

FOREST FIRE STATISTICS
FOR NORTHERN CIRCUMPOLAR COUNTRIES

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ABSTRACT

Forest fire statistical records are presented for selected Canadian provinces and territories, Alaska, Sweden and Finland. Figures for fire occurrence and area burned are separated by cause (lightning-caused and man-caused). Record lengths vary but generally run from the advent of organized suppression to the present time.

RÉSUMÉ

Dans ce rapport, le lecteur trouvera des statistiques sur les incendies de forêt dans des provinces choisies et territoires du Canada, en Alaska, en Suède et en Finlande. Les chiffres concernant l'irruption des incendies et les superficies brûlées sont présentés séparément selon les causes, soit ceux causés par la foudre et ceux causés par l'activité humaine. Le nombre d'années pour lesquelles les statistiques sont disponibles est habituellement enregistré à partir du début de la lutte organisée jusqu'à aujourd'hui.

TABLE OF CONTENTS

	<i>Page</i>
Newfoundland Fire Statistics (1949-1979)	2
Quebec Fire Statistics (1924-1979)	4
Ontario Fire Statistics (1917-1979)	6
Manitoba Fire Statistics (1918-1979)	8
Saskatchewan Fire Statistics (1918-1979)	10
Alberta Fire Statistics (1918-1979)	12
Northwest Territories Fire Statistics (1946-1979)	14
Yukon Territory Fire Statistics (1950-1979)	16
Alaska Fire Statistics (1940-1979)	18
Sweden Fire Statistics (1946-1978)	20
Finland Fire Statistics (1952-1976)	22

FOREWORD

This report presents, in tabular form, forest fire statistics gathered from Canada, Alaska, Sweden and Finland for use in a paper entitled "Fire Frequencies During the Suppression Period", which was delivered at the Fire in Circumpolar Ecosystems Conference held in Fredericton, New Brunswick in October 1979. Space limitations in the Conference Proceedings precluded the inclusion of these statistics in the paper; hence, summaries were used. However, it was felt that the publication of these statistics, which were gleaned from a variety of sources, would be of interest to forest fire management personnel in the countries involved.

Statistics were limited to those countries, and within Canada, to those provinces with a large percentage of land area classified as boreal forest. Therefore, within Canada, statistics are presented for the provinces of Newfoundland, Quebec, Ontario, Manitoba, Saskatchewan and Alberta, as well as for the Northwest and Yukon territories. Nova Scotia, New Brunswick, Prince Edward Island and British Columbia were not included. Only a very limited amount of information was available from Russia and, consequently, no statistics from that country are presented.

Countries and provinces separate forest fire statistics by administrative boundaries rather than by forest regions or zones. As a result, the statistics presented in this report cover each country or province as a whole and not just that portion of each classified as boreal forest.

Differing record lengths and recording procedures make comparisons between countries or provinces difficult. Early records often did not separate forest fires by causative agency. In both Sweden and Finland a large number of fires are classified as being of unknown cause and, for the purposes of this report, are classified as man-caused. Improved detection capabilities in recent years have resulted in a significant increase in the number of lightning fires reported. In evaluating these statistics the reader should keep in mind that fires are not separated by protection priority zones. (Fire management agencies utilizing these protection zones stratify suppression efforts in order to give greater protection to high-value properties. The result is numerous large fires in low-value areas.)

The following agencies cooperated fully in providing the data included in this report:

United States Department of the Interior, Bureau of Land
Management, Alaska State Office

Canada Department of Indian Affairs and Northern Development
Alberta Forest Service

