

CANADIAN FOREST FIRE

STATISTICS

1977

by

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Canadian Forestry Service
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FOREWORD

The tables in this publication contain forest fire statistics for the calendar year 1977 as reported by all Canadian forest fire control agencies. We have asked the agencies to report all fires that occurred within their respective jurisdictions. The statistics include:

Forest Fire Occurrence

1. The number of fires and area burned by nine cause classes: recreation, settlement, woods operations, railways, other industries, incendiary, miscellaneous known, lightning and unknown.
2. For each month, the number of fires reported and their final acreage.

Forest Fire Control Expenditure

1. The total annual budgeted costs (i.e., expenditures that are planned and budgeted at the beginning of the fiscal year and spent regardless of the severity of the fire season).
2. The total actual fire fighting costs (i.e., expenditures, over and above total annual budgeted costs, that arise from fire suppression activities).

Forest Fire Effects

1. The number of fatalities due directly to fire or while in the act of controlling a fire.
2. The distribution of fires and area burned by five fire size classes.
3. The monetary losses due to fire:
 - a) For ^{timber loss} wood fibre damage, the area burned and estimated value lost ^{in three categories:} of three forest types: merchantable timber, regeneration and immature, and other types (cutover, unproductive, etc.)
 - b) For property damage, the estimated value lost of improvements, structures, personal property, industrial plant and other equipment, felled wood in process, and any other property damaged or destroyed by fire.

The following symbols are used in the tables:

- nil or zero
- too small to be expressed
- .. not available
- ... not applicable
- e estimate

all units are quoted in dollars

✓ We have adopted a new format in order to expedite the publication of the statistics and to present them more clearly and concisely. Furthermore, we now publish all figures in metric units.

We show total statistics for Canada as a whole. Because protection intensity for most of the Yukon and Northwest Territories is less than for most lands within provincial boundaries, we show separate totals for the Provinces and for the Territories.

Forest fire control agencies across Canada have different administrative structures and, therefore, consistent reporting of expenditures from agency to agency is very difficult. The expenditure statistics that we publish should not be compared between agencies without taking account of administrative differences. Publication of these figures is intended only to show the order of magnitude of forest fire control expenditure in Canada. Similarly, value lost measures vary between agencies and in most cases do not take into account recreation, wildlife, watershed and other important considerations. Publication of these figures is intended only to show the order of magnitude of some of the monetary effects of forest fires.

PNFJ Contained within the following tables are all of the data that we have collected for 1977. Anyone requiring more detailed statistics can follow one of two courses: a) contact the ~~Forest Fire Research Institute~~ for assistance in making requests, or b) submit requests directly to the appropriate agencies. A list of contributing agencies is given below:

British Columbia Forest Service
Protection Division
Victoria, British Columbia V8V 1X5

Alberta Forest Service
Forest Protection Division
Box 7040, Postal Station M
Edmonton, Alberta T5E 5S9

Department of Northern Saskatchewan
48 - 12th Street East
Prince Albert, Saskatchewan S6V 1B3

Ministry of Natural Resources
Aviation and Fire Management Centre
55 Church Street
P.O. Box 310
Sault Ste. Marie, Ontario P6A 5L8

*change
to French*

Department of Lands and Forests
Forest Protection Service
175 rue St-Jean
Quebec, Quebec G1R 1N4

Department of Natural Resources
Forest Protection Branch
498 York Street
Fredericton, New Brunswick E3B 3P7

Department of Lands & Forests
Fire Control Headquarters
Shubenacadie, Nova Scotia B0N 2H0

Department of Agriculture and Forestry
P.O. Box 2000
Charlottetown, Prince Edward Island C1A 7N8

Newfoundland Forestry Service
Forest Protection
Building 810
Pleasantville
St. John's, Newfoundland A1A 1P9

Northwest Lands and Forest Service
P.O. Box 7
Fort Smith, N.W.T. X0E 0P0

Yukon Lands and Forest Service
200 Range Road
Whitehorse, Y.T. Y1A 3V1

→

les

Parks Canada
Resource Conservation
Terraces de Chaudière
Hull, Quebec K1A 0H4

~~Forest Fire Research Institute
Canadian Forestry Service
240 Bank Street
Ottawa, Ontario K1G 3Z6~~

Can. For. Serv.

FOREST FIRE STATISTICS FOR CANADA¹

Table 1.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	1 845	21	24 917	2	1 682	21	50 778	6
Settlement	1 275	14	95 198	7	878	11	51 012	6
Woods Operations	291	3	1 257	-	401	5	19 214	2
Railways	546	6	7 398	1	505	6	5 122	-
Other Industries	442	5	50 120	3	313	4	33 930	4
Incendiary	616	7	35 521	2	350	5	9 758	1
Misc. Known	1 299	15	18 425	1	1 268	16	17 323	2
TOTAL KNOWN MAN-CAUSED	6 314	71	232 836	16	5 397	68	187 137	21
Lightning	2 180	24	1 182 301	82	2 164	27	650 493	72
Unknown	466	5	23 037	2	400	5	59 804	7
TOTALS	8 960	100	1 483 174	100	7 961	100	897 434	100

¹ Annual average data not available for Prince Edward Island.

