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FOREST FIRE WEATHER INDEX DATA - REFERENCE MANUAL AND STATION CATALOGUE

by

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F O R E S T F I R E R E S E A R C H I N S T I T U T E

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Introduction

Research in the field of forest fire protection almost inevitably necessitates a requirement for meteorological data. While many projects utilize on-site observations taken concurrently with the experiment, there also exists a considerable requirement for historical data. More specifically, the recent publication of a new Forest Fire Weather Index has necessitated the gathering of a representative sample of data from across the country for the purpose of calibrating and testing the new index. In addition, an analysis of the use of aircraft for forest fire control was initiated by the Forest Fire Research Institute. For this project, it was decided that a six year sample of weather and fire data would be required as a base for simulating various strategies and tactics involving the use of air-tankers.

In response to these and other needs, a sample of 10 Summers of noon weather data for 364 stations across Canada has been acquired from the Canadian Meteorological Service (C.M.S.). Using this data, the Forest Fire Weather Index was calculated for the same 10-year period. Both sets of data were then placed on magnetic tape. The purpose of this report is to describe the data and list the stations for which data are available.

Station Selection

The primary objective was to acquire data for a sufficient number of stations so that no area would be more than 50 miles from the nearest station[1]. The secondary objective was to obtain a 10-year sample of data for each selected station. These objectives were met for much of the forested regions of Canada. At the present time however, there still exists numerous gaps in the more sparsely settled northern areas. In an effort to increase the density of the network in these areas, stations with as few as six years of data (but not less) were considered acceptable. As a further compromise, the weather data

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[1] See Appendix I for a detailed discussion of this objective.

was considered marginally acceptable between 50 and 100 miles from the nearest station. Figure 1 denotes the adequacy of coverage of the network of stations as a function of distance from the nearest station.

Where there was more than one station which could be selected within a 50 mile radius, the priority of selection was as follows[2]:

1. First order hourly synoptic stations for which the hourly data has been loaded on magnetic tape by the C.M.S. (1970a). A station was required to have 10 years of continuous observations between 1957 and 1966 to qualify for selection under this heading. These form the network of base stations which are discussed in detail subsequently.

2. Synoptic stations for which the hourly data was not loaded by the C.M.S.

3. Climatic (daily reporting) stations with 10 years of continuous observations between April 1 and October 31.

4. Climatic stations with 10 years of observations but missing one or more days between April 1 and October 31.

5. Climatic stations with 10 years of observations but missing one or more months between April 1 and October 31.

6. Climatic stations with one or more years missing (with a maximum of 4 missing years).

In a few cases, two or more fairly close stations were combined to form a more complete record. The combined stations were treated as one and selected according to the above priorities. In all, 403 stations were selected. Of this total, 22 stations were loaded twice (once per province). Examination of forest fire occurrence data indicated that at the present time there is little need for weather data from P.E.I., southern Saskatchewan, or southeastern Alberta. As a result, it was decided that 39 stations would not be loaded. Hence the difference between the previously referred to 364 different stations for which data is available, and the 425 station numbers in Appendix III. If this data is ever required it can easily be loaded following the same procedures as are outlined in this report.

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[2]The source for this priority of selection was a documentation of data availability provided by C.M.S., on file at the Forest Fire Research Institute.

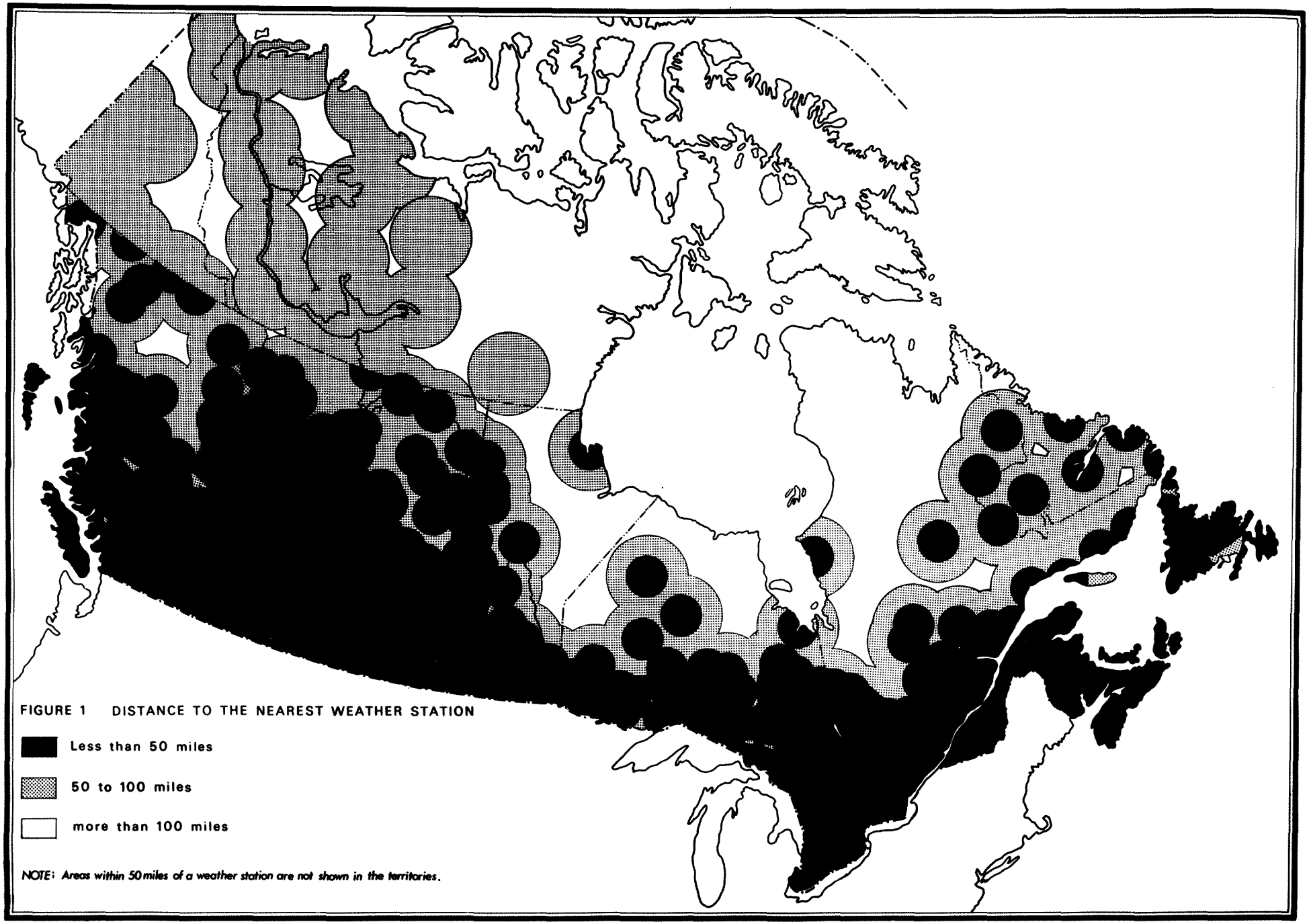


FIGURE 1 DISTANCE TO THE NEAREST WEATHER STATION
Less than 50 miles
50 to 100 miles
more than 100 miles
NOTE: Areas within 50 miles of a weather station are not shown in the territories.

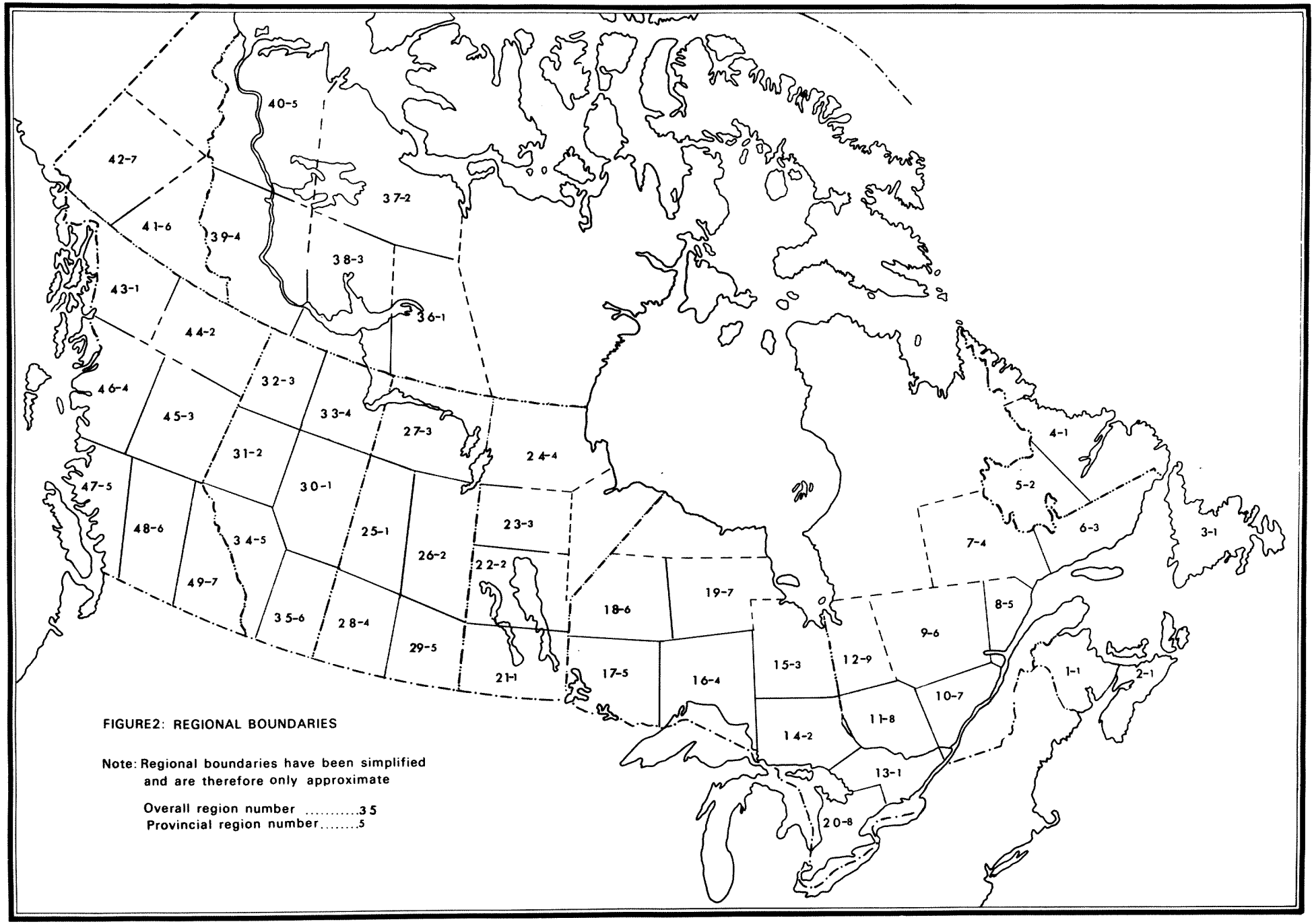


FIGURE2: REGIONAL BOUNDARIES

Note: Regional boundaries have been simplified and are therefore only approximate

