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A SUMMARY OF **CLIMATIC REGIMES** OF BRITISH COLUMBIA



Province of
British Columbia

Ministry of
Environment



Province of British Columbia
Ministry of Environment
ASSESSMENT AND PLANNING DIVISION

A Summary of Climatic Regimes of British Columbia

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ABSTRACT

With this publication an attempt is made to provide the general public with both an overview of the climate of the province of British Columbia and a background from which more detailed climatological information can be evaluated.

The great diversity of climates in the Province is illustrated and the affect on climate of regional physiography, distance from the Pacific Ocean and physical climatological processes are described.

Several long-term Atmospheric Environment Service climatological stations, which together characterize the full spectrum of regional climates, are considered for this publication. The data from these stations were extracted from various publications produced by Environment Canada¹ and are presented in both graphical and tabular form.

Station descriptions are provided for all stations considered in this publication and a small section on conversions is included for those not accustomed to the SI metric system.

¹ Canadian Normals 1941-70, Vols. 1-SI, 2-SI; Climatic Normals Vol. 3, 1968; Frost Data 1941-70; Temperature and Precipitation 1941-70 British Columbia. All published by Atmospheric Environment Service, Environment Canada.

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PART ONE

THE CLIMATIC REGIMES OF BRITISH COLUMBIA

THE CLIMATIC REGIMES OF BRITISH COLUMBIA

The climate of British Columbia is controlled to a great extent by the north-south orientation of mountain chains and the position of the Province immediately east of the Pacific Ocean. Most often, moist eastward flowing air from the Pacific is forced over these mountain barriers and results in relatively heavy falls of precipitation on west facing slopes and considerably drier conditions on east facing slopes. This is particularly true during the winter months when large amounts of rain and snow are precipitated with the frequent passage of Pacific storms.

In winter, the Province is affected occasionally by much colder, drier air from northern arctic climes. When this occurs, periods of very cold and dry weather persist until the return of milder Pacific air.

During the summer, a weakening in the west to east upper air flow (the mechanism which drives the weather systems) in combination with the development of a persistent high pressure area off the coast results in fewer frontal systems moving through British Columbia. As a result, summers tend to be dry throughout most of the Province.

THE COAST MOUNTAINS AND THE ISLANDS

This region is generally an area of heavy precipitation. Apart from a wet regime, mild winters and relatively cool summers are the rule. Associated with the mild, moist regime is a low number of hours of sunshine and long periods free of freezing temperatures. Tofino and Prince Rupert are indicative of the climate of this region. The graph of Prince Rupert and the tables presented for Tofino, Sandspit, Port Hardy, Bella Coola and Prince Rupert illustrate the very high annual precipitation, most of which falls during the autumn and winter months.

The higher elevation mountainous regions are generally cooler with high amounts of precipitation. In winter this often results in extremely heavy snowpacks.

The climate leeward of the mountainous portions of Vancouver Island (represented by data from Comox Airport, Victoria and Vancouver climatic stations; see graph and tables) has a less pronounced maritime influence. This more protected region has considerably less precipitation, greatly increased quantity of sunshine, and greater summer to winter temperature differences than windward locations. Despite the protection afforded by the mountains of Vancouver Island, frontal systems still bring an appreciable quantity of precipitation to these regions and increased amounts of precipitation in the autumn and winter months.

THE INTERIOR PLATEAU

The Coast Mountains are an effective barrier to the moist westerly air flow. To the east of this mountain chain, on the Interior Plateau, there exists a much drier and more continental climate.

The diurnal and seasonal differences in temperature are much greater than coastal localities. Summers tend to be warm and dry; winters cooler, but less moist.

Kamloops and Summerland (tables; graph of Summerland) are indicative of the climatic regime which occurs in the valleys of the southern interior of British Columbia. In the north, the climate is wetter and cooler, particularly during the winter months.

Temperature and precipitation data from Williams Lake Airport and Prince George Airport (tables; graph of Prince George) illustrate the cooler, moister regime in the north-central portions of the Interior Plateau. At the eastern edge of the plateau the tendency is for Pacific air to be forced over topographic barriers such as the Quesnel and Shuswap Highlands. The result is an increase in precipitation and cooler temperatures. The Interior Plateau region has precipitation amounts which are evenly distributed throughout the year.

THE COLUMBIA MOUNTAINS AND SOUTHERN ROCKIES

This physiographic region is in the east and southeast portion of the Province and has marked contrasts in climate. The valley bottom localities are semi-arid with warm summers and cold winters, as illustrated by climatic data from Grand Forks and Cranbrook Airport (see tabular data).

Upslope, and on the windward slopes of the Monashees, Selkirks, Purcells and Rocky Mountains, much higher precipitation and cooler temperatures are evident (see Revelstoke tabular data). All but the dry, narrow valleys of the region experience a precipitation maximum during the winter months.

THE NORTHERN AND CENTRAL PLATEAU AND MOUNTAINS

This interior region is in the northern half of the province and has much colder winters and cooler summers. The winters are generally colder and drier the further north one travels. This is due to the frequent influxes of continental arctic air and the less frequent occurrence of moist Pacific air. Summers are short and quite cool, though the long days

partially compensate for these cool conditions. Precipitation, though fairly light, is distributed evenly throughout the year. Once again, the wettest regions are on the west facing windward slopes of mountain ranges like the Skeena, Omineca and Rocky Mountains.

THE GREAT PLAINS

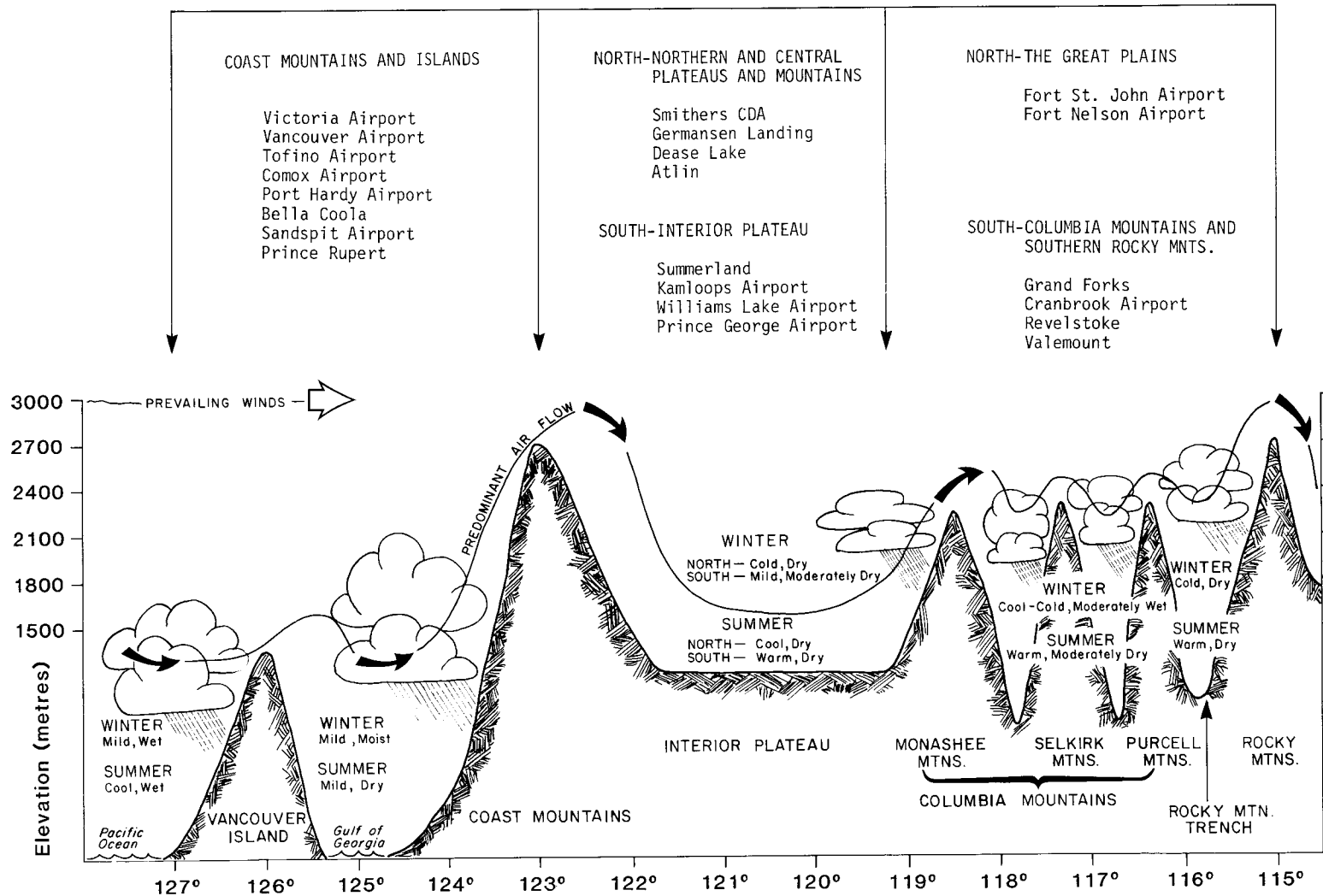
To the east of the Rocky Mountains, in the northeastern portion of British Columbia, lies an extension of the Great Plains so evident in the provinces of Alberta, Saskatchewan and Manitoba. The existence of many topographic barriers between this region and the Pacific Ocean has resulted in a continental climate.

The Great Plains is an area which experiences long cold winters and short warm summers. The relatively high number of sunshine hours, the wide range in diurnal and seasonal temperatures and a precipitation maximum during the summer months are indicative of the climatological continentality of this region (see table and graph of Fort St. John).