Table 1.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74 ²			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	3 981	44	234	-	3 866	48	130	-
0.1 - 4.0	3 746	42	3 887	-	3 035	38	3 524	-
4.1 - 40.0	839	9	17 683	1	619	8	9 382	1
40.1 - 200	169	2	30 423	2	214	3	23 160	3
over 200	225	3	1 385 947	97	217	3	859 609	96
TOTALS	8 960	100	1 438 174	100	7 951	100	895 805	100

² Includes nine year annual average for Newfoundland (1965-73).

Table 1.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	66	1	211	-	4	-	9	-
February	25	-	15	-	3	-	5	-
March	79	1	3 773	-	37	-	413	-
April	1 333	15	152 680	11	549	7	3 843	-
May	3 086	35	413 587	29	1 726	22	112 051	13
June	1 323	15	395 247	28	1 508	19	394 041	44
July	1 556	17	232 912	16	1 752	22	256 321	29
August	1 098	12	235 479	16	1 633	21	109 401	12
September	215	2	931	-	529	7	19 243	2
October	145	2	3 198	-	190	2	2 062	-
November	26	-	134	-	26	-	42	-
December	8	-	7	-	4	-	3	-
TOTALS	8 960	100	1 438 174	100	7 961	100	897 434	100

Table 1.4. Fire Losses

	1977		Annual Average 1965-74 ³	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	335 807	\$ 61,386,845	156 870	\$ 10,135,304
Regeneration and Immature	188 378	2,910,722	333 265	5,005,797
Cutover & Other Areas	903 755	2,121,864	400 393	421,593
Real and Personal Property	1427990	5,343,980	390500	1,590,788
TOTALS		\$ 71,763,411		\$ 17,153,482

³ Includes nine year annual average for Newfoundland (1965-73).

* No mention of bringing average '65-74 to standard '77 dollars
Probably multiply by 3 or 4, which suggests that '77 not much different than '65-74

Table 1.5. Fire Control Expenditure⁴ (1977)

Table 1.6. Fatalities

Jurisdiction	Budgeted Costs	Fire Fighting Costs	1977	Total 1965-74
British Columbia	\$ 7,250,000	\$ 9,233,000	-	11
Alberta	8,837,000	1,177,000	-	-
Saskatchewan	571,000	4,269,000 ^e	-	-
Manitoba	3,600,000	2,086,000	-	-
Ontario	21,585,000 ^e	6,150,000 ^e	-	3
Quebec	15,738,000	3,161,000	-	1
New Brunswick	472,000 ^e	284,000	-	1
Prince Edward Island	38,000	27,000	-	..
Nova Scotia	1,727,000	150,000	-	-
Newfoundland	2,652,000	45,000	-	1
Yukon Territory	2,002,000	264,000	-	-
Northwest Territories	2,451,000	1,347,000	-	6
National Parks	359,000	809,000	-	1
Other Federal Lands	133,000	35,000	-	-
TOTAL	\$67,415,000	\$29,037,000	-	24

⁴ Figures rounded to nearest 1000 dollars; interagency comparisons should not be made; data from previous years not sufficiently complete for annual averages.

~~\$~~ 96 452 000

e ? estimate(?)

Total of Cost + Loss - \$ 168 215 411

FOREST FIRE STATISTICS FOR THE PROVINCES¹

Table 2.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	1 712	20	11 454	2	1 627	21	45 464	8
Settlement	1 251	15	95 159	11	868	11	50 980	9
Woods Operations	288	3	934	-	399	5	19 195	3
Railways	546	7	7 398	1	505	7	3 102	1
Other Industries	411	5	18 281	2	298	4	17 271	3
Incendiary	610	7	35 520	4	346	5	9 752	2
Misc. Known	1 280	15	18 392	2	1 241	16	16 543	3
TOTAL KNOWN MAN-CAUSED	6 098	72	187 138	22	5 284	69	162 307	29
Lightning	1 977	23	629 147	75	2 005	26	377 733	69
Unknown	450	5	23 012	3	359	5	8 610	2
TOTALS	8 525	100	839 297	100	7 648	100	548 650	100

¹ Includes all areas in Canada except the Yukon and Northwest Territories. Annual average data not available for P.E.I.

