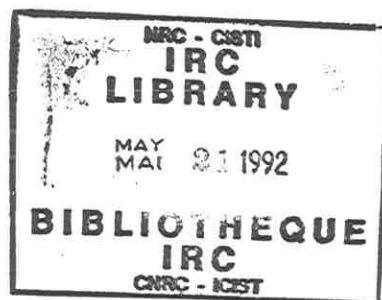




Annual Report 1990



Fire Losses in Canada

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March 26, 1992

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

This 1990 Annual Report of Fire Losses in Canada is the sixty-ninth 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 1990, the numbers of fire deaths and injuries are continuing their downward trend, but dollar losses are higher than those of the previous year.

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, cursive script.

T.J. Dunfield
Fire Commissioner of Canada

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Section I

Summary 1981-1990

Table 1 - Canada Fire Losses and Fire Deaths

Year	Population	Number of Fires	\$ Loss	Per Capita \$ Loss	Fire Deaths	Fire Death Rate*
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
1989	26 223 920	67 182	1 119 579 909	42.69	500	1.91
1990	27 145 522	67 556	1 226 027 172	45.37	461	1.70
10-Year Average		71 389	985 591 856	38.99	558	2.27

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

Section II

Fire Losses, 1990 and 10-Year Average

Table 2 - Property Losses by Jurisdiction

Jurisdiction	Population 1990	Number of Fires		Loss		Loss Per Capita	
		1990	10-Year Average	1990 \$	10-Year Average	1990 \$	10-Year Average
Alberta	2 502 198	7 835	8 702	136 175 648	121 631 600	54.42	51.38
British Columbia	3 131 700	7 455	7 534	171 481 379	134 492 138	54.76	46.05
Manitoba	1 131 929	5 950	6 345	73 819 762	48 050 765	65.21	44.46
New Brunswick	712 300	2 153	1 775	19 428 077	17 490 464	27.27	24.59
Newfoundland*	520 622	768	866	14 822 123	16 901 243	28.47	29.93
Nova Scotia	888 700	2 387	2 561	23 851 875	25 215 530	20.63	28.28
Ontario	9 731 200	22 924	23 669	370 994 839	273 622 441	38.12	29.74
Prince Edward Island	123 000	851	758	4 532 064	4 548 991	36.85	36.17
Quebec	6 897 406	13 873	15 034	355 524 901	297 391 614	51.54	45.25
Saskatchewan	999 500	2 664	2 945	43 671 241	34 082 749	43.69	34.04
Northwest Territories	54 300	184	169	7 010 155	5 720 410	129.10	115.54
Yukon**	29 886	243	178	2 647 513	2 051 654	88.59	84.61
National Defence	195 354	161	211	1 155 638	2 829 335	-	-
Federal Properties	227 427	108	239	877 957	5 830 790	-	-
Summary	27 145 522	67 556	71 065	1 225 993 172	983 808 192	36.24	39.54

* Newfoundland statistics are unavailable. For all tables, 1987 figures have been substituted.

** Yukon statistics are unavailable. For all tables, 1989 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	30 304	44.69	531 645 271	43.36	2 661	69.28	388	83.08
Assembly	2 121	3.13	86 882 907	7.09	139	3.62	3	0.64
Institutional	521	0.77	3 350 875	0.27	40	1.04	6	1.28
Business and personal service	599	0.88	27 453 156	2.24	58	1.51	0	0
Mercantile	2032	3.00	119 420 566	9.74	150	3.91	15	3.21
Industrial manufacturing	1634	2.41	149 228 013	12.17	140	3.64	6	1.28
Storage	1763	2.97	91 646 215	7.48	221	5.75	11	2.36
Special	25 138	37.07	125 961 136	10.27	311	8.10	29	6.21
Farm	1 385	2.04	53 357 706	4.35	32	0.83	2	0.43
Miscellaneous	2 059	3.04	35 681 228	3.02	89	2.82	1	1.50
Total	67 556	100.00	1 224 627 073	100.00	3841	100.00	461	100.00