PART TWO

**LATITUDINAL CROSS-SECTION OF
SOUTHERN BRITISH COLUMBIA
ILLUSTRATING
THE PHYSIOGRAPHIC DIVERSITY
AND ASSOCIATED CLIMATIC REGIMES**

PHYSIOGRAPHIC REGIONS



LATITUDINAL CROSS-SECTION OF SOUTHERN BRITISH COLUMBIA ILLUSTRATING THE PHYSIOGRAPHIC DIVERSITY AND ASSOCIATED CLIMATIC REGIMES

PART THREE

REPRESENTATIVE CLIMATOLOGICAL STATIONS WITHIN THE PHYSIOGRAPHIC REGIONS OF BRITISH COLUMBIA

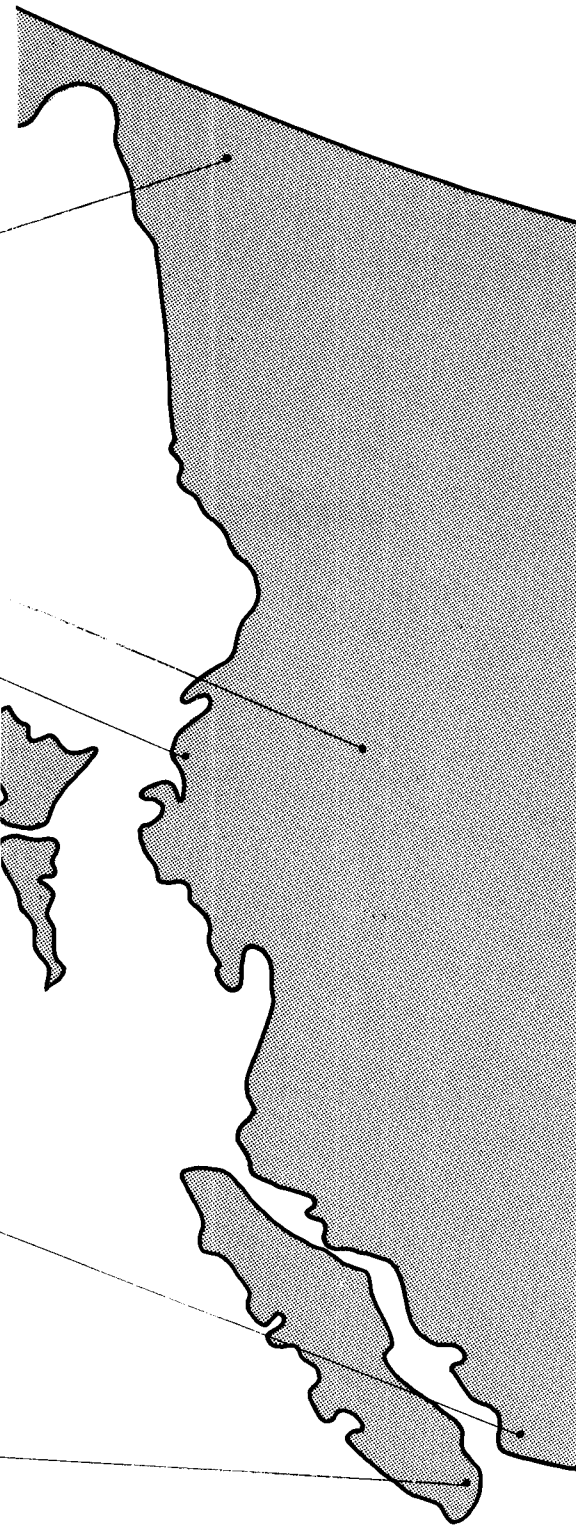
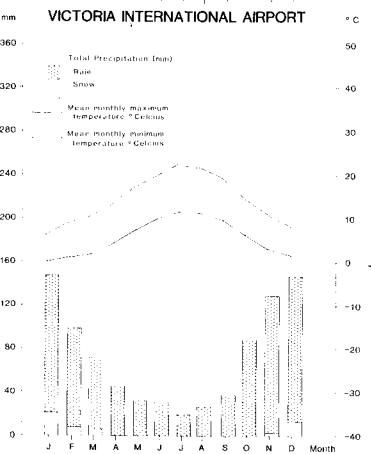
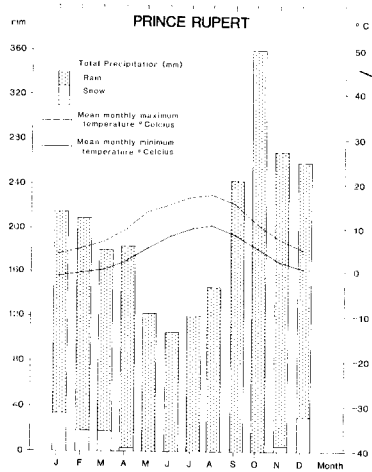
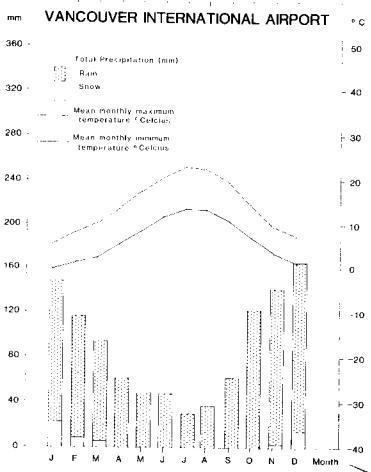
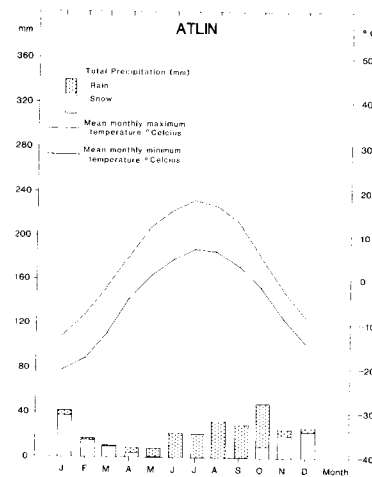
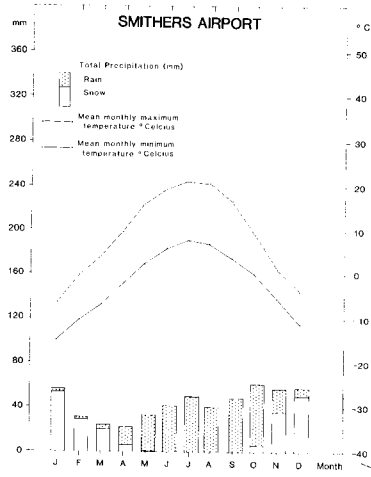
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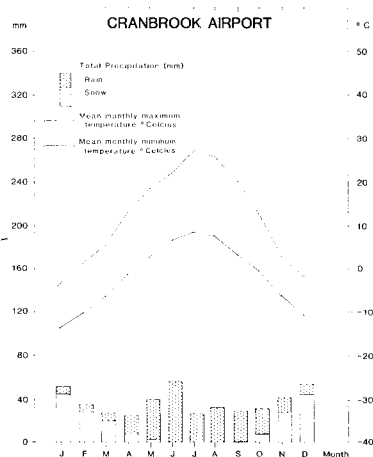
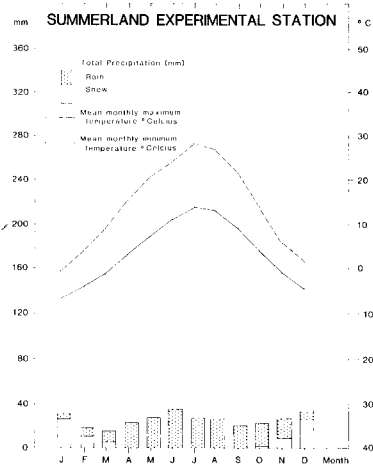
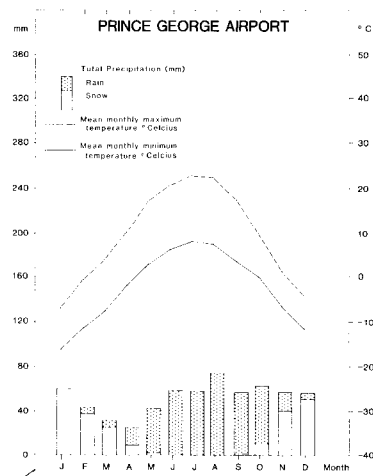
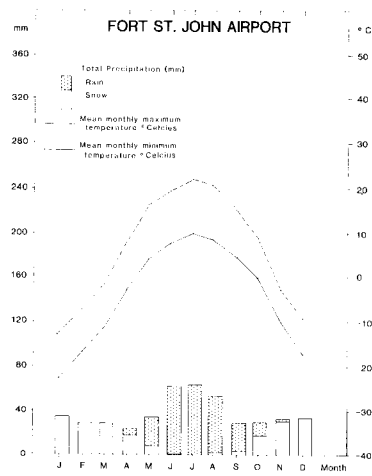
PHYSIOGRAPHIC REGION	#	STATION NAME	LATITUDE	LONGITUDE	ELEVATION IN METRES	PERIOD OF RECORD FOR EACH STATION
1 Coast Mountains and Islands	①	Victoria Intl. Airport	48°39'N	123°26'W	19	30 years
	②	Vancouver Intl. Airport	49°11'N	123°10'W	3	34 years
	③	Comox Airport	49°43'N	124°54'W	24	26 years
	④	Tofino Airport	49°05'N	125°46'W	20	16 years
	⑤	Port Hardy Airport	50°41'N	127°22'W	22	27 years
	⑥	Bella Coola	52°23'N	126°36'W	18	72 years
	⑦	Sandspit A	53°15'N	131°49'W	5	22 years
	⑧	Prince Rupert	54°17'N	130°23'W	52	53 years
2 The Interior Plateau	⑨	Summerland Exp. Station	49°34'N	119°39'W	454	55 years
	⑩	Kamloops Airport	50°42'N	120°25'W	346	20 years
	⑪	Williams Lake Airport	52°11'N	122°04'W	940	10 years
	⑫	Prince George Airport	53°53'N	122°40'W	676	28 years
3 The Columbia Mountains and Southern Rocky Mountains	⑬	Grand Forks	49°02'N	118°28'W	532	29 years
	⑭	Cranbrook Airport	49°32'N	115°46'W	939	29 years
	⑮	Revelstoke	51°00'N	118°12'W	456	66 years
	⑯	Valemount	52°49'N	119°15'W	797	54 years
4 The Northern and Central Plateaus and Mountains	⑰	Smithers Airport	54°49'N	127°11'W	523	30 years
	⑱	Germansen Landing	55°47'N	124°42'W	747	18 years
	⑲	Dease Lake	58°25'N	130°00'W	816	25 years
	⑳	Atlin	59°34'N	133°42'W	683	44 years
5 The Great Plains	㉑	Fort St. John A	56°14'N	120°44'W	695	28 years
	㉒	Fort Nelson A	58°50'N	122°35'W	382	33 years