Table 2.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74 ²			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	3 869	45	232	-	3 776	50	128	-
0.1 - 4.0	3 568	42	3 746	1	2 931	38	3 385	1
4.1 - 40.0	777	9	16 846	2	578	8	8 674	1
40.1 - 200	152	2	28 770	3	189	2	20 297	4
over 200	159	2	789 703	94	164	2	514 537	94
TOTALS	8 525	100	839 297	100	7 638	100	547 021	100

² Includes nine year annual average for Newfoundland (1965-73).

Table 2.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	66	1	211	-	4	-	1	-
February	24	-	15	-	3	-	5	-
March	78	1	3 773	1	37	1	413	-
April	1 327	15	152 655	18	545	7	3 842	1
May	3 052	36	412 475	49	1 700	22	101 740	18
June	1 192	14	233 468	28	1 402	18	233 459	43
July	1 421	17	31 658	4	1 643	22	129 068	24
August	1 003	12	785	-	1 581	21	62 550	11
September	191	2	919	-	516	7	15 465	3
October	137	2	3 197	-	187	2	2 062	-
November	26	-	134	-	26	-	42	-
December	8	-	7	-	4	-	3	-
TOTALS	8 525	100	839 297	100	7 648	100	548 650	100

Table 2.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost ³
Merchantable Timber	253 253	\$ 58,660,554	109,286	\$ 9,711,978
Regeneration and Immature	78 443	1,607,272	157 262	4,031,257
Cutover & Other Areas	497 897	92,474	275 197	327,624
Real and Personal Property		5,336,280		1,473,098
TOTALS		\$ 65,696,580		\$ 15,543,957

³ Includes nine year annual average for Newfoundland (1965-73).

FOREST FIRE STATISTICS FOR THE TERRITORIES

Table 3.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	133	30	13 463	2	55	18	5 314	1
Settlement	24	6	39	-	10	3	32	-
Woods Operations	3	1	323	-	2	-	19	-
Railways	-	-	-	-	--	-	2 020	1
Other Industries	31	7	31 839	5	15	5	16 659	5
Incendiary	6	1	1	-	4	1	6	-
Misc. Known	19	4	33	-	27	9	780	-
TOTAL KNOWN MAN-CAUSED	216	49	45 698	8	113	37	24 830	7
Lightning	203	47	553 154	92	159	51	272 760	78
Unknown	16	4	25	-	41	13	51 194	15
TOTALS	435	100	598 877	100	313	100	348 784	100

Table 3.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	112	26	2	-	90	29	2	-
0.1 - 4.0	178	41	141	-	104	33	139	-
4.1 - 40.0	62	14	837	-	41	13	708	-
40.1 - 200	17	4	1 653	-	25	8	2 863	1
over 200	66	15	596 244	100	53	17	345 072	99
TOTALS	435	100	598 877	100	313	100	348 784	100

Table 3.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	--	-	8	-
February	1	-	-	-	-	-	-	-
March	1	-	-	-	--	-	-	-
April	6	1	25	-	4	1	1	-
May	34	8	1 112	-	26	8	10 311	3
June	131	30	161 779	27	106	34	160 582	46
July	135	31	201 254	34	109	35	127 253	37
August	95	22	234 694	39	52	17	46 851	13
September	24	6	12	-	13	4	3 778	1
October	8	2	1	-	3	1	--	-
November	-	-	-	-	--	-	-	-
December	-	-	-	-	-	-	-	-
TOTALS	435	100	598 877	100	313	100	348 784	100

Table 3.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	82 554	\$ 2,726,291	47 584	\$ 423,326
Regeneration and Immature	109 935	1,303,450	176 003	974,540
Cutover & Other Areas	405 858	2,029,390	125 196	93,969
Real and Personal Property		7,700		117,690
TOTALS		\$ 6,066,831		\$ 1,609,525

13.8%

FOREST FIRE STATISTICS FOR BRITISH COLUMBIA

Table 4.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	441	24	469	12	507	19	5 074	5
Settlement	119	6	1 162	30	236	9	9 683	10
Woods Operations	135	7	713	19	216	8	10 486	11
Railways	69	4	140	4	200	8	1 023	1
Other Industries	140	8	33	1	66	3	1 024	1
Incendiary	128	7	218	6	59	2	2 698	3
Misc. Known	262	14	642	17	405	16	3 421	4
TOTAL KNOWN MAN-CAUSED	1 294	70	3 377	89	1 689	65	33 409	35
Lightning	552	30	288	8	893	34	62 359	65
Unknown	8	-	131	3	24	1	315	-
TOTALS	1 854	100	3 796	100	2 606	100	96 083	100

Table 4.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	1 279	69	123	3	1 524	58	60	-
0.1 - 4.0	488	26	505	13	810	31	1 213	1
4.1 - 40.0	68	4	942	25	170	7	2 743	3
40.1 - 200	16	1	1 083	29	63	2	7 358	8
over 200	3	-	1 143	30	39	2	84 709	88
TOTALS	1 854	100	3 796	100	2 606	100	96 083	100

