

## ACTIVITY: The Climate Regions Of Canada

The following four pages include the materials for an activity on the Climate Regions of Canada.

1. You are to find the names of the climate stations shown on the **Map**.
2. Prepare **climographs** for those cities selected using statistics from the **Data Sheet**. Each region has one sample climograph.
3. Fill in the "**Organizer**" using the information available on the climographs and the data sheet.

Note: Some of the entries on the organizer are relatively straightforward, such as **Highest Monthly Temperature, Lowest Monthly Temperature, Average Annual Temperature, Total Precipitation, & Season of Most Precipitation**. For the remaining entries, follow the instructions below:

**Temperature Range** - the method of determining the range is to subtract the lowest month (temperature) from the highest month during the year, remembering that subtracting a negative (i.e. subtracting -8 C from 15 C) means it is added to the temperature of the highest month.

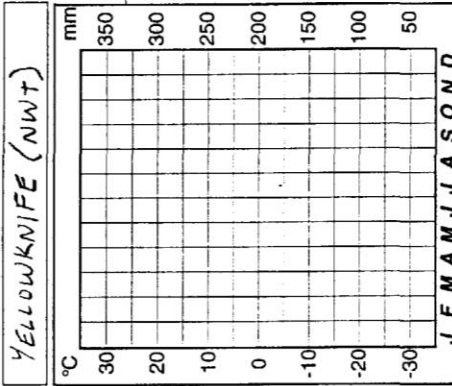
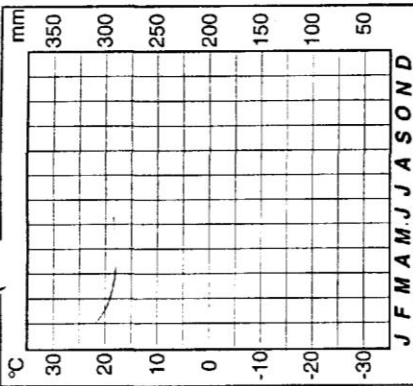
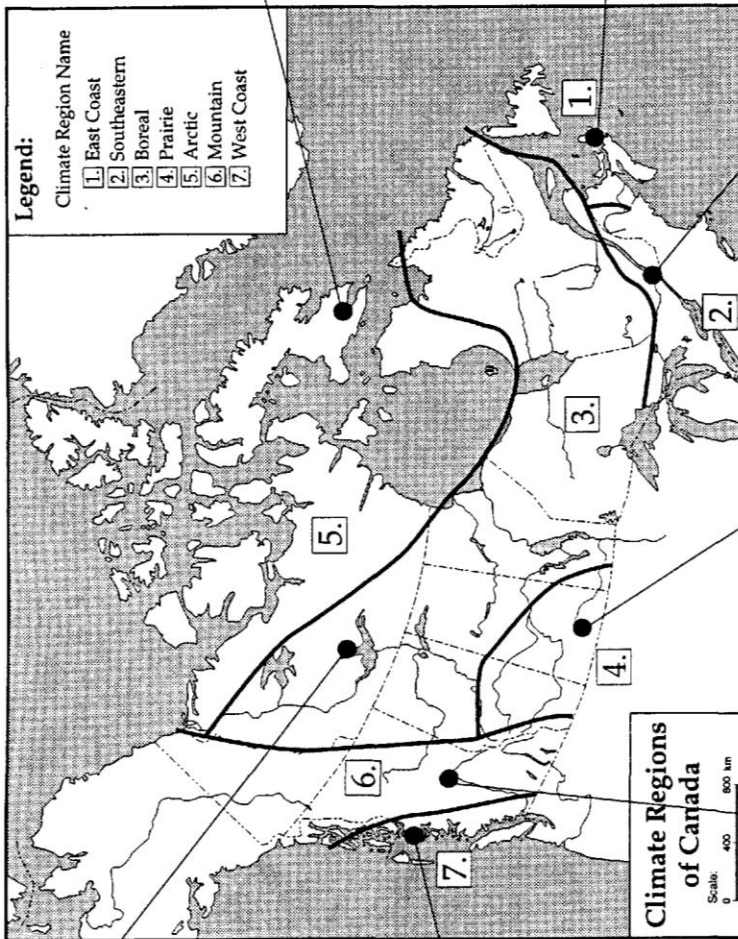
**Snowfall Equivalent** - can be estimated by taking each month with a temperature at or below 0 C and multiplying the monthly precipitation by 10 to get snowfall equivalent (i.e. 10mm of precipitation = 100mm snowfall).

