

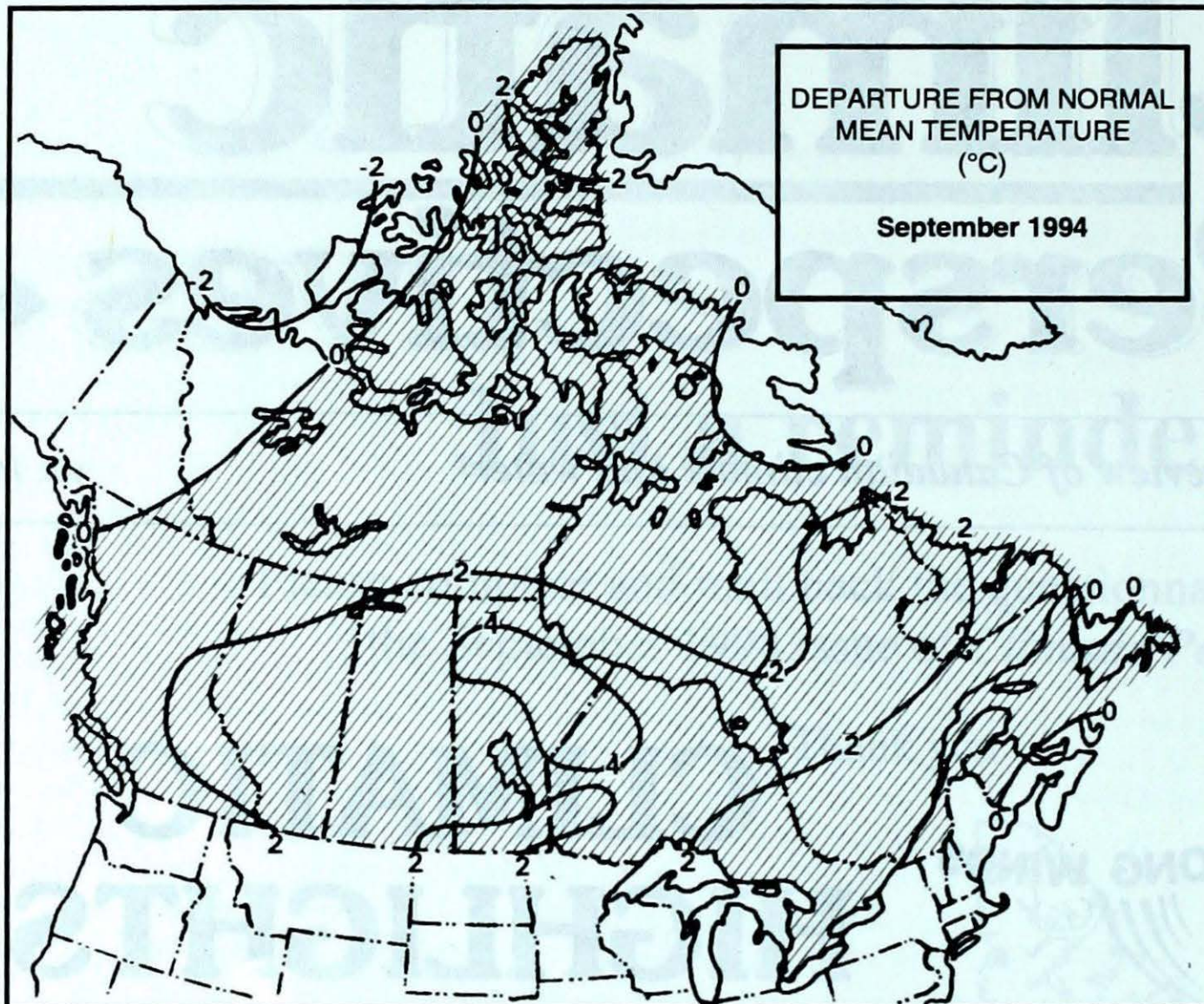


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September 1994



CLIMATIC PERSPECTIVES
VOLUME 16



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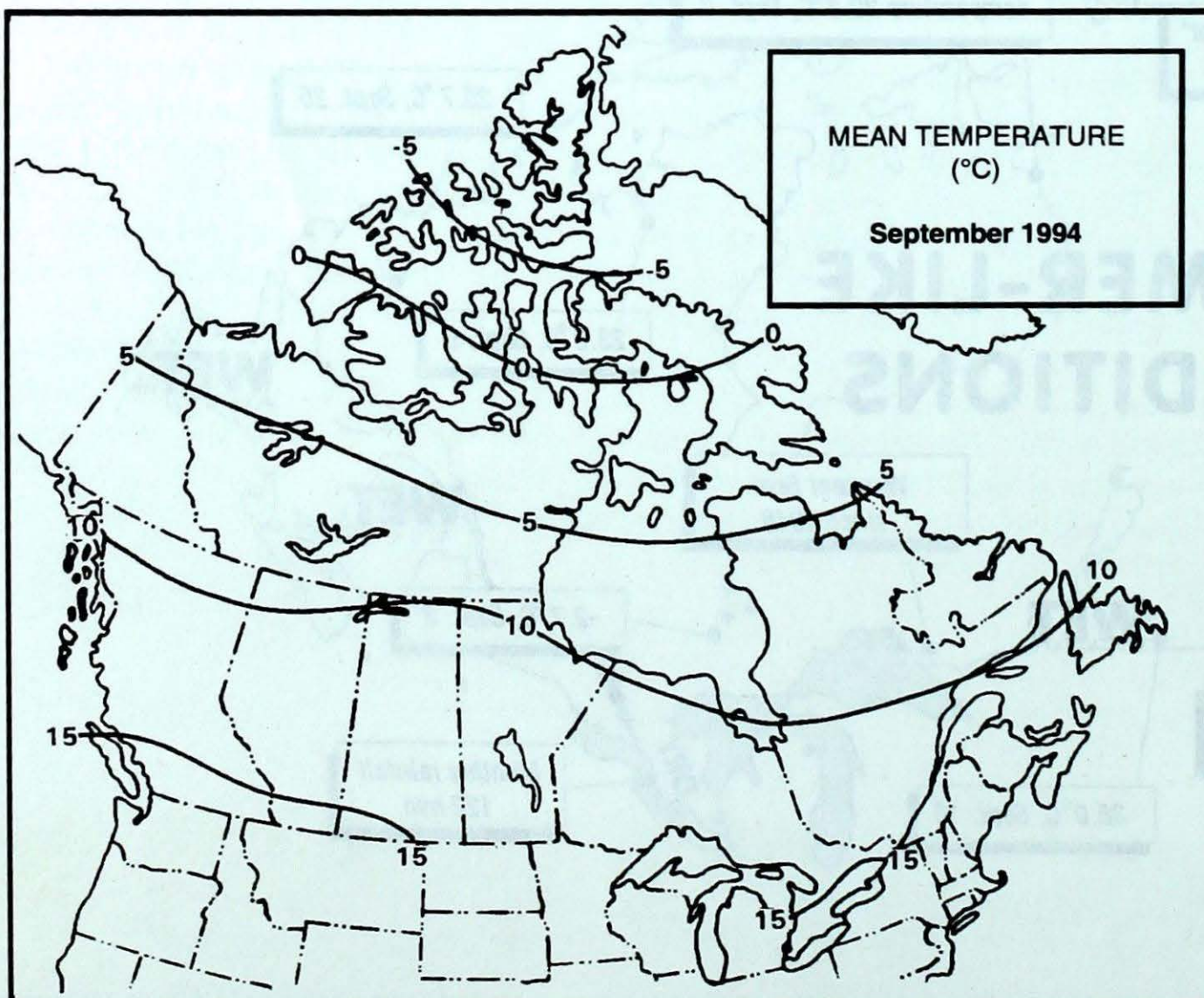
The purpose of the publication is to make topical information available to the public concerning the Canadian climate and its socio-economic impact.

The data in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of Atmospheric Environment Service.

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Across the country

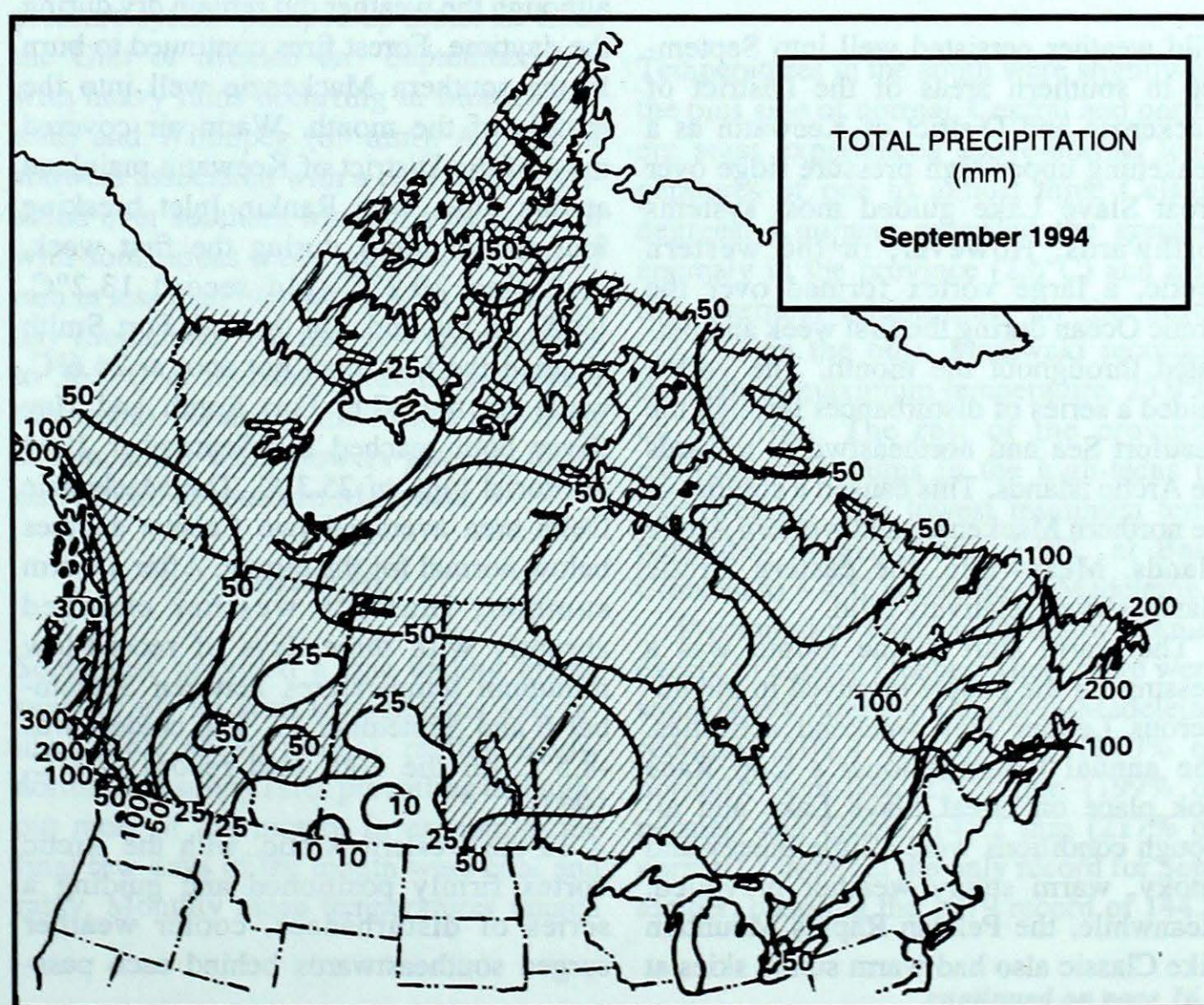
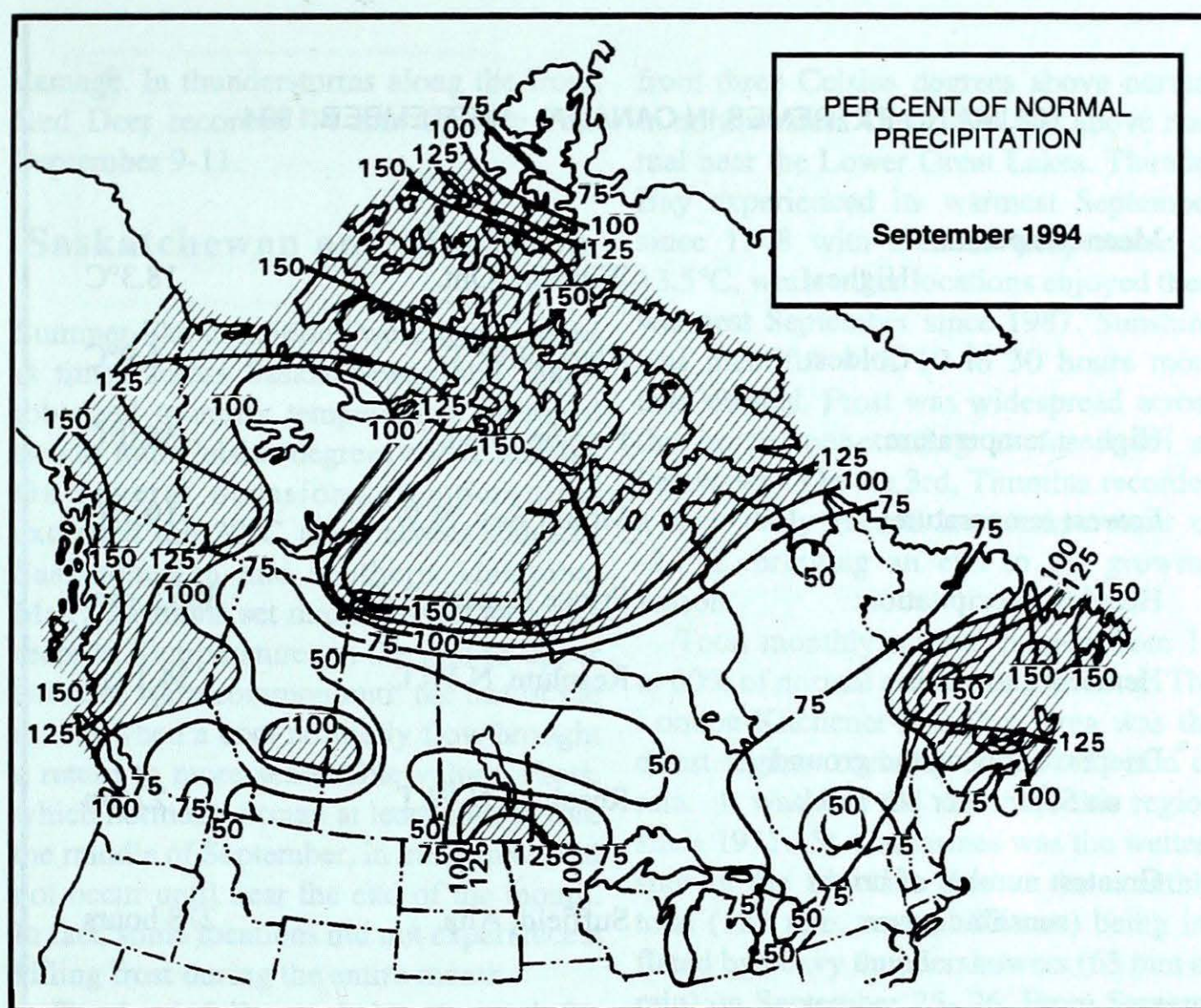
Yukon

Memories of the hottest month on record (August 1994) were fresh on everyone's minds as September dawned across the Yukon. Hopes were high that the good weather would continue into the fall. It was not to be. On average, September turned out to be colder and wetter than normal and signs of winter appeared in the north.