Overall region number 35
Provincial region number.....5

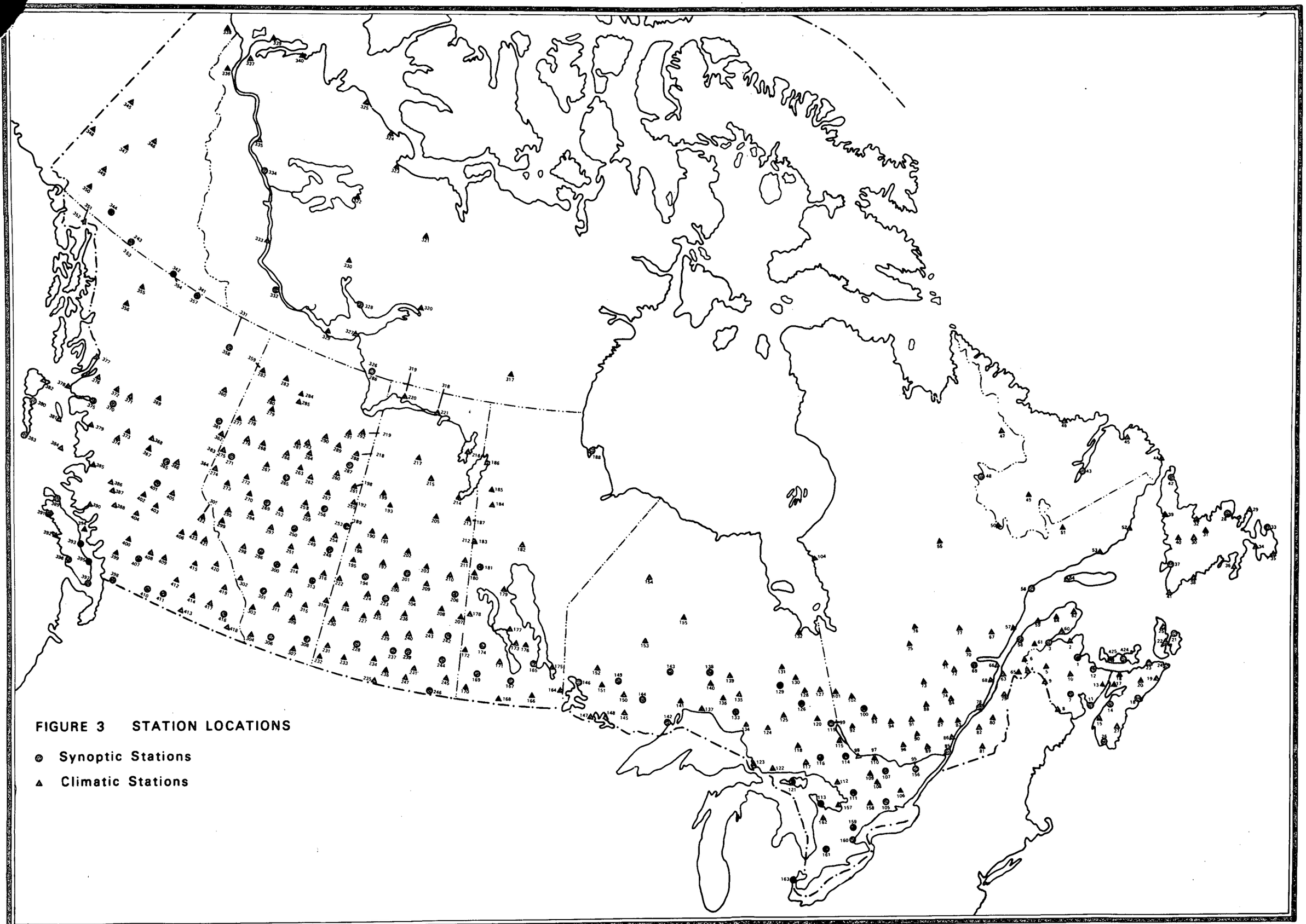


FIGURE 3 STATION LOCATIONS

- Synoptic Stations
- Climatic Stations

File Organization

Data from each province is loaded on a separate tape and forms a complete data set. Where a station close to a border is used for more than one province, the data is loaded twice so that each provincial file is complete. The only exception to this is the data for Labrador which is loaded on the Quebec tape rather than the Newfoundland tape.

Each province is divided into regions of 20,000 to 70,000 square miles or approximately 140 to 260 miles on a side. A daily average value of many of the parameters in the record is calculated for each region. The calculation involves multiplying individual station data by the percentage of the total land area in the region which is closest to the station in question. Areas more than 100 miles from the nearest stations are not included in the total area. The resultant values for each station are totalled and divided by the number of stations in the region, yielding the daily regional weighted average.

The purpose of the regional grouping of stations is to permit broad scale climatological analyses without the necessity of using ten separate tapes. The above dimensions were chosen as the limits of initial attack distance for an aircraft stationed in the center of the region. There are from one to nine regions within a province, with a total of 49 regions across Canada. The average daily regional data is loaded onto a single tape in the same format as the individual station data.

The regional boundaries are shown in Figure 2. The boundaries were selected in such a way as to minimize the number of stations which overlap boundaries. In no case do regional boundaries cross provincial borders.

Individual stations are numbered sequentially with a forestry number from 1 to 425. The numbering sequence generally proceeds from east to west across the country. Stations which are loaded twice are given a unique number for each load. The numbering is done in such a way that all stations within a region appear sequentially on the tape. Any station which overlaps a regional boundary is at the end of the sequence for the first region within which it lies. The location of each station is plotted in Figure 3. In addition, reference data for each station is summarized in Appendix III.

Data Format

The following data is available for every day at every station from April 1 through October 30 for the period 1957-1966.

COLUMN	FIELD DESCRIPTION	FORMAT
1-4	forestry number	I
5-11	7-digit C.M.S. number	I
12	blank	-
13-14	year	I
15-16	month	I
17-18	day	I
19-21	fine fuel moisture code (FFMC)	I
22-25	duff moisture code (DMC)	I
26-29	drought code (DC)	I
30-34	spread index (SI)	F5.1
35-38	adjusted duff moisture code (ADMC)	I
39-41	fire weather index (FWI)	I
42	blank	-
43	start of fire season indicator	I
44	blank	-
45	area indicator	I
46-47	noon dry bulb temperature	I
48-49	noon relative humidity	I
50-51	noon wind direction	I
52-53	noon wind speed	I
54-56	24-hour rainfall	I
57	temperature and rainfall flag	I
58-59	noon visibility	I
60-61	noon dew point	I
62	noon cloud cover	I
63-65	hourly rainfall occurrence	BINARY
66-68	hourly thunderstorm occurrence	BINARY
69-70	maximum daily temperature	I
71-72	minimum daily temperature	I
73-74	maximum daily relative humidity	I
75-76	minimum daily relative humidity	I
77	maximum and minimum flag	I
78-80	blank	-

Description of Data at Base Stations

Forestry Station No. - previously explained.

C.M.S. Station No. - the primary reason for inclusion of this number in the record was to allow for the maximum possible flexibility with respect to possible future processing. The records can readily be merged with data which is on file with the C.M.S. Also, inclusion of this number creates a cross reference check to insure that the appropriate station was loaded. A description of the C.M.S. number can be found in C.M.S. (1970b).

Year, month, day - self explanatory.

FFMC, DMC, DC, SI, ADMC, FWI - these indicies are computed using the program described by Simard (1970). In addition, a wind adjustment factor for each station (Simard, 1971) is used to adjust the wind speed before computing the indicies. Whenever missing data occurred, the following values were used to compute the indicies:

Temperature	-	70^{o}
Relative Humidity	-	50%
Wind Speed	-	5 mph
Rainfall	-	0.00 in.

Start of Fire Season Indicator -

Equals:
- 0 for a normal observation
- 1 for missing data (an artificial observation is generated)
- 2 prior to the start of the fire season (see Simard, 1970) all indicies equal zero.

Area Indicator - this is used only when a regional boundary runs through the area of influence of a station. It indicates the number of the second region within which the station lies.

Noon Dry Bulb Temperature, Relative Humidity, Wind Direction and Speed - these are obtained directly from the noon observation on C.M.S. Card Type 1 (see C.M.S. 1964 for a complete description of these observations).

The following modifications to the C.M.S. data have been made:

	ROUND OFF	CODE FOR MISSING DATA
Temperature	100 + = 99	00
R.H.	100 = 99	00
Wind Direction	--	99
Wind Speed	90 + = 90	99

24-Hour Rainfall - rainfall amounts are recorded on the C.M.S. Card Type 4 in six hour intervals (see C.M.S., 1965 for complete details). The totals for the 4 six-hour periods which come closest to noon of the previous day to noon on the day of observation are entered. Round-Off: 9.00 + = 900; Missing Data Code: 999; Trace = 000.

Noon Visibility - is taken directly from the Card Type 1 data with certain modifications:

a - up to 027 - drop the first zero and transfer as is
b - 030 to 700 - divide by 10 and add 25 (i.e. 030 = 28, etc.)
c - 15 + = 160 and treat as in b (= 41)
d - greater than 700 = 96
e - missing data code = 99.

Noon Dew Point - direct transfer from No. 1 card: missing data: 00.

Noon Cloud Cover - transfer from No. 1 card and modify:

0 - 5 = as is
6 - 7 = 6
8 - 9 = 7
10 = 8
missing data code = 9.

Hourly Rainfall and Thunderstorm Occurrence - each is a 3-column binary code with 8 bits per column. Each bit is on for occurrence and off for non-occurrence during each hour. This data is obtained by scanning each of the 24 hourly observations per day.

Maximum and Minimum Temperature and R.H. - these are obtained directly from the No. 4 card. Round-Off: 99 + = 99; Missing data code = 00.

Description of Data at Satellite Stations

Only the No. 4 card was available for the satellite stations. Therefore, all data other than rainfall and temperature are simply transferred from the base station. Data descriptions are given below for those observations for which some calculations or modifications have been made.

Noon Dry Bulb Temperature - the noon observation is subtracted from the maximum observation at the base station. This difference is then subtracted from the maximum observation at the satellite station. If either maximum is missing, the base station noon observation is transferred directly and the appropriate flag code is used.

Noon Relative Humidity - the noon dew point at the base station is transferred to the satellite station and used in conjunction with the previously calculated noon dry bulb temperature to calculate the noon R.H.

24-Hour Rainfall - in some cases, the satellite station has a code of C (rain fell during the period of record) or L (it is not known whether rain fell or not). In either case the amount is not known, but the first rainfall observation contains the total rainfall during the period. These observations are handled as follows:

Total the number of C's and number of L's during the period (L's are added only if it rained at the base station) and the day of the total (if it rained at the base station). Divide the accumulated rainfall by this total. Place the result in every day which was added to the total. Place a zero in all L's or the final day where it did not rain at the base station. If the entire period is L and there is no rain at the base station all L's become zero and the rain is left in the last day. Use appropriate flag code. If there is no data available at the satellite station, the base station rainfall is transferred directly. Lastly, some stations report total daily rainfall only. Where this is the case, the daily total is used instead of the sum of the appropriate six hour periods.

Flag No. 1 - blank = no data simulation
1 = direct transfer of noon temperature
2 = C or L or missing rainfall data at the satellite station
3 = both 1 and 2 above.

Maximum and Minimum Temperature - if this data is unavailable at the satellite station, data from the base station is transferred directly and the appropriate flag is activated.

Flag No. 2 - blank = no transfer
1 = maximum temperature transfer
2 = minimum temperature transfer
3 = both transferred

Project Organization

The project proceeded generally as follows:

Step 1 - data availability was determined and documented for each province

Step 2 - stations were selected

Step 3 - a disk work file for each station was created which joined Card 1 and Card 4 data from the base and satellite stations

Step 4 - this data was manipulated as previously described and reorganized into the preliminary output format

Step 5 - 15 to 20 stations were loaded onto a final output tape

Step 6 - the output tape(s) were joined and sorted by forestry station number

Step 7 - the six indicies were calculated for every weather observation and the weather and indicies were loaded onto the final output tapes as described in this report

Step 8 - the weighted average regional data was calculated and loaded onto one tape.

Most of the work for this project was performed outside the Forest Fire Research Institute. The author was primarily responsible for station selection (Step 2) and overall project coordination. Steps 1, 3, 4, and 5 were carried out by the Climatological Division, Canadian Meteorological Service. Steps 6, 7, and 8 were carried out by the Biometrics Research Service of the Canadian Forestry Service.

References

1. Beall, H. W. 1950. Forest Fires and the Danger Index in New Brunswick: Forestry Chronicle, Vol. 26, No. 2.

2. C.M.S. 1964. Card 1 Type - Card Format Documentation: Climatology Division, Canadian Meteorological Service, Toronto, Ontario, June 10, 1964.

3. _____ 1965. Card 4 Type - Card Format Documentation: Climatology Division, Canadian Meteorological Service, Toronto, Ontario, March 15, 1965.

4. _____ 1970a. Inventory of Hourly Weather Records on Magnetic Tape: Climatology Division, Canadian Meteorological Service, Toronto, Ontario, May 15, 1970, DS #10-70.

5. _____ 1970b. Climatological Station Data Catalogue - British Columbia, CLI 2-70; Yukon and Northwest Territories, CLI 3-70; The Prairie Provinces, CLI 4-70; Ontario, CLI 5-70; Quebec, CLI 6-70; The Atlantic Provinces, CLI 7-70; Canadian Meteorological Service, Toronto, Ontario, May 1, 1970.

