Climatic Perspectives

Monthly Supplement

Vol.7 September, 1985

ACROSS THE COUNTRY

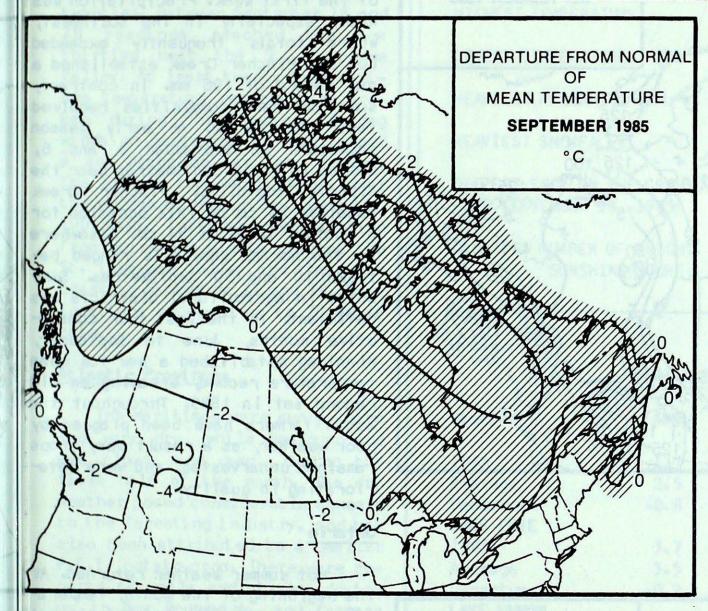
Yukon and Northwest Territories

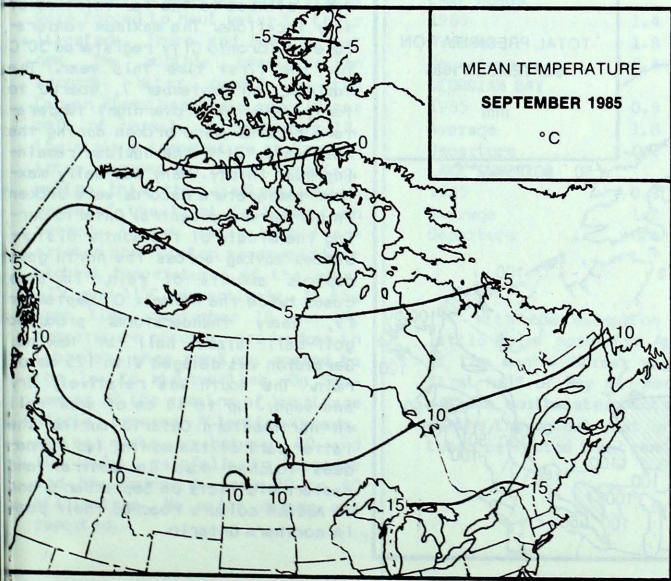
Autumn was evident in northern Canada as leaves were gradually changing colour. Frost occurred in most areas by the beginning of the month. The cruise ship World Discoverer had little difficulty reaching Baffin Bay after having to first manoeuvre through heavy ice in the Beaufort Sea. Above normal temperatures in the eastern Arctic delayed freeze-up by several weeks, but by month's end freeze-up had begun in the high Arctic After mid-month, vigorous weather systems tracked across the north, prompting the issuance of numerous wind and storm warnings. Waves in the Beaufort eroded a man-made island, causing a drilling rig to topple over. Ice conditions in the Beaufort worsened. and by the end of the month the Arctic ice pack had drifted southward into Amundsen Gulf, hampering re-supply operations. By month's end, temperatures in the high Arctic failed to climb above freezing, and snow once again had become a common occurrence.