3(a) Residential Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	2 337	7.71	47 133 712	8.87
British Columbia	2 898	9.56	72 760 976	13.69
Manitoba	1 879	6.20	24 592 197	4.63
New Brunswick	1 358	4.48	13 177 015	2.48
Newfoundland	439	1.45	7 425 404	1.40
Nova Scotia	1 462	4.82	12 460 734	2.34
Ontario	10 942	36.11	169 728 400	31.93
Prince Edward Island	647	2.14	2 050 340	0.39
Quebec	7 284	24.04	164 543 282	30.94
Saskatchewan	818	2.70	13 037 488	2.45
Northwest Territories	74	0.24	3 209 240	0.60
Yukon	98	0.32	1 232 058	0.23
National Defence	66	0.22	233 900	0.04
Federal Properties	2	0.01	60 525	0.01
Total	30 304	100.00	531 645 271	100.00

3(b) Residential - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
One and two family residence	20 616	357 923 118	1 404	245
Apartment, tenement, flat	6 035	99 769 288	922	78
Rooming, boarding, lodging	354	5 788 270	111	19
Hotel, inn, lodge	384	18 566 441	82	3
Motor hotel, motel	133	2 622 266	11	2
Dormitory	75	1 935 380	0	1
Mobile home, trailer	1 239	19 483 325	61	27
Miscellaneous	1 468	25 557 183	70	13
Total	30 304	531 645 271	2 661	388

3(c) Assembly

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	190	8.96	5 079 787	5.85
British Columbia	248	11.69	14 766 303	17.00
Manitoba	108	5.09	2 928 425	3.37
New Brunswick	38	1.79	711 327	0.82
Newfoundland	12	0.57	2 157 165	2.48
Nova Scotia	46	2.17	1 870 558	2.15
Ontario	864	40.74	21 681 411	24.95
Prince Edward Island	14	0.66	256 384	0.30
Quebec	496	23.39	26 840 266	30.89
Saskatchewan	58	2.73	9 156 507	10.54
Northwest Territories	9	0.42	961 846	1.11
Yukon	3	0.14	152 000	0.17
National Defence	11	0.52	17 877	0.02
Federal Properties	24	1.13	303 051	0.35
Total	2 121	100.00	86 882 907	100.00

3(d) Assembly - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Theatre, studio, auditorium	46	1 661 076	2	0
Amusement, recreation place	185	6 647 416	4	0
School, college, university	492	15 074 537	24	0
Church, funeral parlour	124	8 965 118	18	0
Club, social, sport	118	3 406 336	6	0
Museum, art gallery, library	44	3 211 123	10	0
Food, beverage establishment	901	44 628 232	66	3
Passenger terminal, station	73	155 731	0	0
Miscellaneous	138	3 133 338	9	0
Total	2 121	86 882 907	139	3

3(e) Institutional

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	48	9.21	101 447	3.03
British Columbia	34	6.53	61 064	1.82
Manitoba	41	7.87	246 605	7.36
New Brunswick	5	0.96	17 600	0.53
Newfoundland	5	0.96	237 431	7.09
Nova Scotia	21	4.03	150 852	4.50
Ontario	218	41.84	339 886	10.14
Prince Edward Island	4	0.77	2 814	0.08
Quebec	92	17.66	2 045 317	61.04
Saskatchewan	11	2.11	40 991	1.22
Northwest Territories	0	0.00	0	0.00
Yukon	1	0.19	0	0.00
National Defence	1	0.19	48 118	1.44
Federal Properties	40	7.68	58 750	1.75
Total	521	100.00	3 350 875	100.00

3(f) Institutional - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Prison, jail, reformatory	88	646 464	5	0
Home for the aged	144	641 181	11	1
Child care	19	385 611	2	4
Hospital, sanatorium, clinic	221	1 319 082	22	1
Miscellaneous	49	358 537	0	0
Total	521	3 350 875	40	6