Temperatures averaged below normal in all but the extreme southeast corner of the territory. The northern Yukon averaged two to three Celsius degrees below normal. The monthly mean temperature at both Eagle Plains and Ogilvie was a mere 0.4°C. The coldest temperature recorded was -16.1°C at Old Crow on the 26th. All stations in the Yukon recorded at least one hard frost with a low of -4°C or lower. Whitehorse dropped to -1.1°C on the 3rd, ending the frost-free period, but managed to establish a record 97 days without frost, breaking the old record set in 1993 (96 days).

Across the central and southern Yukon, temperatures averaged 0.5 to two degrees below normal. The only exception was the narrow corridor along the Alaska Highway from Haines Junction to Beaver Creek. There, temperatures averaged from near normal to one degree above normal. It is a rarity in the Yukon in the month of September when temperatures fail to reach the 20°C mark. This September was one of the rare ones as the warmest temperature was only 18.1°C at Dawson on the 3rd. All other stations recorded a monthly high between 15 and 18°C.

A seemingly-endless series of Pacific storms tracked through northern British Columbia and the southern Yukon, resulting in above-average precipitation across the southern half of the territory. The southeastern Yukon received over 150% of normal precipitation. Teslin had 185% of normal and was the wettest location (88.9 mm). The driest area (65 to 85% of normal) was along the Dempster Highway from Eagle Plains to Dawson and then south to Carmacks. Old Crow was the snowiest location (27 cm) and with high winds, poor visibility was recorded on more than one occasion. All stations recorded at least a trace of snow. The moun-



CLIMATIC EXTREMES IN CANADA - SEPTEMBER 1994

| | | |
|--|---------------------|-----------|
| Mean temperature: | | |
| Highest | Windsor, Ont. | 18.3°C |
| Coldest | Alert, N.W.T. | -6.9°C |
| Highest temperature: | Pierson, Man. | 36.0°C |
| Lowest temperature: | Mould Bay, N.W.T. | -19.7°C |
| Heaviest precipitation: | Prince Rupert, B.C. | 386.5 mm |
| Heaviest snowfall: | Resolute, N.W.T. | 54.1 cm |
| Deepest snow on the ground on September 30, 1994: | Resolute, N.W.T. | 22 cm |
| Greatest number of bright sunshine hours: | Suffield, Alta. | 278 hours |

tain tops were dusted with snow across the southern Yukon and were well-covered in central and northern areas by the end of the month.

Northwest Territories

Mild weather persisted well into September in southern areas of the District of Mackenzie and District of Keewatin as a weakening upper high pressure ridge over Great Slave Lake guided most systems northwards. However, in the western Arctic, a large vortex formed over the Arctic Ocean during the first week and persisted throughout the month. The vortex guided a series of disturbances through the Beaufort Sea and northeastwards towards the Arctic islands. This caused a cooling of the northern Mackenzie and western Arctic islands. Meanwhile, the eastern Arctic islands stayed relatively mild.

The warm start to the month was a blessing for the people involved in the numerous Labour Day weekend activities. The annual Commissioner's Cup Race took place on Great Slave Lake and although conditions were a little breezy and smoky, warm sunny weather prevailed. Meanwhile, the Pelican Rapids Mountain Bike Classic also had warm sunny skies at

Fort Smith. Farther north, Dizzy Daze in Aklavik was warm and sunny until Sunday evening, when a cold front swept over the Mackenzie Delta. Unfortunately, Coppermine remained cloudy and cool for the Labour Day Weekend Fishing Derby, although the weather did remain dry during the daytime. Forest fires continued to burn in the southern Mackenzie well into the middle of the month. Warm air covered most of the District of Keewatin mainland at this time, with Rankin Inlet breaking four record highs during the first week, including 20.2°C (old record 13.2°C, 1988) on the 2nd. On the 3rd, Fort Smith claimed the Canadian hot spot at 24.6°C, while on the 17th, Fort Smith and Hay River both reached the September 1994 territorial high of 25.3°C. The Mackenzie Delta area averaged two Celsius degrees below normal for the month. After a warm summer, Inuvik's weather changed abruptly with three days of record-low minimum temperatures between September 6 and September 11. The coldest was -8.5°C on the 10th (old record -7.8°C, 1963).

In the western Arctic, with the Arctic vortex firmly positioned and guiding a series of disturbances, cooler weather surged southeastwards behind each pass-

ing cold front. Mould Bay cooled steadily to -19.7°C by the 28th. These Arctic storms produced very strong winds over the Arctic islands, especially Ellesmere Island. From September 25-27, high winds and blizzard conditions covered a large area from Ellesmere Island to the Melville Peninsula. Alert recorded gusts to 140 km/h.

The District of Keewatin also had its share of winds. Baker Lake recorded gusts to 90 km/h on the 19th, as did Coral Harbour on the 29th. As these storms approached Baffin Island (District of Franklin), Iqaluit received 10 to 12 cm of snow on two separate occasions. Cape Dorset had a blizzard on the 16th. On the 27th, the school in Clyde River was closed due to flying debris caused by winds gusting over 100 km/h. By month's end in the High Arctic, low temperatures were in the -10 to -15°C range. Resolute Bay had 22 cm of snow on the ground on the 30th.

British Columbia

The month began on an unsettled note across the province but improved later in the month. The monthly statistics were quite variable. Above-average temperatures, below-average precipitation and below-average sunshine predominated. Sunshine totals were 65 to 90% of average in the north, near 105% on the coast and 120 to 130% in the interior.

In the south, temperatures were two to three Celsius degrees above average in the interior dropping to one to two degrees above on the coast and slightly-below average in the northwest. New monthly mean temperatures were established at Blue River (12.9°C, old record 12.7°C, 1990), Cape Scott (15.9°C, old record 14.9°C, 1967), Kelowna (16.0°C, old record 15.9°C, 1987) and Revelstoke (15.0°C, old record 14.7°C, 1987, 1990). On the 24th, Prince George set a daily record-maximum temperature of 25.4°C (old record 24.4°C, 1974), while in the south, Lytton recorded 31.1°C.

Precipitation was 125 to 165% of average in most southern coastal areas. In exception were a small area in the central Strait of Georgia, central Vancouver Island and the eastern Fraser Valley where values were near 75% of average. In the interior, totals ranged from 40% of average to just above average at Prince George. Cran-

brook, however, reported only 11% of normal. In the north, east of the Rocky Mountains, values were 70 to 85%, rising to 150 to 175% in western and coastal sections. Prince Rupert recorded 237.8 mm of rain from September 12-18. Drier weather in the middle of the month allowed harvesting in the Peace River region to resume after unsettled weather early in the month. Snow occurred at higher elevations in the south on the 9th, causing several traffic accidents. Close to 30 cm of snow fell along the Alaska Highway at Summit Lake, September 30-October 1.

Alberta

Temperatures were two to three Celsius degrees above normal across all but the northwest portions of the province. The central and northern areas of the province frequently experienced a seesaw of warming and cooling trends. Temperatures climbed well into the twenties on a few occasions and even into the low thirties. Medicine Hat recorded 30.6°C on the 8th. Fort McMurray set a daily record of 29.2°C on the 17th (old record 27.8°C, 1951). Warm Pacific air allowed daily record-maximum temperatures on September 22 that included Edmonton International (29.0°C, old record 27.8, 1987), Lloydminster (28.1°C, old record 28.9), and Calgary (29.0°C, old record 28.7, 1987). On the 23rd, Lethbridge recorded 31.7°C, (old record 31.1°C, 1949). In contrast, rain and wet snow hit central areas on the 30th with temperatures cooling to maximums of 5 to 10°C. Meanwhile, a small area in the southeast was still warm, including Lethbridge, which recorded a maximum of 26.3°C. The first general frost didn't occur until the 21st from the Peace River area to Lethbridge.

Precipitation totals were below normal across the south with the exception of Grande Prairie, 110% of normal and the Red Deer/Edmonton area (141 to 178% of normal). Red Deer recorded 36 mm of rain September 3-4. Unstable air along a cold front near Trochu (100 km northeast of Calgary) provided the right conditions for the formation of an F-0 tornado on the 9th. This was Alberta's only tornado of the month and fortunately there was no

damage. In thunderstorms along the front, Red Deer recorded 44 mm of rain from September 9-11.

Saskatchewan and Manitoba

Summer-like conditions were experienced at times across Saskatchewan and Manitoba and monthly temperatures averaged two to four Celsius degrees above normal. On several occasions, temperatures exceeded the 30°C mark across southern Saskatchewan and southern Manitoba. Many locations set maximum temperature records. Temperatures in the mid-to-upper twenties were common until the last of the month when a cool northerly flow brought a return to more seasonable values. Frost, which normally occurs at least once before the middle of September, in most areas, did not occur until near the end of the month. In fact, some locations did not experience a killing frost during the entire month.

Total rainfall was below normal for most areas. In parts of southern Saskatchewan it was less than half the normal amount. Saskatoon, Saskatchewan, experienced its driest September in over 100 years, receiving only 0.8 mm of precipitation over the entire month. Southern Manitoba, however, received more than normal precipitation (near 130% of normal). A low pressure system pumped up moist air from the Gulf of Mexico on September 3-4, with heavy rains occurring in Morden (69 mm) and Winnipeg (63 mm). A band of showers associated with a cold front intensified over southern Manitoba on the 11th with some areas receiving over 30 mm of rain in less than two hours. This followed a day (September 10) that saw temperatures to 36.0°C at Pierson, (extreme southwest Manitoba). Again, on the 15th, a cold front accompanied with showers gave up to 25 mm of rain to southern Manitoba.

Ontario

September provided a fine ending to the summer of '94 with temperatures averaging a little above normal, rainfall below normal and sunny skies prevailing throughout most of the month. In exception, the final few days of the month were cool and rainy. Monthly mean temperatures ranged

from three Celsius degrees above normal in northwestern Ontario to just above normal near the Lower Great Lakes. Thunder Bay experienced its warmest September since 1948 with a mean temperature of 13.5°C, while other locations enjoyed their warmest September since 1987. Sunshine was plentiful with 10 to 30 hours more than normal. Frost was widespread across the north, penetrating as far south as Petawawa. On the 3rd, Timmins recorded a new daily record-low temperature of -2.7°C, bringing an end to the growing season.

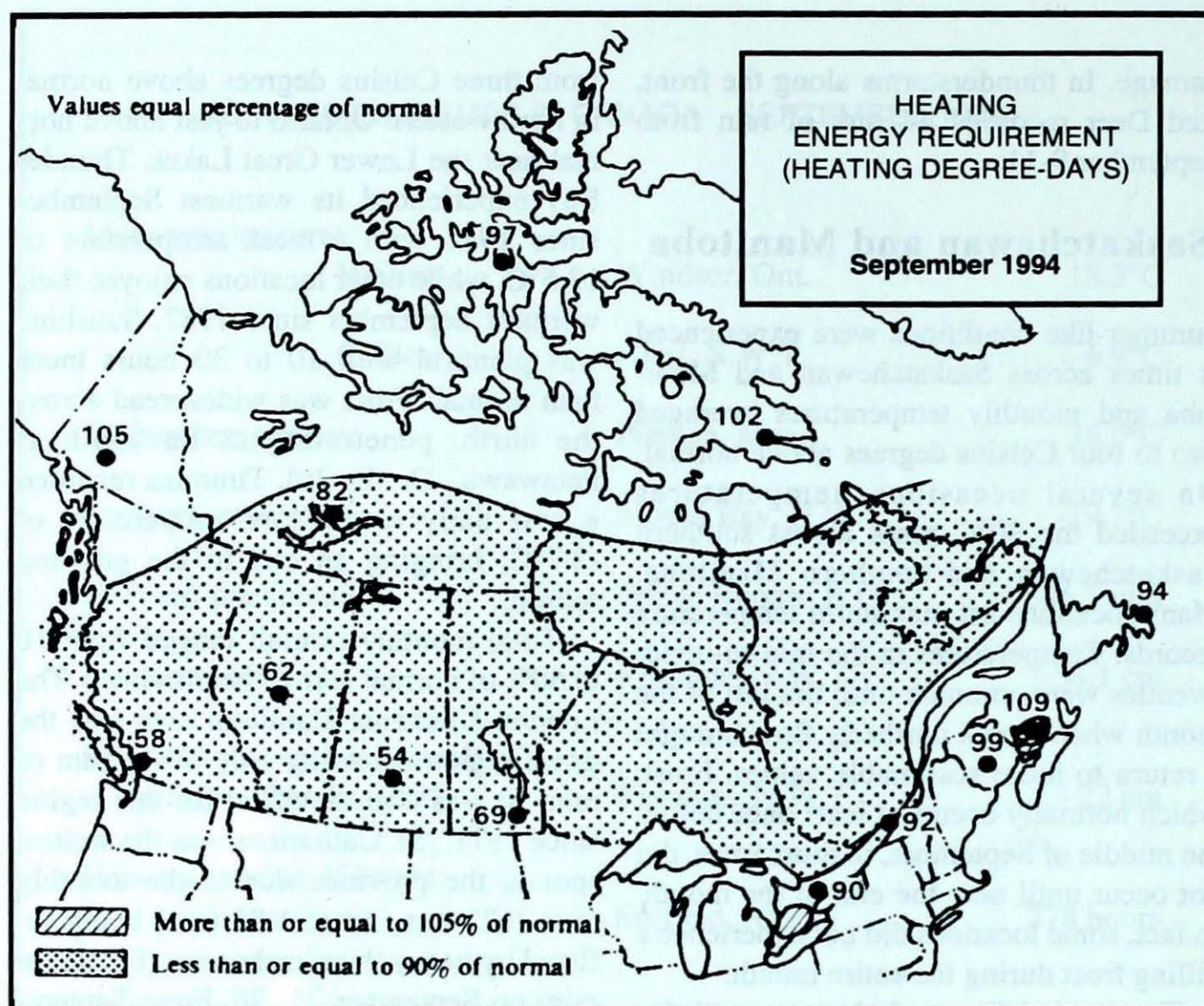
Total monthly rainfall ranged from 10 to 60% of normal across the province. The London-Kitchener-Hamilton area was the driest region receiving only 30-35 mm of rain. It was also the driest for this region since 1971. St. Catharines was the wettest spot in the province due to the monthly total (122 mm, normal 80 mm) being inflated by heavy thundershowers (63 mm of rain) on September 25-26. From September 27-29, St. Catharines recorded another 53 mm of rain. The September 25-26 storm, on an easterly track over Lake Ontario, generated some of the most intense lightning that residents in the Oshawa area had ever seen.

Quebec

Temperatures in the south were slightly on the plus side of normal. Central and northern areas experienced above-normal temperatures of one to almost three Celsius degrees. Kuujuaq recorded the greatest anomaly in the province (2.6°C) and also the warmest temperature in the north (23.2°C on the 6th). Maniwaki recorded the highest maximum temperature, 25.9°C on the 16th. The rest of the province recorded maximums in the high-teens to low-twenties. The lowest minimum temperatures ranged from -1.9°C at Baie Comeau to 4.4°C at Îles-de-la-Madeleine.