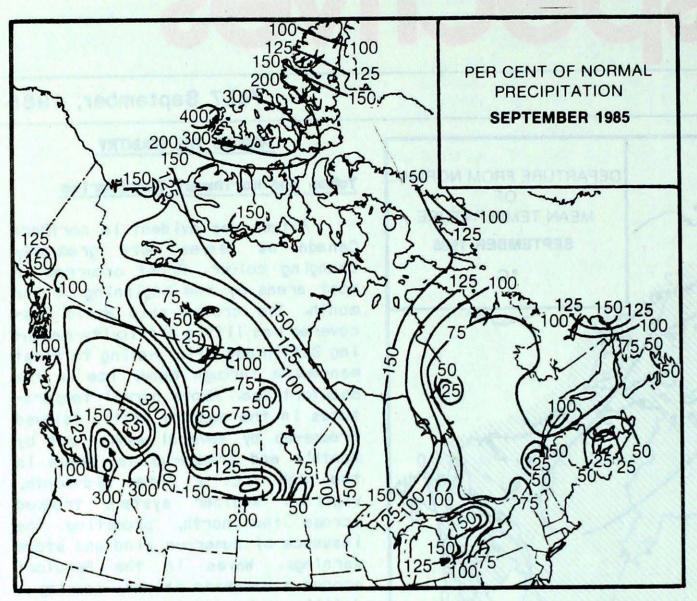
British Columbia

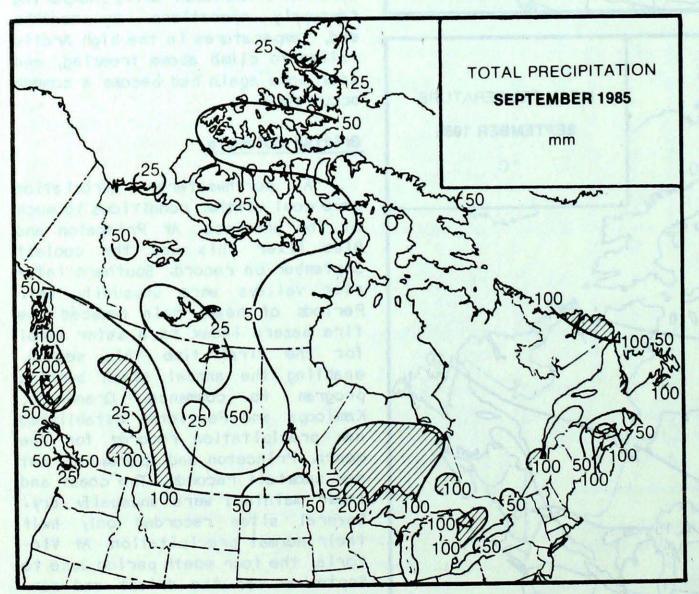
A northwesterly circulation gave cool weather conditions to much of the province. At Princeton and Blue River this was the coolest September on record. Southern interior valleys were unusually wet. Periods of heavy rain reduced the fire hazard index to a safer level for the first time this season. enabling the annual slash burning program to commence Cranbrock. Kamloops and Penticton established new precipitation records for the month. Princeton and Sparewood, set new snowfall records. The coast and lower mainland were unusually dry. Several sites recorded only half their normal precipitation. At Victoria, the four month period June to September was the driest and sunniest ever.

Canada









The Prairies

Cold, dull and wet sums up the month. Numerous low temperature records were broken during the course of the month, some dating back to the eighteen hundreds. Widespread killing frosts occurred by the end of the first week. Precipitation was heavy especially in the southwest, where totals frequently exceeded 100 mm. Pincher Creek established a new record of 196 mm. In contrast, some northern communities received less than 10 mm. An early season snowstorm on September 5 and 6, dumped 10 to 30 centimetres near the Alberta foothills. Pincher Creek received 34 cm on this occasion for a monthly total of 54 cm. Elsewhere to the north, snowfalls ranged between 10 and 30 centimetres. Sunshine in agricultural districts was deficient. In the last four consecutive months, June to September, Winnipeg established a new low mean temperature record, breaking an old record set in 1885. Throughout the month farmers have been plagued by poor weather, as a result many crops remained unharvested, and were deteriorating in quality.

Ontario

Hot summer weather returned. At the beginning of the month, temperatures climbed to the low thirties at many locations. The maximum temperature at Toronto City registered 30°C for the first time this year. The humidex, on September 7, soared to forty. Many warm overnight temperature records were broken during the heat wave, with the humidex remaining near thirty. Many new daily maximum temperature records were broken in northern and central Ontario during the middle of the month. Disturbances moving across the north gave copious amounts of rain, in some cases twice the normal. On September 19, heavy thunderstorms produced golf-ball sized hall at Nakina; Geraldton was deluged with 125 mm of rain. The south was relatively dry and sunny. Up to 40 cm of snow fell in northwestern Ontario during the latter part of the month. Two tornadoes touched down in central and eastern districts on September 6 and 7. Autumn colours reached their peak in northern Ontaria

SUNSHINE HOURS:

237 hrs

Quebec

Ideal harvesting weather benefited most of the agricultural community. With a few exceptions, it was mild, dry and seasonably sunny. In the south, temperatures frequently climbed to the midtwenties Between September 18 and 20 readings reached the low thirties near the St. Lawrence Valley. At least twenty five maximum temperature records were broken during this period Strong winds on September 21, overturned a sea plane on Lac Eon. Towards the end of the month, winds near the shores of Hudson Bay gusted to 100 km/h. Leftover precipitation from hurricane Gloria reached the St. Lawrence Valley and the north coast on September 27 and 28. Some locations received up to 70 mm of rain