Table 4.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	2	-	7	-	-	-	-	-
March	14	1	27	1	14	1	237	-
April	194	10	1 776	47	71	3	443	1
May	108	6	424	11	372	14	9 288	10
June	312	17	234	6	416	16	24 305	25
July	449	24	605	16	657	25	30 417	32
August	660	36	532	14	794	30	20 351	21
September	68	4	64	2	224	9	9 762	10
October	39	2	119	3	57	2	1 279	1
November	2	-	1	-	1	-	1	-
December	6	-	7	-	-	-	-	-
TOTALS	1 854	100	3 796	100	2 606	100	96 083	100

Table 4.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	1 328	\$ 169,117	18 084	\$ 2,353,972
Regeneration and Immature	254	173,197	23 936	1,678,253
Cutover & Other Areas	2 214	27,194	54 063	130,795
Real and Personal Property		173,537		620,448
TOTALS		\$ 543,045		\$ 4,783,468

FOREST FIRE STATISTICS FOR ALBERTA

Table 5.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	149	27	50	-	100	16	7 991	12
Settlement	50	9	2 710	18	83	14	30 769	45
Woods Operations	14	2	11	-	23	4	647	1
Railways	26	5	166	1	15	3	23	-
Other Industries	43	8	52	-	54	9	998	1
Incendiary	50	9	3 933	25	44	7	3 312	5
Misc. Known	77	14	187	1	36	6	110	-
TOTAL KNOWN MAN-CAUSED	409	74	7 109	45	355	59	43 850	64
Lightning	132	24	8 582	55	233	38	24 029	35
Unknown	15	2	47	-	19	3	435	1
TOTALS	556	100	15 738	100	607	100	68 314	100

Table 5.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	306	55	7	-	324	53	4	-
0.1 - 4.0	167	30	182	1	192	32	234	-
4.1 - 40.0	55	10	905	6	52	8	801	1
40.1 - 200	18	3	1 444	9	22	4	2 084	3
over 200	10	2	13 200	84	17	3	65 191	96
TOTALS	556	100	15 738	100	607	100	68 314	100

Table 5.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	2	-	--	-	4	1	1	-
February	12	2	6	-	3	-	3	-
March	13	2	28	-	7	1	5	-
April	139	25	6 247	40	28	5	225	-
May	86	16	862	5	169	28	47 931	70
June	127	23	8 212	52	122	20	9 890	15
July	72	13	285	2	101	17	4 226	6
August	39	7	4	-	88	14	4 831	7
September	18	4	3	-	35	6	1 080	2
October	39	7	91	1	31	5	113	-
November	7	1	--	-	15	2	8	-
December	2	-	--	-	4	1	1	-
TOTALS	556	100	15 738	100	607	100	68 314	100

Table 5.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	275	\$ 13,377	25 043	\$ 2,403,092
Regeneration and Immature	3 707	30,144	6 757	722,208
Cutover & Other Areas	3 281	-	36 514	60,355
Real and Personal Property		-		7,015
TOTALS		\$ 43,521		\$ 3,192,670

FOREST FIRE STATISTICS FOR SASKATCHEWAN

Table 6.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	55	14	96	-	66	20	14 005	10
Settlement	101	25	1 380	1	41	13	3 731	3
Woods Operations	2	-	1	-	5	1	304	-
Railways	3	1	174	-	2	1	16	-
Other Industries	16	4	5	-	16	5	5 071	4
Incendiary	26	7	121	-	28	9	985	1
Misc. Known	35	9	34	-	17	5	7 616	6
TOTAL KNOWN MAN-CAUSED	238	60	1 811	1	175	54	31 728	24
Lightning	121	30	128 169	99	125	38	104 652	76
Unknown	38	10	148	-	25	8	704	-
TOTALS	397	100	130 128	100	325	100	137 084	100

Table 6.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	170	43	-	-	135	41	1	-
0.1 - 4.0	140	35	199	-	109	34	146	-
4.1 - 40.0	40	10	438	-	37	11	605	-
40.1 - 200	14	4	969	1	18	6	2 284	2
over 200	33	8	128 522	99	26	8	134 048	98
TOTALS	397	100	130 128	100	325	100	137 084	100

Table 6.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires %		Area Burned in hectares %		Number of Fires %		Area Burned in hectares %	
January	8	2	-	-	-	-	-	-
February	2	-	-	-	-	-	-	-
March	2	-	-	-	--	-	--	-
April	89	23	1 735	1	9	3	172	-
May	162	41	128 114	99	86	26	19 975	15
June	66	17	106	-	83	26	86 611	63
July	36	9	164	-	53	16	13 138	10
August	18	5	7	-	67	21	16 591	12
September	9	2	-	-	19	6	535	-
October	3	1	2	-	7	2	61	-
November	2	-	-	-	1	-	--	-
December	-	-	-	-	--	-	1	-
TOTALS	397	100	130 128	100	325	100	137 084	100