Saskatchewan Department of Tourism and Renewable Resources

Manitoba Department of Natural Resources

Ontario Ministry of Natural Resources

Québec Ministère de l'Énergie et des Ressources

Newfoundland Department of Forest Resources and Lands

Swedish and Finnish Embassies, Ottawa, Canada

Newfoundland Fire Statistics (1949-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1949	12	252	264	13179	1993	15172
1950	18	242	260	9509	20145	29654
1951	8	177	185	1036	4484	5520
1952	1	204	205	-	12440	12440
1953	7	143	150	43	514	557
1954	1	107	108	-	744	744
1955	2	135	137	15	1882	1897
1956	2	104	106	37	1140	1177
1957	4	258	262	205	8650	8855
1958	1	127	128	-	1059	1059
1959	12	205	217	11817	2037	13854
1960	8	429	437	214	28411	28625
1961	10	261	271	8025	423169	431194
1962	13	135	148	8	6300	6308
1963	4	103	107	15	2087	2102
1964	46	218	264	144068	896	144964
1965	3	236	239	1	874	875
1966	5	152	157	712	1018	1730
1967	105	159	264	247003	647	247650
1968	7	159	166	1616	7153	8769
1969	10	143	153	6995	1160	8155
1970	21	173	194	6318	2812	9130
1971	3	139	142	232	2238	2470
1972	82	165	247	41214	2067	43281
1973	21	81	102	7948	832	8780
1974	72	210	282	49201	3846	53047
1975	19	234	253	157687	16783	174470
1976	42	306	348	171503	24953	196456
1977	2	164	166	12	1325	1337
1978	13	196	209	778	3906	4684
1979	16	175	191	28615	10461	39076

2

(continued)

Newfoundland Fire Statistics (1949-1979) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1950-1959	6	170	176	2266	5310	7576	377.7	31.2	30.2
1960-1969	21	200	221	40866	47172	88038	1946.0	235.9	398.4
1970-1979	29	184	213	46351	6922	53273	1598.3	37.6	250.1

Quebec Fire Statistics (1924-1979)

Year	Number of fires			Hectare burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1924	54	582	636	4	82257	82261
1925	74	533	607	1950	6196	8146
1926	42	757	799	5179	8315	13494
1927	19	495	514	16	16564	16580
1928	7	288	295	0	2644	2644
1929	39	307	426	45	4202	4247
1930	24	567	591	1370	16451	17821
1931	70	950	1020	1144	16050	17194
1932	37	1429	1466	5645	410046	415691
1933	96	1457	1553	3140	42736	45876
1934	92	1010	1102	2700	113712	116412
1935	17	1260	1277	19	113416	113435
1936	36	520	556	5153	6804	11957
1937	85	948	1033	10005	26534	36539
1938	45	1105	1150	1431	49778	51208
1939	22	834	856	855	31642	32497
1940	19	842	861	682	15485	16167
1941	102	1608	1710	65416	578152	643568
1942	63	868	931	123	11052	11175
1943	42	657	699	441	19108	19549
1944	169	1373	1542	4997	237749	242746
1945	126	870	996	2793	14887	17680
1946	64	928	992	406	22161	22567
1947	177	934	1111	7568	31655	39223
1948	121	1159	1280	845	90111	90956
1949	248	1289	1537	8086	47718	55804
1950	56	1248	1304	1327	81078	82405
1951	44	825	869	1142	107180	108322
1952	66	538	604	2665	19940	22605
1953	381	1876	2257	63496	168997	232493
1954	35	357	392	46	20981	21027
1955	304	972	1276	93957	128446	222403
1956	90	294	384	8433	3801	12234
1957	66	798	864	309	28741	29050
1958	51	326	377	66	2723	2789
1959	108	561	669	9667	28734	38401
1960	156	718	874	11225	40442	51667
1961	122	728	850	15202	11974	27176
1962	301	948	1249	59304	140226	199530
1963	288	884	1172	14601	24339	38940

(cont Inued)

Quebec Fire Statistics (1924-1979) (concluded)

Year	Number of fires			Hectare burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1964	402	755	1157	7771	21011	28782
1965	112	634	746	425	17215	17640
1966	268	464	732	2926	5351	8277
1967	251	688	939	82191	26749	108940
1968	235	929	1164	90355	40986	131341
1969	111	498	609	346	944	1340
1970	261	785	1046	24748	6402	31150
1971	340	991	1331	105571	156532	262103
1972	174	926	1100	21609	83726	105335
1973	58	448	506	149	2883	3032
1974	98	812	910	1735	1303	3038
1975	486	1477	1963	1584	15526	17110
1976	216	780	996	36910	20037	56947
1977	376	945	1321	11281	2896	14177
1978	163	997	1160	138	3534	3672
1979	84	531	615	2332	867	3199