6. Simard, A. J. 1970. Computer Program to Calculate the Canadian Forest Fire Weather Index: Forest Fire Research Institute, Ottawa, Internal Report FF-12.

7. _____ 1971. Calibration of Surface Wind Speed Observations in Canada: Forest Fire Research Institute, Ottawa, Information Report FF-X-30.

APPENDIX I

RELIABILITY OF METEOROLOGICAL DATA AS A FUNCTION OF THE DISTANCE FROM THE POINT OF OBSERVATION

The initial objective of acquiring data from stations no more than 100 miles apart was determined primarily by data availability, data processing costs, and the amount of work required to complete the project. Any decrease in the average distance between stations (and hence between a fire and the nearest station) requires an exponential increase in the number of stations. It is generally assumed that as distance from a station increases, reliability of the data from that station decreases. As a result, weahter station networks tend to be as dense as practical considerations allow.

There have been few attempts made at determining the effective radius of application of data from a weather station. The most significant was conducted by Beall (1950). On the basis of the percentage of fires occurring in the Nil danger class, Beall concluded that the danger index was highly reliable up to 25 miles from a station, less reliable up to 100 miles, and unreliable more than 100 miles away. To date there has been almost no additional investigation of this question and the rule of thumb of one station every 50 miles is still often applied.

It was decided that the adequacy and reliability of the station network selected for this project be tested. In general, meteorological data is used to provide estimates of:

(1) probability of fire occurrence
(2) rate of fire growth and
(3) difficulty of control.

The last parameter is generally thought to be related to long term drying of deeper fuel layers. This process tends to be reasonably uniform over fairly large areas in that the effect of many days of weather observations are averaged and much of the short term variability is smoothed out. Therefore, the effect of distance from the station on the reliability of difficulty of control estimation was not investigated.

Effect of Distance on Fire Occurrence Prediction

The first problem which must be solved is the selection of a criteria to use for determining reliability. Examination of the probability of fire occurrence per 1,000 square miles as a function of the FFMC for Ontario (Fig. I -1) discloses two points of interest:

(1) the sharp rise in occurrence probability above FFMC values of about 65 and

(2) the long tail which indicates a probability greater than zero between FFMC values of 0 and 65.

Various measurements have indicated that ignition occurs with relative ease at fuel moisture values less than 30 per cent. As the moisture content becomes greater, increasingly hotter and more persistent sources of ignition are required to start fires. At fuel moisture values greater than 50 to 60 per cent ignition rarely occurs naturally. Comparing the above generality with Figure I -1, and assuming that the FFMC accurately predicts fine fuel moisture, the following conclusions appear to be reasonable:

(1) the occurrence of a fire at an FFMC of 70 or greater is probably a valid observation,

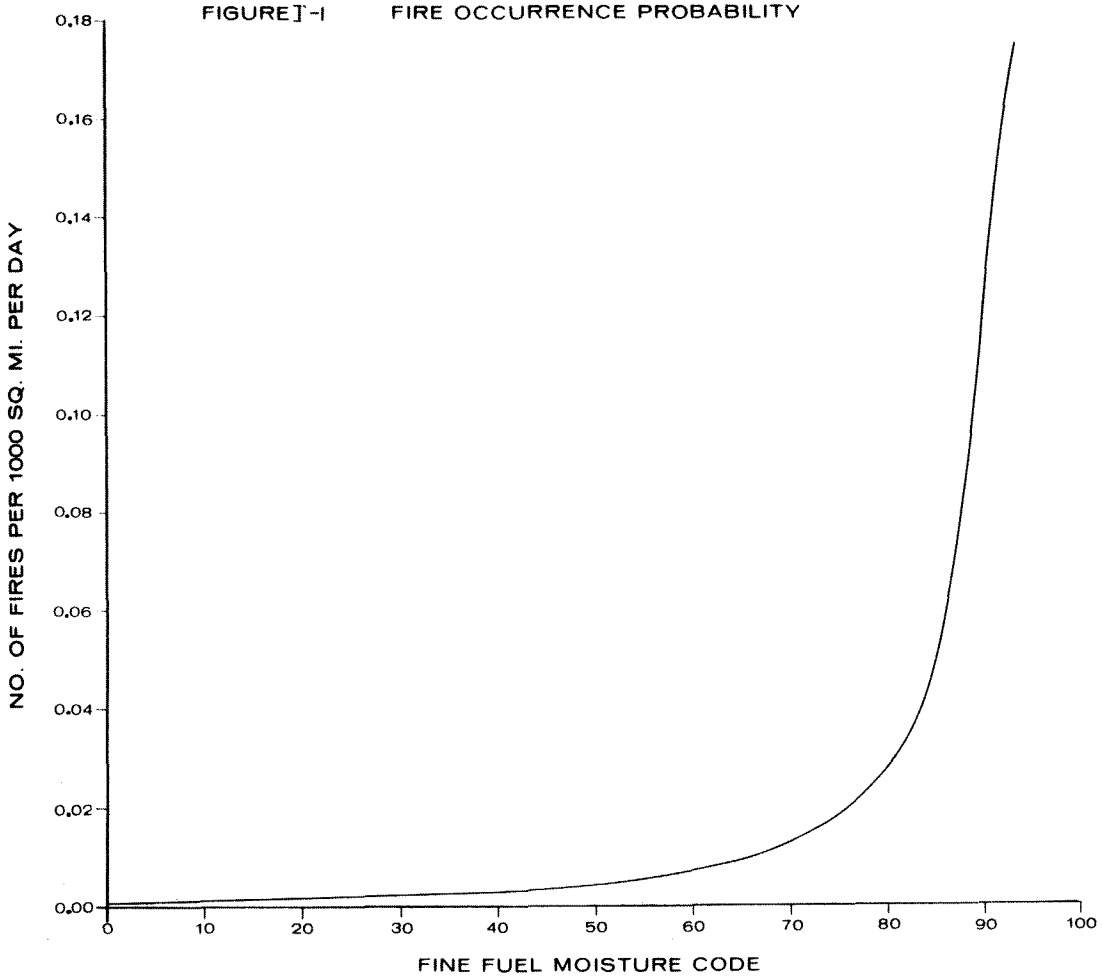
(2) the occurrence of a fire at an FFMC of 50 or less probably indicates an erroneous FFMC value with respect to the point of occurrence, and

(3) the occurrence of a fire at FFMC values between 50 and 70 may or may not be valid, depending on the source of ignition.

As a result of the above reasoning FFMC values of 65 or less were considered erroneous if a fire was detected. While selection of the actual breakoff point within the 50-70 range was somewhat arbitrary this has no effect on the conclusions drawn, as only relative changes are considered.

The percentage of erroneous observations (relative to the total number of fires) was calculated for 51 weather stations with varying radii of influence. These stations were selected from the provinces of New Brunswick, Nova Scotia, Ontario and Saskatchewan. The average per cent error for the entire area was then plotted as a function of the

FIGURE I-1 FIRE OCCURRENCE PROBABILITY



radius of influence of the station. This is shown in Figure I -2. As can be seen, the average per cent error increases with increasing radius of influence at a decreasing rate throughout the range of the data.

While on one hand, the percentage error for a station with a 40-mile radius of influence is twice as large as the per cent error for a station with a 15-mile radius of influence, the average error for the former is only 10 per cent. Therefore it máy be concluded that up to 50 miles the effect of increased distance from a weather station will not seriously affect the reliability of fire occurrence prediction.

FIGURE I-2 AVERAGE PERCENT ERROR

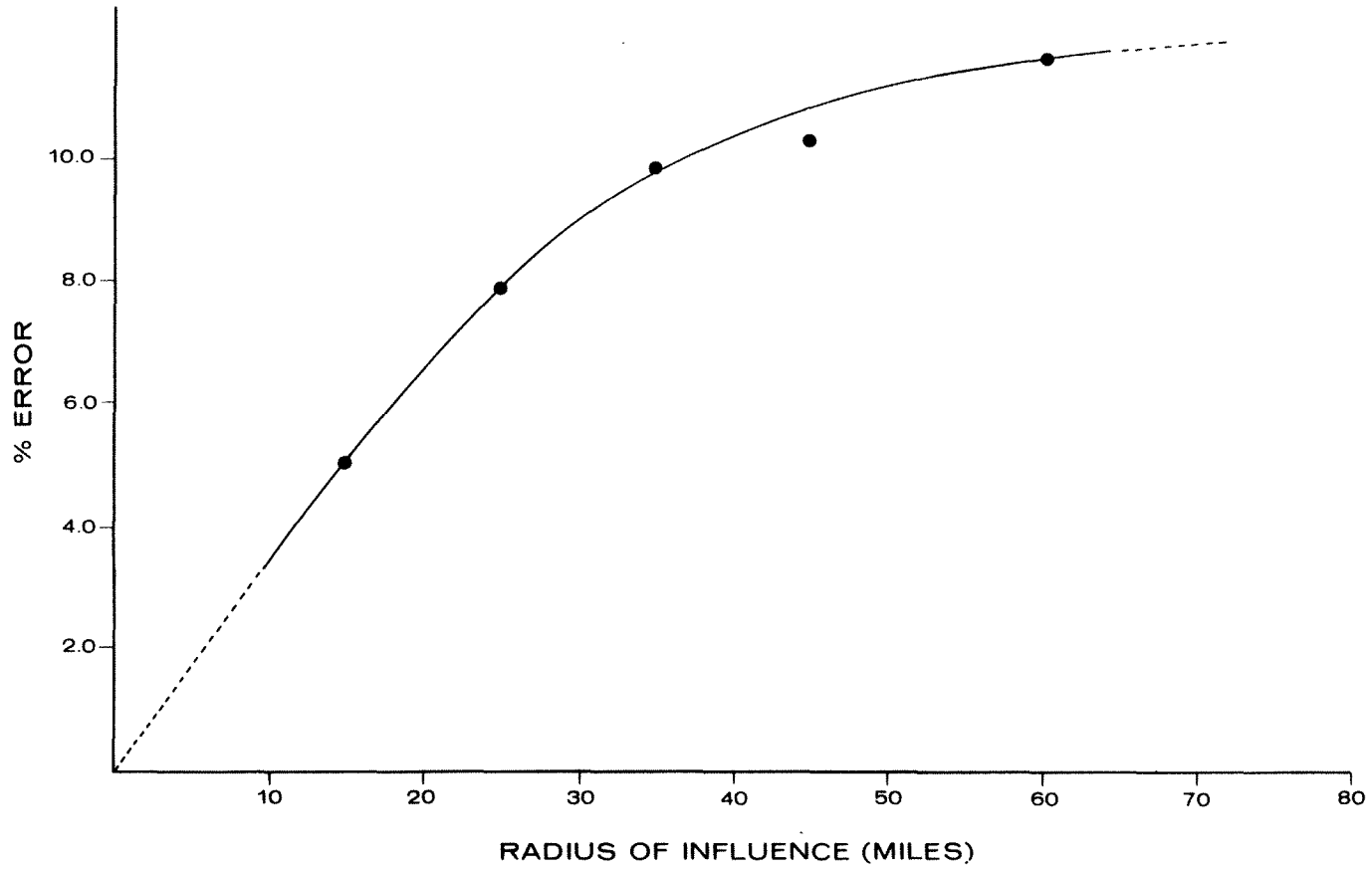
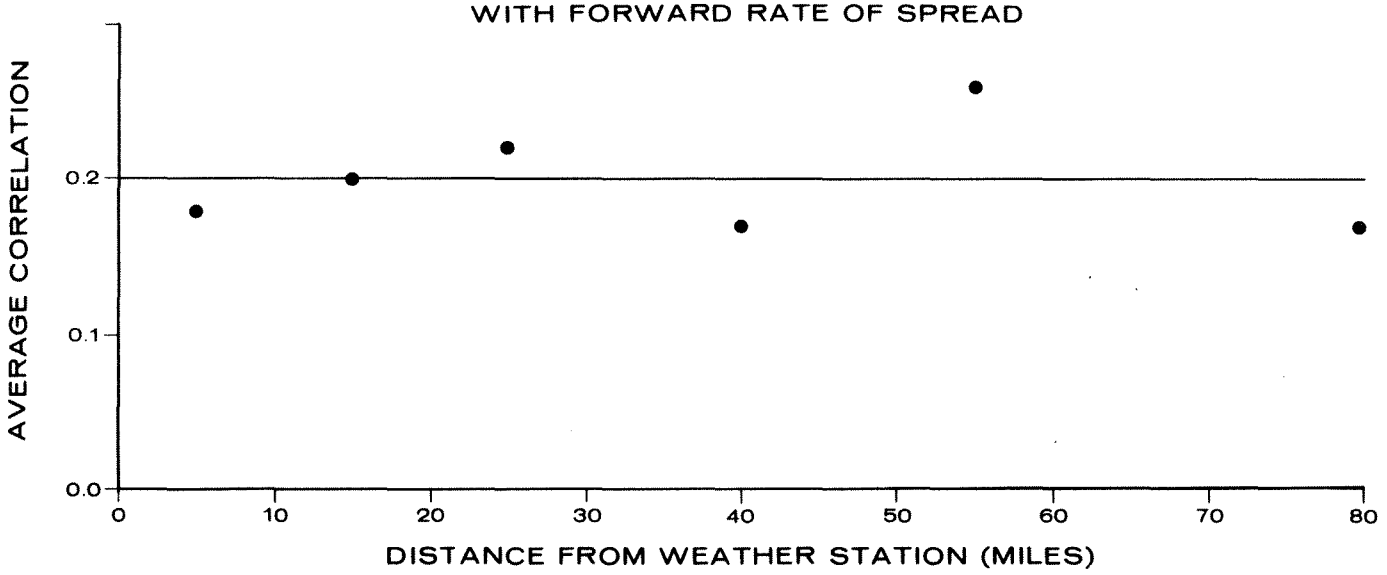