Table 6.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	64 036	\$ 2,937,072	5 215	\$ 172,379
Regeneration and Immature	14 681	217,662	60 203	606,686
Cutover & Other Areas	51 410	..	71 664	-
Real and Personal Property		110,000		3,240
TOTALS		\$ 3,264,734		\$ 782,305

FOREST FIRE STATISTICS FOR MANITOBA

Table 7.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	71	8	3 786	2	56	13	659	2
Settlement	289	34	86 339	37	148	36	5 322	12
Woods Operations	8	1	5	-	5	1	165	-
Railways	27	3	320	-	11	3	129	-
Other Industries	16	2	78	-	19	5	2 291	5
Incendiary	138	16	29 741	13	19	5	915	3
Misc. Known	68	8	15 092	7	6	1	1 148	3
TOTAL KNOWN MAN-CAUSED	617	72	135 361	59	264	64	10 629	25
Lightning	193	23	74 637	32	134	33	31 680	73
Unknown	46	5	21 552	9	13	3	954	2
TOTALS	856	100	231 550	100	411	100	43 263	100

Table 7.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	162	19	8	-	174	42	9	-
0.1 - 4.0	423	49	447	-	142	35	224	1
4.1 - 40.0	181	21	9 073	4	49	12	934	2
40.1 - 200	43	5	19 682	9	25	6	2 799	6
over 200	47	6	202 340	87	21	5	39 297	91
TOTALS	856	100	231 550	100	411	100	43 263	100

Table 7.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	56	6	211	-	--	-	-	-
February	8	1	2	-	-	-	-	-
March	28	3	3 673	2	--	-	-	-
April	297	35	141 075	61	23	6	1 818	4
May	255	30	34 192	15	87	21	4 532	10
June	135	16	48 921	21	74	18	5 518	13
July	41	5	1 058	-	80	19	19 331	45
August	15	2	31	-	92	22	8 441	19
September	2	-	809	-	39	10	3 348	8
October	16	2	1 465	1	15	4	275	1
November	3	-	113	-	1	-	--	-
December	-	-	-	-	-	-	-	-
TOTALS	856	100	231 550	100	411	100	43 263	100

Table 7.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	74 471	\$ 44,165,280	13 755	\$ 289,152
Regeneration and Immature	22,677	-	5 994	245,576
Cutover & Other Areas	134 402	-	23 514	329
Real and Personal Property		-		3,857
TOTALS		\$ 44,165,280		\$ 538,914

FOREST FIRE STATISTICS FOR ONTARIO

Table 8.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	530	26	5 750	1	448	32	2 678	4
Settlement	280	14	1 979	1	195	14	745	1
Woods Operations	18	1	18	-	14	1	1 259	2
Railways	257	12	5 623	1	139	10	522	1
Other Industries	32	1	130	-	39	3	302	-
Incendiary	55	3	125	-	22	1	399	1
Misc. Known	310	15	1 355	-	211	15	781	1
TOTAL KNOWN MAN-CAUSED	1 482	72	14 980	3	1 068	76	6 686	10
Lightning	527	26	401 165	97	321	23	59 678	89
Unknown	40	2	172	-	20	1	651	1
TOTALS	2 049	100	416 317	100	1 409	100	67 015	100

Table 8.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	811	40	48	-	663	47	41	-
0.1 - 4.0	1 006	49	990	-	636	45	601	1
4.1 - 40.0	157	8	1 998	-	81	6	1 082	2
40.1 - 200	29	1	2 997	1	16	1	1 470	2
over 200	46	2	410 284	99	13	1	63 821	95
TOTALS	2 049	100	416 317	100	1 409	100	67 015	100

Table 8.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-
March	17	1	42	-	3	-	11	-
April	327	16	717	-	151	11	498	1
May	913	45	232 038	56	366	26	7 098	10
June	287	14	153 274	37	232	16	27 358	41
July	371	18	28 792	7	340	24	31 193	47
August	90	4	19	-	219	16	739	1
September	18	1	2	-	70	5	39	-
October	25	1	1 433	-	25	2	58	-
November	1	-	-	-	3	-	20	-
December	-	-	-	-	--	-	1	-
TOTALS	2 049	100	416 317	100	1 409	100	67 015	100

Table 8.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	102 645	\$ 10,234,604	11 414	\$ 1,258,050
Regeneration and Immature	13 056	790,875	35 454	405,959
Cutover & Other Areas	300 616	..	13 246	14,524
Real and Personal Property		165,421		75,453
TOTALS		\$ 11,190,900		\$ 1,753,986