REPRESENTATIVE CLIMATOLOGICAL STATIONS WITHIN THE PHYSIOGRAPHIC REGIONS OF BRITISH COLUMBIA

PART FOUR

ANNUAL PRECIPITATION AND TEMPERATURE GRAPHS FOR SELECTED CLIMATOLOGICAL STATIONS





ANNUAL PRECIPITATION AND TEMPERATURE GRAPHS FOR
SELECTED CLIMATOLOGICAL STATIONS

PART FIVE

EXPLANATION OF THE DATA PRESENTED AND THE CONVERSION FACTORS UTILIZED

EXPLANATION OF THE DATA PRESENTED AND THE CONVERSION FACTORS UTILIZED

The climatological data presented within this paper have been derived from long-term stations which have been operated by the Atmospheric Environment Service, Environment Canada. The mean or average temperatures, precipitation, sunshine hours, and freeze free period information have been based upon the thirty year period of 1941-1970. The extreme temperature and precipitation values are based upon the period of record for each of the twenty-two stations presented. The climatological data presented are long-term averages and it should be remembered that year to year variability of the weather can be considerable. More detailed climatic data for these and other stations may be obtained from:

Air Studies Branch
Ministry of Environment
Parliament Buildings
Victoria, British Columbia
V8V 1X4

The climatological information presented is in metric units. If British Units are required, conversions may be done as described below.

TEMPERATURE CONVERSION

$$T^{\circ}\text{F} = 9/5 T^{\circ}\text{C} + 32$$

where $T^{\circ}\text{F}$ = temperature in degrees Fahrenheit

where $T^{\circ}\text{C}$ = temperature in degrees Celsius.

Some useful benchmark temperatures for comparing degrees Celsius and Fahrenheit are as follows:

$$-40^{\circ}\text{C} = -40^{\circ}\text{F}$$

$$-17.8^{\circ}\text{C} = 0^{\circ}\text{F}$$

$$0^{\circ}\text{C} = 32^{\circ}\text{F} \text{ Freezing and melting points of water}$$

$$10^{\circ}\text{C} = 50^{\circ}\text{F}$$

$$20^{\circ}\text{C} = 68^{\circ}\text{F}$$

$$35^{\circ}\text{C} = 95^{\circ}\text{F}$$

PRECIPITATION CONVERSION

Total precipitation and rainfall amounts are converted from millimetres to inches by dividing the precipitation total by 25.4. Snowfall amounts may be converted to inches by dividing the number of centimetres of snow by 2.54.

PART SIX

DETAILED CLIMATOLOGICAL TABLES FOR SELECTED STATIONS

STATION # 1 - VICTORIA INTERNATIONAL AIRPORT

Physiographic Region: 1

Latitude: 48°39' North

Longitude: 123°26' West

Elevation: 19 Metres
Period of Record: 30 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	- 0.1	1.1	1.7	4.1	6.9	9.5	10.9	10.7	8.8	5.8	2.8	1.3	5.3
Mean monthly maximum temperature (°C)	5.9	8.3	9.8	13.0	16.8	19.4	21.9	21.4	19.2	14.2	9.6	7.2	13.9
Mean monthly temperature (°C)	2.9	4.7	5.8	8.6	11.9	14.5	16.4	16.1	13.9	10.0	6.2	4.2	9.6
Extreme monthly minimum temperature (°C)	-15.6	- 15.0	- 8.9	- 3.9	- 1.1	2.8	5.6	5.6	1.7	- 4.4	- 13.3	- 14.4	- 15.6
Extreme monthly maximum temperature (°C)	15.0	18.3	20.0	23.3	29.4	33.3	36.1	34.4	31.1	25.6	18.3	16.1	36.1
Days with minimum temperature below 0°C	15	12	10	2	< 1*	0	0	0	0	1	7	13	60
Mean monthly rainfall (mm)	127.0	89.7	63.8	43.7	30.5	29.2	18.5	24.9	36.6	87.4	125.7	134.1	811.1
Mean monthly snowfall (cm)	19.1	7.1	5.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	11.7	45.5
Mean monthly total precipitation (mm)	146.3	96.8	69.1	44.2	30.5	29.2	18.5	24.9	36.6	87.4	127.5	145.5	856.5
Percentage of days with measurable precipitation	61	54	48	43	32	27	16	19	27	48	60	65	42
Extreme twenty-four hour rainfall (mm)	64.3	55.9	53.6	31.2	38.1	40.9	19.6	32.5	27.4	57.4	68.3	54.1	68.3
Extreme twenty-four hour snowfall (cm)	27.2	15.2	21.3	5.1	Trace	0.0	0.0	0.0	0.0	Trace	15.2	34.8	34.8
Extreme twenty-four hour total precipitation (mm)	64.3	55.9	53.6	31.2	38.1	40.9	19.6	32.5	27.4	57.4	68.3	54.1	68.3
Average number of sunshine hours**	61	90	136	176	252	249	312	265	200	120	72	52	1985
Percentage of possible sunshine hours**	23	32	37	43	53	51	64	59	53	36	26	20	41

* < = less than 1

** Used closest available station, Saanichton CDA.

Freeze free period: 202 days

Average date of last spring freeze: April 13

Average date of first autumn freeze: November 2

STATION # 2 - VANCOUVER INTERNATIONAL AIRPORT

Physiographic Region: 1

Latitude: 49°11' North

Longitude: 123°10' West

Elevation: 3 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-0.4	1.1	2.1	4.9	7.9	10.9	12.7	12.5	9.9	6.4	2.9	1.1	6.0
Mean monthly maximum temperature (°C)	5.2	7.7	9.6	12.9	16.8	19.6	22.2	21.6	18.5	13.7	9.2	6.6	13.6
Mean monthly temperature (°C)	2.4	4.4	5.8	8.9	12.4	15.3	17.4	17.1	14.2	10.1	6.1	3.8	9.8
Extreme monthly minimum temperature (°C)	-17.8	-16.1	-9.4	-3.3	0.6	4.4	6.7	6.1	0.0	-2.8	-12.2	-17.8	-17.8
Extreme monthly maximum temperature (°C)	14.4	15.0	19.4	24.4	28.9	30.6	31.7	33.3	28.9	22.8	16.7	14.4	33.3
Days with minimum temperature below 0°C	15	12	9	1	0	0	0	0	< 1*	1	7	12	57
Mean monthly rainfall (mm)	125.7	109.0	89.2	60.7	47.5	45.2	29.7	37.1	61.2	122.2	138.9	151.4	1017.8
Mean monthly snowfall (cm)	22.4	7.9	5.3	Trace	0.0	0.0	0.0	0.0	0.0	0.0	2.3	14.5	52.4
Mean monthly total precipitation (mm)	147.3	116.6	93.7	61.0	47.5	45.2	29.7	37.1	61.2	122.2	141.2	165.4	1068.1
Percentage of days with measurable precipitation	65	54	52	43	32	33	19	26	30	52	60	65	44
Extreme twenty-four hour rainfall (mm)	68.3	43.9	39.1	44.5	23.6	40.4	35.3	31.8	49.5	59.7	61.0	58.9	68.3
Extreme twenty-four hour snowfall (cm)	20.6	18.3	25.9	1.8	Trace	0.0	0.0	0.0	0.0	Trace	11.2	31.2	31.2
Extreme twenty-four hour total precipitation (mm)	68.3	43.9	39.1	44.5	23.6	40.4	35.3	31.8	49.5	59.7	61.0	58.9	68.3
Average number of sunshine hours	55	93	129	180	253	243	305	255	188	116	70	44	1931
Percentage of possible sunshine hours	20	33	35	44	53	50	62	57	49	35	25	16	40