**Length of Growing Season** - can be estimated by taking each month with an average temperature of 6 C or more and tallying the days this would represent, depending on how many days there are in each month.

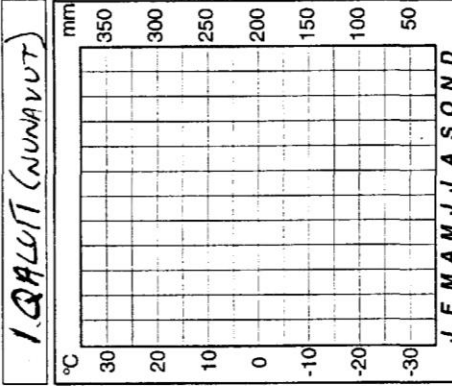
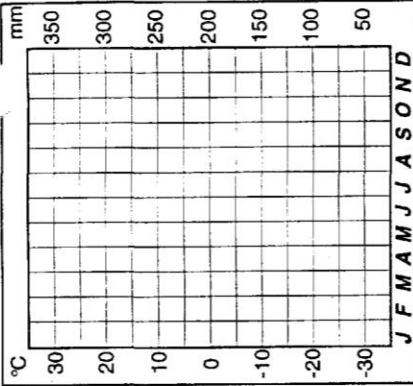
**Classification** - can be worked out using the information in the textbook page 13 (Climate Region Classifications). Just identify the climate regions for each of locations listed.

Location	Height (m)		J	F	M	A	M	J	J	A	S	O	N	D	Annual	Temp Range
Montreal Quebec	57	°C mm	-8.9 80	-7.6 71	-1.4 75	6.7 77	13.6 75	19.1 87	21.6 93	20.4 92	15.8 87	10.1 79	2.9 93	-5.7 91	7.2 1000	
Saint John N.B.	36	°C mm	-6.5 126	-5.7 114	-1.2 98	4.3 100	9.5 103	13.6 94	16.7 90	16.3 100	13.8 100	9.1 105	3.7 145	-3.3 132	5.9 1307	
Sydney N.S.	60	°C mm	-4.4 137	-5.5 119	-2.4 119	2.2 95	7.7 100	13.0 81	17.9 78	17.8 100	13.9 99	8.9 112	4.2 161	-1.5 140	6.0 1341	
Yarmouth N.S.	41	°C mm	-2.7 141	-2.9 116	0.2 102	4.6 99	9.3 101	13.3 87	16.4 74	16.4 96	13.9 86	9.8 108	5.4 139	-0.2 134	7.0 1283	
Charlottetown P.E.I.	57	°C mm	-6.7 98	-7.2 82	-3.2 76	2.3 75	8.6 80	14.1 79	18.4 74	17.9 90	13.9 92	8.6 99	3.3 115	-3.6 110	5.6 1060	
Iqaluit NONAVUT	207	°C mm	-26.2 24	-25.2 28	-22.3 21	-14.2 22	-3.3 23	3.5 38	7.9 53	6.9 58	2.4 43	-4.7 42	-12.4 37	-20.3 26	-9.0 415	
Yellowknife N.W.T.	208	°C mm	-28.6 14	-25.7 12	-18.6 12	-7.8 10	4.0 14	12.2 17	16.0 33	14.1 36	6.8 28	-1.2 31	-14.2 24	-23.8 18	-5.6 249	
Regina Sask.	574	°C mm	-17.3 18	-14.3 17	-8.3 18	3.3 23	10.6 41	15.3 83	18.9 58	17.9 50	11.6 36	5.3 19	-5.2 18	-12.9 16	2.1 397	
Saskatoon Sask.	501	°C mm	-18.7 18	-15.1 18	-8.7 17	3.3 21	10.6 34	15.4 57	18.8 53	17.4 45	11.3 33	5.0 19	-5.8 19	-14.0 18	1.6 352	
The Pas Man.	272	°C mm	-22.4 18	-18.3 16	-11.4 21	0.4 25	7.7 38	14.0 59	17.9 72	16.3 62	10.2 55	3.8 31	-7.5 29	-17.4 23	-0.6 449	
Winnipeg Man.	240	°C mm	-18.3 24	-15.7 19	-8.1 26	3.3 37	10.6 57	16.5 80	19.7 80	18.7 74	12.6 53	6.6 35	-4.4 27	-13.7 23	2.3 535	
Kapuskasing Ont.	229	°C mm	-18.2 53	-15.8 48	-9.1 54	0.7 51	7.8 79	14.1 85	17.0 96	15.5 92	10.7 92	5.3 78	-4.1 87	-14.2 56	0.8 871	
Ottawa Ont.	126	°C mm	-10.9 60	-9.5 57	-3.1 61	5.6 68	12.4 70	18.2 73	20.7 81	19.3 82	14.6 79	8.7 66	1.4 78	-7.7 77	5.8 852	
Prince Rupert B.C.	52	°C mm	1.8 214	2.7 209	3.7 180	6.2 184	9.6 123	11.8 107	13.6 121	13.9 147	12.0 242	8.7 359	5.1 269	2.9 259	7.7 2414	
Prince George B.C.	676	°C mm	-11.8 59	-6.2 43	-2.1 32	3.9 30	9.4 42	13.0 58	14.9 58	13.7 73	9.8 56	4.7 61	-2.8 55	-7.6 54	3.2 621	