FOREST FIRE STATISTICS FOR QUEBEC

Table 9.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	382	28	1 148	4	336	37	13 946	21
Settlement	209	15	903	3	53	6	345	0
Woods Operations	91	7	95	-	74	8	5 051	8
Railways	74	6	189	1	36	4	946	1
Other Industries	137	10	17 943	56	59	7	7 428	11
Incendiary	60	4	323	1	20	2	567	1
Misc. Known	19	1	12	-	118	13	1 936	3
TOTAL KNOWN MAN-CAUSED	972	71	20 613	65	696	77	30 219	45
Lightning	390	29	11 321	35	191	21	33 004	49
Unknown	-	-	-	-	21	2	3 994	6
TOTALS	1 362	100	31 934	100	908	100	67 217	100

Table 9.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	598	44	16	-	356	39	1	-
0.1 - 4.0	576	42	682	2	405	45	394	1
4.1 - 40.0	156	12	2 047	7	96	11	1 337	2
40.1 - 200	19	1	1 659	5	28	3	2 644	4
over 200	13	1	27 530	86	23	2	62 841	93
TOTALS	1 362	100	31 934	100	908	100	67 217	100

Table 9.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-
March	1	-	3	-	--	-	10	-
April	49	4	248	1	35	4	188	-
May	821	60	14 281	45	254	28	10 389	16
June	104	8	16 896	53	234	26	48 225	72
July	251	18	292	1	175	19	7 872	12
August	75	5	77	-	134	15	287	-
September	40	3	32	-	52	6	57	-
October	12	1	87	-	22	2	184	-
November	9	1	18	-	2	-	5	-
December	-	-	-	-	-	-	-	-
TOTALS	1 362	100	31 934	100	908	100	67 217	100

Table 9.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	9 323	\$ 994,875	31 597	\$ 2,942,996
Regeneration and Immature	19 300	312,089	15 063	343,751
Cutover & Other Areas	3 310	49,870	20 557	114,186
Real and Personal Property		633,079		651,562
TOTALS		\$ 1,989,913		\$ 4,052,495

FOREST FIRE STATISTICS FOR NEW BRUNSWICK

Table 10.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	24	5	87	7	28	6	253	10
Settlement	42	8	95	8	39	8	112	4
Woods Operations	14	3	90	7	18	4	545	22
Railways	28	5	128	11	26	6	268	11
Other Industries	14	3	30	2	16	3	81	3
Incendiary	19	4	108	9	40	8	242	10
Misc. Known	252	48	367	31	253	52	609	24
TOTAL KNOWN MAN-CAUSED	393	76	905	75	420	87	2 110	84
Lightning	36	7	144	12	35	7	264	11
Unknown	91	17	155	13	29	6	137	5
TOTALS	520	100	1 204	100	484	100	2 511	100

Table 10.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	224	43	10	1	218	45	4	-
0.1 - 4.0	253	49	241	20	225	46	195	8
4.1 - 40.0	36	7	509	42	35	7	401	16
40.1 - 200	7	1	444	37	4	1	409	16
over 200	-	-	-	-	2	1	1 502	60
TOTALS	520	100	1 204	100	484	100	2 511	100

Table 10.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-
March	-	-	-	-	--	-	2	-
April	25	5	73	6	48	10	123	5
May	263	6	867	72	144	30	795	32
June	33	6	92	8	95	20	789	31
July	107	21	91	8	87	18	455	18
August	69	13	76	6	68	14	268	11
September	21	4	5	-	30	6	65	3
October	1	-	-	-	11	2	12	-
November	1	-	-	-	1	-	2	-
December	-	-	-	-	--	-	--	-
TOTALS	520	100	1 204	100	484	100	2 511	100

10.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	236	\$ 40,857	1 031	\$ 73,142
Regeneration and Immature	192	64,161	594	18,121
Cutover & Other Areas	242	..	885	-
Real and Personal Property		4,254,243		90,623
TOTALS		\$ 4,359,261		\$181,886

FOREST FIRE STATISTICS FOR PRINCE EDWARD ISLAND

Table 11.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74 ¹			
	Number of Fires %		Area Burned in hectares %		Number of Fires %		Area Burned in hectares %	
Recreation	2	3	7	1	..		..
Settlement	-	-	-	-	..		..
Woods Operations	-	-	-	-	..		..
Railways	-	-	-	-	..		..
Other Industries	-	-	-	-	..		..
Incendiary	44	73	444	84	..		..
Misc. Known	-	-	-	-	..		..
TOTAL KNOWN MAN-CAUSED	46	76	451	85	..		..
Lightning	-	-	-	-	..		..
Unknown	14	24	79	15	..		..
TOTALS	60	100	530	100	..		..

¹ Prince Edward Island began reporting in 1977.

Table 11.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires %		Area Burned in hectares %		Number of Fires %		Area Burned in hectares %	
0 - 0.09	-	-	-	-	..		..
0.1 - 4.0	37	61	68	13	..		..
4.1 - 40.0	22	37	167	31	..		..
40.1 - 200	-	-	-	-	..		..
over 200	1	2	295	56	..		..
TOTALS	60	100	530	100	..		..