3(g) Business and Personal Service

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	50	8.35	1 274 747	4.54
British Columbia	64	10.68	4 240 012	15.44
Manitoba	35	5.84	1 903 503	6.93
New Brunswick	13	2.17	124 926	0.46
Newfoundland	1	0.17	123 608	0.45
Nova Scotia	19	3.17	143 780	0.52
Ontario	215	35.89	6 632 911	24.16
Prince Edward Island	1	0.17	90 000	0.33
Quebec	169	28.21	12 570 360	45.79
Saskatchewan	10	1.67	31 754	0.12
Northwest Territories	7	1.17	171 525	0.62
Yukon	2	0.33	19 500	0.07
National Defence	3	0.50	35 030	0.13
Federal Properties	10	1.67	91 500	0.33
Total	599	100.00	27 453 156	100.00

3(h) Mercantile Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	145	7.13	10 079 613	8.44
British Columbia	166	8.17	16 384 338	13.72
Manitoba	84	4.13	6 873 054	5.76
New Brunswick	34	1.67	2 144 189	1.80
Newfoundland	14	0.69	1 323 720	1.11
Nova Scotia	44	2.17	1 714 769	1.44
Ontario	806	39.67	40 044 358	33.53
Prince Edward Island	9	0.44	332 660	0.28
Quebec	648	31.89	37 282 764	31.22
Saskatchewan	68	3.35	3 194 050	2.67
Northwest Territories	8	0.39	46 000	0.04
Yukon	1	0.05	0	0.00
National Defence	4	0.20	1 051	0.00
Federal Properties	1	0.05	0	0.00
Total	2 032	100.00	119 420 566	100.00

3(i) Industrial Manufacturing Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	124	7.59	20 512 753	13.75
British Columbia	181	11.08	26 572 958	17.81
Manitoba	65	3.98	8 813 100	5.91
New Brunswick	37	2.26	1 069 812	0.71
Newfoundland	6	0.37	315 050	0.21
Nova Scotia	32	1.96	1 549 522	1.04
Ontario	762	46.63	43 099 412	28.88
Prince Edward Island	8	0.49	39 115	0.03
Quebec	379	23.19	43 857 536	29.39
Saskatchewan	28	1.71	2 252 688	1.51
Northwest Territories	2	0.12	14 500	0.01
Yukon	9	0.55	1 128 811	0.76
National Defence	0	0.00	0	0.00
Federal Properties	1	0.06	2 756	0.00
Total	1 634	100.00	149 228 013	100.00

3(j) Storage Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	366	20.76	14 281 069	15.58
British Columbia	212	12.02	10 528 385	11.49
Manitoba	250	14.18	9 786 498	10.68
New Brunswick	77	4.37	457 256	0.50
Newfoundland	14	0.79	264 096	0.29
Nova Scotia	67	3.80	2 927 780	3.19
Ontario	243	13.78	21 839 442	23.83
Prince Edward Island	17	0.96	806 421	0.88
Quebec	279	15.83	25 683 794	28.02
Saskatchewan	202	11.46	3 335 046	3.64
Northwest Territories	15	0.85	1 624 991	1.77
Yukon	8	0.45	24 500	0.03
National Defence	10	0.57	71 137	0.08
Federal Properties	3	0.17	15 800	0.02
Total	1 763	100.00	91 646 215	100.00

3(k) Special Properties (Outdoor and Vehicles)

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	3 927	15.62	28 596 570	22.70
British Columbia	3 437	13.67	18 503 347	14.69
Manitoba	3 172	12.62	6 226 520	4.94
New Brunswick	547	2.18	1 008 276	0.80
Newfoundland	218	0.87	1 398 268	1.11
Nova Scotia	542	2.16	1 684 851	1.34
Ontario	7 892	31.39	37 046 142	29.41
Prince Edward Island	125	0.50	233 492	0.19
Quebec	3 774	15.01	22 177 451	17.61
Saskatchewan	1 247	4.96	7 583 248	6.02
Northwest Territories	63	0.25	954 408	0.76
Yukon	121	0.48	90 644	0.07
National Defence	53	0.21	124 544	0.10
Federal Properties	20	0.08	333 375	0.26
Total	25 138	100.00	125 961 136	100.00