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1924-1929	39	507	546	1199	20030	21229	30.7	39.5	38.9
1930-1939	52	1008	1060	1346	82717	85863	60.5	82.1	81.0
1940-1949	113	1053	1166	9136	106808	115944	80.8	101.4	99.4
1950-1959	120	780	950	18111	59062	77173	150.9	75.7	85.7
1960-1969	225	725	950	28435	32929	61364	126.4	45.4	64.6
1970-1979	226	869	1095	20606	29371	49977	91.2	33.8	45.6

Ontario Fire Statistics (1917-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1917	32	1078	1110			155470
1918	37	928	965			12210
1919	54	1726	1780			373193
1920	14	1273	1287			145225
1921	139	1130	1269			303332
1922	52	969	1021			140102
1923	74	1269	1343			858012
1924	28	823	851			59092
1925	136	1013	1149	3155	73552	76707
1926	61	1049	1110	5827	29937	35764
1927	49	875	924	3055	11410	14465
1928	34	502	536	132	40493	40625
1929	249	1301	1550	79610	173584	253194
1930	191	1211	1402	23855	264210	288065
1931	297	1554	1851	28349	27615	55964
1932	218	1855	2073	152813	121983	274796
1933	465	1454	1919	79677	61949	141626
1934	495	1073	1568	28991	51395	80386
1935	101	1208	1309	397	101045	101442
1936	755	1509	2264	403544	108165	511709
1937	303	1150	1453	61264	29689	90953
1938	245	1047	1292	2488	53459	55947
1939	190	771	961	2162	9614	11776
1940	212	802	1014	36513	12703	49216
1941	278	987	1265	8998	260750	269748
1942	195	1029	1224	5758	40263	46021
1943	100	524	624	451	20924	21375
1944	185	952	1137	3192	65157	68349
1945	121	845	966	614	19018	19632
1946	303	1436	1739	8349	22719	31068
1947	410	983	1393	8237	25771	34008
1948	433	1603	2036	56585	355146	411731
1949	468	1366	1834	7704	16604	24308
1950	93	892	985	155	14730	14885
1951	151	753	904	34005	6967	40972
1952	130	965	1095	1030	3996	5026
1953	357	1163	1520	5589	18210	23799
1954	252	629	881	13854	8280	22134
1955	928	1324	2252	110128	50302	160430
1956	302	715	1017	87499	4048	91547
1957	275	1396	1671	1042	17837	18879
1958	219	1339	1558	556	14276	14832
1959	242	787	1029	453	1684	2137
1960	310	646	956	10919	1782	12701

(continued)

Ontario Fire Statistics (1917-1979) (concluded)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1961	445	860	1305	475457	3996	479453
1962	295	1226	1521	806	4781	5587
1963	319	1566	1885	7787	14932	22719
1964	591	1238	1829	6151	5231	11382
1965	202	1016	1218	1605	6450	8055
1966	539	1382	1921	1668	4166	5834
1967	198	1267	1465	1689	24010	25699
1968	79	1140	1219	79	3757	3836
1969	202	698	900	1731	751	2482
1970	403	836	1239	19870	2858	22728
1971	339	1451	1790	31662	10311	41973
1972	528	1076	1604	24882	7148	32030
1973	173	938	1111	1811	1796	3607
1974	546	1079	1625	511865	12134	523999
1975	1043	2103	3146	4838	12018	16856
1976	2086	1899	3985	459951	84167	544118
1977	527	1522	2049	401173	15153	416325
1978	165	775	940	3619	3904	7523
1979	664	900	1564	55397	8320	63717

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1925-1929	106	1948	1054	18356	65795	84151	173.2	69.4	79.8
1930-1939	326	1283	1609	78354	82912	161266	240.4	64.6	100.2
1940-1949	271	1053	1324	13640	83906	97546	50.3	79.7	73.7
1950-1959	295	996	1291	25431	14033	29464	86.2	14.1	130.6
1960-1969	318	1104	1422	50789	6986	57775	159.7	6.3	40.6
1970-1979	647	1258	1905	151507	15781	167288	234.1	12.5	87.8

