

FOREST FIRE DANGER CHARTS

and

WEATHER RECORDS

held by the Information Centre

Forest Fire Research Institute

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Misc. Report FF-Y-3

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April 1974

INTRODUCTION

The Information Centre, Forest Fire Research Institute, has catalogued and filed a collection of fire weather records that were sent to the Fire Research Section of the Dominion Forest Service and latterly to the Institute for checking over a period of many years.

The data was gathered at forest weather stations operated by the National Parks Service, the Dominion Forest Service, Provincial Services and other agencies. The individual stations were operated for varying periods. Normally the station operated for the entire fire season but date of start and finish varied from year to year. The normal season was from April to the end of October or early November with stations in northern areas operating for shorter seasons. The listings in this report give only years for which records are available. The exact dates for any particular station of interest can be obtained by writing or phoning the Information Centre.

In the case of Danger Charts, those prior to 1946 were usually calculated on the basis of Research Note 5 using evaporation rather than Relative Humidity. Many of these also bear indices calculated on the basis of Research Note 12 tables. From 1947 to 56 the charts carry indices calculated on the basis of Research Note 12 and in many cases other experimental calculations. From 1956 on the calculations were made on the basis of the "56" tables or "condensed" which eliminated the Tracer Index used for Research Note 12 calculations. Copies of the various fire danger tables used are available on loan from the Information Centre.

While the Danger Charts record noon weather variables: temperature, relative humidity or evaporation, wind and rainfall the Weather Records contain daily observations for a weekly period. In some cases instruments were read at 8:00 am, Noon and 6:00 pm, although frequently only noontime observations were made. The factors recorded were wet-and dry-bulb temperatures, maximum and minimum temperatures, wind velocity, rainfall times and amounts and relative humidity. In some of the early records evaporation for the day was calculated at 6:00 pm in Livingstone Units.

These weather records, occupying several file cabinets, contain a wealth of weather data gathered at forest fire weather stations and are available for analysis. They cover many areas of the country and many of the records have been used extensively in the past. The material is available on loan in the raw data form or the Institute could arrange key punching of particular data if desired.

For more information, potential users should contact:

Information Centre,
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Department of the Environment,
Ottawa, Ont. K1A 0H3.

TELEPHONE: (613) 996-0814 OR TELEX: 053-3393

LOCATION	DANGER CHART	WEATHER RECORD
NEWFOUNDLAND		
30 Mile Depot, Rattling Brook	1950-52	
Whitbourne	1954	
Grand Falls	1954	
Terra Nova	1954 1959-60	1959-60
NOVA SCOTIA		
Cape Breton Highland Park		
1) Headquarters	1948-65	1948-65
2) Pleasant Bay	1948-65	1948-65
3) Cheticamp	1957-65	1957-65
NEW BRUNSWICK		
Acadia Forest Experiment Station	1937-42 1946-62	1942, 1947 1950-62
Camp Gagetown		
1) Tweedsmuir	1954-56	1954-56
2) Lauvina	1954-56	1954-56
3) Island Lake	1954-57	1954-57
4) Armstrong Corner	1954-57	1954-57
5) Brown's Flat	1958-64	1958-64
6) Boyne	1957-64	1957-64
7) Townsite	1958-64	1958-64
8) District No. 1	1957-64	1957-64
Fundy National Park	1957-64	1957-64

LOCATION	DANGER CHART	WEATHER RECORD
NEW BRUNSWICK (cont'd)		
Allardville	1938-39	1938-39
Blackville Tower	1949-51	
Blissville	1947-50	
Campbellton	1947-51	
Canaan Forks	1938-39	1938-39
Canterbury	1940-42	1939-42
Chatham	1947-51	
Chipman	1938 1940-46 1947-51	1940-46
Doaktown	1938-46 1947, 49, 51	1938-46
Doyle Hill	1948-49	
Edmunston	1941-46 1947-51	1946
Ford Mills	1939-45	1939-45
Fredericton	1938-46 1947-48	1941-46
Gowland Mountain	1938	1938-39
Grand Falls	1947	1939-46
Green River	1938-40	
Hampton	1948-51	
Indian Falls	1938-39	1938
Juniper		1940-45
Kedgewick	1938-46 1947-51	1940-42
Kedgewick Rapids	1940	1940-42
Keenan Hill	1940-46 1947-51	1939-46