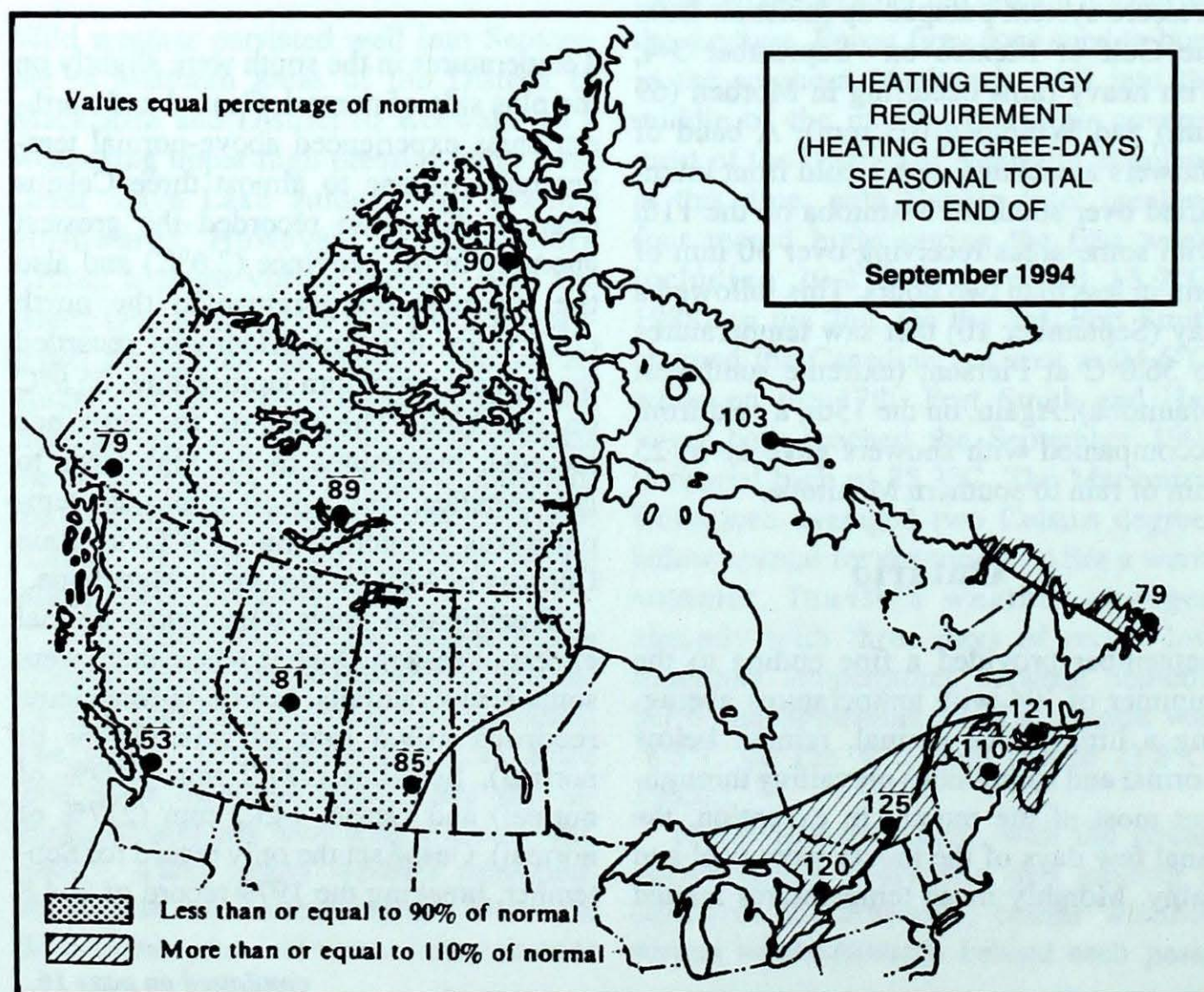
Precipitation totals were below normal except in eastern Quebec where there were some heavy rainfalls. Îles-de-la-Madeleine recorded 109.4 mm of rain (140% of normal), Sept-Îles, 221.7 mm (199% of normal) and Gaspé, 145.2 mm (217% of normal). Gaspé set the only record for September, breaking the 1979 record of 144.8

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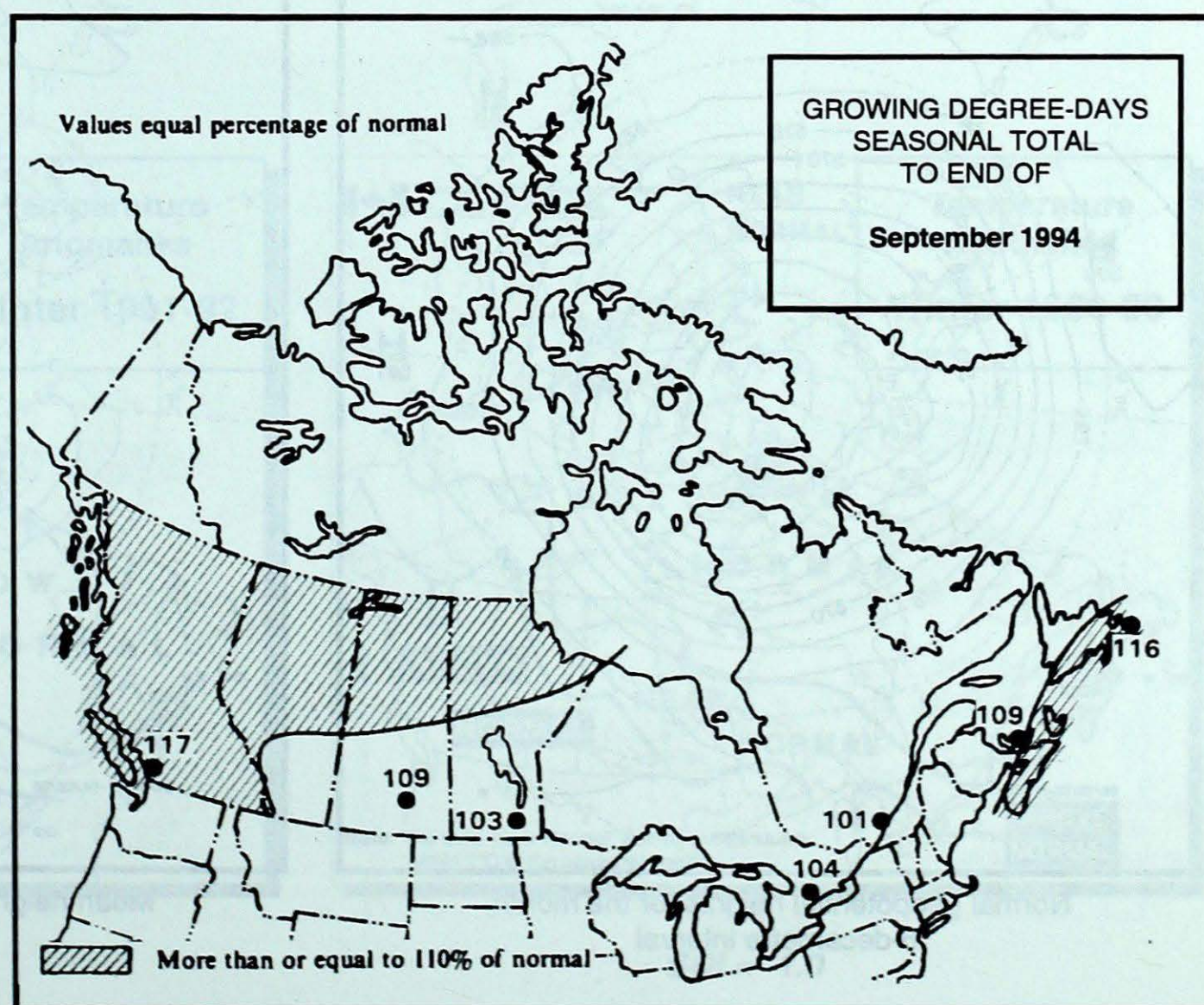
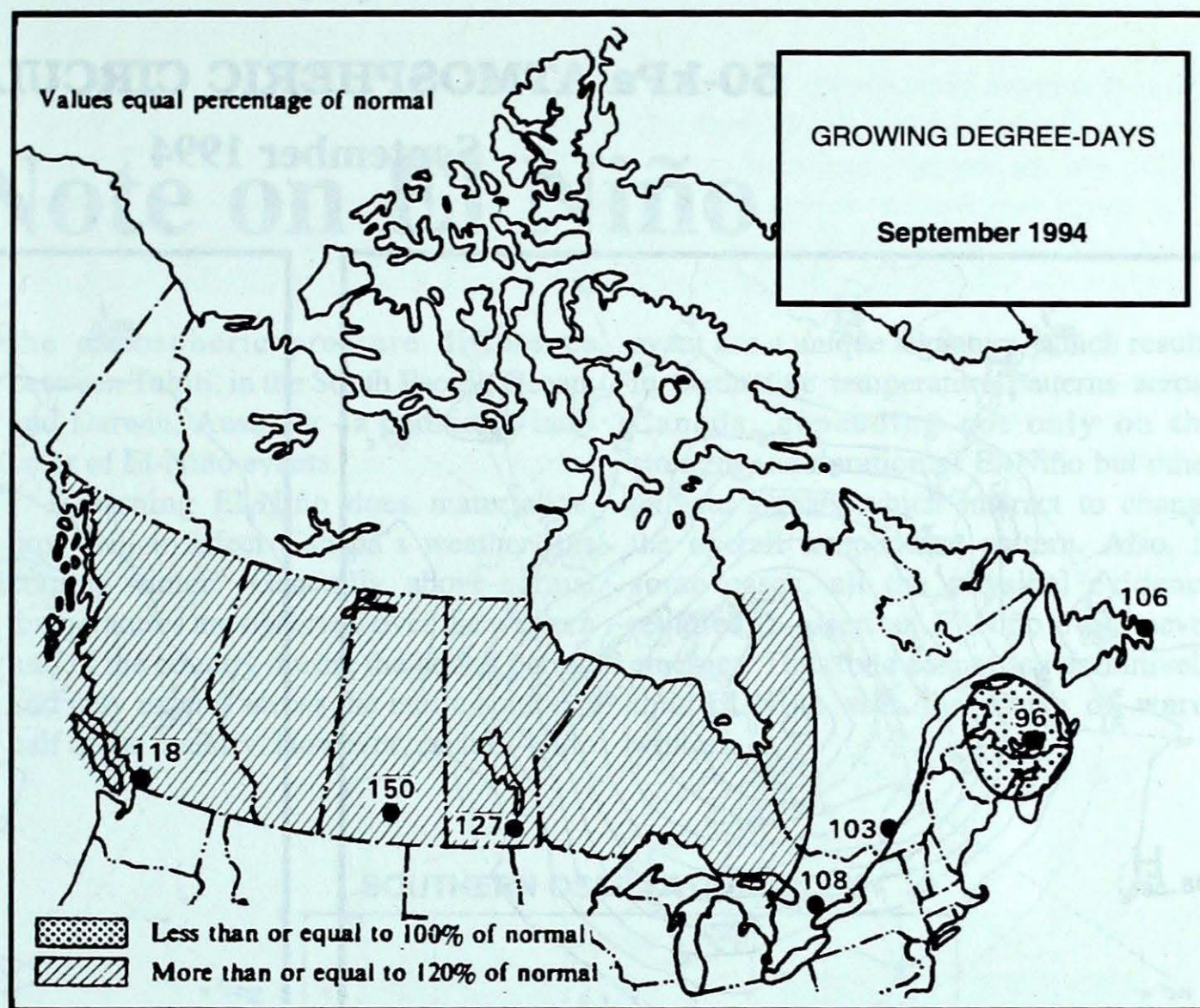
SEASONAL TOTAL OF HEATING DEGREE-DAYS TO END OF SEPTEMBER

| | 1994 | 1993 | NORMAL |
|----------------------------------|------|------|--------|
| BRITISH COLUMBIA | | | |
| Kamloops | 45 | 105 | 96 |
| Penticton | 58 | 142 | 104 |
| Port Hardy | 341 | 398 | 455 |
| Vancouver | 89 | 175 | 167 |
| Victoria | 145 | 244 | 239 |
| YUKON TERRITORY | | | |
| Whitehorse | 481 | 563 | 611 |
| NORTHWEST TERRITORIES | | | |
| Iqaluit | 1176 | 1200 | 1138 |
| Inuvik | 635 | 703 | 813 |
| Yellowknife | 356 | 555 | 515 |
| ALBERTA | | | |
| Calgary | 299 | 497 | 361 |
| Edmonton Mun. | 232 | 350 | 287 |
| Grande Prairie | 322 | 433 | 414 |
| SASKATCHEWAN | | | |
| Estevan | 199 | 359 | 175 |
| Regina | 178 | 369 | 210 |
| Saskatoon | 236 | 410 | 238 |
| MANITOBA | | | |
| Brandon | 264 | 403 | 221 |
| Churchill | 657 | 834 | 780 |
| Dauphin | 258 | 370 | 237 |
| Winnipeg | 213 | 298 | 177 |
| ONTARIO | | | |
| Kapuskasing | 365 | 384 | 364 |
| London | 122 | 164 | 80 |
| Ottawa | 127 | 455 | 113 |
| Sudbury | 230 | 257 | 203 |
| Thunder Bay | 282 | 358 | 276 |
| Toronto | 96 | 149 | 80 |
| Windsor | 48 | 99 | 35 |
| QUEBEC | | | |
| Baie Comeau | 424 | 434 | 424 |
| Montréal | 125 | 131 | 100 |
| Québec | 216 | 185 | 188 |
| Sept-Îles | 481 | 493 | 471 |
| Sherbrooke | 252 | 229 | 253 |
| Val-d'Or | 360 | 355 | 335 |
| NEW BRUNSWICK | | | |
| Fredericton | 173 | 177 | 156 |
| Moncton | 198 | 216 | 177 |
| NOVA SCOTIA | | | |
| Sydney | * | * | 173 |
| Yarmouth | 174 | 180 | 237 |
| PRINCE EDWARD ISLAND | | | |
| Charlottetown | 194 | 225 | 161 |
| NEWFOUNDLAND AND LABRADOR | | | |
| Gander | 315 | 451 | 321 |
| St. John's | 282 | 472 | 357 |