Manitoba Fire Statistics (1918-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1918	2	104	106			10124
1919	15	164	179			166025
1920	15	227	242			118704
1921	8	124	132			16239
1922	55	192	247			20147
1923	26	160	186			41793
1924	15	295	310			19412
1925	12	148	160			16268
1926	42	421	463			22824
1927	23	87	110			10613
1928	34	311	345			170115
1929	79	581	660			1377912
1930	159	258	417			284363
1931	15	233	248			22690
1932	37	278	315			35922
1933	57	315	372			29971
1934	14	223	237			11276
1935	13	130	143			12358
1936	105	449	554			210697
1937	80	366	446			187733
1938	10	547	557			70009
1939	17	484	501			53150
1940	31	635	666			233955
1941	29	230	259			51213
1942	2	172	174			85078
1943	11	142	153			15419
1944	9	242	251			49516
1945	25	143	168			4628
1946	25	368	394			52516
1947	62	100	162			29749
1948	79	395	474			393970
1949	73	310	383			68279
1950	30	123	153			29881
1951	34	135	169	14140	5578	19718
1952	54	324	378	3182	67143	70325
1953	47	181	228	25303	51022	76325
1954	20	101	121	774	1602	2376
1955	114	213	327	18577	23388	41965
1956	137	209	346	175894	39124	215018
1957	83	259	342	34073	29557	63630
1958	40	346	386	14757	317721	332478
1959	48	107	155	981	9972	10953
1960	235	213	448	148560	18237	166797

(continued)

Manitoba Fire Statistics (1918-1979) (concluded)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1961	149	558	707	390043	712757	1102799
1962	85	200	285	55548	15673	71221
1963	125	318	443	10304	18218	28522
1964	202	379	581	227297	111145	338442
1965	51	174	225	185	6595	6780
1966	79	156	235	1015	1476	2491
1967	217	421	638	81575	48777	130352
1968	35	196	231	1255	18163	19418
1969	155	171	326	22687	2096	24783
1970	97	220	317	31150	5957	37107
1971	78	412	490	1417	7094	8511
1972	234	305	539	15736	2926	18662
1973	153	462	615	14753	8632	23385
1974	237	254	491	147038	14123	161161
1975	141	217	358	16993	6351	23344
1976	373	755	1128	54983	73117	128100
1977	193	663	856	74638	156915	231553
1978	83	296	379	17921	6689	24610
1979	378	266	644	77345	5078	82423

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1920-1929	1	255	286			181403			634.3
1930-1939	51	328	379			91817			242.3
1940-1949	35	274	309			98432			318.6
*1950-1959	64	208	272	31965	60567	92532	499.5	291.2	340.2
1960-1969	133	279	412	93847	95314	189161	705.6	341.6	459.1
1970-1979	197	385	582	45197	28688	73885	229.4	74.5	127.0

*1950 data incomplete

Saskatchewan Fire Statistics (1918-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1918	5	212	217			62881
1919	8	242	250			1861845
1920	13	257	270			36836
1921	0	151	151			791
1922	1	245	246			33467
1923	4	184	188			108610
1924	0	248	248			212287
1925	1	115	116			45765
1926	23	198	221			222523
1927	8	101	109			94812
1928	13	307	320			189053
1929	18	499	517			300416
1930	37	298	335			158003
1931	7	184	191			73618
1932	0	121	121			32913
1933	3	58	61			9213
1934	0	142	142			3420
1935	2	164	166			19472
1936	36	329	365			206790
1937	56	522	578			1023537
1938	10	221	231			80115
1939	6	188	194			87328
1940	4	423	427			316986
1941	30	244	274			103062
1942	3	215	218			237204
1943	2	85	87			13800
1944	1	86	87			19234
1945	5	93	98			20123
1946	0	97	97			25881
1947	8	88	96			13241
1948	9	212	221			97667
1949	8	213	221			222129
1950	13	103	116			94741
1951	11	35	46			5742
1952	5	132	137			15408
1953	27	141	168			62669
1954	8	49	57			1539
1955	128	47	175			13556
1956	68	118	186			23668
1957	51	109	160			19337
1958	47	197	244			48264
1959	49	120	169			2608
1960	134	102	236			187205