3(l) Special Properties - Detail

Occupancy	Number of Fires	\$ Loss	Injuries	Deaths
Outdoor property	4 464	2 090 941	47	6
Special connecting properties	72	2 005 646	5	0
Construction, demolition, vacant	464	13 089 929	13	0
Watercraft	249	4 145 736	32	1
Rail, transport vehicle and equipment	287	1 836 095	6	0
Ground transport vehicle	18 272	73 272 503	186	21
Aircraft	19	8 275 352	2	1
Special vehicle	1 175	20 455 741	16	0
Pier, wharf	136	789 193	4	0
Total	25 138	125 961 136	311	29

3(m) Farm Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	310	22.38	4 632 943	8.68
British Columbia	36	2.60	1 851 237	3.47
Manitoba	194	14.01	9 625 251	18.04
New Brunswick	17	1.23	619 229	1.16
Newfoundland	4	0.29	22 000	0.04
Nova Scotia	43	3.10	618 629	1.16
Ontario	402	29.03	19 108 803	35.81
Prince Edward Island	19	1.37	650 327	1.22
Quebec	165	11.91	12 210 767	22.88
Saskatchewan	194	14.01	4 018 019	7.53
Northwest Territories	0	0.00	0	0.00
Yukon	0	0.00	0	0.00
National Defence	0	0.00	0	0.00
Federal Properties	1	0.07	500	0.00
Total	1 385	100.00	53 357 705	100.00

3(n) Miscellaneous Properties

Jurisdiction	Number of Fires	% of Total	\$ Loss	% of Total
Alberta	338	16.39	4 483 007	12.09
British Columbia	179	8.68	5 848 759	15.77
Manitoba	122	5.92	2 824 609	7.62
New Brunswick	27	1.31	98 447	0.27
Newfoundland	55	2.67	1 555 381	4.19
Nova Scotia	111	5.38	730 400	1.97
Ontario	577	28.13	11 474 074	30.94
Prince Edward Island	7	0.34	70 511	0.19
Quebec	587	28.47	8 311 364	22.41
Saskatchewan	28	1.36	1 021 450	2.75
Northwest Territories	6	0.29	27 545	0.07
Yukon	0	0.00	0	0.00
National Defence	13	0.63	623 981	1.68
Federal Properties	9	0.44	11 700	0.03
Total	2 059	100.00	35 681 228	100.00

Section IV

Table 4 - 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)	1 125	18 894 729	8	7	2	1	0	0	2	0	0	0
Cooking equipment	8 845	88 031 970	85	370	235	70	25	0	24	12	6	0
Heating equipment	6 427	96 295 774	84	105	34	23	12	0	21	8	5	0
Appliances and equipment	2 393	38 465 715	32	47	23	6	6	0	2	2	1	0
Electrical distribution equipment	7 061	137 900 076	142	107	36	12	6	0	11	3	10	1
Other electrical equipment	1 398	24 423 495	18	16	17	6	0	0	1	1	0	0
Smoker's material and "open flame":												
Smoker's material	4 345	55 123 282	129	231	123	38	12	0	59	31	10	0
Match, lighter (not used with smoking), lamp, candle, taper	3 604	42 045 158	79	97	61	46	5	0	8	3	15	0
Cutting torch, welding equip., varied torches	1 051	30 816 296	32	43	1	0	3	0	0	0	1	0
Hot ashes, embers (non-smoking material)	535	5 526 120	8	4	4	2	0	0	1	0	0	0
Smoker's material, or "open" flame, uncl.	3 522	66 211 411	87	37	20	7	0	1	2	3	10	0
Exposure	2 000	19 298 405	7	12	3	8	3	0	2	0	1	0
Miscellaneous	12 986	153 374 571	141	151	40	21	6	4	28	8	12	0
Undetermined	12 265	449 586 170	449	178	89	24	17	0	85	38	27	2
Total	67 556	1 225 993 172	1 301	1 405	688	264	95	5	246	109	98	3