* < = less than 1

Freeze free period: 212 days

Average date of last spring freeze: March 31

Average date of first autumn freeze: October 30

STATION # 3 - COMOX AIRPORT

Physiographic Region: 1

Latitude: 49°43' North

Longitude: 125°54' West

Elevation: 24 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-0.8	0.6	1.1	3.4	6.8	10.3	11.9	11.6	8.8	5.3	2.3	0.7	5.2
Mean monthly maximum temperature (°C)	4.9	7.2	8.8	12.3	17.2	20.0	22.8	21.9	18.6	12.9	8.5	6.3	13.5
Mean monthly temperature (°C)	2.1	3.9	4.9	7.9	12.1	15.2	17.3	16.8	13.7	9.1	5.4	3.6	9.3
Extreme monthly minimum temperature (°C)	-21.1	-16.1	-13.9	-4.4	-2.8	3.3	5.0	4.4	-0.6	-3.3	-10.0	-15.0	-21.1
Extreme monthly maximum temperature (°C)	16.7	15.0	18.9	21.7	31.1	34.4	34.4	32.2	30.6	22.2	17.8	15.6	34.4
Days with minimum temperature below 0°C	17	14	13	5	1	0	0	0	< 1*	3	10	14	77
Mean monthly rainfall (mm)	153.4	109.5	99.3	55.4	34.5	36.8	28.4	41.9	47.5	132.6	179.6	182.1	1101.0
Mean monthly snowfall (cm)	43.2	15.7	8.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	6.9	30.2	106.2
Mean monthly total precipitation (mm)	196.1	125.5	107.7	56.9	34.5	36.8	28.4	41.9	47.5	132.6	186.9	211.6	1206.4
Percentage of days with measurable precipitation	65	54	48	40	29	30	23	26	33	52	60	61	42
Extreme twenty-four hour rainfall (mm)	77.0	63.5	54.6	40.9	23.9	30.5	27.2	69.1	37.1	59.4	65.8	113.0	113.0
Extreme twenty-four hour snowfall (cm)	48.5	25.4	37.3	15.2	Trace	Trace	0.0	0.0	Trace	Trace	22.4	59.7	59.7
Extreme twenty-four hour total precipitation (mm)	77.0	63.5	54.6	46.5	23.9	30.5	27.2	69.1	37.1	59.4	65.8	113.0	113.0

* < = less than 1

Freeze free period: 180 days

Average date of last spring freeze: April 24

Average date of first autumn freeze: October 22

STATION # 4 - TOFINO AIRPORT

Physiographic Region: 1

Latitude: 49°05' North

Longitude: 125°46' West

Elevation: 20 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	1.6	2.3	2.1	3.7	6.2	8.8	10.2	10.8	9.3	6.8	3.9	2.2	5.7
Mean monthly maximum temperature (°C)	7.2	9.0	9.2	10.8	14.2	16.6	18.4	18.3	17.1	13.7	10.0	7.9	12.7
Mean monthly temperature (°C)	4.4	5.6	5.6	7.2	10.2	12.7	14.3	14.6	13.1	10.3	6.9	5.1	9.2
Extreme monthly minimum temperature (°C)	-15.0	-6.7	-3.9	-1.7	0.0	3.3	5.0	5.6	1.7	-0.6	-5.0	-12.2	-15.0
Extreme monthly maximum temperature (°C)	14.4	18.9	18.3	20.6	25.6	32.2	32.8	30.0	29.4	23.9	21.1	15.6	32.8
Days with minimum temperature below 0°C	13	9	9	2	< 1*	0	0	0	0	< 1*	5	11	49
Mean monthly rainfall (mm)	395.2	319.5	306.6	260.4	103.6	86.4	79.2	82.6	150.9	371.3	418.3	445.5	3019.5
Mean monthly snowfall (cm)	19.1	4.1	4.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.9	41.7
Mean monthly total precipitation (mm)	414.3	323.6	310.9	261.9	103.6	86.4	79.2	82.6	150.9	371.3	420.1	456.4	3061.2
Percentage of days with measurable precipitation	71	64	61	60	39	30	26	32	40	61	77	74	53
Extreme twenty-four hour rainfall (mm)	174.2	128.5	169.7	106.2	51.1	39.4	64.8	62.7	105.9	154.2	138.2	166.4	174.2
Extreme twenty-four hour snowfall (cm)	31.2	10.7	14.0	5.8	Trace	0.0	0.0	0.0	0.0	0.0	2.5	15.5	31.2
Extreme twenty-four hour total precipitation (mm)	174.2	128.5	169.7	106.2	51.1	39.4	64.8	62.7	105.9	154.2	138.2	166.4	174.2

* < = less than 1

Freeze free period: 213 days

Average date of last spring freeze: April 9

Average date of first autumn freeze: November 9

STATION # 5 - PORT HARDY AIRPORT

Physiographic Region: 1

Latitude: 50°41' North

Longitude: 127°22' West

Elevation: 22 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	0.0	1.1	1.1	2.7	5.4	8.3	9.9	10.2	8.4	5.6	2.8	1.2	4.7
Mean monthly maximum temperature (°C)	4.7	6.6	7.7	10.3	13.7	15.8	17.3	17.3	15.4	11.7	7.8	5.7	11.2
Mean monthly temperature (°C)	2.4	3.8	4.4	6.5	9.6	12.1	13.6	13.8	11.9	8.7	5.3	3.4	8.0
Extreme monthly minimum temperature (°C)	-14.4	-8.9	-12.8	-3.3	-1.1	2.2	2.8	4.4	0.6	-2.2	-10.0	-12.2	-14.4
Extreme monthly maximum temperature (°C)	12.8	16.7	18.3	22.2	28.3	31.7	26.7	28.3	25.6	22.2	19.4	13.9	31.7
Days with minimum temperature below 0°C	15	12	12	6	1	0	0	0	0	2	7	12	67
Mean monthly rainfall (mm)	181.4	144.3	123.4	108.2	63.2	58.7	53.8	68.1	131.6	253.5	230.9	242.3	1659.4
Mean monthly snowfall (cm)	28.4	13.2	9.1	1.3	Trace	0.0	0.0	0.0	0.0	0.0	3.3	15.2	70.5
Mean monthly total precipitation (mm)	209.0	157.5	132.8	109.5	63.2	58.7	53.8	68.1	131.6	253.5	234.4	257.6	1729.7
Percentage of days with measurable precipitation	74	68	61	60	45	43	35	39	53	68	77	77	58
Extreme twenty-four hour rainfall (mm)	98.3	55.1	53.6	48.5	37.8	42.2	35.8	54.6	96.3	93.5	86.6	70.6	98.3
Extreme twenty-four hour snowfall (cm)	29.2	21.6	21.1	5.3	Trace	0.0	0.0	0.0	0.0	Trace	11.2	19.8	29.2
Extreme twenty-four hour total precipitation (mm)	98.3	55.1	53.6	48.5	37.8	42.2	35.8	54.6	96.3	93.5	86.6	70.6	98.3

Freeze free period: 175 days

Average date of last spring freeze: April 30

Average date of first autumn freeze: October 23

STATION # 6 - BELLA COOLA

Physiographic Region: 1

Latitude: 52°23' North

Longitude: 126°41' West

Elevation: 16 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-5.4	-2.4	-1.3	1.7	4.8	8.6	10.6	9.9	7.0	3.9	-0.3	-3.3	2.8
Mean monthly maximum temperature (°C)	-0.2	4.8	8.3	13.0	17.9	20.2	22.2	21.6	18.3	11.8	5.0	1.2	12.0
Mean monthly temperature (°C)	-2.8	1.2	3.6	7.4	11.4	14.4	16.4	15.8	12.7	7.9	2.3	-1.0	7.4
Extreme monthly minimum temperature (°C)	-28.9	-24.4	-20.6	-9.4	-6.1	-1.1	1.1	-1.1	-4.4	-9.4	-17.8	-24.4	-28.9
Extreme monthly maximum temperature (°C)	12.8	16.7	23.9	29.4	37.8	36.1	37.8	37.8	33.3	25.0	16.7	15.6	37.8
Days with minimum temperature below 0°C	26	21	20	10	2	< 1*	0	< 1*	1	5	15	24	124
Mean monthly rainfall (mm)	130.3	112.5	96.0	84.8	49.3	49.0	53.3	71.4	124.7	230.9	189.5	165.6	1357.3
Mean monthly snowfall (cm)	54.4	33.5	9.7	2.3	0.0	0.0	0.0	0.0	0.0	0.3	22.1	50.8	173.1
Mean monthly total precipitation (mm)	184.7	145.8	105.7	87.1	49.3	49.0	53.3	71.4	124.7	231.1	211.8	216.4	1530.3
Percentage of days with measurable precipitation	52	50	45	47	35	40	39	39	47	61	60	58	48
Extreme twenty-four hour rainfall (mm)	89.9	85.6	81.0	76.2	139.7	94.0	44.5	233.7	83.3	133.4	135.9	127.0	233.7
Extreme twenty-four hour snowfall (cm)	63.5	55.9	71.1	15.2	0.0	0.0	0.0	0.0	0.0	19.1	40.6	51.6	71.1
Extreme twenty-four hour total precipitation (mm)	89.9	85.6	81.0	76.2	139.7	94.0	44.5	233.7	83.3	133.4	15.9	127.0	233.7

* < = less than 1

Freeze free period: 154 days

Average date of last spring freeze: May 7

Average date of first autumn freeze: October 9

STATION # 7 - SANDSPIT AIRPORT

Physiographic Region: 1

Latitude: 53°15' North

Longitude: 131°49' West

Elevation: 5 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-0.5	0.9	1.1	2.8	5.8	8.9	11.2	11.8	9.9	6.0	2.8	0.9	5.1
Mean monthly maximum temperature (°C)	4.3	5.9	6.7	8.9	11.9	14.5	16.7	17.5	15.7	11.7	7.9	5.6	10.6
Mean monthly temperature (°C)	1.9	3.4	3.9	5.9	8.8	11.7	13.9	14.6	12.8	8.9	5.4	3.3	7.9
Extreme monthly minimum temperature (°C)	-13.9	-12.2	-12.2	-2.8	-1.1	2.2	5.6	5.6	-0.6	-2.2	-6.7	-12.8	-13.9
Extreme monthly maximum temperature (°C)	12.2	12.2	13.9	18.9	21.7	25.0	26.1	26.7	22.2	18.9	15.6	13.3	26.7
Days with minimum temperature below 0°C	17	11	12	4	< 1*	0	0	0	< 1*	1	6	12	63
Mean monthly rainfall (mm)	125.2	96.8	91.4	79.2	45.5	47.2	48.3	48.0	86.4	184.7	177.5	152.1	1182.3
Mean monthly snowfall (cm)	30.2	14.2	10.4	1.5	0.3	0.0	0.0	0.0	0.0	Trace	7.4	14.5	78.5
Mean monthly total precipitation (mm)	155.4	111.0	101.9	80.8	45.7	47.2	48.3	48.0	86.4	184.7	184.9	166.6	1260.9
Percentage of days with measurable precipitation	65	64	58	57	45	43	39	42	53	74	73	74	57
Extreme twenty-four hour rainfall (mm)	57.2	35.1	33.8	79.5	48.3	27.4	22.1	38.6	48.5	49.3	42.9	55.6	79.5
Extreme twenty-four hour snowfall (cm)	35.6	25.4	19.6	5.1	1.5	0.0	0.0	0.0	0.0	0.3	22.9	23.4	35.6
Extreme twenty-four hour total precipitation (mm)	57.2	35.1	47.5	79.5	48.3	27.4	22.1	38.6	48.5	49.3	42.9	55.6	79.5