FIGURE I-3 AVERAGE CORRELATION OF WEATHER PARAMETERS WITH FORWARD RATE OF SPREAD



Effect of Distance on Rate of Spread Prediction

For this analysis data from 4,000 fires from the province of Ontario were grouped into 6 classes based on distance from the nearest weather station. Within each class the correlation between forward rate of spread and each of four parameters was calculated. The four parameters were: wind speed, the Fire Weather Index, the Spread Index and a spread index based on a very fast responding fuel moisture component. No attempt was made to stratify the individual samples by fuel type, species or any other factor. The average correlation for each class is plotted as a function of distance from the weather station (see Figure I -3). As can be seen, distance from the station appears to have no effect on the correlations. Therefore, it may be concluded that up to 75 miles, the effect of increased distance from a weather station does not noticeably affect the reliability of forward rate of spread predictions.

In interpreting these findings, it should be noted that there was no data from mountainous regions. Therefore it is possible that these findings will not be applicable in such regions. It should also be noted that significantly different climatological regions such as valley bottoms and plateaus can exist in close proximity to each other. Such regions may well require more than a single weather station regardless of how close together they may be.

In summary, with the possible exceptions discussed above, it may be concluded that a network density of one station per 100 miles is adequate for the purposes of predicting fire occurrence and forward rate of spread and that increasing the number of stations will not significantly improve the reliability of the data.

APPENDIX II

TAPE DOCUMENTATION

All tapes have the following configuration: 9 Track, Fixed Block, Logical Record Length = 80, Block Size = 8,000, 800 B.P.I., Non-labelled.

Province	Working Tape[1]	Back-up[2]	
New Brunswick	FF 1019	FF 0029	File No. 1
Nova Scotia	FF 1038	"	" 2
Newfoundland	FF 1015	"	" 3
Quebec	FF 0160	FF 0023	
Ontario	FF 0144	FF 0184	
Manitoba	FF 0031	FF 0192	File No. 1
Saskatchewan	FF 0191	"	" 2
Alberta	FO 0121	FO 0234	
Territories	FF 0199	FF 0198	
British Columbia	FF 0117	FF 0236	
Regional Averages	FO 8015[3]	FO 0140	

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[1]Stored at the Forest Fire Research Institute.

[2]Stored at Biometrics Research Services.

[3]This is a Standard Label Tape.

APPENDIX III

Station documentation

FORESTRY NO.	C.M.S. NO.	STATION NAME	BASE STATION	LONG	LAT	ELEV. (ft.)	DATA AVAILABLE FROM	DATA AVAILABLE TO	REGION OVERALL	REGION PROV.	AREA 1000's sq. mi.	AREA % of Region	WIND ADJUSTMENT FACTOR
						NEW BRUNSWICK							
1	8101000	CHATHAM	-	6527	4701	112	57	66	1	1	2.5	9.4	0.93
2	8100500	BATHURST	CHATHAM	6539	4737	40	57	66	1	1	2.0	7.6	0.89
3	8100700	CAMPBELLTON	-	6640	4800	25	57	66	1	1	1.3	4.7	1.14
4	8101301	EDMUNSTON-FRASER CO.	CAMPBELLTON	6820	4722	500	57	66	1	1	1.3	4.7	1.06
5	8104450	RILEY BROOK	CAMPBELLTON	6712	4710	550	57	66	1	1	3.3	12.3	0.99
6	8105100	SUMMIT DEPOT	CAMPBELLTON	6820	4747	1350	57	66	1	1	1.1	4.1	1.14
7	8101500	FREDERICTON	-	6632	4552	74	57	66	1	1	2.6	9.7	0.86
8	8102600	MCADAM	FREDERICTON	6720	4535	459	57	66	1	1	2.3	8.4	1.02
9	8100300	AROOSTOOK	FREDERICTON	6744	4647	315	57	66	1	1	1.9	7.2	0.86
10	8101200	DOAKTOWN	FREDERICTON	6609	4633	125	57	66	1	1	3.1	11.6	0.68
11	8104900	ST. JOHN A	-	6553	4519	352	57	66	1	1	1.7	6.3	0.83
12	8103200	MONCTON	-	6441	4607	248	57	66	1	1	2.4	9.0	0.99
13	8100200	ALMA	MONCTON	6457	4536	115	57	66	1	1	1.4	5.0	0.89
						NOVA SCOTIA							
14	8202000	GREENWOOD	-	6455	4459	82	57	66	2	1	1.9	9.7	0.83
15	8200100	ANNAPOLIS ROYAL	GREENWOOD	6533	4445	75	57	66	2	1	1.7	8.5	0.86
16	8204200	OXFORD	GREENWOOD	6352	4544	42	57	66	2	1	1.2	6.1	1.02
17	8204400	PARRSBORO	GREENWOOD	6420	4524	50	57	66	2	1	.8	3.8	0.92
18	8201300	SHEARWATER	-	6330	4438	136	57	66	2	1	1.9	9.7	0.99
19	8201700	ECUM SECUM	SHEARWATER	6209	4458	73	57	66	2	1	.9	4.7	0.97
20	8206200	UPPER STEWIACKE	SHEARWATER	6300	4513	75	57	66	2	1	2.2	11.0	0.89
21	8205700	SYDNEY	-	6003	4610	197	57	66	2	1	.6	2.9	0.79
22	8200300	BADDECK	SYDNEY	6045	4606	25	57	66	2	1	1.8	9.0	0.81
23	8201000	COLLEGEVILLE	SYDNEY	6201	4529	250	57	66	2	1	1.5	7.4	0.77
24	8206301	DEMING	SYDNEY	6111	4513	52	57	66	2	1	.7	3.4	0.81
25	8202500	INGONISH BEACH	SYDNEY	6024	4639	15	57	66	2	1	.8	4.1	0.86
26	8206500	YARMOUTH	-	6605	4350	136	57	66	2	1	1.9	9.5	1.09
27	8203100	LIVERPOOL BIG FALLS	YARMOUTH	6456	4408	150	57	66	2	1	2.0	10.2	1.09
						NEWFOUNDLAND							
28	8401700	GANDER A	-	5434	4857	482	57	66	3	1	4.2	10.5	1.00
29	8400600	BONAVISTA	GANDER A	5305	4842	82	57	66	3	1	.7	1.8	1.04
30	8401550	EXPLOITS DAM	GANDER A	5636	4846	504	57	66	3	1	3.6	9.0	0.86
31	8402050	GRAND FALLS	GANDER A	5540	4856	197	57	66	3	1	4.7	11.9	0.91
32	8403700	SPRINGDALE	GANDER A	5605	4930	35	57	66	3	1	2.4	6.1	0.91
33	8403900	ST. JOHNS TORBAY A	-	5245	4737	463	57	66	3	1	1.2	3.1	0.99
34	8400100	ARGENTIA A	ST. JOHNS TORBAY A	5400	4718	45	57	66	3	1	3.4	8.5	1.01
35	8401000	CAPE RACE	ST. JOHNS TORBAY A	5304	4639	99	57	66	3	1	1.1	2.8	1.04
36	8402000	GRAND BANK	ST. JOHNS TORBAY A	5546	4706	5	57	66	3	1	2.4	5.9	0.96

FORESTRY NO.	C.M.S. NO.	STATION NAME	BASE STATION	LONG	LAT	ELEV. (ft.)	DATA AVAILABLE FROM	DATA AVAILABLE TO	REGION OVERALL	REGION PROV.	AREA 1000's Sq. mi.	AREA % of Region	WIND ADJUSTMENT FACTOR
37	8403800	STEPHENVILLE A	-	5833	4832	44	57	66	3	1	2.7	6.8	1.45
38	8400800	BURGEO 2	STEPHENVILLE A	5737	4737	40	57	66	3	1	3.3	8.4	1.48
39	8401400	DANIELS HARBOUR	STEPHENVILLE A	5735	5014	64	57	66	3	1	3.4	8.5	1.61
40	8401500	DEER LAKE	STEPHENVILLE A	5726	4910	35	57	66	3	1	3.8	9.6	1.43
41	8402975	PORT AUX BASQUE	STEPHENVILLE A	5910	4734	24	57	66	3	1	1.0	2.4	1.55
42	8403400	ST. ANTHONY	STEPHENVILLE A	5535	5122	57	57	65	3	1	1.9	4.7	1.68
43	8501900	GOOSE A	-	6025	5319	144	57	66	4	1	8.0	36.4	1.05
44	8500398	BATTLE HARBOUR LORAN	GOOSE A	5536	5215	31	57	66	4	1	2.6	11.7	1.32
45	8501100	CARTWRIGHT	GOOSE A	5701	5343	47	57	66	4	1	3.9	17.8	1.23
46	8502400	HOPEDALE	GOOSE A	6014	5527	35	57	66	4	1	4.6	21.2	1.22
47	7113280	INDIAN HOUSE LAKE	KNOB LAKE	6444	5614	1020	57	65	4	1	2.8	12.9	0.97
48	7113520	KNOB LAKE		6649	5448	1681	57	66	5	2	4.2	13.6	0.90
49	8504050	TWIN FALLS	KNOB LAKE	6431	5330	1585	60	66	5	2	16.9	54.5	0.84
50	8504175	WABASH LAKE	KNOB LAKE	6652	5256	1807	60	66	5	2	4.9	15.7	0.82
									7	4	15.0	42.0	
			QUEBEC										
51	7043740	LAKE EON	GOOSE A	6317	5151	1840	57	66	5	2	5.0	16.2	0.97
									6	3	18.4	36.8	
52	7043000	HARRINGTON HARBOUR	SEPT ILES A	5930	5032	25	57	64	6	3	16.3	32.5	1.09
53	7045400	NATASHQUON	SEPT ILES A	6149	5012	18	57	66	6	3	9.6	19.1	1.04
54	7056200	PORT MENIER	SEPT ILES A	6421	4949	18	57	66	6	3	5.8	11.6	0.98
55	7095480	NITCHEQUON	KNOB LAKE	7054	5312	1759	57	66	7	4	2.4	6.9	0.91
56	7047960	SEPT ILES A	-	6616	5013	190	57	66	7	4	18.1	51.0	0.87
57	7040445	BAIE COMEAU CBA	SEPT ILES A	6809	4913	25	58	66	8	5	5.7	18.2	0.87
58	7055120	MONT JOLI A	-	6812	4836	150	57	66	8	5	1.8	5.7	0.92
59	7051040	CAP CHAT	MONT JOLI A	6644	4905	87	57	66	8	5	1.6	5.0	0.96
60	7051120	CAPLAN	MONT JOLI A	6539	4806	120	57	66	8	5	2.4	7.5	0.78
61	7051240	CAUSAPSCAL RES	MONT JOLI A	6710	4830	1090	57	66	8	5	2.9	9.3	0.86
62	7052600	GASPE	MONT JOLI A	6429	4850	300	57	66	8	5	1.6	5.1	1.07
63	7053880	BARRAGE LAC MORIN	MONT JOLI A	6931	4739	650	57	66	8	5	1.8	5.6	0.86
64	7055380	MURDOCKVILLE	MONT JOLI A	6531	4857	1885	57	66	8	5	2.4	7.7	0.99
65	7057720	STE ROSE DU DEGELIS	MONT JOLI A	6839	4733	495	57	66	8	5	1.4	4.3	0.78
66	7048320	TADOUSSAC	BAGOTVILLE A	6943	4808	150	57	66	8	5	2.4	7.5	0.87
67	7043540	LABRIEVILLE	BAGOTVILLE A	6935	4919	501	57	66	8	5	7.6	24.1	0.85
68	7047770	ST. URBAIN	BAGOTVILLE A	7031	4735	565	57	66	9	6	1.8	2.7	0.97
69	7060400	BAGOTVILLE A	-	7100	4820	536	57	66	9	6	4.0	6.1	0.87
70	7063920	LAC ONATCHIWAY	BAGOTVILLE A	7104	4859	1050	57	62	9	6	3.8	5.7	0.82
71	7065640	NORMANDIN CDA	BAGOTVILLE A	7232	4851	450	57	66	9	6	4.6	7.0	0.80
72	7066685	ROBERVAL A	BAGOTVILLE A	7216	4831	590	57	66	9	6	2.2	3.3	0.80
73	7072760	BARRAGE GOUIN	BAGOTVILLE A	7406	4821	1325	57	66	9	6	7.5	11.4	0.77
74	7076360	RAPID BLANC	BAGOTVILLE A	7258	4748	800	57	66	9	6	2.7	4.1	0.82
75	7091400	CHIBOUGAMAU	BAGOTVILLE A	7418	4954	1240	60	66	9	6	12.3	18.7	0.90
76	7095000	MISTASSINI POST	BAGOTVILLE A	7353	5025	1246	57	66	9	6	15.1	23.0	0.94
77	7061541	CHUTE DES PASSES	BAGOTVILLE A	7115	4954	1310	60	66	9	6	11.8	18.0	0.85
78	7016294	QUEBEC A	-	7123	4648	245	57	66	10	7	3.8	12.2	0.82
79	7057600	ST. PAMPHILE	QUEBEC A	6947	4658	1295	57	66	10	7	1.5	4.6	0.82