Saskatchewan Fire Statistics (1918-1979) (concluded)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1961	215	292	507	551557	236945	788502
1962	136	153	289	2492	3833	6325
1963	106	149	255	44606	12662	57268
1964	258	202	460	391098	84090	475188
1965	28	95	123	1699	2249	3948
1966	48	168	216	10067	3370	13437
1967	98	320	418	98121	31794	129915
1968	98	251	349	13713	58118	71831
1969	151	247	398	55530	6703	62233
1970	153	159	312	455174	76652	531826
1971	96	247	343	82756	3453	86209
1972	228	232	460	66998	139827	206825
1973	270	162	432	236767	1848	238615
1974	77	120	197	25728	314	26042
1975	156	131	287	90971	4077	95048
1976	181	455	636	87565	3422	90987
1977	121	276	397	128171	1959	130130
1978	130	218	348	81479	11187	92666
1979	237	176	413	227771	579	228350

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1920-1929	3	231	239			124456		520	520.7
1930-1939	16	223	239			169441			709.0
1940-1949	7	176	183			106933			584.3
1950-1959	41	105	146			28753			196.9
*1961-1969	126	209	225	129876	48863	178739	1030.8	233.8	533.5
1970-1979	165	218	383	148338	24332	172670	899.0	111.6	450.8

*1960 data incomplete

Alberta Fire Statistics (1918-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1918	1	278	279			25271
1919	8	324	332			336789
1920	5	371	376			15080
1921	3	837	840			21874
1922	6	1752	1758			209186
1923	1	604	605			24151
1924	3	638	641			249063
1925	8	263	271			89505
1926	14	265	279			89963
1927	3	228	231			14973
1928	0	396	396			89323
1929	18	378	396			111216
1930	14	256	270			31277
1931	4	618	622			244793
1932	10	369	379			55087
1933	15	273	288			37946
1934	18	222	240			23825
1935	1	96	97			2557
1936	35	213	248			82742
1937	8	368	376			338030
1938	12	509	521			711603
1939	20	479	499			173673
1940	9	304	313			191927
1941	7	438	445			548540
1942	2	213	215			131857
1943	1	264	265			208481
1944	11	314	325			292460
1945	17	267	284			87713
1946	12	263	275			110193
1947	5	117	122			32399
1948	5	172	177			119571
1949	21	302	323			576993
1950	22	226	248			281449
1951	7	77	84	407	9252	9659
1952	6	186	192	3429	192579	196008
1953	7	133	140	1073	134138	135211
1954	5	80	85	3009	49148	52157
1955	35	197	232	12822	68642	81464
1956	46	212	258	64672	216384	281056
1957	33	147	180	1020	5247	6267
1958	81	383	464	68032	25451	93483
1959	108	361	469	15801	19796	35597
1960	105	369	474	2831	5247	8078

(continued)

Alberta Fire Statistics (1918-1979) (concluded)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1961	339	472	811	58590	19738	78328
1962	105	173	278	961	863	1824
1963	263	291	554	5381	1745	7126
1964	86	275	361	3200	4087	7287
1965	114	138	252	21447	542	21989
1966	105	266	371	23900	4409	28309
1967	270	526	796	2731	6664	9395
1968	108	509	617	3680	396720	400400
1969	227	321	548	26257	2943	29200
1970	353	463	816	42122	10310	52432
1971	428	426	854	58789	4271	63060
1972	322	415	737	47088	2204	49292
1973	127	351	478	573	10118	10691
1974	276	322	598	17161	1233	18394
1975	203	490	693	4065	833	4898
1976	184	590	774	834	21641	22475
1977	132	424	556	8582	7156	15738
1978	281	376	657	5986	1853	7839
1979	518	482	1000	185453	9148	194601

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1920-1929	6	573	579			91497			158.0
1930-1939	14	340	354			170153			480.7
1940-1949	9	265	274			230013			839.5
*1951-1959	36	197	233	18918	80071	98989	525.5	406.5	424.8
1960-1969	172	334	506	14898	44296	59194	86.6	132.6	117.0
1970-1979	282	434	716	37065	6877	43942	131.4	15.8	61.4