Climate Regions of Canada

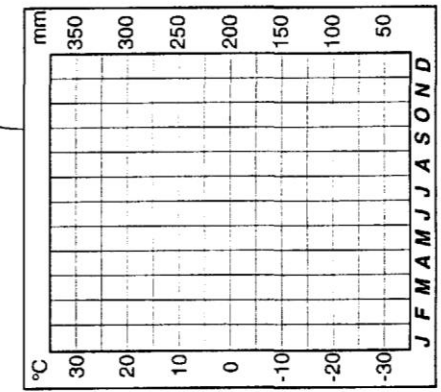


YELLOWKNIFE (NWT)

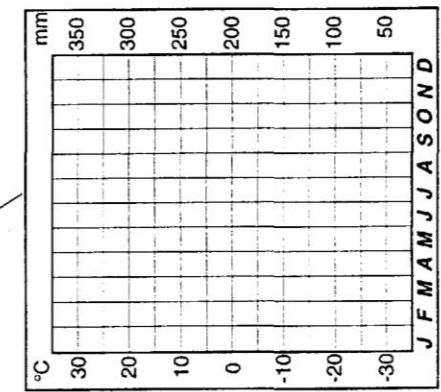


IQALUIT (NUNAVUT)

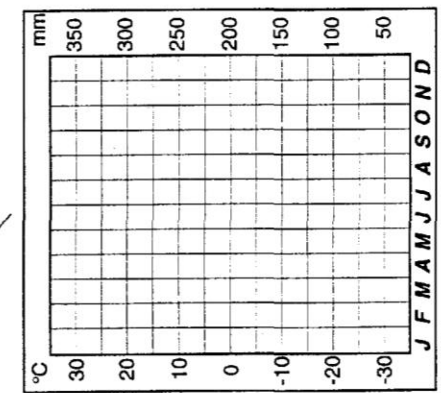
PRINCE RUPERT  
(B.C.)



PRINCE GEORGE (B.C.)

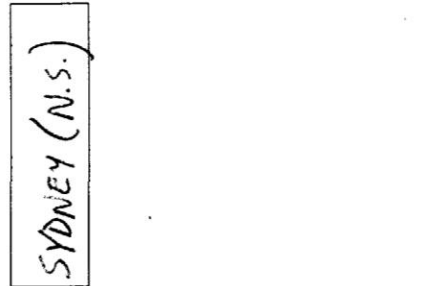


REGINA (SASK.)



MONTREAL (P.Q.)

SYDNEY (N.S.)



**Organizer**

**Climate Comparison of Selected Canadian Cities**

	Iqaluit	Montreal	Regina	Prince George	Prince Rupert	Yellowknife	Sydney
Highest Monthly Temperature							
Lowest Monthly Temperature							
Temperature Range							
Average Annual Temperature							
Total Precipitation							
Snowfall Equivalent							
Season of Most Precipitation							
Length of growing season							
Classification							

**Step 1:** Identify the cities marked on the Climate Regions of Canada map and place their names in the rectangles below each of the blank climographs surrounding the map.

**Step 2:** Neatly draw in the temperature (line) and precipitation (bar) amounts for each city using the blank climographs and the statistics from the Climate Data Sheet.

**Step 3:** Study the climographs and then write a paragraph for each station. Each paragraph should briefly describe the characteristics of the climate. Within each paragraph also indicate if the station is classified as one of the following: dry climate, highland climate, humid continental, tundra, subarctic, or humid maritime. Consult your textbook for the meaning of these terms.