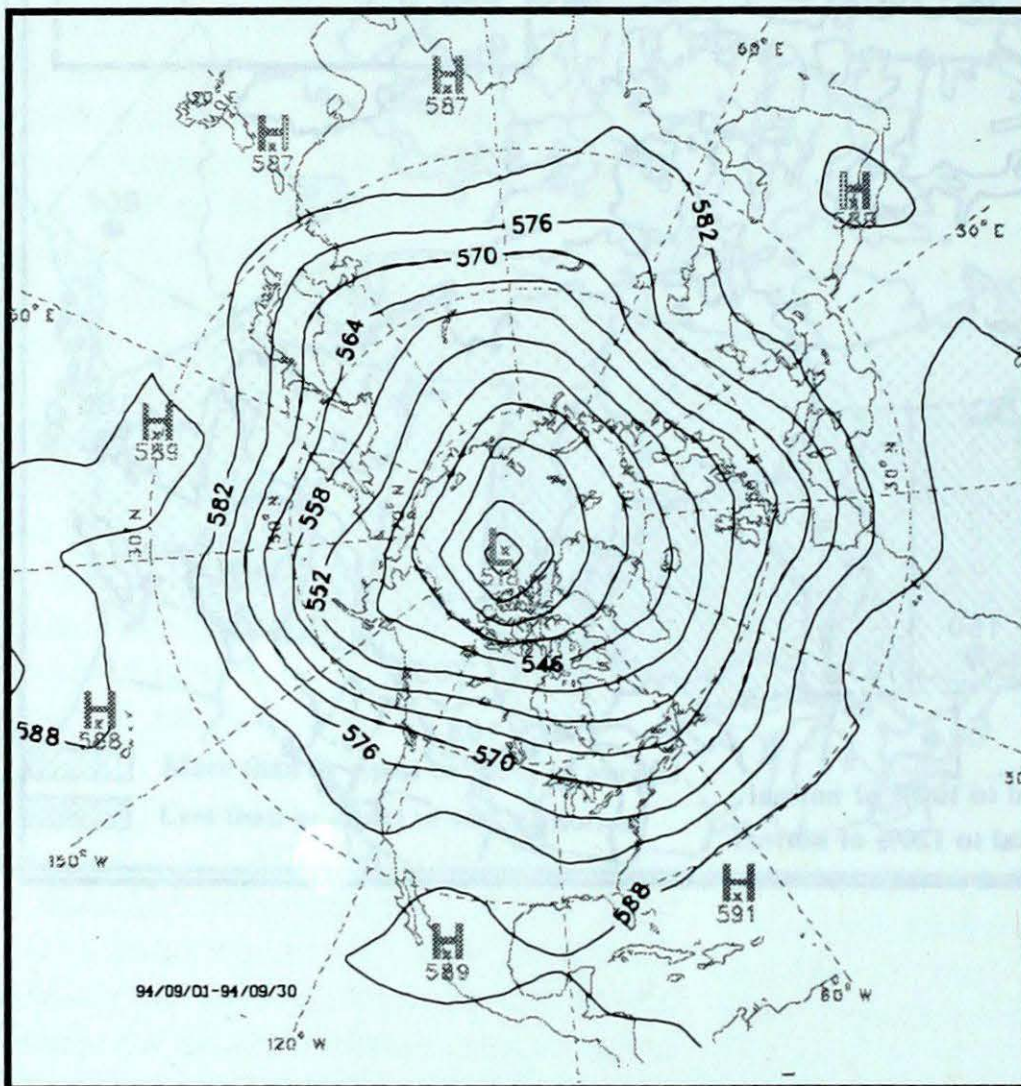
SEASONAL TOTAL OF GROWING DEGREE-DAYS TO END OF SEPTEMBER

| | 1994 | 1993 | NORMAL |
|--------------------------------------|------|------|--------|
| BRITISH COLUMBIA | | | |
| Abbotsford | 2010 | 1762 | 1644 |
| Kamloops | 2293 | 1923 | 2001 |
| Penticton | 2232 | 1918 | 1946 |
| Prince George | 1407 | * | 1112 |
| Vancouver | 1948 | 1733 | 1671 |
| Victoria | 1806 | 1605 | 1549 |
| ALBERTA | | | |
| Calgary | * | * | * |
| Edmonton Mun. | * | 1417 | * |
| Grande Prairie | * | * | * |
| Lethbridge | * | * | * |
| Medicine Hat | 1868 | * | 1697 |
| Peace River | * | * | * |
| SASKATCHEWAN | | | |
| Estevan | 1611 | * | 1607 |
| Prince Albert | * | * | * |
| Regina | 1649 | * | 1510 |
| Saskatoon | 1501 | * | 1456 |
| MANITOBA | | | |
| Brandon | 1482 | * | 1479 |
| Churchill | * | * | * |
| Winnipeg | 1649 | * | 1594 |
| ONTARIO | | | |
| London | 1770 | * | 1791 |
| North Bay | 1463 | * | 1387 |
| Ottawa | 1857 | * | 1801 |
| Thunder Bay | 1350 | * | 1299 |
| Toronto | 1910 | * | 1829 |
| Trenton | 1835 | * | 1845 |
| Windsor | 2167 | * | 2115 |
| QUEBEC | | | |
| Baie Comeau | 1031 | * | 1015 |
| Bagotville | 1354 | * | 1329 |
| Montréal | 1884 | * | 1866 |
| Québec | 1559 | * | 1489 |
| Sept-Îles | 934 | * | 909 |
| Sherbrooke | 1509 | * | 1365 |
| NEW BRUNSWICK | | | |
| Fredericton | 1538 | 1564 | 1423 |
| Moncton | 1495 | 1396 | 1392 |
| NOVA SCOTIA | | | |
| Yarmouth | 1407 | 1407 | 1315 |
| PRINCE EDWARD ISLAND | | | |
| Charlottetown | 1402 | 1349 | 1288 |
| NEWFOUNDLAND AND LABRADOR | | | |
| St. John's | 1103 | 764 | 953 |
| Stephenville | 1075 | 1154 | 1028 |

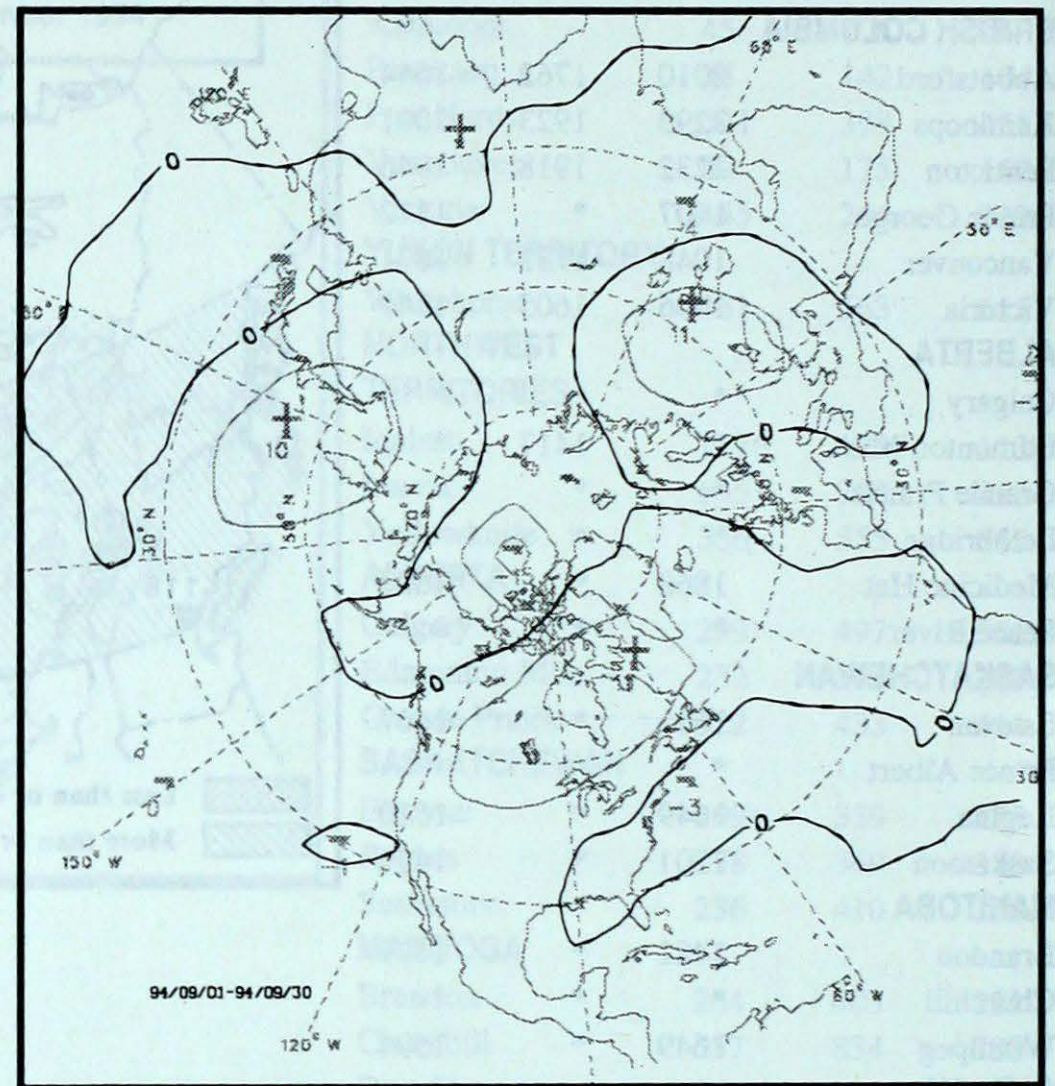


50-kPa ATMOSPHERIC CIRCULATION

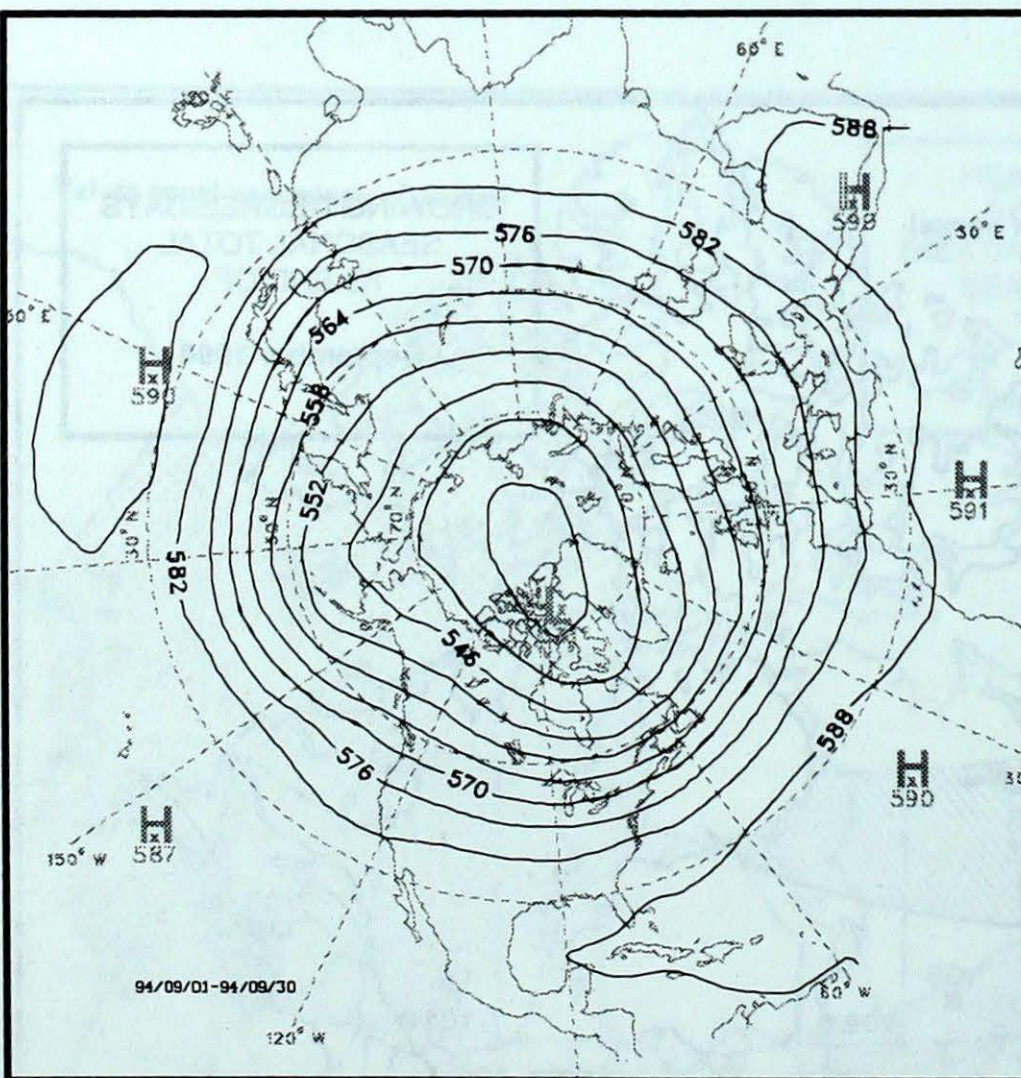
September 1994



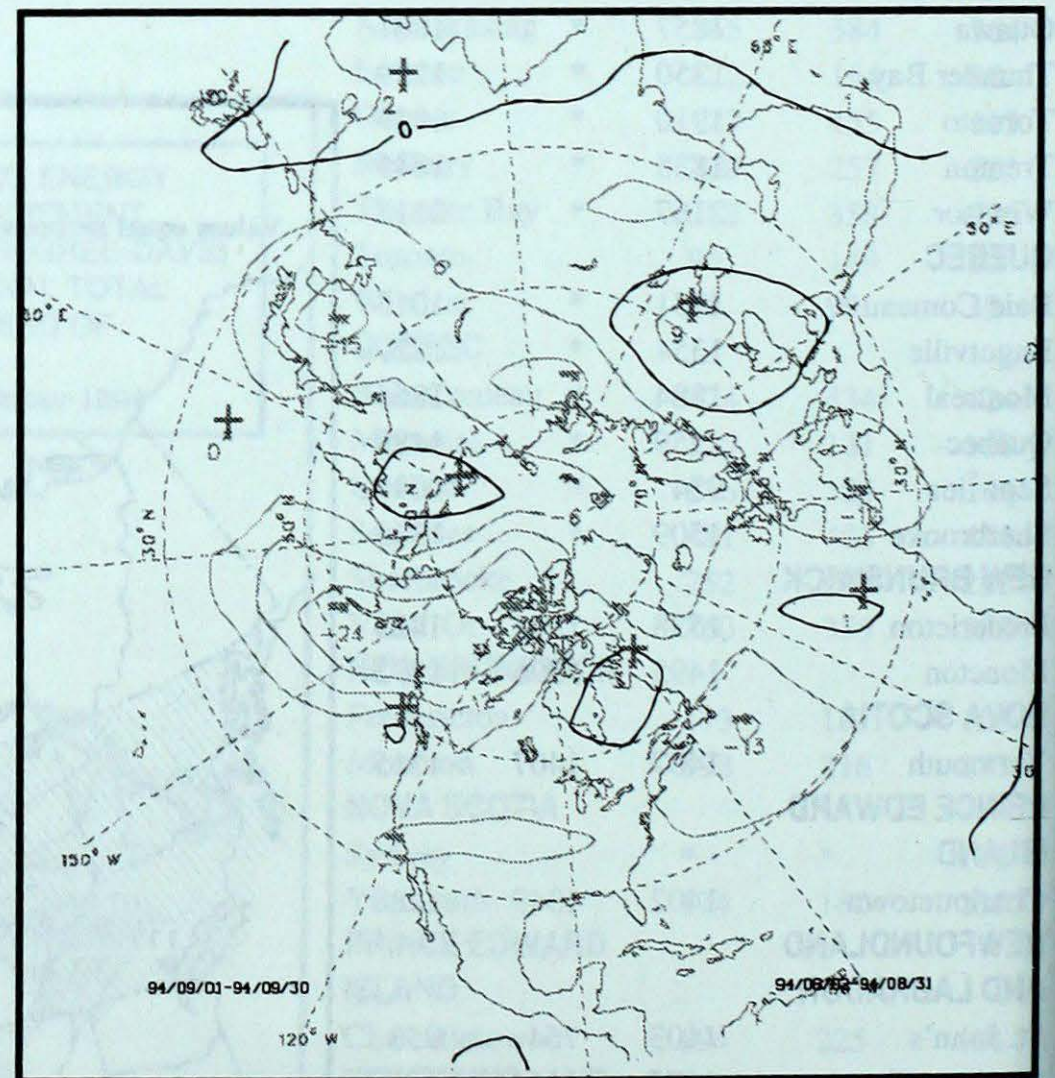
Mean geopotential heights
6-decametre interval



Mean geopotential height anomaly
6-decametre interval



Normal geopotential heights for the month
6-decametre interval



Mean heights difference w/r to previous month
6-decametre interval

A Note on El Niño

Several atmospheric and oceanic trends and anomaly patterns indicate that El-Niño (warm episode conditions) may be returning to the tropical Pacific. One of the features that supports this conclusion is that the core of the warmest equatorial water (greater than 30°C) has gradually shifted eastwards to a position near the International Dateline in recent months, with sea-surface temperature (SST) anomalies exceeding one Celsius degree during September 1994. These anomalies are similar in magnitude to those observed during September 1991 and September 1992.