Table 11.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	..		..
February	-	-	-	-	..		..
March	-	-	-	-	..		..
April	13	22	42	8	..		..
May	45	75	481	91	..		..
June	-	-	-	-	..		..
July	2	3	7	1	..		..
August	-	-	-	-	..		..
September	-	-	-	-	..		..
October	-	-	-	-	..		..
November	-	-	-	-	..		..
December	-	-	-	-	..		..
TOTALS	60	100	530	100	..		..

Table 11.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	-	-	..	..
Regeneration and Immature	33	\$ 1,000	..	..
Cutover & Other Areas	497	-	..	..
Real and Personal Property		-		..
TOTALS		\$ 1,000		..

FOREST FIRE STATISTICS FOR NOVA SCOTIA

Table 12.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	19	3	20	2	39	6	389	18
Settlement	140	22	162	14	48	8	91	4
Woods Operations	-	-	-	-	34	6	208	10
Railways	45	7	92	8	47	8	101	5
Other Industries	11	2	10	1	26	4	62	3
Incendiary	90	14	507	43	108	18	553	25
Misc. Known	206	33	273	23	150	25	113	5
TOTAL KNOWN MAN-CAUSED	511	81	1 064	91	452	75	1 517	70
Lightning	4	1	-	-	4	1	4	-
Unknown	118	19	106	9	146	24	650	30
TOTALS	633	100	1 170	100	602	100	2 171	100

Table 12.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	193	31	8	1	252	42	2	1
0.1 - 4.0	400	63	355	30	306	51	276	13
4.1 - 40.0	37	6	433	37	37	6	453	21
40.1 - 200	2	-	146	12	5	1	380	17
over 200	1	-	228	20	2	-	1 060	49
TOTALS	633	100	1 170	100	602	100	2 171	100

Table 12.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires %		Area Burned in hectares %		Number of Fires %		Area Burned in hectares %	
January	-	-	-	-	-	-	-	-
February	-	-	-	-	--	-	1	-
March	2	-	-	-	12	2	147	7
April	182	29	248	21	165	27	334	15
May	338	53	877	75	166	28	918	42
June	39	6	12	1	75	13	468	21
July	41	7	29	3	68	11	77	4
August	19	3	1	-	66	11	169	8
September	11	2	1	-	32	5	13	1
October	-	-	-	-	16	3	38	2
November	1	-	2	-	2	-	6	-
December	-	-	-	-	--	-	--	-
TOTALS	633	100	1 170	100	602	100	2 171	100

Table 12.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	382	\$ 51,892	460	\$ 20,176
Regeneration and Immature	132	8,144	508	7,079
Cutover & Other Areas	648	9,392	1 202	4,353
Real and Personal Property		..		-
TOTALS		\$ 69,428		\$ 31,608

FOREST FIRE STATISTICS FOR NEWFOUNDLAND & LABRADOR

Table 13.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-73 ¹			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	17	10	15	1	23	12	457	1
Settlement	17	10	24	2	24	12	182	1
Woods Operations	5	3	-	-	9	5	526	1
Railways	9	6	525	39	20	10	73	-
Other Industries	-	-	-	-	2	1	13	-
Incendiary	-	-	-	-	3	1	11	-
Misc. Known	42	25	153	11	25	13	241	1
TOTAL KNOWN MAN-CAUSED	90	54	717	53	106	54	1 503	4
Lightning	2	1	12	1	33	17	36 124	94
Unknown	74	45	608	46	56	29	762	2
TOTALS	166	100	1 337	100	195	100	38 389	100

Table 13.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-73 ¹			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	89	54	9	1	74	40	4	-
0.1 - 4.0	57	34	53	4	76	41	72	-
4.1 - 40.0	16	10	200	15	13	7	196	1
40.1 - 200	1	-	48	3	5	3	563	2
over 200	3	2	1 027	77	17	9	35 925	97
TOTALS	166	100	1 337	100	185	100	36 760	100

¹ Figures for 1974 are not available; annual average based on 1965 to 1973.

Table 13.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	-	-	-	-	--	-	1	-
March	-	-	-	-	1	-	1	-
April	5	3	39	3	12	6	32	-
May	33	20	54	4	38	20	291	1
June	76	46	909	68	54	28	28 104	73
July	33	20	295	22	54	28	9 414	25
August	15	9	37	3	25	13	517	1
September	4	2	3	-	10	5	27	-
October	-	-	-	-	1	-	2	-
November	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-
TOTALS	166	100	1 337	100	195	100	38 389	100

Table 13.4. Fire Losses

	1977		Annual Average 1965-73 ²	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	450	\$ 39,000	2 643	\$ 197,421
Regeneration and Immature	213	10,000	276	3,563
Cutover & Other Areas	161	6,000	35 470	2,879
Real and Personal Property		-		20,891
TOTALS		\$ 55,000		\$ 224,754

² Figures for 1974 are not available; annual average based on 1965-1973.