* < = less than 1

Freeze free period: 200 days

Average date of last spring freeze: April 19

Average date of first autumn freeze: November 6

STATION # 8 - PRINCE RUPERT

Physiographic Region: 1

Latitude: 54°17' North

Longitude: 130°23' West

Elevation: 52 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-0.8	-0.1	0.5	2.6	5.6	8.3	10.1	10.5	8.6	5.9	2.6	0.7	4.5
Mean monthly maximum temperature (°C)	4.4	5.4	6.9	9.8	13.6	15.3	16.9	17.4	15.4	11.4	7.6	5.2	10.1
Mean monthly temperature (°C)	1.8	2.7	3.7	6.2	9.6	11.8	13.6	13.9	12.0	8.7	5.1	2.9	7.7
Extreme monthly minimum temperature (°C)	-21.1	-17.2	-15.0	-6.7	-1.1	1.7	0.6	3.9	-1.1	-5.6	-11.7	-15.0	-21.1
Extreme monthly maximum temperature (°C)	17.8	18.9	20.0	23.3	29.4	32.2	30.6	30.0	27.2	21.7	20.0	17.2	32.2
Days with minimum temperature below 0°C	16	14	14	5	< 1*	0	0	0	0	1	7	14	71
Mean monthly rainfall (mm)	179.8	189.5	161.3	180.6	122.7	107.2	120.9	147.1	241.8	358.9	264.2	227.6	2301.6
Mean monthly snowfall (cm)	34.3	19.3	19.1	3.3	Trace	0.0	0.0	0.0	0.0	0.3	5.1	31.8	113.2
Mean monthly total precipitation (mm)	214.1	208.8	180.3	183.9	122.7	107.2	120.9	147.1	241.8	359.2	269.2	259.3	2414.5
Percentage of days with measurable precipitation	65	61	65	63	55	53	52	52	57	77	73	74	62
Extreme twenty-four hour rainfall (mm)	125.0	78.0	103.6	71.1	65.5	48.0	67.1	70.6	94.7	141.0	137.9	125.5	141.0
Extreme twenty-four hour snowfall (cm)	38.1	27.9	25.4	22.9	1.3	0.0	0.0	0.0	0.0	5.1	16.5	27.9	38.1
Extreme twenty-four hour total precipitation (mm)	125.0	78.0	103.6	71.1	65.5	48.0	67.1	70.6	94.7	141.0	137.9	125.5	141.0
Average number of sunshine hours**	42	59	86	118	159	120	120	119	95	54	40	24	1036
Percentage of possible sunshine hours**	17	22	24	28	32	23	23	26	25	16	16	10	22

* < = less than 1

** Used closest available station, Prince Rupert Airport

Freeze free period: 199 days

Average date of last spring freeze: April 19

Average date of first autumn freeze: November 5

STATION # 9 - SUMMERLAND EXPERIMENTAL STATION

Physiographic Region: 2

Latitude: 49°34' North

Longitude: 119°39' West

Elevation: 454 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-6.6	-3.9	-1.2	3.0	7.3	11.2	13.8	13.2	9.3	4.3	-0.7	-4.0	3.8
Mean monthly maximum temperature (°C)	-0.5	3.8	8.6	14.9	20.2	23.8	28.1	26.7	21.4	13.7	5.9	1.7	14.0
Mean monthly temperature (°C)	-3.6	0.0	3.7	9.0	13.8	17.5	21.0	19.9	15.4	9.0	2.6	-1.2	8.9
Extreme monthly minimum temperature (°C)	-30.0	-26.7	-21.7	-10.0	-5.0	1.7	4.4	5.6	-3.9	-9.4	-18.9	-29.4	-30.0
Extreme monthly maximum temperature (°C)	13.9	16.7	22.2	28.9	33.9	38.3	40.0	36.7	34.4	27.8	16.7	15.6	40.0
Days with minimum temperature below 0°C	28	23	20	6	1	0	0	0	< 1*	4	18	26	126
Mean monthly rainfall (mm)	4.8	7.4	10.2	21.6	26.4	34.8	26.4	24.9	19.3	21.3	17.5	7.4	222.0
Mean monthly snowfall (cm)	25.7	10.4	4.8	Trace	0.0	0.0	0.0	0.0	0.0	0.5	8.1	24.9	74.4
Mean monthly total precipitation (mm)	30.5	17.8	14.7	21.8	26.4	34.8	26.4	24.9	19.3	21.6	25.7	32.3	296.2
Percentage of days with measurable precipitation	35	29	23	20	26	33	19	23	23	26	33	35	27
Extreme twenty-four hour rainfall (mm)	12.2	9.7	13.2	25.4	26.7	34.0	41.7	21.8	23.1	45.5	17.0	22.9	45.5
Extreme twenty-four hour snowfall (cm)	17.8	30.5	33.5	5.1	0.0	0.0	0.0	0.0	0.0	12.7	19.8	45.7	45.7
Extreme twenty-four hour total precipitation (mm)	18.3	30.5	33.5	25.4	26.7	34.0	41.7	21.8	23.1	45.5	19.8	45.7	45.7
Average number of sunshine hours**	47	84	149	190	245	249	317	278	205	129	60	39	1992
Percentage of possible sunshine hours**	18	30	41	46	51	51	64	62	54	39	22	16	41

* < = less than 1

** Used closest available station, Summerland CDA

Freeze free period: 175 days

Average date of last spring freeze: April 26

Average date of first autumn freeze: October 19

STATION # 10 - KAMLOOPS AIRPORT

Physiographic Region: 2

Latitude: 50°42' North

Longitude: 120°27' West

Elevation: 346 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-9.7	-5.8	-2.1	2.4	6.8	10.8	12.7	11.8	7.6	3.0	-2.0	-5.8	2.5
Mean monthly maximum temperature (°C)	-2.3	3.1	9.1	16.2	21.8	25.2	29.1	27.6	22.4	13.8	5.4	0.7	14.3
Mean monthly temperature (°C)	-6.0	-1.3	3.6	9.3	14.3	18.0	20.9	19.7	15.0	8.4	1.7	-2.6	8.4
Extreme monthly minimum temperature (°C)	-37.2	-28.3	-26.1	-8.3	-5.6	1.1	3.3	2.8	-2.8	-13.3	-23.3	-36.1	-37.2
Extreme monthly maximum temperature (°C)	13.3	16.7	22.2	28.9	36.1	38.9	39.4	38.3	33.9	28.3	17.2	16.1	39.4
Days with minimum temperature below 0°C	29	24	22	11	2	0	0	0	1	9	20	28	146
Mean monthly rainfall (mm)	2.8	4.6	4.6	12.2	19.1	36.3	25.9	26.9	20.3	18.3	11.2	4.8	187.0
Mean monthly snowfall (cm)	27.2	11.2	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.3	9.7	24.6	77.1
Mean monthly total precipitation (mm)	28.7	15.5	8.1	12.4	19.1	36.3	25.9	26.9	20.3	18.5	20.6	28.2	260.5
Percentage of days with measurable precipitation	39	25	19	17	23	27	19	23	23	23	27	32	25
Extreme twenty-four hour rainfall (mm)	7.6	18.0	11.2	19.3	12.4	21.1	42.2	26.9	18.0	14.5	9.4	8.9	42.2
Extreme twenty-four hour snowfall (cm)	33.8	10.7	16.8	1.8	Trace	0.0	0.0	0.0	0.0	2.8	14.0	23.9	33.8
Extreme twenty-four hour total precipitation (mm)	33.8	20.6	13.5	19.3	12.4	21.1	42.2	26.9	18.0	14.5	14.0	20.3	42.2
Average number of sunshine hours	56	97	148	197	255	253	314	276	196	125	67	48	2032
Percentage of possible sunshine hours	22	35	40	48	53	51	63	61	51	38	25	20	42