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80	7020560	BEAUCEVILLE	QUEBEC A	7047	4613	590	57	66	10	7	2.8	8.9	0.85
81	7024280	LENNOXVILLE	QUEBEC A	7150	4522	498	57	66	10	7	3.9	12.2	0.87
82	7028720	VICTORIAVILLE	QUEBEC A	7157	4604	485	57	66	10	7	2.9	9.0	0.85
83	7018000	SHAWINIGAN FALLS	QUEBEC A	7243	4634	306	57	66	10	7	2.2	7.0	0.80
84	7074240	LA TUQUE	QUEBEC A	7248	4727	551	57	66	10	7	3.2	10.0	0.77
85	7025250	MONTREAL INT A	-	7345	4528	98	57	66	10	7	3.5	11.0	1.01
86	7010720	BERTHIERVILLE	MONT.INT A	7311	4602	40	57	66	10	7	2.3	7.1	0.98
87	7074720	BARRAGE MATTAWIN	MONT. INT A	7339	4651	1200	57	66	10	7	2.8	8.9	0.93
88	7073760	BARRAGE A LAC KEMPT	MONT. INT A	7411	4733	1380	57	66	10	7	2.9	9.1	0.86
89	7033160	HUBERDEAU	MONT. INT A	7438	4558	700	57	66	11	8	2.9	7.4	0.97
90	7033440	LAC KIAMIKA	MONT. INT A	7507	4637	930	57	66	11	8	2.7	6.8	0.93
91	7035040	BARRAGE MITCHINAMECUS	MONT. INT A	7510	4713	1280	57	66	11	8	4.0	10.3	0.86
92	7080600	BELLETERRE	VAL D'OR	7841	4724	1055	57	66	11	8	4.1	10.4	1.09
93	7083720	LAC DOZOIS	VAL D'OR	7718	4738	1150	57	66	11	8	4.6	11.9	1.01
94	7080920	BARRAGE CABONGA	VAL D'OR	7628	4719	1200	57	66	11	8	5.2	13.2	0.97
95	6105900	OTTAWA	-	7540	4519	413	57	66	11	8	1.4	3.5	1.03
96	7034480	MANIWAKI	OTTAWA	7559	4622	559	57	66	11	8	4.2	10.8	0.98
97	6102009	DES JOACHIMS	KILLALOE	7742	4611	425	57	66	11	8	3.1	7.8	1.03
98	6084278	LA CAVE	NORTH BAY	7844	4622	565	57	66	11	8	1.2	3.2	0.97
99	6072225	EARLTON	-	7951	4742	805	57	66	11	8	1.2	3.2	1.17
100	7098600	VAL D'OR	-	7747	4803	1108	57	66	11	8	5.0	11.4	1.05
									12	9	1.8	10.2	
101	7094120	LA SARRE	VAL D'OR	7914	4849	875	57	66	12	9	6.9	39.0	1.14
102	7084560	MANNEVILLE	VAL D'OR	7826	4833	1021	57	66	12	9	7.3	41.2	1.12
104	7092480	FT. GEORGE	VAL D'OR	7900	5350	22	57	66	12	9	1.7	9.6	1.47
				ONTARIO									
105	6158050	STIRLING	-	7738	4419	455	57	66	13	1	2.7	12.0	1.26
106	6100720	BELLROCK	STIRLING	7646	4429	480	57	66	13	1	3.2	14.6	1.26
107	6104125	KILLALOE	-	7725	4534	571	57	66	13	1	2.9	13.3	1.09
108	6160465	BANCROFT	KILLALOE	7751	4503	1072	58	66	13	1	2.4	11.0	1.09
109	6080189	ALGONQUIN PARK	KILLALOE	7833	4535	1419	57	66	13	1	3.0	13.6	1.07
110	6102009	DES JOACHIMS	KILLALOE	7742	4611	425	57	66	13	1	1.1	5.2	1.07
111	6115525	MUSKOKA	-	7918	4458	926	57	66	13	1	2.7	12.1	1.18
112	6116254	PARRY SOUND	MUSKOKA	8000	4520	635	57	66	13	1	2.6	11.7	1.26
113	6119500	WIARTON A	-	8106	4445	720	57	66	13	1	-	-	1.00
114	6085700	NORTH BAY	-	7925	4622	1210	57	66	13	1	1.4	6.5	1.01
									14	2	1.3	3.4	
115	6075379	MONTREAL RIVER	NORTH BAY	7929	4707	600	57	66	14	2	1.8	4.4	1.01
116	6068150	SUDBURY A	-	8048	4637	1121	57	66	14	2	4.2	10.2	0.76
117	6068980	TURBINE	SUDBURY A	8134	4623	675	57	66	14	2	4.3	10.5	0.79
118	6060773	BISCOTASING	SUDBURY A	8207	4717	1333	57	63	14	2	6.1	15.2	0.81
119	6072225	EARLTON	-	7951	4742	805	57	66	14	2	1.8	4.4	1.17
120	6073750	INDIAN CHUTE	EARLTON	8027	4751	960	57	66	14	2	3.6	8.8	1.21
121	6092925	GORE BAY	-	8234	4553	624	57	66	14	2	1.1	2.8	1.11
122	6056907	RAYNOR	GORE BAY	8330	4620	800	57	66	14	2	2.9	7.3	1.16

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123	6057590	SAULT STE MARIE	GORE BAY	8420	4632	695	57	66	14	2	2.3	5.6	1.16
124	6061359	CHAPLEAU	WHITE RIVER	8326	4750	1416	57	66	14	2	5.6	13.9	1.68
125	6062425	FOLEYET	TIMMINS	8226	4815	1078	57	66	14	2	3.6	9.0	1.06
126	6078285	TIMMINS	-	8122	4834	965	57	66	14	2	1.8	4.5	1.03
									15	3	0.9	2.6	
127	6074620	LOWBUSH	TIMMINS	8007	4855	887	58	66	15	3	4.4	12.2	0.99
128	6071712	COCHRANE	TIMMINS	8102	4904	902	57	66	15	3	2.6	7.2	1.01
129	6073975	KAPUSKASING	-	8228	4925	752	57	66	15	3	2.5	6.8	1.08
130	6073840	ISLAND FALLS	KAPUSKASING	8122	4935	715	57	66	15	3	4.5	12.3	1.07
131	6077845	SMOKY FALLS	KAPUSKASING	8210	5004	600	57	66	15	3	9.7	26.7	1.07
132	6075425	MOOSONEE	KAPUSKASING	8039	5116	34	57	66	15	3	11.6	32.2	1.15
133	6059475	WHITE RIVER	-	8517	4836	1243	57	66	16	4	3.0	6.1	1.47
134	6053450	WAWA	WHITE RIVER	8445	4804	1410	57	66	16	4	4.2	8.5	1.61
135	6053570	HORNEPAYNE	WHITE RIVER	8448	4914	1080	57	66	16	4	4.9	9.8	1.43
136	6044903	MANITOUWADGE	WHITE RIVER	8548	4909	1090	57	66	16	4	2.5	5.0	1.39
137	6040081	AGUASABON	WHITE RIVER	8710	4847	625	57	66	16	4	2.3	4.7	1.38
138	6045550	NAKINA	-	8642	5011	1065	57	66	16	4	7.7	15.5	1.04
139	6076200	PAGWA	NAKINA	8516	5002	620	57	64	16	4	10.3	20.6	1.09
140	6044560	LONGLAC P & P	NAKINA	8632	4946	1124	57	66	16	4	2.8	5.6	1.05
141	6041109	CAMERON FALLS	FORT WILLIAM	8823	4909	750	57	66	16	4	4.3	8.7	0.91
142	6042500	FORT WILLIAM	-	8919	4822	644	57	66	16	4	1.6	3.2	0.96
									17	5	2.7	6.1	
143	6040325	ARMSTRONG	-	8854	5017	1065	57	66	16	4	6.1	12.3	0.89
									17	5	2.3	5.3	
144	6042975	GRAHAM	-	9035	4916	1651	57	66	17	5	5.6	12.8	0.88
145	6020381	ATIKOKAN	GRAHAM	9138	4844	1284	57	66	17	5	3.5	8.0	0.92
146	6034075	KENORA	-	9422	4948	1345	57	66	17	5	5.2	11.9	0.97
147	6022475	FORT FRANCIS	KENORA	9327	4837	1126	57	66	17	5	2.7	6.3	1.04
148	6025203	MINE CENTER	KENORA	9232	4844	1201	57	66	17	5	2.2	4.9	1.01
149	6037775	SIOUX LOOKOUT	-	9154	5007	1227	57	66	17	5	5.0	11.4	0.92
150	6033690	IGNACE	SIOUX LOOKOUT	9140	4925	1487	57	66	17	5	2.9	6.7	0.94
151	6032117	DRYDEN	SIOUX LOOKOUT	9251	4946	1220	57	66	17	5	3.4	7.7	0.92
152	6012198	EAR FALLS	SIOUX LOOKOUT	9313	5038	1184	57	66	17	5	6.0	13.8	0.90
									18	6	6.8	25.3	
153	6016525	PICKLE LAKE	ARMSTRONG	9012	5127	1210	57	66	17	5	2.2	5.1	0.90
									18	6	13.7	50.8	
154	6018950	TROUT LAKE	ARMSTRONG	8952	5350	720	57	66	18	6	6.5	23.9	1.10
									19	7	5.7	27.5	
155	6014350	LANSDOWNE HOUSE	ARMSTRONG	8753	5214	840	57	66	19	7	15.1	72.5	1.03
156	6105900	OTTAWA INT. A	-	7540	4519	413	57	66	20	8	4.7	17.3	1.03
157	6111793	COLLINGWOOD	MUSKOKA	8013	4429	600	57	66	20	8	2.3	8.4	1.26
158	6164430	LINDSAY	STIRLING	7845	4421	875	57	66	20	8	2.9	10.8	1.26
159	6158737	TORONTO INT. A	-	7938	4341	578	57	66	20	8	2.2	8.0	0.95
160	6153300	HAMILTON	TORONTO INT. A	7953	4317	335	57	66	20	8	3.3	12.1	0.97
161	6144475	LONDON	-	8109	4302	912	57	66	20	8	5.4	19.6	0.98
162	6129235	WALKERTON	LONDON	8109	4408	800	57	66	20	8	4.0	14.7	0.98
163	6139525	WINDSOR	-	8258	4216	637	57	66	20	8	2.5	9.1	0.95