LOCATION	DANGER CHART	WEATHER RECORD
NEW BRUNSWICK (cont'd)		
Laketon	1949-51	
Lord and Foy Tower	1947-51	1945-46
Londonderry	1942-46 1947-51	1942-46
Maple Hill	1949, 1951	
Mc Kendrick	1947-51	
Mc Kendrick Lake	1940	1943-45
Middle Brook	1938-42	1938-39
Moncton	1947-51	
Mt. Champlain	1947-51	1938
Mt. Harvey	1949-51	
Mt. Hope	1947-51	
Mt. Pleasant	1938-46 1947-51	1938-39 1941-46
Nelson	1938-46	
Nepisiquit Falls	1937	
Newcastle	1948, 49, 51	
Nictau	1950-51	
Nine Mile Brook	1943-46 1947, 49-51	
Plaster Rock	1938-46 1947-51	
Popple Depot	1947, 48, 50, 51	1943, 46
Riley Brook		1942-43
Robinson Tower	1938	1940-42
St. Isidore	1939-46 1947-51	1941 1943-46
St. John	1947-51	
St. Quentin	1950-51	

LOCATION	DANGER CHART	WEATHER RECORD
NEW BRUNSWICK (cont'd)		
South Nelson	1947	
Summit	1951	
Sussex	1939-46	1939-46
Tetagouche	1938	1938
Todd Mt.	1951	
Upsalsquitch	1938, 40, 43 1951	1940-41
Welesford	1940-41	1938-41
QUEBEC		
Valcartier Forest Experiment Station	1935-36 1938-39 1948-65	1939 1948-65
Tapanee Farm Depot	1957-59	1957-59
Red Pine Depot	1957	
ONTARIO		
Petawawa Forest Experiment Station	1930-49 1957-65 1967	1957-65 1967
Kenora	1948	
MANITOBA		
Riding Mtn. National Park		
1) South Gate	1939-56	1939-56
2) North Gate	1939-56	1939-56
3) Rossburn	1939-56	1939-56
4) East Gate	1939-56	1939-56
5) Deep Lake	1957-65	1957-65
6) Moon Lake	1957-65	1957-65
7) Whirlpool	1957-65	1957-65
8) Wasagaming	1957-65	1957-65

LOCATION	DANGER CHART	WEATHER RECORD
MANITOBA (cont'd)		
Whiteshell Forest Experiment Station	1948-52	
SASKATCHEWAN		
Prince Albert Park		
1) Sturgeon	1940-63	1940-63
2) Waskesiew	1940-63	1940-63
3) Meridian Gate	1940-63	1940-63
4) Kingsmere	1940-63	1940-63
Bittern Creek	1953-56	
ALBERTA		
Banff National Park		
1) Headquarters	1940-65	1940-65
2) Lake Louise	1940-65	1940-65
3) Saskatchewan River Crossing	1940-65	1940-65
4) Yaha Tinda Ranch	1940-63	1940-63
5) Tunnel Mtn. Lookout		1947
6) Beehive Lookout		1947
7) Sarback Lookout		1947
Jasper National Park		
1) Townsite	1940-65	1940-65
2) Poboktan	1940-42, 45	1940-42, 45
3) East Gate	1940-65	1940-65
4) Athabaska Falls	1958-65	1958-65
Kananaskis Forest Experiment Station	1939-64	1942-45 1951-64
Waterton Lakes	1940-65	1940-65
Whitecourt	1953-56	

LOCATION	DANGER CHART	WEATHER RECORD
BRITISH COLUMBIA		
Yoho National Park - Ottertail	1941-54 1956-65	1941-54 1956-65
100 Mile House	1957-59	1957-59
Eastern Rockies Conservation Board		
1) Baseline	1960	
2) Shunda	1960	
3) Clearwater	1960	
4) Upper Saskatchewan	1960	
5) Strachan	1960	
6) Ram Lookout	1960	
7) Highwood	1960	
8) Elbow	1960	
9) Kananaski Lookout	1960	
10) Nordegg	1960	
11) Kananaski Ranger Station	1960	
12) Ghost	1960	
13) Red Deer	1960	
14) Cline Lookout	1960	
Copper Canyon	1957-59	
NORTH WEST TERRITORIES		
Fort Smith	1951-52	1951-52
YUKON		
Dawson	1950-51 1962-63	1962-63
Mayo	1962-63	1962-63
Watson Lake	1962-63	1962-63
Whitehorse	1962-63	1962-63