FOREST FIRE STATISTICS FOR THE YUKON TERRITORY

Table 14.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	20	16	50	-	16	16	115	-
Settlement	4	3	1	-	6	6	28	-
Woods Operations	2	2	323	-	1	1	2	-
Railways	-	-	-	-	--	-	--	-
Other Industries	5	4	44	-	6	6	923	1
Incendiary	3	2	1	-	3	3	1	-
Misc. Known	4	3	2	-	18	18	16	-
TOTAL KNOWN MAN-CAUSED	38	30	421	-	50	50	1 085	1
Lightning	80	64	276 634	100	34	34	67 341	93
Unknown	8	6	20	-	16	16	4 489	6
TOTALS	126	100	277 075	100	100	100	72 915	100

Table 14.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	36	29	1	-	52	52	2	-
0.1 - 4.0	42	33	48	-	22	22	31	-
4.1 - 40.0	22	17	298	-	8	8	150	-
40.1 - 200	6	5	531	-	6	6	596	1
over 200	20	16	276 197	100	12	12	72 136	99
TOTALS	126	100	277 075	100	100	100	72 915	100

Table 14.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-
March	-	-	-	-	--	-	-	-
April	2	2	24	-	3	3	--	-
May	11	9	348	-	14	14	2 096	3
June	31	24	11 075	4	36	36	54 964	75
July	40	32	77 851	28	31	31	15 014	20
August	33	26	187 774	68	10	10	446	1
September	9	7	3	-	5	5	395	1
October	-	-	-	-	1	1	--	-
November	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-
TOTALS	126	100	277 075	100	100	100	72 915	100

Table 14.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	81 074	\$ 2,513,291	16 969	\$ 128,949
Regeneration and Immature	1 135	113,450	20 916	97,630
Cutover & Other Areas	194 866	974,430	35 029	24,205
Real and Personal Property		-		7,690
TOTALS		\$3,601,171		\$ 258,474

FOREST FIRE STATISTICS FOR THE NORTHWEST TERRITORIES

Table 15.1. Fire Distribution by Cause

Cause Class	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
Recreation	113	37	13 413	4	39	19	5 199	2
Settlement	20	6	38	-	4	2	4	-
Woods Operations	1	-	-	-	1	-	17	-
Railways	-	-	-	-	--	-	2 020	1
Other Industries	26	8	31 795	10	9	4	15 736	6
Incendiary	3	1	-	-	1	-	5	-
Misc. Known	15	5	31	-	9	4	764	-
TOTAL KNOWN MAN-CAUSED	178	57	45 277	14	63	29	23 745	9
Lightning	123	40	276 520	86	125	59	205 419	74
Unknown	8	3	5	-	25	12	46 705	17
TOTALS	309	100	321 802	100	213	100	275 869	100

Table 15.2. Fire Distribution by Size Class

Size Class (hectares)	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
0 - 0.09	76	25	1	-	38	18	--	-
0.1 - 4.0	136	44	93	-	82	38	108	-
4.1 - 40.0	40	13	539	-	33	16	558	-
40.1 - 200	11	3	1 122	-	19	9	2 267	1
over 200	46	15	320 047	100	41	19	272 936	99
TOTALS	309	100	321 802	100	213	100	275 869	100

Table 15.3. Fire Distribution by Month

Month	1977				Annual Average 1965-74			
	Number of Fires	%	Area Burned in hectares	%	Number of Fires	%	Area Burned in hectares	%
January	-	-	-	-	--	-	8	-
February	1	-	-	-	-	-	-	-
March	1	-	-	-	-	-	-	-
April	4	1	1	-	1	-	1	-
May	23	8	764	-	12	6	8 215	3
June	100	32	150 704	47	70	33	105 618	38
July	95	31	123 403	38	78	36	112 239	41
August	62	20	46 920	15	42	20	46 405	17
September	15	5	9	-	8	4	3 383	1
October	8	3	1	-	2	1	--	-
November	-	-	-	-	--	-	-	-
December	-	-	-	-	-	-	-	-
TOTALS	309	100	321 802	100	213	100	275 869	100

Table 15.4. Fire Losses

	1977		Annual Average 1965-74	
	Area Burned in hectares	Value Lost	Area Burned in hectares	Value Lost
Merchantable Timber	1 480	\$ 213,000	30 615	\$ 294,377
Regeneration and Immature	108 800	1,190,000	155 087	876,910
Cutover & Other Areas	210 992	1,054,960	90 167	69,764
Real and Personal Property		7,700		110,000
TOTALS		\$ 2,465,660		\$ 1,351,051