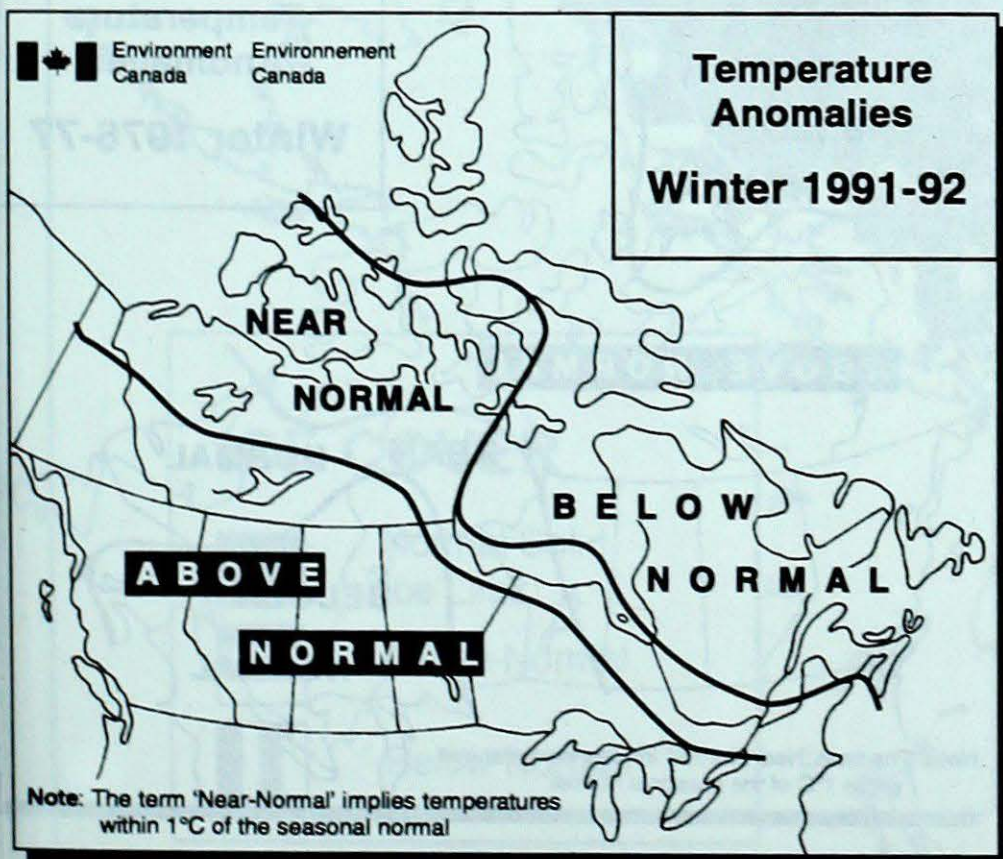
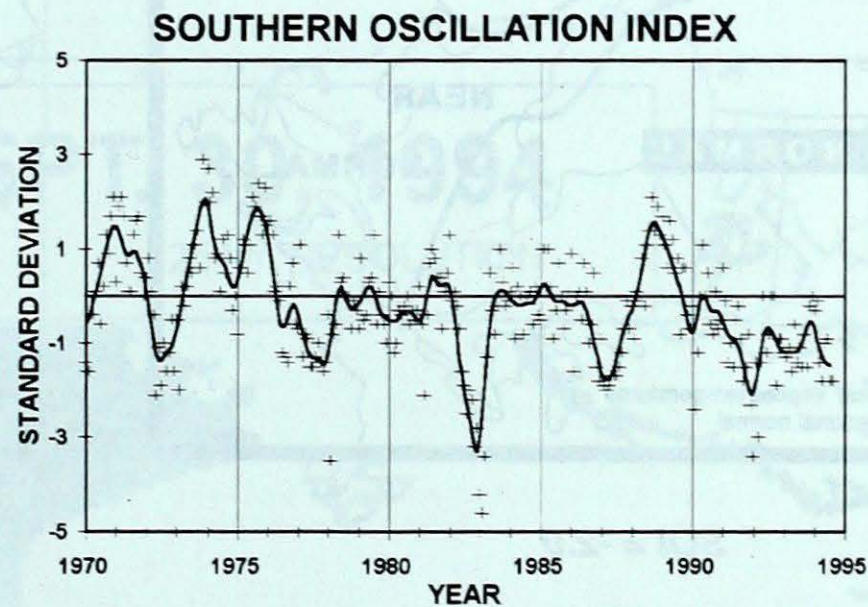
An important factor in the development of an El-Niño event is the intensity of the convective activity that develops over the central tropical Pacific. In past warm episodes, the September-November period has been a critical time for the establishment of enhanced convection in that region and the subsequent development of an El-Niño event. During September, convective activity has indeed increased.

Another feature has been the strongly negative Southern Oscillation Index (SOI) for the last six months. The SOI measures

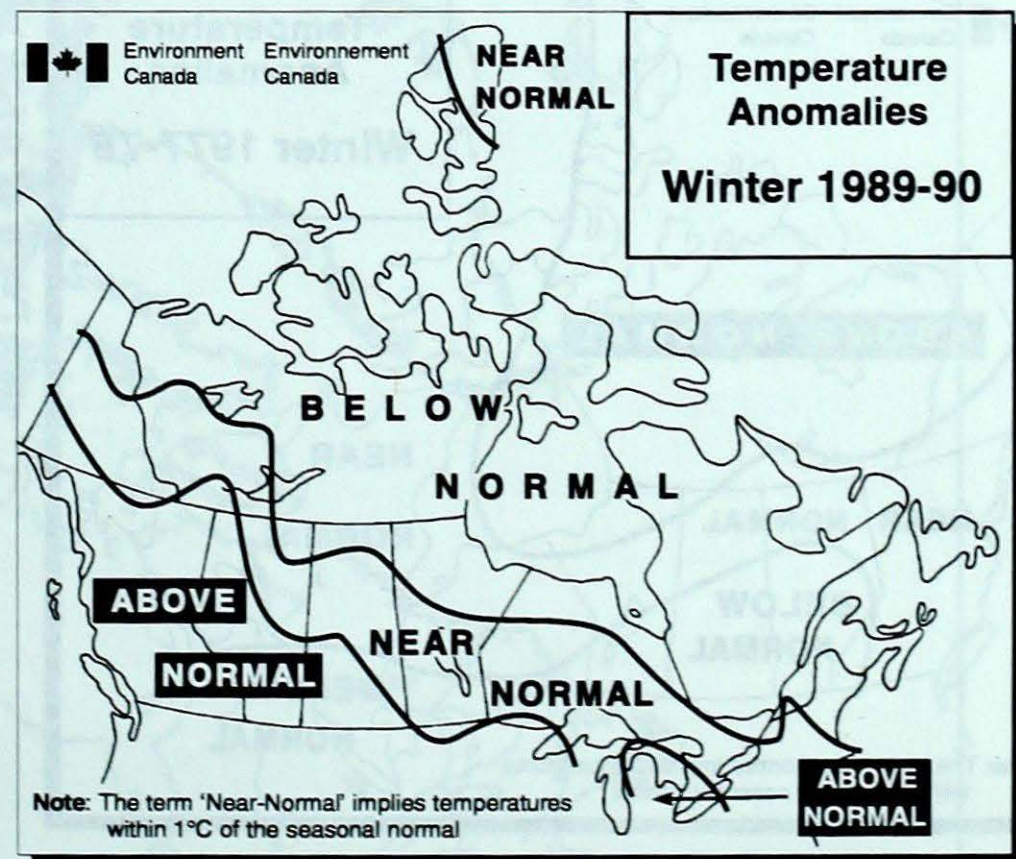
the atmospheric pressure difference between Tahiti, in the South Pacific Ocean, and Darwin, Australia - a traditional indicator of El-Niño events.

Assuming El-Niño does materialize, how will it affect Canada's weather this coming winter? Generally, above-normal temperatures are observed over the western half of the country during the winter period and may extend across the entire southern half of the country. However, each El-Niño

event has a unique signature, which results in distinctive temperature patterns across Canada, depending not only on the strength and duration of El-Niño but other climate signals which interact to change the overall temperature pattern. Also, in some cases, all the physical evidence required to assert an El-Niño event never emerges. Thus, one cannot say definitively that El-Niño was the cause of warm winters.



SOI = -2.2



SOI = -1.0

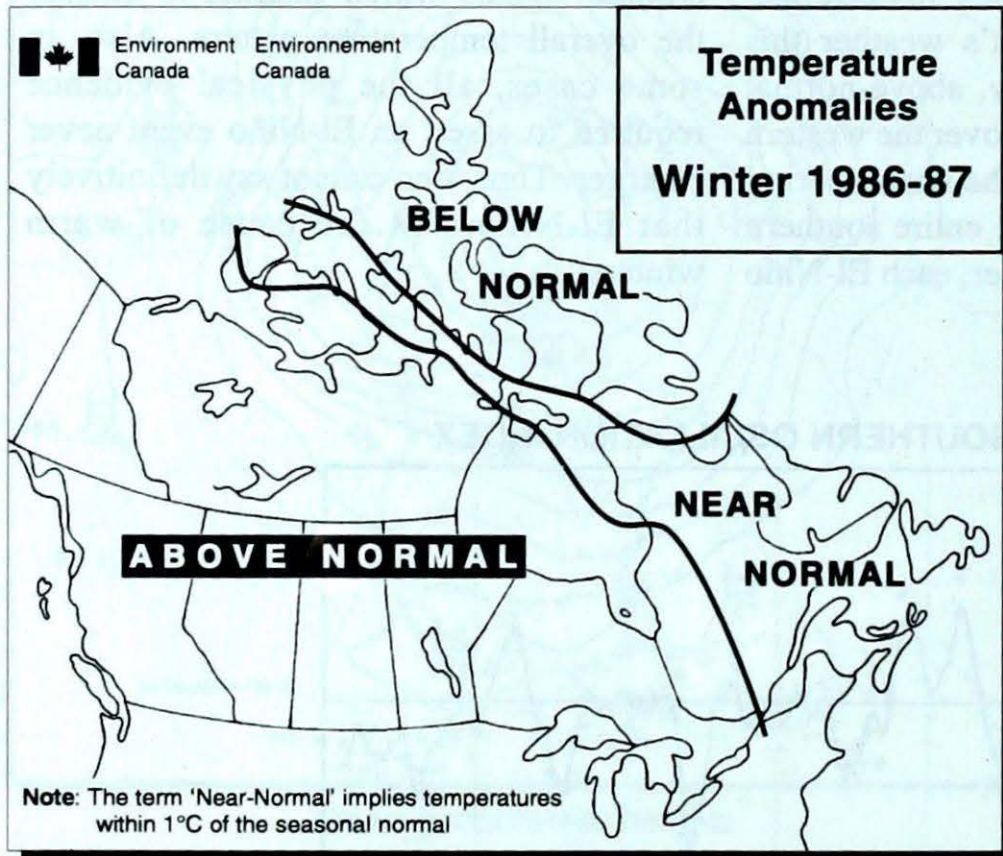
Note that in the maps shown, there is no direct correlation between the strength of the SOI, and the intensity and areal extent of the warm temperature anomalies. For example, comparing the winter of 1986-87 to 1982-83, El-Niño impacted more of the

country during 1986-87, yet the SOI was weaker.

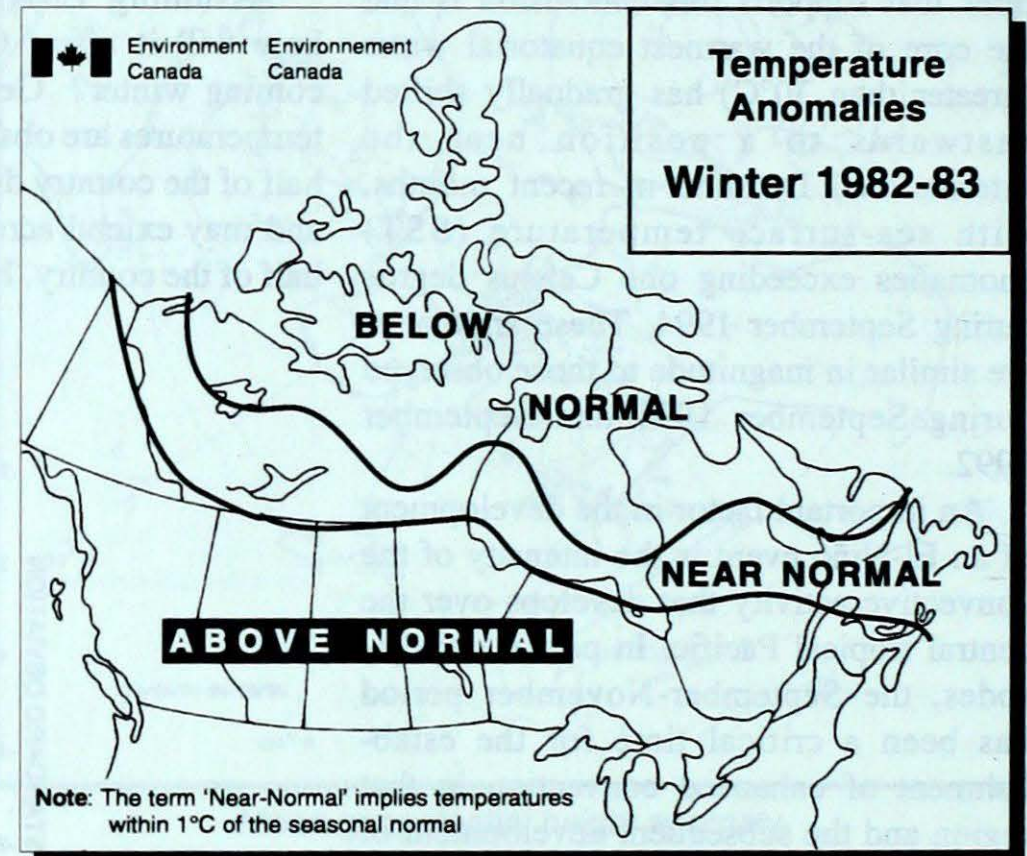
The El-Niño winter of 1976-77 was a winter of extremes, with warm weather across the western half of the country and bitterly cold weather in the east. Although

the SOI remained negative, El-Niño faded late in 1977, There was a dramatic reversal of temperatures across the west during the winter of 1977-78.

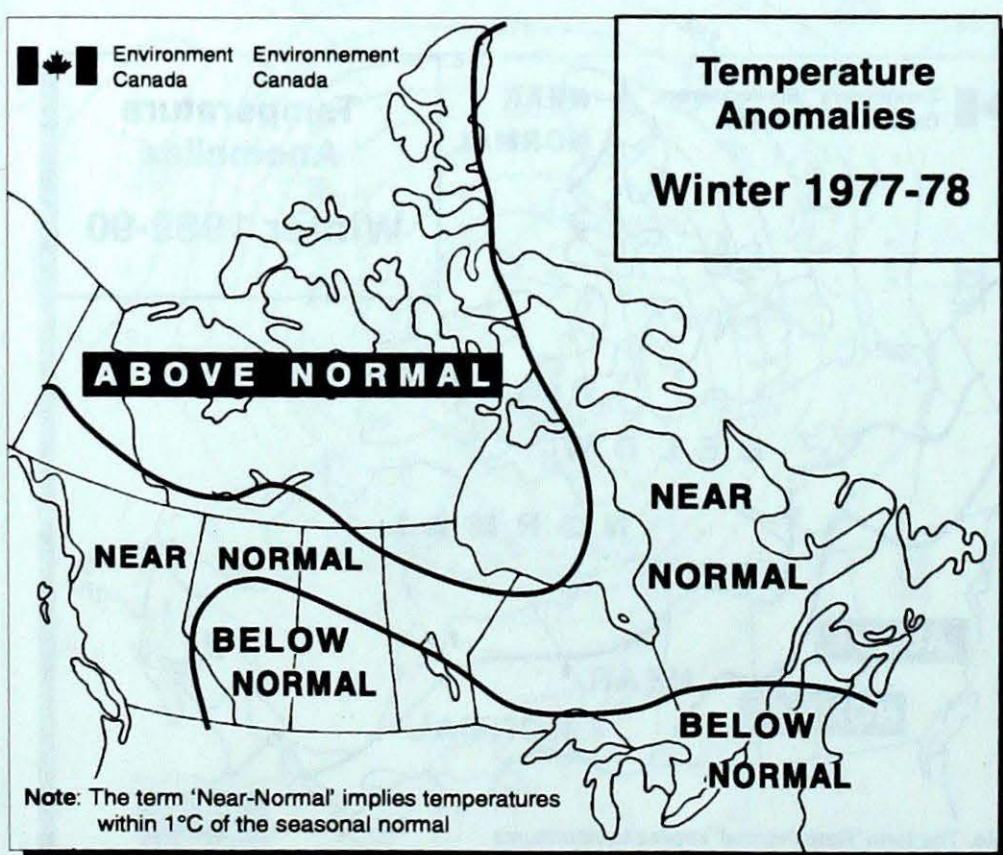
The prognosis for this winter is still uncertain.