Freeze free period: 145 days

Average date of last spring freeze: May 5

Average date of first autumn freeze: September 28

STATION # 11 - WILLIAMS LAKE AIRPORT

Physiographic Region: 2

Latitude: 52°11' North

Longitude: 122°04' West

Elevation: 940 Metres
Period of Record: 10 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-14.8	-10.4	-7.3	-1.8	2.6	7.1	8.6	8.2	4.0	0.1	-6.6	-10.8	-1.8
Mean monthly maximum temperature (°C)	-5.7	0.5	4.4	10.4	16.6	19.4	22.8	21.7	17.6	10.1	2.2	-2.9	9.8
Mean monthly temperature (°C)	-10.2	-4.9	-1.4	4.3	9.6	13.3	15.7	14.9	10.8	5.1	-2.2	-6.8	4.0
Extreme monthly minimum temperature (°C)	-42.2	-23.9	-30.6	-16.7	-5.6	-1.7	1.7	-0.6	-7.8	-8.3	-28.3	-42.8	-42.8
Extreme monthly maximum temperature (°C)	12.8	12.8	16.1	20.6	30.0	32.2	33.9	32.8	30.6	22.8	15.0	8.9	33.9
Days with minimum temperature below 0°C	29	26	28	22	10	1	0	< 1*	5	17	25	30	193
Mean monthly rainfall (mm)	3.6	3.8	5.1	7.9	19.1	61.0	44.2	44.7	32.0	21.1	4.8	1.8	249.1
Mean monthly snowfall (cm)	31.0	21.3	22.6	8.1	4.3	0.0	0.0	0.0	1.5	8.9	20.8	34.0	152.5
Mean monthly total precipitation (mm)	34.5	25.1	27.7	16.0	23.4	61.0	44.2	44.7	33.5	30.0	25.7	35.8	401.6
Percentage of days with measurable precipitation	45	29	26	27	29	30	35	32	30	29	37	45	33
Extreme twenty-four hour rainfall (mm)	15.7	14.2	5.6	20.3	17.5	26.2	34.3	29.7	24.9	37.3	9.9	5.8	37.3
Extreme twenty-four hour snowfall (cm)	42.7	15.0	13.5	17.0	11.7	0.0	0.0	0.0	7.9	19.1	12.7	16.8	42.7
Extreme twenty-four hour total precipitation (mm)	42.7	14.2	12.2	24.9	22.4	26.2	34.3	29.7	27.9	37.3	10.4	15.2	42.7
Average number of sunshine hours	60	114	165	206	264	303	309	278	190	129	76	48	2142
Percentage of possible sunshine hours	23	42	45	50	54	60	61	61	49	39	28	20	44

* < = less than 1

Freeze free period: 92 days
Average date of last spring freeze: June 8
Average date of first autumn freeze: September 9

STATION # 12 - PRINCE GEORGE AIRPORT

Physiographic Region: 2

Latitude: 53°53' North

Longitude: 122°40' West

Elevation: 676 Metres
Period of Record: 28 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-16.4	-11.6	-7.7	-1.9	2.4	6.1	7.7	6.7	3.2	-0.3	-6.7	-11.6	-2.5
Mean monthly maximum temperature (°C)	-7.2	-0.8	3.5	9.8	16.4	19.9	22.1	20.8	16.4	9.6	1.0	-3.7	9.0
Mean monthly temperature (°C)	-11.8	-6.2	-2.1	3.9	9.4	13.0	14.9	13.7	9.8	4.7	-2.8	-7.6	3.2
Extreme monthly minimum temperature (°C)	-50.0	-45.0	-37.8	-25.6	-8.3	-2.8	-1.7	-3.9	-12.2	-25.6	-41.7	-45.6	-50.0
Extreme monthly maximum temperature (°C)	12.8	12.8	17.8	23.3	30.0	33.9	34.4	33.3	28.9	25.0	16.1	11.7	34.4
Days with minimum temperature below 0°C	30	27	29	22	10	2	< 1*	1	8	18	26	39	203
Mean monthly rainfall (mm)	4.6	6.1	7.1	19.3	40.1	58.2	57.9	73.4	54.9	50.8	19.1	8.4	399.9
Mean monthly snowfall (cm)	59.4	37.3	24.9	10.2	2.0	Trace	0.0	0.0	1.0	10.2	39.4	49.0	233.4
Mean monthly total precipitation (mm)	59.2	42.9	31.5	29.5	42.2	58.2	57.9	73.4	55.9	61.0	54.9	54.1	620.7
Percentage of days with measurable precipitation	55	46	39	33	35	43	42	42	40	48	53	55	45
Extreme twenty-four hour rainfall (mm)	12.4	17.8	18.0	18.5	21.3	38.9	27.9	50.0	33.3	38.9	17.8	13.0	50.0
Extreme twenty-four hour snowfall (cm)	29.0	22.9	19.8	21.8	9.4	0.3	Trace	Trace	9.1	11.7	26.9	29.0	29.0
Extreme twenty-four hour total precipitation (mm)	29.0	22.9	19.8	21.8	24.1	38.9	27.9	50.0	33.3	38.9	22.1	29.0	50.0
Average number of sunshine hours	54	89	139	187	255	256	279	245	158	104	60	39	1865
Percentage of possible sunshine hours	22	33	38	45	51	50	53	53	41	31	22	16	38

* < = less than 1

Freeze free period: 78 days

Average date of last spring freeze: June 10

Average date of first autumn freeze: August 28

STATION # 13 - GRAND FORKS

Physiographic Region: 3

Latitude: 49°02' North

Longitude: 118°28' West

Elevation: 532 Metres
Period of Record: 30 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-10.8	-7.3	-3.7	0.7	4.8	8.3	10.1	9.2	5.4	0.8	-3.4	-7.6	0.5
Mean monthly maximum temperature (°C)	-2.3	2.9	8.5	15.6	20.7	24.1	29.4	28.2	23.2	14.1	4.6	-0.4	14.1
Mean monthly temperature (°C)	-6.5	-2.2	2.4	8.2	12.7	16.2	19.7	18.7	14.3	7.5	0.6	-4.0	7.3
Extreme monthly minimum temperature (°C)	-38.9	-35.0	-22.8	-8.3	-8.3	-1.7	1.1	0.0	-6.1	-11.1	-23.3	-37.8	-38.9
Extreme monthly maximum temperature (°C)	16.1	19.4	21.7	30.0	36.1	36.1	42.2	39.4	36.7	30.0	17.2	25.0	42.2
Days with minimum temperature below 0°C	30	27	26	14	4	< 1*	0	< 1*	3	14	23	29	170
Mean monthly rainfall (mm)	11.2	15.0	19.8	24.9	41.7	51.3	21.3	32.3	27.7	38.9	29.7	13.7	327.5
Mean monthly snowfall (cm)	38.6	20.1	6.4	1.0	0.0	0.0	0.0	0.0	0.0	1.0	13.2	42.2	122.5
Mean monthly total precipitation (mm)	49.8	35.1	26.2	25.9	41.7	51.3	21.3	32.3	27.7	39.9	42.9	55.9	450.0
Percentage of days with measurable precipitation	42	32	26	27	32	37	16	23	23	29	40	45	31
Extreme twenty-four hour rainfall (mm)	14.7	17.0	18.0	21.8	31.2	41.4	21.1	27.7	24.4	27.4	15.0	15.0	41.4
Extreme twenty-four hour snowfall (cm)	40.6	25.4	17.8	10.2	Trace	0.0	0.0	0.0	0.0	7.6	17.8	30.5	40.6
Extreme twenty-four hour total precipitation (mm)	40.6	25.4	18.0	21.8	31.2	41.4	21.1	27.7	24.4	27.4	17.8	30.5	41.4

* < = less than 1

Freeze free period: 120 days
Average date of last spring freeze: May 21
Average date of first autumn freeze: September 19

STATION # 14 - CRANBROOK AIRPORT

Physiographic Region: 3

Latitude: 49°36' North

Longitude: 115°47' West

Elevation: 939 Metres
Period of Record: 28 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-13.8	-10.4	-6.7	-1.0	2.9	6.7	8.6	7.7	3.6	-0.6	-6.4	-10.6	-1.7
Mean monthly maximum temperature (°C)	-4.0	1.1	5.4	12.8	18.4	21.8	27.0	26.0	20.2	12.2	2.7	-1.7	11.8
Mean monthly temperature (°C)	-8.9	-4.7	-0.6	5.9	10.7	14.3	17.8	16.8	11.9	5.8	-1.8	-6.2	5.1
Extreme monthly minimum temperature (°C)	-41.1	-37.2	-30.0	-20.0	-12.2	-2.8	-0.6	0.0	-5.6	-12.2	-31.7	-34.4	-41.1
Extreme monthly maximum temperature (°C)	10.0	12.2	20.6	30.0	31.1	34.4	38.9	37.2	33.9	27.8	16.1	13.3	38.9
Days with minimum temperature below 0°C	30	27	28	20	8	1	< 1*	< 1*	6	19	26	29	194
Mean monthly rainfall (mm)	5.6	8.6	7.1	16.8	36.6	55.1	24.4	32.3	27.9	23.6	14.0	8.4	260.4
Mean monthly snowfall (cm)	45.5	27.4	18.5	6.6	2.3	0.0	0.0	0.0	0.3	7.1	26.4	44.2	178.3
Mean monthly total precipitation (mm)	51.1	35.1	25.7	23.4	38.9	55.1	24.4	32.3	28.2	30.7	40.4	52.6	437.9
Percentage of days with measurable precipitation	39	32	29	27	29	37	19	26	27	29	33	45	31
Extreme twenty-four hour rainfall (mm)	12.7	43.2	15.2	22.9	27.9	35.6	24.1	34.3	34.8	22.6	14.2	19.3	43.2
Extreme twenty-four hour snowfall (cm)	21.1	38.6	33.0	17.8	33.3	0.0	0.0	0.0	2.5	22.9	42.2	35.6	42.2
Extreme twenty-four hour total precipitation (mm)	21.1	43.2	33.0	22.9	34.0	35.6	24.1	34.3	34.8	22.9	42.2	35.6	43.2

* < = less than 1

Freeze free period: 96 days
Average date of last spring freeze: June 3
Average date of first autumn freeze: September 8