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					MANITOBA								
164	5031320	INDIAN BAY	KENORA	9512	4937	1072	57	66	21	1	2.4	5.6	1.00
165	5031040	GIMLI A	-	9703	5038	725	57	66	21	1	2.5	5.8	0.75
166	5072780	STEINBACH	GIMLI A	9641	4931	880	57	66	21	1	5.7	13.4	0.80
167	5012320	PORTAGE LA PRAIRIE	-	9816	4954	867	57	66	21	1	3.6	8.2	0.85
168	5022125	PILOT MOUND PO	PORTAGE LA PRAIRIE	9853	4912	1557	57	66	21	1	3.8	8.7	0.89
169	5012440	RIVERS	-	10019	5001	1553	57	66	21	1	4.1	9.5	0.75
170	5010180	BEDE	RIVERS	10056	4922	1450	57	66	21	1	2.8	6.5	0.78
171	5042240	PLUMAS	RIVERS	9905	5023	928	57	66	21	1	3.1	7.0	0.73
172	5012520	RUSSEL	DAUPHIN	10116	5047	1837	57	66	21	1	3.1	7.0	0.82
173	5041800	MOOSE HORN	DAUPHIN	9837	5118	826	57	66	21	1	1.5	3.4	0.78
174	5040680	DAUPHIN A	-	10003	5106	999	57	66	21	1	2.9	6.8	0.79
									22	2	1.2	4.6	
175	5031200	GREAT FALLS	GIMLI	9600	5028	816	57	66	21	1	5.3	12.3	0.74
									22	2	0.7	2.7	
176	5031300	HODGSON	GIMLI	9735	5112	758	60	66	21	1	2.5	5.8	0.73
									22	2	3.6	13.5	
177	5041229	GYPSUMVILLE	DAUPHIN	9844	5140	875	60	66	22	2	4.4	16.6	0.76
178	5042800	SWAN RIVER	DAUPHIN	10116	5206	1115	57	66	22	2	5.5	20.7	0.72
179	5031111	GRAND RAPIDS	THE PAS A	9917	5309	730	60	66	22	2	6.8	25.3	0.86
180	5052060	PASQUA PROJECT	THE PAS A	10130	5343	856	57	66	22	2	2.8	10.5	0.82
181	5052880	THE PAS A	-	10106	5358	894	57	66	22	2	1.6	6.1	0.84
									23	3	2.2	6.2	
182	5063040	WABOWDEN	THE PAS A	9838	5455	764	57	66	23	3	20.5	56.9	0.91
183	5050920	FLIN FLON	THE PAS A	10151	5446	1098	57	66	23	3	4.8	13.2	0.85
184	5061540	LAURIE R. POWERSITE	THE PAS A	10059	5614	1000	60	66	23	3	8.5	23.7	0.90
185	5061640	LYNN LAKE	THE PAS A	10102	5651	1115	57	66	24	4	8.0	20.4	0.91
186	5060520	BROCHET	THE PAS A	10140	5753	1150	57	66	24	4	12.0	30.6	0.92
187	4063560	ISLAND FALLS (SASK.)	THE PAS A	10221	5532	982	57	66	24	4	-	-	0.85
188	5060600	CHURCHILL	-	9404	5845	115	57	66	24	4	19.2	49.0	0.89
					SASKATCHEWAN								
189	3081680	COLD LAKE (ALTA)	-	11017	5425	1784	57	66	25	1	1.6	3.5	0.71
190	4062240	DORINTOSH	COLD LAKE	10837	5420	1650	57	66	25	1	3.2	7.2	0.72
191	4063020	GREEN LAKE	COLD LAKE	10748	5417	1485	57	66	25	1	3.9	8.8	0.72
192	3037600	WINNIFRED	COLD LAKE	11112	4954	2725	57	66	25	1	1.6	3.6	0.71
193	4063420	ILE A LA CROSSE	COLD LAKE	10752	5527	1380	57	66	25	1	7.0	15.8	0.72
194	4045600	NORTH BATTLEFORD A	-	10815	5296	1796	57	66	25	1	3.4	7.6	0.85
195	4048520	WASECA	N. BATTLEFORD A	10924	5308	2125	57	66	25	1	2.5	5.6	0.83
196	4047080	ST. WALBURG	N. BATTLEFORD A	10913	5338	2101	57	66	25	1	2.9	6.6	0.80
197	4067720	SPIRITWOOD	N. BATTLEFORD A	10731	5322	1933	57	66	25	1	3.7	8.3	0.81
198	3061930	COWPAR LO (A)	FORT McMURRAY(A)	11023	5550	1848	57	66	25	1	1.3	2.9	1.14
199	4060980	BUFFALO NARROWS	FORT NcMURRAY(A)	10829	5552	1382	57	66	25	1	5.7	13.0	1.15
200	4056920	ROSTHERN	PRINCE ALBERT A	10620	5240	1672	57	66	25	1	2.7	6.1	0.78

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201	4056240	PRINCE ALBERT A	-	10541	5313	1414	57	66	25	1	1.6	3.6	0.72
									26	2	1.1	2.2	
202	4058560	WAKESIU LAKE	PRINCE ALBERT A	10605	5355	1746	58	66	25	1	3.3	7.4	0.71
									26	2	2.5	4.9	
203	4077600	SNOWDEN	PRINCE ALBERT A	10441	5332	1468	57	66	26	2	4.0	7.7	0.70
204	4013400	HUMBOLDT	PRINCE ALBERT A	10507	5212	1865	57	66	26	2	3.7	7.1	0.80
205	4067740	STANLEY	PRINCE ALBERT A	10432	5525	1150	57	66	26	2	9.2	17.8	0.73
206	4083320	HUDSON BAY	-	10224	5252	1219	57	66	26	2	3.2	6.1	0.93
207	4080260	ARRAN	HUDSON BAY	10144	5158	1475	57	66	26	2	1.9	3.7	0.96
208	4084440	LINTLAW	HUDSON BAY	10316	5205	2003	57	66	26	2	4.3	8.3	1.00
209	4076790	RIDGEDALE	HUDSON BAY	10415	5303	1355	57	66	26	2	3.4	6.6	0.93
210	4077560	SMOKY BURN	HUDSON BAY	10308	5320	1186	57	66	26	2	3.1	6.0	0.94
211	4071960	CUMBERLAND HOUSE	THE PAS (MAN.)	10218	5358	890	57	66	26	2	3.8	7.4	0.82
212	5050920	FLIN FLON (MAN.)	THE PAS (MAN.)	10151	5446	1098	57	66	26	2	1.9	3.6	0.85
213	4063560	ISLAND FALLS	THE PAS (MAN.)	10221	5532	982	57	66	26	2	3.7	7.0	0.85
214	4068840	WHITESAND	THE PAS (MAN.)	10315	5620	1175	57	66	26	2	3.2	6.2	0.85
									27	3	2.7	4.5	
215	4062660	FOSTER LAKE	FORT McMURRAY	10521	5648	1686	57	66	26	2	2.8	5.4	1.19
									27	3	5.6	9.3	
216	4069020	WOLLASTON LAKE	THE PAS	10310	5803	1300	57	66	27	3	11.1	18.5	0.90
217	4061860	CREE LAKE	FORT McMURRAY	10640	5723	1570	57	66	27	3	11.8	19.7	1.19
218	3064740	MUSKEG LO (ALTA)	FORT McMURRAY	11054	5708	2140	59	66	27	3	2.5	4.2	1.13
219	3065492	RICHARDSON LO (ALTA)	FORT McMURRAY	11058	5755	1000	60	66	27	3	3.7	6.1	1.10
220	4068340	URANIUM CITY	FORT SMITH (NWT)	10829	5934	1024	57	66	27	3	8.7	14.5	0.99
221	4067795	STONEY RAPIDS	FORT SMITH (NWT)	10546	5916	700	60	66	27	3	13.9	23.2	1.04
222*	4044800	MACKLIN	NORTH BATTLEFORD	10956	5220	2167	57	66	28	4	2.4	5.6	0.94
223*	4057120	SASKATOON	-	10641	5210	1645	57	66	28	4	2.6	6.2	
224*	4040600	BIGGAR	SASKATOON	10759	5204	2187	57	66	28	4	3.1	7.4	
225*	4055720	OUTLOOK	SASKATOON	10703	5129	1774	57	66	28	4	1.9	4.5	
226*	4043888	KINDERSLEY	SASKATOON	10909	5128	2233	57	66	28	4	3.3	7.8	
227*	4023360	HUGHTON	SASKATOON	10755	5114	2010	57	66	28	4	3.6	8.5	
228*	4028040	SWIFT CURRENT	-	10741	5017	2677	57	66	28	4	4.2	10.0	
229*	4018160	TUGASKE	SWIFT CURRENT	10618	5053	1986	57	66	28	4	3.4	8.1	
230*	4024160	LEADER	SWIFT CURRENT	10933	5053	2202	57	66	28	4	3.1	7.3	
231*	4024936	MAPLE CREEK	SWIFT CURRENT	10928	5000	2507	57	66	28	4	2.8	6.8	
232*	4035120	MERRY FLAT	SWIFT CURRENT	10946	4928	3400	57	66	28	4	2.3	5.4	
233*	4027480	SHAUNAVON	SWIFT CURRENT	10824	4939	3010	57	66	28	4	4.1	9.7	
234*	4022960	GRAVELBOURG	SWIFT CURRENT	10633	4952	2297	57	66	28	4	3.3	7.9	
235*	4038740	WEST POPLAR RIVER	SWIFT CURRENT	10621	4900	2800	57	66	28	4	2.0	4.8	
236*	4018640	WATROUS	SASKATOON	10528	5140	1775	57	66	29	5	2.6	7.0	
237*	4015320	MOOSE JAW	-	10533	5020	1857	57	66	29	5	2.1	5.6	
238*	4026480	READLYN	MOOSE JAW	10539	4935	2219	57	66	29	5	2.3	6.2	
239*	4016560	REGINA	-	10440	5026	1884	57	66	29	5	2.9	7.6	
240*	4017800	STRASBOURG	REGINA	10457	5104	1797	57	66	29	5	3.0	8.1	
241*	4019040	YELLOW-GRASS	REGINA	10410	4948	1899	57	66	29	5	2.9	7.6	
242*	4019080	YORKTON	-	10228	5116	1653	57	66	29	5	3.5	9.6	
243*	4013660	KELLIHER	YORKTON	10344	5115	2219	57	66	29	5	3.7	10.1	
244*	4010880	BROADVIEW	-	10232	5015	2033	57	66	29	5	5.1	13.8	

