs
P.O. Box 2000
11 Kent Street
CHARLOTTETOWN, Prince Edward
Island
C1A 7N8

Mr. T.S. Makin
Fire Marshal
Department of Labour
P.O. Box 697
5151 Terminal Road
HALIFAX, Nova Scotia
B3J 2T8

Mr. Francis Ryan
Fire Commissioner
Department of Justice
Pleasantville Fire Station
ST. JOHN'S, Newfoundland
A1C 5T7

Mr. T.J. Dunfield
Fire Commissioner of Canada
Labour Canada
OTTAWA, Ontario
K1A 0J2