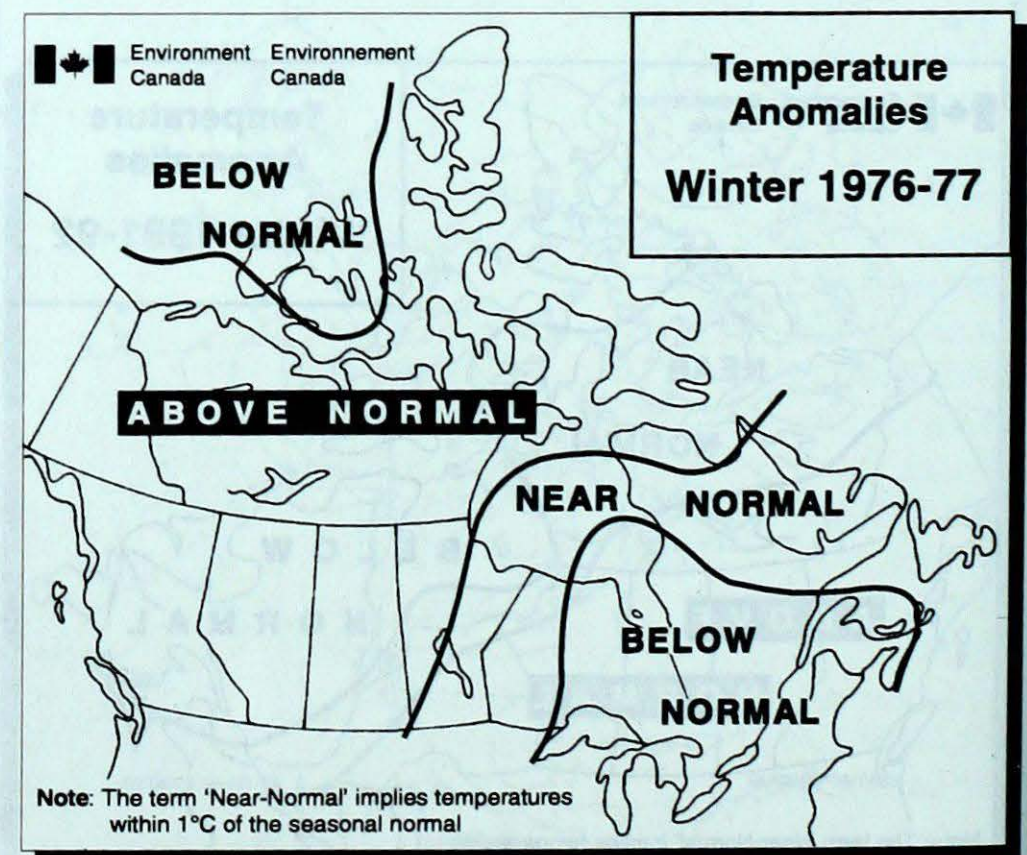
SOI = -2.0



SOI = -3.6



SOI = -1.5



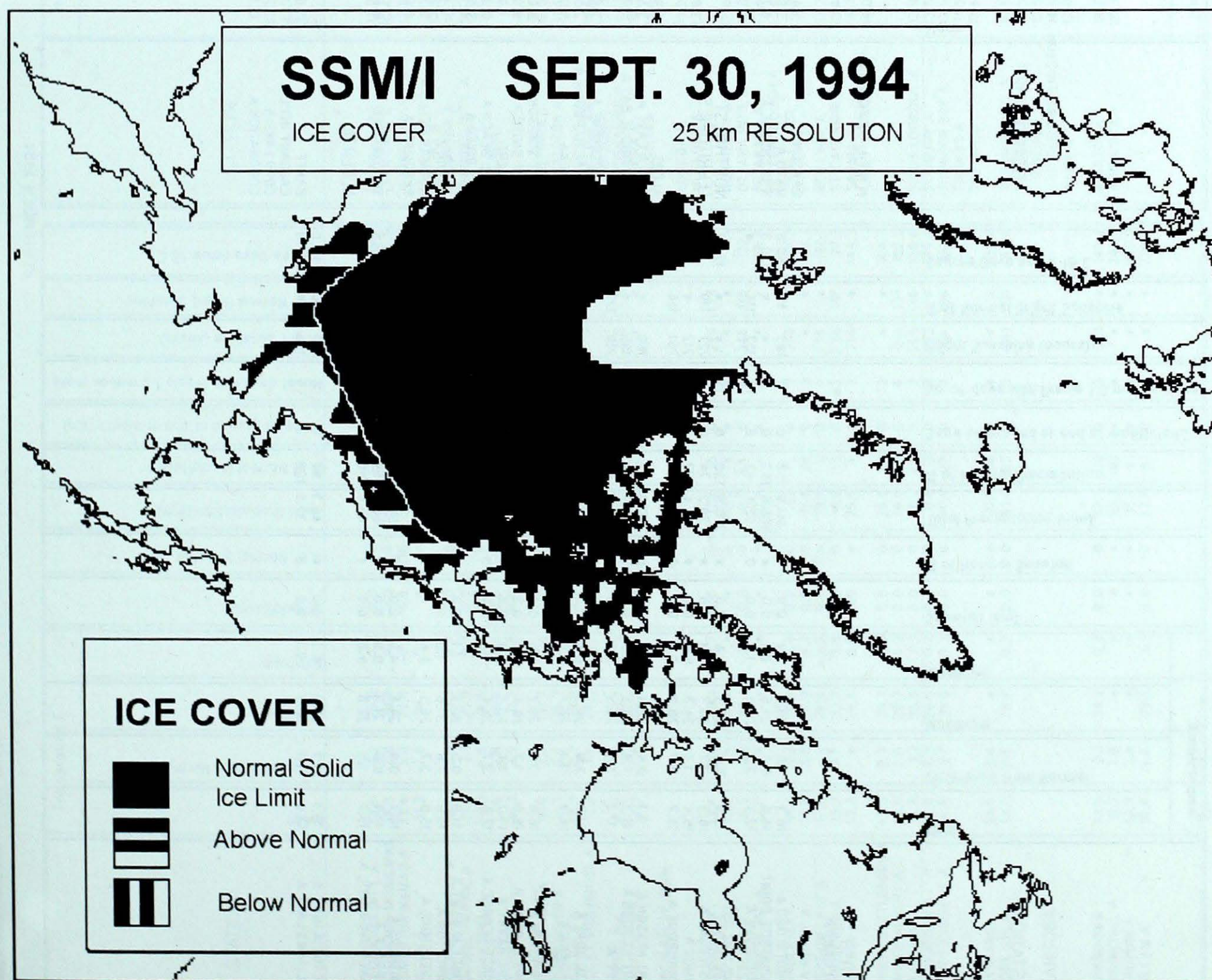
SOI = -0.5

End of September Ice Image

The advance of ice in the Canadian Arctic has started. The Beaufort Sea area experienced below-normal temperatures for the month of September and therefore ice con-

ditions were a few weeks ahead of normal. More than likely, the month of October will see the Beaufort Sea completely freeze over.

*Arvids Silis
Climate Processes and
Earth Observation Division*



SEPTEMBER 1994

| STATION | Temperature C | | | | Snowfall (cm) | % of Normal Snowfall | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | % of Normal Bright Sunshine | Degree Days below 18 C |
|-------------------|---------------|------------------------|---------|---------|---------------|----------------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------------|------------------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | | | |
| BRITISH COLUMBIA | | | | | | | | | | | | | |
| ABBOTSFORD A | 16.3 | 1.8 | 28.5 | 5.9 | 0.0 | * | 141.9 | 158 | 0 | 8 | 193 | 111 | 60.8 |
| AMPHITRITE POINT | 14.0 | 0.6 | 21.6 | 8.1 | 0.0 | * | 166.6 | 103 | 0 | 9 | * | * | 120.3 |
| BLUE RIVER A | 12.9 | 2.2 | 28.0 | -1.5 | 0.0 | 0 | 52.4 | 62 | 0 | 10 | 152 | 114 | * |
| CAPE SCOTT | 15.9 | 3.4 | 20.3 | 8.4 | 0.0 | * | 270.8 | 130 | 0 | 15 | * | * | 124.3 |
| CASTLEGAR A | 16.3 | 1.7 | 30.7 | 4.1 | 0.0 | * | 29.2 | 74 | 0 | 4 | 227 | 119 | 57.9 |
| COMOX A | 15.4 | 1.7 | 24.3 | 8.6 | 0.0 | * | 37.4 | 72 | 0 | 6 | 212 | * | 75.4 |
| CRANBROOK A | 15.2 | 3.2 | 28.9 | 0.7 | 0.0 | 0 | 3.0 | 10 | 0 | 1 | 251 | 116 | 84.4 |
| FORT NELSON A | 9.1 | 0.4 | 22.3 | -2.4 | 0.4 | 6 | 30.0 | 72 | 0 | 8 | 150 | * | 265.2 |
| FORT ST JOHN A | 11.3 | 1.8 | 23.5 | -2.6 | 0.0 | 0 | 36.9 | 94 | 0 | 6 | 155 | * | 201.7 |
| HOPE A | 17.1 | 1.6 | 29.5 | 6.2 | 0.0 | * | 67.8 | 66 | 0 | 7 | 219 | 127 | 42.6 |
| KAMLOOPS A | 17.7 | 2.8 | 29.2 | 6.6 | 0.0 | * | 12.8 | 60 | 0 | 1 | 253 | 130 | 30.3 |
| KELOWNA A | 16.0 | 3.1 | 28.7 | 2.8 | 0.0 | * | 15.0 | 47 | 0 | 3 | 241 | 117 | 60.5 |
| PENTICTON A | 16.8 | 2.1 | 29.7 | 4.0 | 0.0 | * | 18.2 | 103 | 0 | 4 | 219 | 104 | 41.0 |
| PORT ALBERNI A | 16.0 | 1.7 | 30.4 | 4.0 | 0.0 | * | 54.8 | 65 | 0 | 6 | 196 | * | 62.2 |
| PORT HARDY A | 13.2 | 1.4 | 20.5 | 6.3 | 0.0 | * | 178.4 | 131 | 0 | 13 | 107 | 77 | 144.6 |
| PRINCE GEORGE A | 12.4 | 2.7 | 25.4 | -2.1 | 0.0 | 0 | 63.0 | 107 | 0 | 9 | 135 | 84 | 170.6 |
| PRINCE RUPERT A | 11.8 | 0.5 | 20.5 | 1.1 | 0.0 | * | 386.5 | 159 | 0 | 19 | 90 | 77 | 118.5 |
| PRINCETON A | 15.5 | 2.6 | 31.6 | 1.0 | 0.0 | * | 9.4 | 52 | 0 | 3 | 232 | * | * |
| REVELSTOKE A | 15.0 | 2.7 | 26.5 | 4.4 | * | * | * | * | * | * | * | * | * |
| SMITHERS A | 10.7 | 0.9 | 24.6 | -4.5 | 0.0 | 0 | 59.0 | 117 | 0 | 16 | 109 | 83 | 236.0 |
| TERRACE A | 11.9 | 0.0 | 21.3 | 0.0 | 0.0 | * | 166.4 | 169 | 0 | 24 | 83 | 66 | 182.5 |
| VANCOUVER INT'L A | 15.7 | 1.5 | 22.8 | 9.8 | 0.0 | * | 65.6 | 98 | 0 | 9 | 191 | 104 | 70.7 |
| VICTORIA INT'L A | 15.1 | 1.2 | 26.0 | 6.7 | 0.0 | * | 46.3 | 117 | 0 | 6 | 217 | 112 | 87.0 |
| WILLIAMS LAKE A | 12.4 | 2.1 | 28.0 | 0.1 | 0.0 | 0 | 32.5 | 108 | 0 | 6 | 156 | 94 | 167.8 |

| STATION | Temperature C | | | | Snowfall (cm) | % of Normal Snowfall | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | % of Normal Bright Sunshine | Degree Days below 18 C |
|-----------------------|---------------|------------------------|---------|---------|---------------|----------------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------------|------------------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | | | |
| YUKON TERRITORY | | | | | | | | | | | | | |
| DAWSON A | 5.4 | * | 18.1 | -10.7 | 1.4 | * | 24.0 | * | * | * | * | * | * |
| MAYO A | 5.9 | -0.6 | 17.3 | -7.9 | 0.0 | 0 | 36.0 | 119 | * | * | * | * | 363.5 |
| WHITEHORSE A | 6.7 | -0.8 | 16.3 | -6.8 | 0.0 | 0 | 44.4 | 147 | 0 | 6 | 130 | 95 | 339.9 |
| NORTHWEST TERRITORIES | | | | | | | | | | | | | |
| ALERT | -6.9 | 3.3 | 1.5 | -18.0 | * | * | 5.4 | 20 | * | * | * | * | 746.0 |
| BAKER LAKE A | 3.5 | 1.2 | 21.4 | -6.5 | 1.6 | 27 | 60.2 | 163 | 0 | 12 | 110 | 103 | 435.9 |
| CAMBRIDGE BAY A | 0.2 | 0.9 | 11.7 | -9.8 | 9.4 | 111 | 18.0 | 104 | 1 | 5 | 87 | 105 | 536.1 |
| COPPERMINE A | 3.6 | 1.1 | 22.6 | -6.4 | 11.8 | 223 | 22.6 | 94 | 1 | 10 | 70 | 100 | 631.1 |
| CORAL HARBOUR A | 2.5 | 1.6 | 12.8 | -4.7 | 4.8 | 48 | 42.4 | 125 | 2 | 8 | 109 | 101 | 466.4 |
| EUREKA | -5.0 | 3.3 | 2.5 | -16.7 | 1.8 | 17 | 1.8 | 19 | 0 | 0 | 55 | 54 | 690.4 |
| FORT SIMPSON A | 8.6 | 1.3 | 23.4 | -2.5 | 7.6 | 133 | 42.2 | 141 | 0 | 6 | 121 | 90 | 283.3 |
| FORT SMITH A | 9.0 | 1.5 | 25.3 | -5.4 | 0.0 | 0 | 68.9 | 168 | 0 | 9 | 138 | 104 | 268.6 |
| IQALUIT | 1.9 | -0.5 | 9.3 | -4.5 | 32.6 | 235 | 61.6 | 134 | 0 | 13 | 82 | 100 | 483.3 |
| HALL BEACH A | -0.3 | 0.3 | 7.6 | -7.0 | 4.2 | 35 | 37.4 | 136 | 0 | 5 | * | * | 548.8 |
| HAY RIVER A | 9.5 | 1.4 | 25.3 | -2.7 | 0.0 | 0 | 32.2 | 76 | 0 | 6 | * | * | 255.3 |
| INUVIK A | 1.2 | -1.9 | 15.9 | -11.2 | 15.2 | 127 | 31.7 | 133 | 6 | 8 | 84 | 77 | 505.4 |
| NORMAN WELLS A | 5.3 | -0.8 | 20.2 | -4.6 | 7.8 | 147 | 26.0 | 89 | 0 | 9 | 123 | 103 | 380.6 |
| RESOLUTE A | -4.6 | 0.5 | 2.3 | -14.2 | 54.1 | 354 | 54.7 | 304 | 22 | 10 | 41 | 70 | 680.2 |
| YELLOWKNIFE A | 8.6 | 1.9 | 21.2 | -1.3 | 0.0 | 0 | 20.8 | 68 | 0 | 5 | 144 | 95 | 282.9 |
| ALBERTA | | | | | | | | | | | | | |
| BANFF | 11.8 | 2.5 | 25.5 | -4.5 | 0.0 | 0 | 7.8 | 19 | 0 | 2 | * | * | 184.3 |
| CALGARY INT'L A | 13.1 | 2.5 | 29.4 | -2.5 | 0.0 | 0 | 10.4 | 27 | 0 | 2 | 248 | 127 | 149.6 |
| COLD LAKE A | 13.2 | 3.4 | 28.5 | 1.1 | 0.0 | 0 | 45.7 | 102 | 0 | 4 | 232 | 132 | 145.3 |
| CORONATION A | 12.1 | 1.6 | 26.9 | -1.0 | 0.0 | 0 | 24.8 | 76 | 0 | 4 | * | * | * |

