

NORTHEAST COAL STUDY CORE AREA RESOURCE PLANNING FRAMEWORK



BROAD CLIMATIC ZONATION

GENERALIZED SUMMARY OF CLIMATIC DATA
COLLECTED DURING THE PERIOD 1976-12-01 TO 1977-11-30
(Excluding Snowpack - Data for 1978-02-15)

Climatic Region	Mean Annual Temperature (°C)	Annual Precipitation (mm)	May to September Precipitation (mm)
1	1.0-3.5	480- 750	380- 535
2	1.0-4.0	675-1065	425- 585
3	2.0-4.5	450- 635	330- 450
4	0.0-2.0	1000-1600	500- 650
5	3.0-4.5	450- 800	385- 560
6	(-)0.5-3.0	890-1525	380- 760

SUMMARY Continued

Climatic Region	Growing-degree Days (°C)	Freeze-free Period (days)	Depth of 1978-02-15 Snowpack (cm)
1	530- 945	15- 100	90- 145
2	580- 930	50- 100	95- 160
3	750-1265	50- 95	65- 115
4	415- 670	30- 80	190- 340
5	780-1365	75- 95	65- 195
6	335- 700	15- 80	125- 300

GENERALIZED COMPARISON BETWEEN THE 1976-12 TO 1977-11 PERIOD
AND THE LONG-TERM PERIOD AT DAWSON CREEK
(Except Snowpack)

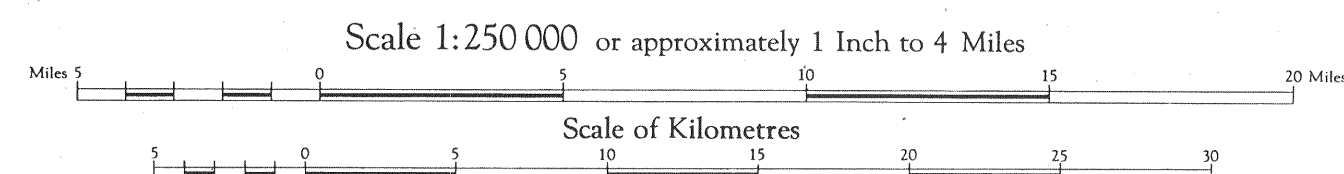
- Mean Annual Temperature (°C) - Value for data period was 3.5°C warmer than long-term annual average at Dawson Creek
- Annual Precipitation (mm) - Data period witnessed 22% more precipitation than long-term annual average at Dawson Creek
- May to September Precipitation (mm) - Data period witnessed 60% more precipitation than long-term average at Dawson Creek
- Growing-degree Days (°C) - Values for data period were similar to long-term average at Dawson Creek
- Freeze-free Period (days) - Duration for data period was approximately 15 days longer than long-term average at Dawson Creek
- Depth of 1978-02-15 Snowpack (cm) - Compared to Water Resources Service snowcourse data, there was approximately 35% less snowpack on this date than long-term averages indicate.

Notes

- The tabulated data are based on one year of climatic observations at stations in each of the six broad climatic regions. Data are generalized to indicate characteristic values and ranges.
- One year of data is insufficient for a satisfactory climatic regionalization of the Study Area, and this map is to be regarded as highly preliminary. During 1980, a four-year program of observations will be completed for the climate station network in the Study Area. Analysis will then begin, and this map will eventually be superseded by maps which present reasonably reliable long-term climatic data, probably in 1981.
- There is no intention to imply that all of the values in the table can be adjusted to the long term through comparison with values for Dawson Creek. It may be said, however, that in the Study Area, the 1976-12 to 1977-11 period was warmer (especially during the winter months) and experienced more precipitation (especially during the summer months) than Dawson Creek.
- The snowpack records indicate unexpectedly shallow snow depths on 1978-02-15.

Source: Air Management Branch, Ministry of Environment, 1980-01-11.

Base map provided by Surveys and Mapping Branch,
Ministry of Environment, Victoria, B.C. Contains
portions of NTS sheets 93 I and P.
Contour interval 500 feet



Map 8

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