STATION # 15 - REVELSTOKE

Physiographic Region: 3

Latitude: 51°00' North

Longitude: 118°12' West

Elevation: 456 Metres
Period of Record: 66 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-9.1	-5.8	-3.2	0.7	4.9	9.1	11.1	10.5	6.9	3.1	-1.8	-6.1	1.7
Mean monthly maximum temperature (°C)	-2.8	2.1	6.9	13.7	20.6	23.7	27.8	25.8	20.4	10.8	3.3	-1.1	12.6
Mean monthly temperature (°C)	-5.9	-1.8	1.9	7.2	12.8	16.4	19.4	18.2	13.7	7.0	0.8	-3.6	7.2
Extreme monthly minimum temperature (°C)	-34.4	-32.2	-22.2	-15.0	-6.7	-1.7	0.6	-6.1	-6.7	-12.2	-22.8	-32.8	-34.4
Extreme monthly maximum temperature (°C)	10.6	12.8	22.2	28.3	37.2	36.7	40.6	38.3	37.2	25.6	15.0	17.2	40.6
Days with minimum temperature below 0°C	29	25	24	13	3	< 1*	0	< 1*	1	7	20	28	150
Mean monthly rainfall (mm)	28.4	33.0	48.0	53.6	51.3	74.2	57.2	64.0	75.9	102.6	71.9	42.9	703.0
Mean monthly snowfall (cm)	131.6	79.2	24.6	3.0	0.0	0.0	0.0	0.0	0.0	3.3	50.8	119.1	411.6
Mean monthly total precipitation (mm)	151.4	108.5	72.1	56.6	51.3	74.2	57.2	64.0	75.9	105.9	121.4	157.7	1096.2
Percentage of days with measurable precipitation	61	57	45	37	35	43	32	35	37	52	57	68	47
Extreme twenty-four hour rainfall (mm)	40.6	52.6	36.3	36.8	36.8	51.8	59.2	51.1	47.2	78.0	52.8	41.9	78.0
Extreme twenty-four hour snowfall (cm)	96.0	114.3	43.2	24.4	5.1	Trace	0.0	0.0	0.0	24.9	48.0	48.5	114.3
Extreme twenty-four hour total precipitation (mm)	96.0	114.3	43.2	36.8	36.8	51.8	59.2	51.1	47.2	78.0	52.8	48.5	114.3

* < = less than 1

Freeze free period: 140 days
Average date of last spring freeze: May 14
Average date of first autumn freeze: October 2

STATION # 16 - VALEMOUNT

Physiographic Region: 3

Latitude: 52°49' North

Longitude: 119°15' West

Elevation: 797 Metres
Period of Record: 54 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-14.9	-10.2	-7.2	-2.2	1.8	5.4	7.5	6.3	2.8	-0.4	-6.3	-11.3	-2.4
Mean monthly maximum temperature (°C)	-6.2	-0.1	4.5	11.2	18.0	21.2	24.3	22.7	17.7	9.7	0.8	-4.2	10.0
Mean monthly temperature (°C)	-10.6	-5.2	-1.3	4.4	9.9	13.3	15.9	14.6	10.3	4.7	-2.7	-7.7	3.8
Extreme monthly minimum temperature (°C)	-48.9	-46.7	-41.1	-24.4	-10.0	-7.2	-3.9	-6.7	-12.8	-26.1	-37.8	-51.1	-51.1
Extreme monthly maximum temperature (°C)	10.6	12.2	22.8	30.6	35.0	35.6	40.6	37.2	33.3	26.1	13.9	12.8	40.6
Days with minimum temperature below 0°C	30	27	28	22	11	2	< 1*	2	9	17	27	30	205
Mean monthly rainfall (mm)	3.8	8.4	7.4	20.8	30.7	44.5	47.0	47.2	44.5	46.5	19.3	8.1	328.2
Mean monthly snowfall (cm)	37.1	27.4	14.5	8.6	1.0	0.0	0.0	0.0	0.0	5.6	25.1	36.1	155.4
Mean monthly total precipitation (mm)	40.9	35.8	21.6	29.5	31.8	44.5	47.0	47.2	44.5	52.1	44.7	44.2	483.8
Percentage of days with measurable precipitation	35	29	23	27	26	37	39	39	33	39	33	35	33
Extreme twenty-four hour rainfall (mm)	18.3	22.1	14.5	23.6	48.5	31.2	31.2	32.5	61.7	31.0	38.1	41.1	61.7
Extreme twenty-four hour snowfall (cm)	43.2	37.6	22.9	30.5	5.6	Trace	0.0	0.0	12.7	20.3	43.7	73.7	73.7
Extreme twenty-four hour total precipitation (mm)	43.2	37.6	22.9	30.5	48.5	31.2	31.2	32.5	61.7	31.0	43.7	73.7	73.7

* < = less than 1

Freeze free period: 71 days

Average date of last spring freeze: June 16

Average date of first autumn freeze: August 27

STATION # 17 - SMITHERS AIRPORT

Physiographic Region: 4

Latitude: 54°49' North

Longitude: 127°11' West

Elevation: 523 Metres

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-14.9	-10.3	-6.8	-1.9	2.4	6.0	7.9	7.1	3.7	0.2	-5.4	-11.2	-1.9
Mean monthly maximum temperature (°C)	-6.3	-0.1	4.1	9.7	15.9	19.4	21.1	20.6	16.3	9.0	1.0	-3.8	8.9
Mean monthly temperature (°C)	-10.6	-5.2	-1.3	3.9	9.2	12.7	14.6	13.8	10.0	4.6	-2.2	-7.5	3.5
Extreme monthly minimum temperature (°C)	-43.9	-35.6	-33.3	-18.3	-7.2	-2.2	-1.1	-2.2	-6.7	-15.6	-31.7	-36.7	-43.9
Extreme monthly maximum temperature (°C)	15.6	11.7	15.6	22.8	31.1	33.9	33.3	33.9	30.0	22.2	15.6	10.0	33.9
Days with minimum temperature below 0°C	30	27	30	23	9	1	0	1	6	16	27	30	200
Mean monthly rainfall (mm)	7.6	4.6	6.1	15.7	30.7	40.4	49.0	39.4	47.8	53.8	23.1	9.4	327.6
Mean monthly snowfall (cm)	52.3	27.7	19.1	6.4	1.3	0.0	0.0	0.0	Trace	6.4	34.8	49.5	197.5
Mean monthly total precipitation (mm)	55.4	30.2	23.6	21.8	32.0	40.4	49.0	39.4	47.8	59.9	56.1	56.6	512.2
Percentage of days with measurable precipitation	55	46	35	27	32	40	39	39	43	52	53	58	43
Extreme twenty-four hour rainfall (mm)	26.7	9.7	15.5	24.6	52.3	26.7	40.1	25.7	31.0	41.7	59.7	23.6	59.7
Extreme twenty-four hour snowfall (cm)	61.0	15.2	21.1	15.7	6.4	0.0	0.0	Trace	0.5	14.2	43.7	28.4	61.0
Extreme twenty-four hour total precipitation (mm)	61.0	15.2	21.1	24.6	52.3	26.7	40.1	25.7	31.0	42.7	59.7	29.0	61.0
Average number of sunshine hours**	50	82	124	161	210	210	223	210	149	82	48	34	1583
Percentage of possible sunshine hours**	21	31	34	38	42	40	43	45	39	25	19	15	33

** Used closest available station, Smithers CDA

Freeze free period: 82 days
Average date of last spring freeze: June 10
Average date of first autumn freeze: September 1

STATION # 18 - GERMANSEN LANDING

Physiographic Region: 4

Latitude: 55°47' North

Longitude: 124°42' West

Elevation: 747 Metres
Period of Record: 17 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-22.4	-15.7	-12.1	-4.8	-0.1	4.4	6.6	5.7	1.9	-2.6	-10.4	-17.7	-5.6
Mean monthly maximum temperature (°C)	-12.7	-3.3	2.0	7.6	14.4	18.4	20.8	19.5	14.7	6.3	-3.1	-9.1	6.3
Mean monthly temperature (°C)	-17.5	-9.5	-5.0	1.4	7.2	11.4	13.7	12.6	8.3	1.9	-6.7	-13.3	0.4
Extreme monthly minimum temperature (°C)	-47.2	-44.4	-40.0	-26.7	-12.8	-3.3	-2.2	-3.9	-7.8	-30.6	-36.1	-45.6	-47.2
Extreme monthly maximum temperature (°C)	11.7	11.7	15.6	20.0	27.8	32.2	30.6	32.2	27.8	19.4	11.7	8.3	32.2
Days with minimum temperature below 0°C	31	28	30	28	18	4	1	2	11	25	29	31	238
Mean monthly rainfall (mm)	1.3	2.0	2.5	19.1	25.9	50.3	47.5	48.0	33.8	27.4	6.4	3.8	268.0
Mean monthly snowfall (cm)	54.6	32.8	26.7	18.0	2.5	0.0	0.0	0.0	1.0	18.0	46.7	56.6	256.9
Mean monthly total precipitation (mm)	55.9	34.8	29.2	37.1	28.4	50.3	47.5	48.0	34.8	45.5	53.1	60.5	525.1
Percentage of days with measurable precipitation	55	43	35	33	26	37	35	39	40	45	53	58	42
Extreme twenty-four hour rainfall (mm)	6.4	11.7	7.4	53.6	18.0	34.8	33.8	38.4	21.6	15.2	17.5	16.8	53.6
Extreme twenty-four hour snowfall (cm)	24.1	20.3	16.3	20.6	10.9	0.0	0.0	0.0	7.9	15.2	15.7	15.7	24.1
Extreme twenty-four hour total precipitation (mm)	22.6	17.3	16.3	53.6	18.0	34.8	33.8	38.4	21.6	17.0	19.6	19.3	53.6
Average number of sunshine hours	35	79	140	191	259	289	267	228	128	89	33	15	1753
Percentage of possible sunshine hours	15	30	38	45	51	55	51	49	33	27	13	7	35

Freeze free period: 55 days
Average date of last spring freeze: June 22
Average date of first autumn freeze: August 17