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

Section V

Table 5 - Fire Deaths and Injuries

Table 5(a) - Fire Deaths, 1990

Jurisdiction	FF	M	W	C	Uncl.	Total	Fire Death Rate*
Alberta	0	22	11	12	3	48	1.92
British Columbia	0	27	20	4	0	51	1.63
Manitoba	0	18	7	7	0	32	2.84
New Brunswick	2	9	1	3	0	15	2.11
Newfoundland	0	11	2	4	0	17	3.27
Nova Scotia	0	20	5	11	0	36	4.04
Ontario	0	88	40	20	0	148	1.52
Prince Edward Island	0	4	1	4	0	9	7.50
Quebec	3	30	21	15	0	69	1.00
Saskatchewan	0	8	1	13	0	22	2.22
Northwest Territories	0	1	0	3	0	4	7.37
Yukon	0	1	0	0	0	1	3.45
National Defence	0	7	0	2	0	9	4.74
Federal Properties	0	0	0	0	0	0	0.00
Total	5	246	109	98	3	461	1.70

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

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

Table 5(b) - Fire Injuries

Jurisdiction	FF	M	W	C	Uncl.	Total	Fire Injury Rate*
Alberta	88	185	76	46	45	440	17.60
British Columbia	131	182	77	43	31	464	14.82
Manitoba	122	93	52	26	0	293	25.93
New Brunswick	25	19	10	9	1	64	9.01
Newfoundland	1	9	3	5	0	18	3.46
Nova Scotia	9	13	11	0	0	33	3.71
Ontario	728	681	349	94	0	1 852	19.03
Prince Edward Island	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Quebec	178	160	94	21	0	453	6.57
Saskatchewan	18	34	15	11	18	96	9.61
Northwest Territories	1	16	1	7	0	25	46.29
Yukon	0	4	0	0	0	4	13.79
National Defence	0	6	0	2	0	8	4.10
Federal Properties	0	3	0	0	0	3	1.32
Total	1 301	1 405	688	264	95	3 753	13.83

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

* Fire Injury Rate - number of fire injuries per 100 000 population per annum.

n/a: not available.

Section VI

Table 6 - 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	6 139	209 551 899	305	103	61	22	2	3	28	12	10	0
Other set fires	4 232	34 397 759	23	24	5	5	1	0	4	0	0	0
Misuse of source of ignition:												
Smoker's material	1 511	17 915 639	19	67	37	10	11	0	24	14	1	0
Child playing with	1 227	14 914 718	32	30	36	51	2	0	0	0	22	0
Welding, cutting, thawing	492	16 701 537	10	12	0	0	2	0	1	0	0	0
Unclassified	2 850	25 636 257	81	141	68	14	1	0	9	5	4	0
Misuse of material ignited	2 784	36 243 247	26	163	68	33	9	0	6	2	5	0
Mechanical, electrical failure, malfunction	17 435	230 025 194	192	184	60	18	24	0	16	4	11	0
Construction, design or installation deficiency	2 383	35 934 573	34	12	5	5	2	0	5	2	2	0
Misuse of equipment	1 373	18 044 183	7	33	13	6	6	0	4	0	0	0
Human failing:												
Asleep	144	1 303 216	8	8	10	6	3	0	4	0	0	0
Suspected impairment by alcohol, drugs, medication	129	2 482 263	9	24	7	1	2	0	9	5	6	0
Miscellaneous	11 362	176 054 338	233	394	232	64	15	0	61	35	16	1
Vehicle accident	562	14 773 876	6	16	7	5	2	0	6	0	0	1
Miscellaneous	14993	392 014 473	316	194	79	24	13	2	69	30	21	1
Total	67 556	1 225 993 172	1 301	1 405	688	264	95	5	246	109	98	3

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

Appendix

Federal, Provincial and Territorial Fire Marshals and Fire Commissioners

Mr. R. McCullough
Fire Commissioner
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