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| STATION | Temperature C | | | | Snowfall (cm) | % of Normal Snowfall | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | % of Normal Bright Sunshine | Degree Days below 18 C |
|------------------------|---------------|------------------------|---------|---------|---------------|----------------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------------|------------------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | | | |
| EDMONTON INT'L A | 13.0 | 3.2 | 29.0 | -0.3 | 0.0 | 0 | 64.4 | 141 | 0 | 8 | 215 | 118 | 149.7 |
| EDMONTON MUNICIPAL | 13.8 | 2.8 | 28.9 | 0.0 | 0.0 | * | 52.4 | 134 | 0 | 6 | 236 | 130 | 126.6 |
| EDMONTON NAMAO A | 13.4 | 3.0 | 29.0 | -0.2 | 4.6 | 230 | 37.4 | 90 | 0 | 6 | * | * | 136.8 |
| EDSON A | 11.2 | 2.6 | 27.1 | -0.5 | * | * | 46.6 | 82 | * | 8 | * | * | * |
| FORT MCMURRAY A | 12.0 | 3.0 | 29.7 | -4.7 | 0.0 | 0 | 19.0 | 32 | 0 | 9 | 160 | 112 | 181.6 |
| GRANDE PRAIRIE A | 11.9 | 2.1 | 25.5 | -0.7 | 0.0 | 0 | 41.3 | 110 | 0 | 8 | 178 | * | 182.4 |
| HIGH LEVEL A | 9.1 | 0.6 | 26.4 | -5.2 | 0.0 | 0 | 28.8 | 71 | 0 | 6 | 154 | 103 | 267.9 |
| JASPER | 12.6 | 2.8 | 26.6 | -1.6 | 0.0 | 0 | * | * | * | * | * | * | 91.9 |
| LETHBRIDGE A | 15.2 | 2.5 | 31.7 | -2.8 | 0.0 | 0 | 8.6 | 23 | 0 | 1 | 271 | 126 | 90.1 |
| MEDICINE HAT A | 16.9 | 3.7 | 31.2 | 0.6 | 0.0 | 0 | 18.1 | 56 | 0 | 3 | 257 | 129 | 15.3 |
| PEACE RIVER A | 11.3 | 2.2 | 25.3 | -3.0 | 0.0 | 0 | 28.5 | 74 | 0 | 8 | * | * | 210.1 |
| RED DEER A | 12.3 | 2.2 | 28.8 | -2.9 | 0.0 | 0 | 78.3 | 178 | 0 | 7 | * | * | 170.5 |
| ROCKY MOUNTAIN HOUSE A | 11.2 | 1.5 | 28.3 | -3.3 | * | * | 28.6 | 58 | * | 5 | * | * | * |
| SUFFIELD A | 15.8 | * | 31.7 | -1.9 | 0.0 | * | 14.9 | * | 0 | 4 | 278 | * | 83.0 |
| WHITECOURT A | 12.3 | 3.4 | 28.2 | -1.1 | 10.2 | 300 | 13.8 | 40 | 2 | 6 | * | * | 174.6 |
| SASKATCHEWAN | | | | | | | | | | | | | |
| BROADVIEW | 13.4 | 2.6 | 29.1 | -0.7 | 0.0 | 0 | 17.8 | 35 | 0 | 2 | 249 | 133 | 141.9 |
| COLLINS BAY | 13.7 | * | * | * | * | * | 48.0 | * | * | * | * | * | * |
| ESTEVAN A | 14.2 | 1.8 | 35.1 | -1.8 | 0.0 | 0 | 19.0 | 44 | 0 | 4 | 246 | 116 | 122.1 |
| HUDSON BAY A | 12.5 | * | * | * | * | * | 22.4 | * | * | * | * | * | 166.8 |
| KINDERSLEY | 14.7 | 3.2 | 30.5 | 1.3 | 0.0 | 0 | 1.2 | 5 | 0 | 1 | 270 | * | 111.3 |
| LA RONGE A | 12.9 | 3.6 | 27.3 | -2.2 | 0.0 | 0 | 17.6 | 28 | 0 | 3 | * | * | 157.7 |
| MEADOW LAKE A | 12.6 | * | 29.4 | -3.2 | 0.0 | * | 18.6 | * | 0 | 4 | 234 | * | 161.7 |
| MOOSE JAW A | 15.2 | 2.7 | 31.3 | 1.8 | 0.0 | 0 | 4.8 | 13 | 0 | 2 | 238 | 117 | 97.7 |
| NIPAWIN A | 13.3 | * | 29.4 | 0.6 | 0.0 | * | 25.4 | * | 0 | 2 | 214 | * | 144.3 |
| NORTH BATTLEFORD A | 13.3 | 2.3 | 29.7 | 0.0 | 0.0 | 0 | 28.6 | 111 | 0 | 2 | * | * | 144.3 |
| PRINCE ALBERT A | 12.9 | 3.0 | 28.7 | -0.2 | 0.0 | 0 | 19.6 | 50 | 0 | 4 | 217 | 131 | 152.6 |
| REGINA A | 14.8 | 3.1 | 30.5 | 0.1 | 0.0 | 0 | 16.2 | 44 | 0 | 2 | 260 | 136 | 106.8 |
| SASKATOON A | 13.5 | 2.3 | 30.5 | 0.2 | 0.0 | 0 | 0.8 | 3 | 0 | 0 | 222 | * | 139.4 |
| SWIFT CURRENT A | 14.8 | 3.1 | 31.6 | 0.3 | 0.0 | 0 | 10.9 | 32 | 0 | 2 | 264 | 136 | 109.5 |
| WYNYARD | 13.6 | 2.6 | * | * | * | * | 22.2 | 56 | * | * | * | * | 136.8 |
| YORKTON A | 13.3 | 2.4 | 28.8 | 0.3 | 0.0 | 0 | 41.0 | 88 | 0 | 5 | 241 | 131 | 143.6 |
| MANITOBA | | | | | | | | | | | | | |
| BRANDON A | 13.5 | 2.1 | 34.7 | 0.2 | 0.0 | 0 | 52.6 | 119 | 0 | 5 | 261 | * | 140.8 |
| CHURCHILL A | 8.2 | 2.8 | * | * | * | * | 92.3 | 181 | * | * | * | * | 294.7 |
| DAUPHIN A | 13.9 | 2.6 | * | * | * | * | 35.7 | 61 | * | * | * | * | 130.2 |
| GILLAM A | 10.4 | 4.4 | 25.7 | 5.1 | 0.0 | 0 | 33.8 | 61 | 0 | 9 | * | * | 229.4 |

| STATION | Temperature C | | | | Snowfall (cm) | % of Normal Snowfall | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | % of Normal Bright Sunshine | Degree Days below 18 C |
|---------------------|---------------|------------------------|---------|---------|---------------|----------------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------------|------------------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | | | |
| ISLAND LAKE | 12.9 | 4.1 | 28.7 | 0.2 | 0.0 | 0 | 19.6 | 28 | 0 | 4 | * | * | 156.7 |
| LYNN LAKE A | 10.4 | 3.9 | 29.3 | -1.0 | 0.0 | 0 | 32.7 | 46 | 0 | 7 | 166 | 142 | 227.1 |
| NORWAY HOUSE A | 12.3 | * | 26.5 | -1.8 | 0.0 | * | 27.8 | * | 0 | 5 | * | * | 169.9 |
| THE PAS A | 12.9 | 3.1 | 30.1 | 0.0 | 0.0 | 0 | 35.4 | 62 | 0 | 3 | 225 | 143 | 159.6 |
| THOMPSON A | 10.1 | 3.2 | 28.2 | -5.9 | 0.0 | 0 | 37.2 | 54 | 0 | 7 | 194 | 153 | 237.2 |
| WINNIPEG INT'L A | 14.2 | 1.8 | 30.1 | 1.0 | 0.0 | 0 | 69.6 | 131 | 0 | 7 | 201 | 109 | 123.7 |
| ONTARIO | | | | | | | | | | | | | |
| EARLTON A | 12.5 | 1.4 | 25.5 | -1.0 | 0.0 | 0 | 78.0 | 79 | 0 | 10 | * | * | 166.6 |
| GERALDTON A | 11.4 | * | 24.9 | -0.7 | 2.0 | * | 74.4 | * | 0 | 12 | * | * | 199.1 |
| HAMILTON RBG | 16.6 | * | 29.0 | 6.0 | 0.0 | * | 54.6 | * | 0 | 7 | 186 | * | * |
| HAMILTON A | 15.3 | -0.4 | 28.5 | 4.2 | 0.0 | * | 36.1 | 49 | 0 | * | * | * | * |
| KAPUSKASING A | 11.7 | 1.7 | 24.5 | -0.2 | 0.2 | 8 | 72.0 | 76 | 0 | 8 | * | * | 190.5 |
| KENORA A | 14.1 | 2.5 | 25.9 | 1.1 | 0.0 | 0 | 76.2 | 110 | 0 | 6 | * | * | 122.2 |
| KINGSTON A | 15.4 | 0.2 | 25.3 | 5.0 | 0.0 | * | 53.8 | 57 | 0 | 8 | 164 | 97 | 86.5 |
| LONDON A | 15.5 | 0.1 | 28.4 | 4.3 | 0.0 | * | 37.8 | 48 | 0 | 7 | 182 | 105 | 91.7 |
| MUSKOKA A | 13.6 | 0.4 | 27.5 | 2.7 | 0.0 | * | 88.9 | 87 | 0 | 12 | * | * | 136.1 |
| NORTH BAY A | 13.4 | 1.2 | 25.0 | 0.9 | 0.0 | 0 | 97.2 | 84 | 0 | 11 | 179 | 116 | 139.7 |
| OTTAWA INT'L A | 14.8 | 0.5 | 28.3 | 3.5 | 0.0 | * | 56.0 | 71 | 0 | 8 | 185 | 111 | 100.1 |
| PETAWAWA A | 12.6 | 0.3 | 29.3 | -2.2 | 0.0 | * | 52.6 | 72 | 0 | 7 | * | * | 164.2 |
| PETERBOROUGH A | 13.9 | 0.1 | 29.0 | 0.5 | 0.0 | * | 55.4 | 89 | 0 | 9 | * | * | 128.4 |
| PICKLE LAKE | 11.8 | 2.4 | 25.6 | -2.8 | 0.0 | 0 | 41.0 | 48 | 0 | 6 | * | * | 187.4 |
| RED LAKE A | 12.2 | 1.7 | 26.8 | -1.3 | 0.0 | 0 | 43.2 | 61 | 0 | 6 | 198 | * | 176.9 |
| ST CATHARINES A | 16.4 | -0.1 | 29.0 | 4.6 | 0.0 | * | 122.0 | 131 | 0 | 8 | 203 | * | 67.6 |
| SARNIA A | 16.7 | 0.4 | 29.2 | 5.5 | 0.0 | * | 50.4 | 80 | 0 | 4 | 206 | 105 | 62.9 |
| SAULT STE MARIE A | 14.0 | 1.2 | 25.5 | 1.7 | 0.0 | 0 | 54.1 | 57 | 0 | 8 | 177 | 113 | 128.9 |
| SIOUX LOOKOUT A | 12.9 | 2.2 | 26.6 | -1.5 | 0.0 | 0 | 69.1 | 85 | 0 | 10 | * | * | 153.4 |
| SUDBURY A | 13.5 | 1.3 | 25.4 | 0.9 | 0.0 | 0 | 64.2 | 60 | 0 | 8 | 157 | 104 | 136.7 |
| THUNDER BAY A | 13.5 | 2.4 | 26.4 | -0.3 | 0.0 | * | 54.6 | 61 | 0 | 10 | 164 | 98 | 137.4 |
| TIMMINS A | 11.5 | 1.2 | 25.8 | -2.7 | 0.0 | 0 | 79.5 | 87 | 0 | 14 | * | * | 198.1 |
| TORONTO | 17.4 | * | 27.6 | 7.5 | 0.0 | * | 54.8 | * | 0 | 8 | * | * | 42.6 |
| TORONTO INT'L A | 15.9 | 0.4 | 29.8 | 5.4 | 0.0 | * | 51.4 | 81 | 0 | 8 | * | * | 76.2 |
| TORONTO ISLAND A | 16.5 | * | 25.8 | 8.1 | 0.0 | * | 60.6 | * | 0 | 8 | * | * | 51.4 |
| TRENTON A | 15.5 | 0.2 | 25.5 | 4.1 | 0.0 | * | 49.2 | 68 | 0 | 8 | * | * | 80.5 |
| WATERLOO WELLINGTON | 14.9 | 0.5 | 28.4 | 3.6 | 0.0 | * | 31.0 | 37 | 0 | 8 | * | * | 105.1 |
| WAWA A | 12.0 | * | 25.0 | -0.4 | 0.0 | * | 75.0 | * | 0 | 10 | * | * | 181.0 |
| WIARTON A | 14.2 | 0.0 | 26.5 | 2.9 | 0.0 | * | 76.1 | 80 | 0 | 8 | 181 | 107 | 124.3 |
| WINDSOR A | 18.3 | 0.9 | 30.9 | 6.1 | 0.0 | * | 53.4 | 80 | 0 | 7 | * | * | 38.7 |