*1950 data incomplete

Northwest Territories Fire Statistics (1946-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1946			58			588051
1947			26			16010
1948			65			26339
1949			27			52794
1950			96			289069
1951			88			35957
1952			42			55516
1953			65			871325
1954			57			455255
1955			141			159128
1956			94			164202
1957			42			135489
1958			71			34531
1959			85			45078
1960			92			41167
1961	89		167	293287	13689	306976
1962			88			9913
1963			66			6567
1964			146			186122
1965			107			2294
1966	131	109	240	43224	166572	209796
1967	57	75	132	49940	17066	67006
1968	14	105	119	5104	244432	229536
1969	73	110	183	100023	392154	492177
1970	137	42	179	206803	844	207647
1971	212	117	329	788710	40178	828888
1972	230	97	327	193915	31140	225055
1973	371	121	492	850754	5357	856111
1974	117	66	183	37014	117	37131
1975	196	99	295	499496	76648	576144
1976	221	81	302	577838	64560	642398
1977	123	186	309	276520	45282	321802
1978	68	88	156	75007	4022	79029
1979	292	88	380	1985704	3429	1989133

(continued)

Northwest Territories Fire Statistics (1946-1979) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1946-1949			44			170799			3881.7
1950-1959			78			224555			2878.9
1960-1965*			111			92173			830.4
1966-1969**	69	100	169	49573	205056	254629	718.4	2050.6	1506.7
1970-1979	197	99	296	549176	27158	276334	2787.7	274.3	1947.1

* 6 years of data

** 4 years of data

Yukon Territory Fire Statistics (1950-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1950			39			9710
1951			69			83784
1952			25			12702
1953			70			19444
1954			47			455255
1955	13	62	75			16732
1956	3	52	55			1110
1957	34	54	86			47063
1958	25	71	96			629313
1959	26	34	60			17083
1960	7	42	49			8543
1961	6	44	50	38500	73	38573
1962			46	4082	3953	8035
1963			44	393	4334	4727
1964			25	190	4	194
1965			76	6250	1309	7559
1966	48	53	101	158730	393	159123
1967	38	53	91	98555	9056	107611
1968	12	63	75	7171	6516	13687
1969	57	72	129	463679	33940	497619
1970	3	115	118	17	86	103
1971	69	70	139	246656	10415	257071
1972	82	60	142	64281	1912	66193
1973	21	88	109	5	1447	1452
1974	45	48	93	1522	29	1551
1975	105	61	166	92114	776	92890
1976	49	63	112	52645	162	52807
1977	80	46	126	276634	441	277075
1978	27	75	102	7051	344	7395
1979	21	44	65	7290	58	7348

(continued)

Yukon Territory Fire Statistics (1950-1979) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1950-1959			62			129220			2084.2
1960-1965*			48			11272			234.8
1966-1969**	39	60	99	182034	12476	194510	4667.5	207.9	1964.7
1970-1979	50	67	117	74822	1567	76389	1496.4	23.4	652.9

* 6 years of data

** 4 years of data

Alaska Fire Statistics (1940-1979)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1940		130	130			1821088
1941		116	116			1475395
1942		78	78			183125
1943	40	154	194			269834
1944	18	55	73			44760
1945	30	41	71			47475
1946	52	78	130			581371
1947	32	127	159			578659
1948	21	113	134			13628
1949	7	46	52			7257
1950	27	197	224	180326	652444	832770
1951	27	244	271	7075	81831	88906
1952	11	125	136	5890	23976	29866
1953	75	210	285	154243	34643	188886
1954	63	199	262	545513	16968	562481
1955	26	164	190	4236	10831	15067
1956	64	162	226	180792	12079	192871
1957	160	231	391	2035200	8464	2043664
1958	92	186	278	92531	35842	128373
1959	200	130	330	235054	6371	241425
1960	62	176	238	13215	22065	35280
1961	31	86	117	519	1545	2064
1962	53	49	102	15308	464	15772
1963	79	115	194	5609	984	6593
1964	63	101	164	983	405	1388
1965	30	118	148	1181	1690	2871
1966	74	182	256	340449	4732	345181
1967	73	134	207	42153	1960	44113
1968	263	179	442	408325	1744	410069
1969	125	387	512	1115384	597132	1712516
1970	140	347	487	43363	2582	45946
1971	240	232	474	753004	3719	756724
1972	472	173	645	390283	910	391193
1973	123	213	336	20437	3780	24217
1974	384	298	682	261211	7194	268404
1975	134	210	344	34902	16857	51759
1976	227	345	572	22221	5763	27984
1977	401	222	623	982110	1367	929477
1978	82	242	324	2352	789	3141
1979	188	120	308	155937	60180	216117