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245*	4011160	CARLYLE	BROADVIEW	10216	4938	2077	57	66	29	5	4.3	11.6	
246*	4012400	ESTEVAN	-	10300	4904	1884	57	66	29	5	2.2	6.0	
247*	4011440	CEYLON	ESTEVAN	10436	4928	2339	57	66	29	5	2.5	6.8	
				ALBERTA									
248	3016800	VERMILLION A	-	11050	5321	2037	57	66	30	1	3.0	6.3	0.84
249	3016761	VEGREVILLE CDA	VERMILLION A	11202	5329	2086	57	66	30	1	3.8	7.9	0.83
250	3012210	EDMONTON NAMAO A	-	11328	5340	2293	57	66	30	1	2.6	5.5	0.65
251	3017280	WETASKIWIN	EDM. NAMAO A	11320	5228	2500	57	66	30	1	3.2	6.7	0.67
252	3061200	CAMPSIE	EDM. NAMAO A	11441	5408	2200	57	66	30	1	2.5	5.3	0.62
253	3081680	COLD LAKE A	-	11017	5425	1784	57	66	30	1	2.4	5.0	0.71
254	3012280	ELK POINT	COLD LAKE A	11054	5353	1920	57	66	30	1	2.5	5.2	0.72
255	3067590	WINEFRED	COLD LAKE A	11012	5520	2440	57	66	30	1	2.0	4.2	0.71
256	3063685	LAC LABICHE A	-	11201	5446	1835	58	66	30	1	2.9	6.1	0.96
257	3065560	ROUND HILL LO	LAC LABICHE A	11159	5518	2460	57	66	30	1	3.3	6.8	0.96
258	3060321	ATHABASCA 2	LAC LABICHE A	11332	5449	1900	57	66	30	1	3.0	6.3	0.98
259	3014800	NEWBROOK	LAC LABICHE A	11257	5419	2204	57	66	30	1	2.2	4.6	0.99
260	3060110	ALGAR LO	FORT McMURRAY	11147	5607	2560	59	66	30	1	3.6	7.3	1.09
261	3061930	COWPAR LO	FORT McMURRAY	11023	5550	1848	57	66	30	1	2.3	4.8	1.14
262	3065160	PELICAN MTN. LO	WAGNER	11334	5537	3000	57	66	30	1	2.8	5.9	0.90
263	3072100	DOUCETTE LO	WAGNER	11418	5549	2000	57	66	30	1	1.5	3.1	0.91
264	3076365	TEEPEE LO	WAGNER	11407	5628	2116	60	66	30	1	2.6	5.4	0.89
265	3066920	WAGNER	-	11459	5521	1915	57	66	30	1	1.7	3.6	0.91
									31	2	2.0	5.0	
266	3077420	WHITE FISH LO	WAGNER	11528	5611	2000	58	66	31	2	3.1	7.8	0.91
267	3063160	HIGH PRAIRIE	WAGNER	11630	5526	1968	57	66	31	2	4.1	10.1	0.96
268	3075040	PEACE RIVER A	WAGNER	11726	5614	1866	57	66	31	2	3.8	9.6	0.96
269	3067370	WHITECOURT	-	11540	5408	2430	57	66	31	2	2.8	7.1	0.91
270	3065000	PASS CREEK LO	WHITECOURT	11650	5414	3725	57	66	31	2	3.3	8.2	0.94
271	3072920	GRANDE PRAIRIE A	-	11853	5511	2190	57	66	31	2	2.5	6.4	0.88
272	3076040	SNUFF MTN. LO	GR. PRAIRIE A	11732	5441	3180	57	66	31	2	3.1	7.6	0.85
273	3075940	SIMONETTE LO	GR. PRAIRIE A	11825	5414	4180	57	66	31	2	3.9	9.9	0.83
274	3074880	NOSE MTN. LO	GR. PRAIRIE A	11935	5433	5165	57	66	31	2	2.7	6.7	0.81
275	3072840	GOODFARE CDA EPF	GR. PRAIRIE A	11946	5516	2500	57	66	31	2	2.1	5.2	0.86
276	3072520	FAIRVIEW	GR. PRAIRIE A	11823	5604	2160	57	66	31	2	3.4	8.6	0.84
277	3071660	CLEAR HILLS LO	FT. ST. JOHN(BC)	11925	5636	3060	57	66	31	2	2.0	5.0	0.79
									32	3	1.2	3.6	
278	3074900	NOTIKEWIN LO	FT. ST. JOHN(BC)	11835	5652	2500	57	66	31	2	1.1	2.8	0.75
									32	3	2.3	6.2	
279	3070540	BATTLE RIVER LO	FT. ST. JOHN(BC)	11739	5729	2400	57	66	32	3	3.5	9.5	0.66
280	3073640	KEG RIVER	FT. ST. JOHN "	11752	5747	1402	57	66	32	3	3.6	9.6	0.63
281	3075491	RED EARTH LO	WAGNER	11507	5640	2000	59	66	32	3	3.5	9.5	0.86
282	3078000	ZAMA LO	FORT NELSON (B.C.)	11910	5835	2000	61	66	32	3	7.5	20.1	1.07
283	3077250	WATT MTN. LO	FORT NELSON (B.C.)	11734	5839	2300	57	66	32	3	9.0	23.9	1.12
284	3072720	FORT VERMILLION CDA	FT. SMITH (NWT)	11603	5823	915	57	66	32	3	4.1	11.1	0.80
									33	4	5.3	11.6	

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285	3070970	BUFFALO LO	FT. SMITH (NWT)	11613	5757	2600	58	66	32	3	3.4	9.1	0.80
									33	4	1.6	3.8	
286	2202200	FT. SMITH A (NWT)	-	11158	6001	665	57	66	33	4	11.8	26.2	0.92
287	3062693	FORT MCMURRAY A	-	11113	5639	1213	57	66	33	4	2.6	5.7	1.10
288	3064740	MUSKEG LO	FT. MCMURRAY A	11054	5708	2140	59	66	33	4	2.7	6.0	1.10
289	3062300	ELLS LO	FT. MCMURRAY A	11220	5711	2000	61	66	33	4	2.4	5.4	1.10
290	3075790	SEAFORTH LO	FT. MCMURRAY A	11321	5714	2700	61	66	33	4	4.9	10.8	1.06
291	3060700	BIRCH MTN. LO	FT. MCMURRAY A	11151	5743	2000	60	66	33	4	5.7	12.7	1.09
292	3065492	RICHARDSON LO	FT. MCMURRAY A	11058	5758	1000	60	66	33	4	5.9	13.0	1.10
293	3076566	TROUT MTN. LO	WAGNER	11425	5648	2500	60	66	33	4	2.2	4.8	0.85
294	3062241	EDSON	WHITECOURT	11625	5335	3033	57	66	34	5	3.2	8.2	1.10
295	3062440	ENTRANCE	WHITECOURT	11742	5322	3300	57	66	34	5	2.8	7.1	1.10
296	3015520	ROCKY MTN. HOUSE	-	11455	5223	3330	57	66	34	5	3.7	9.3	1.27
297	3064640	MOON LAKE	ROCKY MTN. HOUSE	11459	5328	2500	57	66	34	5	3.4	8.5	1.19
298	3054845	NORDEGG RS	ROCKY MTN. HOUSE	11605	5229	4350	58	66	34	5	5.5	13.9	1.19
299	3053520	JASPER	ROCKY MTN. HOUSE	11804	5253	3480	57	66	34	5	3.3	8.4	1.15
300	3025168	PENHOLD A	-	11354	5211	2965	57	66	34	5	3.4	8.5	0.77
301	3031080	CALGARY A	-	11401	5106	3540	57	66	34	5	3.5	8.9	0.80
302	3050520	BANFF	CALGARY A	11534	5111	4583	57	66	34	5	3.9	9.8	1.22
303	3055120	PEKISKO	CALGARY A	11425	5022	4721	57	66	34	5	3.0	7.5	1.31
304	3035201	PINCHER CREEK	LETHBRIDGE	11357	4930	3790	60	66	34	5	3.1	7.9	0.78
305	1172070	CRANBERRY LK. VALEMONT	QUESNEL B.C.	11915	5249	2600	57	66	34	5	.8	2.0	1.34
306*	3033880	LETHBRIDGE	-	11248	4938	3018	57	66	35	6	4.5	11.6	0.88
307*	3032640	FOREMOST	LETHBRIDGE	11127	4929	2900	57	66	35	6	4.2	11.0	0.87
308*	3034480	MEDICINE HAT	-	11043	5001	2365	57	66	35	6	4.6	11.9	
309*	3030856	BROOKS	MEDICINE HAT	11151	5033	2487	57	66	35	6	4.5	11.5	
310*	3025920	SIBBALD	MEDICINE HAT	11013	5128	2350	57	66	35	6	3.8	9.9	
311*	3032800	GLEICHEN	CALGARY A	11304	5052	2952	57	66	35	6	3.1	8.0	0.89
312*	3022120	DRUMHELLER	CALGARY A	11243	5128	2255	57	66	35	6	2.9	7.4	0.86
313*	3011880	CORONATION	-	11127	5206	2618	57	66	35	6	2.2	5.8	
314*	3016120	STETTLER	CORONATION	11242	5219	2699	57	66	35	6	3.1	7.9	
315*	3023000	HANNA	CORONATION	11155	5138	2680	57	66	35	6	2.4	6.2	
316*	3013360	HUGHENDEN	CORONATION	11058	5231	2277	57	66	35	6	3.4	8.8	
			NORTHWEST TERRITORIES AND YUKON										
317	2301100	ENNADAI	CHURCHILL	10055	6108	1065	57	66	36	1	6.7	12.7	0.79
318	4067795	STONEY RAPIDS (SASK.)	FORT SMITH	10546	5916	700	60	66	36	1	4.7	8.8	1.06
319	4068340	URANIUM CITY (SASK.)	FORT SMITH	10829	5934	1024	57	66	36	1	6.6	12.5	0.98
320	2201900	FORT RELIANCE	YELLOWKNIFE A	10906	6243	539	57	66	36	1	25.2	47.5	0.88
321	2200850	CONTWOYTO LAKE	YELLOWKNIFE A	11022	6529	1481	57	66	36	1	9.8	18.5	0.86
									37	2	20.2	27.7	
322	2203300	PORT RADIUM	YELLOWKNIFE A	11802	6605	628	57	66	37	2	18.2	24.9	0.77
323	2200900	COPPERMINE	CAMBRIDGE BAY	11505	6749	28	57	66	37	2	7.4	10.2	0.70
324	2200690	CAPE YOUNG	CAMBRIDGE BAY	11655	6856	55	57	66	37	2	15.7	21.6	0.71
325	2200750	CLINTON POINT	CAMBRIDGE BAY	12045	6935	330	57	66	37	2	11.4	15.6	0.71
326	2202200	FORT SMITH A	-	11158	6001	665	57	66	38	3	7.5	11.6	0.93