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| STATION | Temperature C | | | | Snowfall (cm) | % of Normal Snowfall | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | % of Normal Bright Sunshine | Degree Days below 18 C |
|----------------------|---------------|------------------------|---------|---------|---------------|----------------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------------|------------------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | | | |
| QUEBEC | | | | | | | | | | | | | |
| BAGOTVILLE A | 11.3 | 0.2 | 20.5 | 0.2 | 0.0 | 0 | 104.0 | 104 | 0 | 14 | * | * | 200.2 |
| BAIE COMEAU A | 10.3 | 0.6 | 19.3 | -1.9 | 0.0 | * | 82.6 | 80 | 0 | 7 | 148 | 94 | 232.1 |
| BLANC SABLON A | 8.7 | 0.2 | 20.5 | -0.7 | 0.0 | * | 72.8 | 81 | 0 | 11 | 131 | * | 272.7 |
| CHIBOUGAMAU CHAPAIS | 10.1 | * | 23.0 | -1.7 | * | * | * | * | * | 10 | * | * | * |
| GASPE A | 10.4 | * | 23.2 | -0.8 | 0.0 | * | 145.2 | * | 0 | 11 | 165 | * | 22.8 |
| KUUJUAQ A | 8.0 | 2.6 | 23.2 | -1.6 | 0.2 | 2 | 25.2 | 44 | 0 | 9 | 40 | 40 | 298.2 |
| KUUJUAUAPIK A | 8.5 | 1.4 | 22.1 | -1.1 | 0.0 | 0 | 59.3 | 68 | 0 | 14 | 99 | 93 | 284.9 |
| LA GRANDE IV A | 8.7 | * | 21.0 | 1.1 | 0.6 | * | 33.0 | * | 0 | 13 | 89 | * | 278.0 |
| LA GRANDE RIVIERE A | 8.7 | * | 21.8 | -0.5 | 0.0 | * | 52.2 | * | 0 | 9 | 98 | * | 304.0 |
| MANIWAKI | 12.5 | 0.4 | 25.9 | -0.9 | * | * | 44.0 | 46 | 0 | 7 | * | * | 165.2 |
| MONT JOLI A | 11.0 | -0.2 | 21.7 | 1.7 | 0.0 | * | 63.2 | 75 | 0 | 110 | 38 | 25 | 211.1 |
| MONTREAL INT'L A | 14.8 | 0.0 | 24.5 | 4.0 | * | * | 67.2 | 76 | 0 | 13 | 170 | 100 | 95.9 |
| MONTREAL MIRABEL I/ | 13.6 | * | 24.1 | 2.5 | 0.0 | * | 69.6 | * | 0 | 12 | 167 | * | 132.1 |
| NATASHQUAN A | 9.6 | 0.4 | 18.8 | -0.7 | 0.0 | * | 113.4 | 120 | 0 | 11 | 172 | 110 | 252.8 |
| QUEBEC A | 12.6 | 0.0 | 22.7 | 2.4 | 0.0 | * | 94.4 | 79 | 0 | 13 | 119 | 78 | 162.2 |
| ROBERVAL A | 11.7 | 0.5 | 21.7 | 0.9 | 0.0 | 0 | 81.7 | 90 | 0 | 11 | 137 | * | 189.7 |
| SEPT-ILES A | 9.7 | 0.4 | 18.8 | 0.6 | 0.0 | * | 221.7 | 198 | 0 | 11 | 150 | 95 | 248.1 |
| SHERBROOKE A | 12.3 | 0.5 | 23.7 | 0.1 | 0.0 | * | 94.9 | 90 | 0 | 15 | 137 | * | 171.6 |
| ST HUBERT A | 14.4 | 0.0 | 24.4 | 2.1 | * | * | 55.0 | 61 | 0 | * | 162 | * | 108.6 |
| VAL D'OR A | 11.4 | 1.0 | 24.3 | -2.0 | 0.0 | 0 | 92.0 | 86 | 0 | 14 | 156 | 111 | 199.3 |
| NEW BRUNSWICK | | | | | | | | | | | | | |
| CHARLO A | 11.5 | 0.4 | 20.2 | 0.5 | 0.0 | 0 | 104.0 | 104 | 0 | 10 | 159 | 99 | 190.4 |
| FREDERICTON A | 13.0 | -0.2 | 25.4 | -0.8 | 0.0 | * | 63.4 | 73 | 0 | 8 | * | * | 149.5 |
| MONCTON A | 12.7 | -0.3 | 24.8 | -0.2 | 0.0 | * | 64.7 | 85 | 0 | 7 | 151 | 91 | 159.5 |
| SAINT JOHN A | 12.8 | 0.1 | 22.7 | 2.2 | 0.0 | * | 62.0 | 55 | 0 | 7 | 166 | 100 | 156.1 |
| NOVA SCOTIA | | | | | | | | | | | | | |
| GREENWOOD A | 13.4 | -0.4 | 24.9 | 1.1 | 0.0 | * | 80.5 | 96 | 0 | 8 | * | * | 139.5 |
| HALIFAX INT'L A | 13.5 | -0.3 | 22.6 | 4.3 | 0.0 | * | 68.7 | 73 | 0 | 6 | * | * | 136.5 |
| SABLE ISLAND | 16.2 | 0.5 | 22.8 | 5.3 | 0.0 | * | 148.6 | 161 | 0 | 10 | 223 | 143 | 59.3 |
| SHEARWATER A | 14.2 | -0.3 | 22.4 | 4.9 | 0.0 | * | 104.6 | 121 | 0 | 10 | 190 | 105 | 114.6 |
| SYDNEY A | 13.1 | -0.4 | 22.4 | 2.5 | 0.0 | * | 126.1 | 145 | 0 | 9 | 187 | 112 | 143.9 |
| YARMOUTH A | 13.7 | 0.1 | 21.5 | 4.7 | 0.0 | * | 97.4 | 109 | 0 | 11 | 164 | 93 | 130.0 |
| PRINCE EDWARD ISLAND | | | | | | | | | | | | | |
| CHARLOTTETOWN A | 13.0 | -0.5 | 22.3 | 2.8 | 0.0 | * | 87.6 | 102 | 0 | * | * | * | 150.7 |
| SUMMERSIDE A | * | * | * | * | * | * | * | * | * | * | * | * | * |
| NEWFOUNDLAND | | | | | | | | | | | | | |
| BONAVISTA | 11.8 | 0.1 | 21.4 | 4.7 | 0.0 | * | 130.0 | 151 | 0 | 14 | * | * | 185.1 |
| BURGO | 11.8 | 0.3 | 21.9 | 2.7 | 0.0 | 0 | 155.2 | 121 | 0 | 11 | * | * | 183.1 |
| CARTWRIGHT | 8.2 | -0.1 | 24.7 | 0.4 | 0.0 | 0 | 74.2 | 82 | 0 | 11 | 89 | 82 | 292.9 |
| COMFORT COVE | 10.7 | -0.2 | 20.2 | -0.2 | 0.0 | 0 | 127.8 | 143 | 0 | 17 | * | * | 219.4 |
| DANIELS HARBOUR | 10.5 | -0.3 | 20.0 | 0.5 | 0.0 | 0 | 89.6 | 98 | 0 | 12 | 163 | 124 | 225.6 |
| DEER LAKE A | 10.8 | 0.3 | 23.2 | -1.6 | 0.0 | * | 86.9 | 95 | 0 | 7 | * | * | 218.2 |
| GANDER INT'L A | 11.0 | -0.4 | 20.5 | 1.1 | 0.0 | 0 | 106.0 | 131 | 0 | 14 | 104 | 71 | 210.2 |
| GOOSE A | 9.5 | 0.4 | 25.7 | -0.2 | 0.0 | 0 | 60.2 | 68 | 0 | 10 | 122 | 101 | 253.9 |
| MARY'S HARBOUR | 9.0 | 0.7 | 25.2 | 0.0 | 0.0 | * | 54.8 | 80 | 0 | 9 | * | * | 282.1 |
| PORT AUX BASQUES | 12.2 | 0.9 | 21.7 | 3.8 | 0.0 | * | 170.4 | 148 | 0 | 11 | 161 | * | 173.4 |
| ST ANTHONY | 9.0 | 0.9 | 21.0 | 0.0 | 0.0 | 0 | 107.4 | 80 | 0 | 11 | * | * | 271.0 |
| ST JOHN'S A | 11.8 | 0.2 | 23.1 | 2.4 | 0.0 | * | 177.0 | 152 | 0 | 15 | 115 | * | 186.5 |
| ST LAWRENCE | 12.5 | 1.3 | 22.0 | 0.8 | 0.0 | * | 217.4 | 171 | 0 | 9 | * | * | 164.2 |
| STEPHENVILLE A | 12.0 | 0.1 | 21.3 | 2.1 | 0.0 | * | 171.6 | 164 | 0 | 10 | 151 | * | 181.5 |
| WABUSH LAKE A | 8.3 | 2.1 | 21.7 | -1.2 | 1.3 | * | * | * | 38 | 14 | 106 | * | 292.3 |

AGROCLIMATOLOGICAL STATIONS

SEPTEMBER 1994

| STATION | Temperature C | | | | Snowfall (cm) | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | Degree days above 5 C | |
|------------------|---------------|------------------------|---------|---------|---------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------|----------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | This month | Since Jan. 1st |
| BRITISH COLUMBIA | | | | | | | | | | | | |
| AGASSIZ | 16.9 | 1.4 | 30.5 | 5.5 | 0.0 | 75.3 | 71 | 0 | 8 | 219 | 356.5 | 2214.5 |
| SUMMERLAND | 17.2 | 2.0 | 31.0 | 5.5 | 0.0 | 13.0 | 69 | 0 | 5 | 206 | 367.1 | 2312.1 |
| ALBERTA | | | | | | | | | | | | |
| BEAVERLODGE | 11.9 | 2.4 | 24.5 | 0.0 | 0.0 | 43.8 | 104 | 0 | 11 | 160 | 209.7 | 1398.5 |
| LACOMBE | 13.0 | 2.9 | 29.0 | -2.5 | 0.0 | 53.8 | 132 | 0 | 6 | ** | 238.6 | 1475.8 |
| SASKATCHEWAN | | | | | | | | | | | | |
| INDIAN HEAD | 13.7 | 2.2 | 30.0 | 0.0 | 0.0 | 31.2 | 74 | 0 | 2 | ** | 261.7 | 1627.0 |
| MELFORT | 13.5 | 3.2 | 28.0 | -0.5 | 0.0 | 21.6 | 53 | 0 | 5 | 192 | 253.5 | 1511.5 |
| SCOTT | 13.4 | 3.0 | 30.0 | 0.5 | 0.0 | 3.8 | 13 | 0 | 2 | 248 | 250.4 | 1504.5 |
| SWIFT CURRENT | 15.1 | 3.3 | 32.0 | 0.5 | 0.0 | 6.1 | 21 | 0 | 2 | 229 | 722.1 | 1746.1 |
| MANITOBA | | | | | | | | | | | | |
| BRANDON | 14.3 | 2.5 | 34.5 | 0.2 | 0.0 | 60.0 | 121 | 0 | 4 | ** | 278.4 | 1636.3 |
| MORDEN | 15.5 | 3.3 | 32.0 | 5.0 | 0.0 | 92.4 | 184 | 0 | 5 | 228 | 321.0 | 1868.0 |
| GLENLEA | 14.5 | 1.4 | 30.0 | 1.0 | 0.0 | 73.3 | 141 | 0 | 14 | 205 | 284.6 | 1733.2 |
| ONTARIO | | | | | | | | | | | | |
| DELHI | 16.1 | 0.2 | 28.0 | 3.0 | 0.0 | 57.9 | 72 | 0 | 8 | ** | 322.9 | 2028.6 |
| ELORA | 14.6 | 0.4 | 27.7 | 1.8 | 0.0 | 43.6 | 61 | 0 | 10 | ** | ***** | 773.9 |
| HARROW | 17.1 | -0.4 | 29.5 | 3.1 | 0.0 | 71.2 | 108 | 0 | 9 | 214 | 362.4 | 2168.9 |
| KAPUSKASING | 12.0 | 1.7 | 24.5 | -1.0 | 0.0 | 61.9 | 69 | 0 | 9 | 126 | 205.7 | 1292.4 |
| OTTAWA | 15.3 | 0.7 | 28.3 | 4.7 | 0.0 | 59.3 | 74 | 0 | 7 | 185 | 309.8 | 1968.8 |
| SMITHFIELD | 16.7 | 1.7 | 28.0 | 3.9 | 0.0 | 31.4 | 40 | 0 | 5 | ** | 350.2 | 2039.0 |

Courtesy of Agriculture Canada

| STATION | Temperature C | | | | Snowfall (cm) | Total Precipitation (mm) | % of Normal Precipitation | Snow on ground at end of month (cm) | No. of days with Precip 1.0 mm or more | Bright Sunshine (hours) | Degree days above 5 C | |
|----------------------|---------------|------------------------|---------|---------|---------------|--------------------------|---------------------------|-------------------------------------|--|-------------------------|-----------------------|----------------|
| | Mean | Difference from Normal | Maximum | Minimum | | | | | | | This month | Since Jan. 1st |
| QUEBEC | | | | | | | | | | | | |
| LA POCATIERE | 11.8 | -0.8 | 21.5 | 2.0 | 0.0 | 68.6 | 72 | 0 | 13 | 129 | 196.8 | 1497.1 |
| NORMANDIN | 10.5 | 0.1 | 21.2 | -0.8 | 0.0 | 73.0 | 76 | 0 | 11 | 140 | 166.4 | 1281.4 |
| NEW BRUNSWICK | | | | | | | | | | | | |
| FREDERICTON | 13.8 | 0.4 | 25.0 | 1.0 | 0.0 | 60.6 | 69 | 0 | 9 | 167 | 263.2 | 1775.0 |
| NOVA SCOTIA | | | | | | | | | | | | |
| KENTVILLE | 13.9 | -0.6 | 24.0 | 3.5 | 0.0 | 88.6 | 104 | 0 | 9 | 172 | 265.6 | 1851.6 |
| NAPPAN | 13.4 | 0.0 | 25.0 | 0.0 | 0.0 | 70.8 | 87 | 0 | 9 | 148 | 249.2 | 1657.5 |
| PRINCE EDWARD ISLAND | | | | | | | | | | | | |
| CHARLOTTETWN | *,* | *,* | *,* | *,* | *,* | *,* | **, | *** | *** | ** | *,* | *,* |
| NEWFOUNDLAND | | | | | | | | | | | | |
| ST. JOHN'S WEST | 12.0 | 0.4 | 22.5 | 4.5 | 0.0 | 160.2 | 151 | 0 | 16 | 114 | 204.0 | 1301.2 |

Courtesy of Agriculture Canada

... continued from page 5

mm. Much of Gaspé's total came from the heavy one-day total of 52.8 mm on the 6th and 40.8 mm on September 10-11. Sept-Îles recorded 84.6 mm of rain on the 29th. Sunshine amounts were slightly-below normal except well-below normal for Kuujjuaq where only 39.9 hours of sunshine were recorded (normal, 94 hours).

Maritimes

Near-normal temperatures prevailed. The regional average was 13.2°C, compared to the normal of 13.3°C. Individual locations varied from 0.7 Celsius degree below normal to 0.7 degree above normal.

Precipitation totals were between 56% and 142% of normal. In New Brunswick, Saint John recorded 62 mm (56% of normal) while Charlo recorded 104 mm (121% of normal). In Nova Scotia, Halifax International Airport recorded 69 mm (72% of normal) while Sable Island recorded 149 mm (142% of normal). Charlottetown, Prince Edward Island, recorded 88 mm of rain (93% of normal). Much of the precipitation was in the form of showers and also scattered thundershowers which occurred

along the Atlantic coast. A storm on the 5th sunk a fishing boat off the coast of Nova Scotia and five people drowned. Winds and high seas from the storm caused extensive damage to the New Brunswick herring fishing industry along the Bay of Fundy coast.

Bright sunshine hours in the Maritimes varied either side of normal. Values in New Brunswick were three to sixteen hours below normal. Charlottetown, P.E.I., reported seven hours below normal. Sunshine hours in Nova Scotia were 17 hours below normal at Yarmouth and 66 hours above at Sable Island. Due to the relatively-dry summer, streamflow conditions approached record lows in the Nova Scotia counties of Lunenburg, Hants and Halifax.

Newfoundland and Labrador

Damp best describes the weather for the Island. The month began with sunshine and above-seasonal temperatures but by the second week, an increase in cloud cover brought a drop in temperatures. Overnight lows dropped below freezing in central areas. A series of low pressure systems passed to the south of the Island, giving two

weeks of rain, drizzle and fog. As a result, most southern areas, including the Avalon Peninsula, received approximately 50 mm more than normal rainfall. St. Lawrence reported 217.4 mm (165% of normal). Overall, temperatures were near-seasonal, with Deer Lake recording the highest temperature (23.2°C, September 25) on the Island. With the abundance of cloud cover, sunshine totals were 30 to 40 hours below normal.

Clear skies and cool temperatures prevailed over Labrador during the first week of the month followed by cloud and warmer air the following week. Cloud persisted until near the end of the month when a ridge of high pressure brought clearer skies and warmer temperatures. Many maximum temperature records were set near month's end. On the 25th, Goose Bay recorded the highest temperature (25.7°C) for the entire province. For the month, temperatures in Labrador averaged from slightly-above normal to two Celsius degrees above normal. Precipitation totals were 10 to 30 mm below normal. Nain measured 30.0 mm, 50% of normal. Sunshine totals were near normal.