(continued)

Alaska Fire Statistics (1940-1979) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1940-1949	20	94	114			5024724			44076.5
1950-1959	75	185	260	344086	88345	432431	4587.8	477.5	1663.2
1960-1969	85	153	238	194313	63272	257585	2286.0	413.5	1082.3
1970-1979	239	240	479	266582	10314	276896	1115.4	43.0	578.1

Sweden Fire Statistics (1946-1978)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1946			564			704
1947			2136			4997
1948			911			1416
1949			1476			2558
1950			753			1851
1951	45	630	675	54	635	689
1952	34	601	635	39	651	690
1953	122	776	898	139	977	1116
1954	16	562	578	25	687	712
1955	317	2211	2528	1180	3139	4319
1956	137	1318	1455	207	1634	1841
1957	59	1442	1501	81	1049	1130
1958	57	1550	1607	101	1507	1608
1959	572	6521	7093	3046	5981	9027
1960	138	2342	2480	170	3138	3308
1961	143	1217	1360	397	689	1086
1962	10	1244	1254	11	713	724
1963	178	1726	1904	159	3189	3349
1964	125	2974	3099	261	4781	5042
1965	29	2167	2196	28	2042	2070
1966	160	1976	2136	1469	2844	4313
1967	70	1567	1637	39	1627	1666
1968	82	2313	2395	815	4484	5299
1969	300	3976	4276	1900	3703	5603
1970	149	2422	2571			4275
1971	111	3877	3988			3514
1972	192	2870	3062			3055
1973	479	5313	5792			4268
1974	193	5639	5832			6828
1975	324	5509	5833			6887
1976	39	380	419			4223
1977	13	84	97			688
1978	31	146	177			1591

(continued)

Sweden Fire Statistics (1946-1978) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1946-1949			1272			2419			1.9
1951-1959*	151	1735	1886	541	1807	2348	3.6	1.0	1.2
1960-1969	124	2150	2274	525	2721	3246	4.2	1.3	1.4
1970-1978	170	2916	3086			3925			1.3

*1950 data incomplete

Finland Fire Statistics (1952-1976)

Year	Number of fires			Hectares burned		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1952	6	293	299	18	746	764
1953	36	180	216	7992	963	8955
1954	14	244	258	35	623	658
1955	73	563	636	136	1443	1579
1956	15	438	453	302	1370	1672
1957	100	248	348	1938	824	2762
1958	23	348	371	55	865	920
1959	121	1298	1419	584	10078	10662
1960	85	543	628	18902	4970	23872
1961	111	134	245	391	407	798
1962	2	115	117	5	236	241
1963	103	614	717	172	911	1083
1964	24	612	636	31	1061	1092
1965	37	480	517	58	883	941
1966	97	250	347	372	728	1100
1967	37	323	360	55	506	561
1968	68	399	467	91	744	835
1969	174	737	911	147	3724	3871
1970	104	446	550	500	2524	3024
1971	50	507	557	36	726	762
1972	269	312	581	669	363	1032
1973	563	532	1095	688	613	1301
1974	167	164	331	273	177	450
1975	49	552	601	27	692	719
1976	17	493	510	19	524	543

(continued)

Finland Fire Statistics (1952-1976) (concluded)

Summary

Period	Number of fires/yr			Hectares burned/yr			Average fire size (ha)		
	Lightning	Man-caused	Total	Lightning	Man-caused	Total	Lightning	Man-caused	Total
1952-1959	48	452	500	1383	2114	3497	28.8	4.7	7.0
1960-1969	74	421	495	2022	1417	3439	27.3	3.4	6.9
1970-1976	174	430	604	316	803	1119	1.8	1.9	1.9