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327	2202000	FORT RESOLUTION A	FORT SMITH A	11341	6110	549	57	66	38	3	7.6	11.9	0.97
328	2204100	YELLOWKNIFE A	-	11427	6228	682	57	66	38	3	13.3	20.7	0.81
329	2202400	HAY RIVER A	YELLOWKNIFE A	11546	6051	529	57	66	38	3	12.6	19.6	0.73
330	2203700	SNARE RAPIDS	YELLOWKNIFE A	11600	6330	694	57	66	38	3	23.2	36.2	0.79
331	1192940	FORT NELSON A B.C.	-	12235	5850	1230	57	66	39	4	5.0	7.3	0.99
332	2202101	FORT SIMPSON A	-	12114	6145	576	63	66	39	4	26.4	38.8	1.08
333	2204000	WRIGLEY A	FT. SIMPSON A	12325	6312	511	57	66	39	4	26.1	38.3	1.09
334	2202800	NORMAN WELLS A	-	12648	6517	209	57	66	39	4	10.6	15.6	0.80
									40	5	11.4	16.1	
335	2201400	FORT GOOD HOPE	NORMAN WELLS A	12839	6615	251	57	66	40	5	22.1	31.2	0.79
336	2201600	FORT MCPHERSON	NORMAN WELLS A	13457	6726	100	57	66	40	5	8.9	12.5	0.68
337	2202570	INUVIK A	NORMAN WELLS A	13329	6818	200	57	66	40	5	11.3	16.0	0.76
338	2100950	SHINGLE POINT (YK)	NORMAN WELLS A	13713	6857	174	57	66	40	5	1.1	1.5	0.76
339	2203910	TUCKTOYAKTUK	NORMAN WELLS A	13300	6927	60	57	66	40	5	5.0	7.0	0.81
340	2202750	NICHOLSON PENINSULA	NORMAN WELLS A	12858	6954	320	57	66	40	5	11.1	15.7	0.85
341	1197530	SMITH RIVER A (B.C.)	-	12626	5954	2208	57	66	41	6	6.4	23.2	0.75
342	2101200	WATSON LAKE A	-	12849	6007	2248	57	66	41	6	11.7	42.6	0.58
343	2101100	TESLIN A	-	13245	6010	2300	57	66	41	6	9.4	34.2	0.95
344	2101300	WHITE HORSE A	-	13504	6043	2289	57	66	42	7	12.1	14.6	0.81
345	2100400	DAWSON	WHITEHORSE A	13926	6404	1062	57	66	42	7	15.9	19.3	0.50
346	2100700	MAYO A	WHITEHORSE A	13553	6336	1625	57	66	42	7	20.1	24.2	0.50
347	2100600	FORT SELKIRK	WHITEHORSE A	13722	6249	1435	57	66	42	7	8.1	9.8	0.50
348	2101000	SNAG A	WHITEHORSE A	14024	6222	1925	57	66	42	7	8.3	10.0	0.60
349	2100100	AISHIHIK A	WHITEHORSE A	13729	6139	3170	57	66	42	7	7.9	9.5	0.72
350	2100630	HAINES JUNCTION	WHITEHORSE A	13735	6045	1965	57	66	42	7	9.5	11.4	0.85
351	1203315	HAINES APPS NO. 2(BC)	WHITEHORSE A	13628	5931	1310	57	66	42	7	1.0	1.2	0.97
			BRITISH COLUMBIA										
352	1203315	HAINES APPS NO.2	WHITEHORSE A	13628	5931	1310	57	66	43	1	5.3	11.9	0.95
353	2101100	TESLIN A	-	13245	6010	2300	57	66	43	1	8.1	18.3	1.03
354	2101200	WATSON LAKE A	-	12849	6007	2248	57	66	43	1	2.3	5.2	0.57
355	1191440	CASSIAR	WATSON LAKE A	12951	5917	3535	57	66	43	1	8.9	20.0	0.68
356	1192340	DEASE LAKE	WATSON LAKE A	13000	5825	2678	57	66	43	1	19.8	44.6	0.82
357	1197530	SMITH RIVER	-	12626	5954	2208	57	66	44	2	11.5	27.1	0.80
358	1192940	FORT NELSON	-	12235	5850	1230	57	66	44	2	19.5	46.0	0.97
359	3078000	ZAMA LO	FORT NELSON	11910	5835	2000	61	66	44	2	3.6	8.6	1.03
360	1180750	BEATTON RIVER	FORT NELSON	12123	5723	2755	57	66	44	2	7.8	18.3	1.27
									45	3	5.2	9.9	
361	1183000	FORT ST. JOHN	-	12044	5614	2275	57	66	45	3	7.9	15.1	0.77
362	1182280	DAWSON CREEK	FORT ST. JOHN	12013	5545	2200	57	63	45	3	2.9	5.5	0.78
363	3072840	GOODFARE CDA(ALTA)	" ST. JOHN	11946	5516	2500	57	66	45	3	1.5	2.9	0.79
364	3074880	NOSE MTN. LO (ALTA)	FORT ST. JOHN	11935	5433	5165	57	66	45	3	2.8	5.4	0.77
365	1096450	PRINCE GEORGE	-	12241	5353	2218	57	66	45	3	3.0	5.8	0.80
366	1090300	ALEZA LAKE	PRINCE GEORGE	12204	5406	2050	57	66	45	3	7.0	13.5	0.82
367	1092685	ENGEN CDA EDF	PRINCE GEORGE	12413	5402	2316	57	66	45	3	4.2	8.0	0.78
368	1092970	FORT ST. JAMES	PRINCE GEORGE	12415	5427	2280	57	66	45	3	6.1	11.7	0.79

FORESTRY NO.	C.M.S. NO.	STATION NAME	BASE STATION	LONG	LAT	ELEV. (Ft.)	DATA AVAILABLE FROM	DATA AVAILABLE TO	REGION OVERALL	REGION PROV.	AREA 1000's Sq. mi.	AREA % OF REGION	WIND ADJUSTMENT FACTOR
369	1183090	GERMANSON LANDING	SMITHERS	12442	5547	2450	57	66	45	3	11.7	22.2	1.27
									46	4	4.9	9.2	
370	1077500	SMITHERS	-	12711	5449	1718	57	66	46	4	2.9	5.5	1.36
371	1070570	BABINE LAKE	SMITHERS	12637	5519	2360	57	66	46	4	5.3	9.9	1.31
372	1075520	NEW HAZELTON	SMITHERS	12736	5514	1030	57	66	46	4	4.6	8.5	1.38
373	1091170	BURNS LAKE	SMITHERS	12548	5415	2320	57	66	46	4	3.2	6.0	1.31
374	1088970	WISTARIA	SMITHERS	12610	5349	2865	57	66	46	4	5.0	9.3	1.32
375	1068130	TERRACE	-	12835	5428	719	57	66	46	4	3.8	7.1	1.04
376	1070150	AIYANSH	TERRACE	12901	5514	750	57	66	46	4	3.4	6.5	1.09
377	1067740	STEWART	TERRACE	12959	5577	15	57	66	46	4	10.5	19.6	1.14
378	1066481	PRINCE RUPERT	TERRACE	13026	5418	110	61	66	46	4	1.0	1.8	1.23
379	1064020	KEMANO	TERRACE	12756	5334	236	57	66	46	4	5.2	9.8	0.98
380	1057050	SANDSPIT	-	13149	5315	25	57	66	46	4	1.3	2.4	1.04
381	1062745	ETHELDA BAY	SANDSPIT	12941	5303	0	57	66	46	4	.4	.8	0.91
382	1054920	MASSETT	SANDSPIT	13208	5402	10	57	66	46	4	1.7	3.1	1.07
383	1051350	CAPE ST. JAMES	-	13101	5156	292	57	66	46	4	.3	.5	0.63
384	1065010	McINNIS ISLAND	CAPE ST. JAMES	12843	5216	75	57	66	47	5	.07	.2	0.53
385	1060840	BELLA COOLA	TERRACE	12636	5223	60	57	66	47	5	6.1	14.9	0.82
386	1080430	ANAHIM LAKE	QUESNEL	12520	5221	3600	57	66	47	5	4.6	11.3	1.07
387	1084350	KLEENA KLEENE	QUESNEL	12456	5159	2950	57	66	47	5	2.6	6.4	1.04
388	1088010	TATLAYOKO LAKE	QUESNEL	12423	5139	2780	57	66	47	5	3.3	8.2	1.05
389	1026270	PORT HARDY	-	12722	5041	74	57	66	47	5	.8	2.0	0.88
390	1064375	KNIGHT INLET	PORT HARDY	12535	5106	30	62	66	47	5	5.1	12.4	0.88
391	1037650	SPRING ISLAND	-	12725	5000	37	57	66	47	5	1.3	3.1	0.94
392	1032730	ESTEVAN POINT	SPRING ISLAND	12632	4923	20	57	66	47	5	1.4	3.6	0.99
393	1021830	COMOX	-	12454	4943	75	57	66	47	5	1.7	4.3	0.94
394	1021950	CORTES ISLAND	COMOX	12503	5006	20	57	66	47	5	.07	.2	0.82
395	1025370	NANAIMO	-	12352	4903	104	57	66	47	5	1.6	3.9	1.16
396	1035940	PACHEMA POINT	NANAIMO	12506	4843	150	57	66	47	5	1.7	4.2	1.36
397	1018610	VICTORIA GONZALES HTS	-	12319	4825	228	57	66	47	5	.9	2.1	0.76
398	1100030	ABBOTSFORD	-	12222	4901	198	57	66	47	5	3.0	7.5	1.05
399	1040390	ALTA LAKE	ABBOTSFORD	12259	5007	2127	57	66	47	5	4.2	10.5	0.95
400	1080930	BRALORNE	LYTTON	12249	5047	3330	57	63	47	5	2.1	5.2	0.84
									48	6	2.5	5.1	
401	1096630	QUESNEL A	-	12231	5302	1787	57	63	48	6	3.0	6.2	1.06
402	1080289	ALEXIS CREEK TAUTRI CR	QUESNEL A	12311	5233	4000	61	66	48	6	4.4	9.0	1.04
403	1095820	150 MILE HOUSE	QUESNEL A	12156	5207	2420	57	63	48	6	4.7	9.6	1.06
404	1080870	BIG CREEK	QUESNEL A	12302	5144	3720	57	66	48	6	3.5	7.1	1.02
405	1090660	BARKERVILLE	QUESNEL A	12131	5304	4180	57	66	48	6	5.4	11.1	1.14
406	1163450	HEMP CREEK CLEARWATER	QUESNEL A	12004	5155	2100	57	63	48	6	5.1	10.3	1.20
407	1144740	LYTTON	-	12134	5014	574	57	66	48	6	3.6	7.3	0.80
408	1160540	ASHCROFT	LYTTON	12120	5043	1600	57	66	48	6	3.3	6.7	0.86
409	1163780	KAMLOOPS	LYTTON	12025	5043	1133	57	66	48	6	4.2	8.5	0.92
410	1126510	PRINCETON	-	12031	4928	2283	57	66	48	6	4.0	8.1	1.42

FORESTRY NO.	C.M.S. NO.	STATION NAME	BASE STATION	LONG	LAT	ELEV. (ft.)	DATA AVAILABLE FROM	DATA AVAILABLE TO	REGION OVERALL	REGION PROV.	AREA 1000's Sq. mi.	AREA % OF REGION	WIND ADJUSTMENT FACTOR
411	1126150	PENTICTON	-	11936	4928	1121	57	66	48	6	3.1	6.3	0.71
412	1128580	VERNON COLD-STREAM RANCH	PENTICTON	11912	5014	1582	57	66	48	6	2.3	4.7	0.73
									49	7	1.9	4.6	
413	1145730	OLD GLORY MOUNTAIN	PENTICTON	11755	4909	7700	57	66	49	7	3.0	7.1	0.79
414	1142820	FAUQUIER	PENTICTON	11804	4952	1600	57	66	49	7	3.1	7.4	0.78
415	1176750	REVELSTOKE	PENTICTON	11812	5100	1497	57	66	49	7	5.2	12.2	0.80
416	1154200	KIMBERLEY	-	11547	4944	3016	57	66	49	7	4.2	9.9	1.05
417	1143900	KASLO	KIMBERLEY	11655	4955	1930	57	66	49	7	3.7	8.9	0.95
418	1152670	ELKO	KIMBERLEY	11506	4918	3080	57	66	49	7	2.7	6.5	1.11
419	1154405	KOOTENAY N.P.	KIMBERLEY	11601	5039	3570	57	66	49	7	4.0	9.5	0.99
420	1173210	GOLDEN	KIMBERLEY	11658	5118	2583	57	66	49	7	4.0	9.4	0.95
421	1175122	MICA CREEK	KIMBERLEY	11834	5201	1860	61	66	49	7	3.7	8.7	0.96
422	1172070	CRANBERRY LAKE VALEMOUNT	QUESNEL A	11915	5250	2600	57	66	49	7	4.7	11.1	1.33
423	1160900	BLUE RIVER	QUESNEL A	11917	5209	2243	57	66	49	7	2.0	4.7	1.28
				PRINCE EDWARD ISLAND									
424*	8300300	CHARLOTTETOWN A	-	6308	4617	186	57	66	2	1	1.5	-	
425*	8300700	SUMMERSIDE A	-	6350	4626	78	57	66	2	1	1.0	-	

* THESE STATIONS WERE NOT LOADED ONTO TAPE

REGIONAL SUMMARY

REGION NO.	NO. OF STATIONS	AREA 1000's sq. mi.	REGION NO.	NO. OF STATIONS	AREA 1000's sq. mi.
1	13	26.9	26	15	51.8
2	14	19.9	27	8	60.0
3	15	39.8	28	14	42.1
4	5	21.9	29	12	37.1
5	4	33.8	30	18	47.9
6	4	50.1	31	14	39.9
7	3	35.5	32	8	36.9
8	11	31.6	33	10	45.1
9	10	65.8	34	12	39.6
10	11	31.8	35	11	38.7
11	12	39.6	36	5	53.0
12	4	17.7	37	5	72.9
13	9	22.0	38	5	64.2
14	13	40.4	39	4	68.1
15	7	36.2	40	7	70.9
16	11	49.7	41	3	27.5
17	12	43.7	42	8	82.9
18	3	27.0	43	5	44.4
19	2	20.8	44	4	42.4
20	8	27.3	45	10	52.3
21	13	43.3	46	15	53.5
22	8	26.6	47	17	40.54
23	4	36.0	48	13	49.1
24	3	39.2	49	12	42.2
25	14	44.4			