STATION # 19 - DEASE LAKE

Physiographic Region: 4

Latitude: 58°25' North

Longitude: 130°00' West

Elevation: 816 Metres
Period of Record: 25 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-24.1	-18.9	-13.9	-6.2	-0.7	3.5	5.8	4.7	1.4	-3.3	-12.5	-20.0	-7.0
Mean monthly maximum temperature (°C)	-14.7	-7.6	-0.4	5.9	13.4	18.0	19.4	18.2	13.3	5.9	-4.1	-11.3	4.7
Mean monthly temperature (°C)	-19.3	-13.2	-7.2	-0.1	6.4	10.8	12.6	11.4	7.4	1.3	-8.3	-15.6	-1.2
Extreme monthly minimum temperature (°C)	-51.1	-48.3	-42.8	-31.7	-11.1	-5.6	-2.2	-6.1	-15.0	-23.3	-38.9	-46.1	-51.1
Extreme monthly maximum temperature (°C)	8.9	11.7	12.8	18.9	31.7	33.9	31.7	31.1	28.9	20.6	14.4	7.2	33.9
Days with minimum temperature below 0°C	31	28	31	29	20	5	1	3	11	25	29	31	244
Mean monthly rainfall (mm)	0.8	0.3	0.5	1.3	16.8	37.6	52.8	54.1	42.9	15.7	3.0	0.5	226.3
Mean monthly snowfall (cm)	29.5	29.2	22.9	11.7	4.6	0.8	1.3	Trace	0.8	18.8	34.3	33.0	186.9
Mean monthly total precipitation (mm)	28.2	25.9	21.1	11.7	21.3	38.4	53.8	54.1	43.7	34.0	32.0	30.2	394.4
Percentage of days with measurable precipitation	42	43	29	27	29	40	42	45	50	39	43	42	39
Extreme twenty-four hour rainfall (mm)	11.7	2.5	11.2	7.4	20.1	27.9	39.9	45.7	23.1	21.3	8.6	5.6	45.7
Extreme twenty-four hour snowfall (cm)	23.4	25.7	26.2	15.5	15.2	6.4	28.7	1.8	3.6	28.2	25.9	21.8	28.7
Extreme twenty-four hour total precipitation (mm)	19.6	23.9	24.4	11.9	20.1	27.9	59.2	45.7	23.1	28.2	22.9	22.6	59.2

Freeze free period: 44 days

Average date of last spring freeze: June 29

Average date of first autumn freeze: August 13

STATION # 20 - ATLIN

Physiographic Region: 4

Latitude: 59°34' North

Longitude: 133°42' West

Elevation: 674 Metres

Period of Record: 44 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-20.4	-17.6	-12.1	-4.3	1.0	4.5	7.1	6.6	3.2	-1.5	-8.6	-14.2	-4.7
Mean monthly maximum temperature (°C)	-12.7	-7.9	-1.6	4.7	11.7	15.6	18.0	16.7	12.6	5.3	-2.4	-8.2	4.3
Mean monthly temperature (°C)	-16.6	-12.7	-6.8	0.2	6.4	10.1	12.6	11.6	7.9	1.9	-5.5	-11.2	-0.2
Extreme monthly minimum temperature (°C)	-47.8	-47.2	-39.4	-31.1	-7.2	-3.9	-1.1	-2.2	-8.9	-26.7	-33.3	-50.0	-50.0
Extreme monthly maximum temperature (°C)	7.2	10.6	10.0	16.7	26.7	30.6	30.0	27.8	26.7	18.9	13.3	9.4	30.6
Days with minimum temperature below 0°C	31	28	30	27	15	2	< 1*	1	5	20	29	30	218
Mean monthly rainfall (mm)	4.1	1.0	0.3	4.3	6.9	21.3	20.3	32.0	27.4	36.8	4.8	2.5	161.7
Mean monthly snowfall (cm)	36.1	15.0	10.4	4.3	1.3	0.0	0.0	0.0	0.5	10.2	20.3	23.4	121.5
Mean monthly total precipitation (mm)	40.1	16.0	10.7	8.6	8.1	21.3	20.3	32.0	27.9	47.0	25.1	25.9	283.0
Percentage of days with measurable precipitation	29	18	16	13	13	17	29	26	30	32	30	29	24
Extreme twenty-four hour rainfall (mm)	21.8	15.0	2.0	8.1	21.8	16.3	37.3	23.9	34.8	43.2	27.4	17.5	43.2
Extreme twenty-four hour snowfall (cm)	38.1	24.1	27.9	15.2	8.4	6.4	0.0	6.4	10.9	25.4	25.4	31.8	38.1
Extreme twenty-four hour total precipitation (mm)	38.1	24.1	27.9	15.2	24.4	16.3	37.3	23.9	34.8	43.2	27.4	31.8	43.2

* < = less than 1

Freeze free period: 83 days

Average date of last spring freeze: June 5

Average date of first autumn freeze: August 28

STATION # 21 - FORT ST. JOHN AIRPORT

Physiographic Region: 5

Latitude: 56°14' North

Longitude: 120°44' West

Elevation: 695 Metres
Period of Record: 28 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-21.6	-16.6	-11.3	-2.8	3.8	7.8	10.0	8.8	4.4	-0.3	-10.2	-17.3	-3.8
Mean monthly maximum temperature (°C)	-12.9	-7.3	-1.6	7.7	15.9	19.4	21.8	20.6	15.4	8.6	-2.8	-9.2	6.3
Mean monthly temperature (°C)	-17.2	-11.9	-6.4	2.5	9.8	13.6	15.9	14.7	9.9	4.2	-6.5	-13.3	1.3
Extreme monthly minimum temperature (°C)	-47.2	-42.2	-36.7	-28.9	-10.6	-0.6	2.8	-1.1	-10.0	-20.6	-36.1	-40.6	-47.2
Extreme monthly maximum temperature (°C)	10.6	12.8	13.9	21.7	30.0	31.7	33.3	33.3	30.0	25.6	18.3	8.9	33.3
Days with minimum temperature below 0°C	30	28	29	21	6	< 1*	0	< 1*	5	17	27	30	193
Mean monthly rainfall (mm)	0.5	0.3	0.8	6.4	25.1	61.2	62.7	52.1	29.2	11.9	2.8	0.3	253.3
Mean monthly snowfall (cm)	35.1	29.0	28.2	17.5	7.9	0.5	0.0	1.5	3.3	18.0	30.5	34.8	206.3
Mean monthly total precipitation (mm)	33.3	27.9	27.2	23.4	33.0	61.7	62.7	53.6	32.5	29.7	32.0	32.8	449.8
Percentage of days with measurable precipitation	45	43	35	27	26	37	35	29	33	29	40	42	35
Extreme twenty-four hour rainfall (mm)	8.1	2.3	6.6	19.6	26.2	80.3	56.9	48.5	24.9	15.2	12.7	2.5	80.3
Extreme twenty-four hour snowfall (cm)	19.6	18.3	31.5	20.8	47.8	8.1	0.0	13.2	10.2	34.5	19.1	28.7	47.8
Extreme twenty-four hour total precipitation (mm)	18.5	16.5	31.5	20.3	47.8	80.3	56.9	48.5	26.4	34.5	24.9	28.7	80.3
Average number of sunshine hours	73	106	159	214	280	274	300	270	174	137	81	60	2128
Percentage of possible sunshine hours	31	40	43	51	55	52	57	58	45	42	33	28	45

* < = less than 1

Freeze free period: 111 days
Average date of last spring freeze: May 20
Average date of first autumn freeze: September 9

STATION # 22 - FORT NELSON AIRPORT

Physiographic Region: 5

Latitude: 58°50' North

Longitude: 122°35' West

Elevation: 382 Metres

Period of Record: 33 years

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Mean monthly minimum temperature (°C)	-27.6	-22.4	-15.7	-5.0	3.2	8.1	10.4	8.4	3.0	-3.8	-16.3	-24.6	-6.9
Mean monthly maximum temperature (°C)	-18.8	-11.7	-2.7	7.3	16.1	20.9	23.0	21.2	14.6	6.1	-8.3	-16.9	4.2
Mean monthly temperature (°C)	-23.2	-17.1	-9.2	1.2	9.7	14.5	16.7	14.8	8.8	1.2	-12.3	-20.7	-1.3
Extreme monthly minimum temperature (°C)	-51.7	-48.3	-39.4	-34.4	-15.0	-1.1	1.1	-1.7	-11.1	-27.8	-41.1	-47.8	-51.7
Extreme monthly maximum temperature (°C)	7.2	15.0	17.8	24.4	31.7	33.9	36.7	33.9	32.8	25.6	18.3	9.4	36.7
Days with minimum temperature below 0°C	31	28	31	26	8	< 1*	0	1	7	26	30	31	219
Mean monthly rainfall (mm)	Trace	0.3	0.8	5.1	31.8	64.0	74.7	55.6	33.3	7.4	0.8	Trace	273.8
Mean monthly snowfall (cm)	30.2	26.2	27.4	19.3	5.8	Trace	0.0	Trace	5.3	19.1	29.5	28.7	191.5
Mean monthly total precipitation (mm)	26.4	24.4	24.9	21.6	37.6	64.3	74.7	55.6	38.6	25.7	26.7	25.9	446.4
Percentage of days with measurable precipitation	42	39	35	27	29	40	42	35	33	26	37	42	36
Extreme twenty-four hour rainfall (mm)	1.5	5.1	4.1	20.3	34.5	52.1	47.5	80.5	28.4	18.5	5.1	0.8	80.5
Extreme twenty-four hour snowfall (cm)	24.6	19.6	21.1	26.2	17.3	2.3	0.0	0.5	16.5	35.3	28.4	35.3	35.3
Extreme twenty-four hour total precipitation (mm)	18.5	19.6	21.1	20.3	34.5	52.1	47.5	80.5	28.4	35.3	28.4	35.3	80.5

* < = less than 1

Freeze free period: 103 days

Average date of last spring freeze: May 24

Average date of first autumn freeze: September 5