Atlantic Provinces

The Maritimes were sunny, warm and very dry, while Newfoundland was cloudy and damp, during the first half of the month. The dry weather posed considerable concern to the foresting industry, and has also been attributed to a smaller P.E.I. potato crop. There were reports of wells and streams drying up in New Brunswick, and farmers were forced to haul water to their livestock. Truro and Moncton set monthly precipitation low records. Water runoff in the Canean River basin was only 19 per cent of normal. On September 12, the minimum temperature at Fredericton dropped to below freezing, making this the earliest occurrence of the first fall frost on record. A week later both Fredericton and Moncton recorded their highest temperatures of the year, 32°C and 31°C respectively. At the same time, September 18 and 19, temperature records were broken in Labrador, when readings soured to the low to mid-twenties. On September 28 the remains of Hurricane Gloria crossed Atlantic Canada, giving gusts to between 80 and 100 km/h; rainfalls in Labrador and New Brunswick were 30 to 40 millimetres. No major damage was reported.

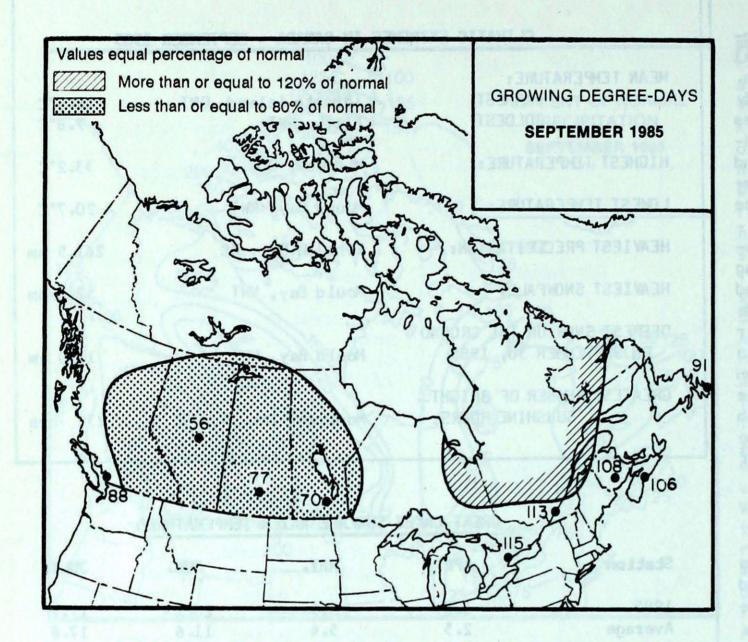
CLIMATIC EXTREMES IN CANADA - SEPTEMBER 1985 MEAN TEMPERATURE: WARMEST Toronto Island, ONT 18.5°C COLDEST Alert, NWT - 7.8°C HIGHEST TEMPERATURE: Windsor, ONT 33.2°C LOWEST TEMPERATURE: Mould Bay, NWT - 20.7°C **HEAVIEST PRECIPITATION:** Ethelda Bay, BC 261.5 mm HEAVIEST SNOWFALL: Mould Bay, NWT 52.6 mm DEEPEST SNOW ON THE GROUND ON SEPTEMBER 30, 1985: Mould Bay, NWT 18.0 cm GREATEST NUMBER OF BRIGHT

Montreal Int. A, QUE

	GREAT LAKES	SURFACE WATER	TEMPERATURES	
Station	APR.	MAY-	JUN.	JULY
1985	1.7	5.5	10.2	17.2
Average	2.5	5.4	11.6	17.8
Departure LAKE ERIE	-0.8	+0.1	-1.4	-0.6
1985	3.7	10.2	16.0	21.9
Average	3.5	9.4	16.7	21.4
Departure	+0.2	+0.8	-0.7	+0.5
LAKE HURON				
1985	1.4	4.4	8.6	15.0
Average	1.8	4.4	9.2	15.5
Departure GEORGIAN BAY	-0.4	0.0	-0.6	-0.5
1985	0.8	3.7	8.6	15.1
Average	1.0	3.8	9.1	15.9
Departure	-0.2	-0.1	-0.5	-0.8
LAKE SUPERIOR				
1985	0.8	2.6	4.3	8.4
Average	1.2	2.5	4.4	8.8
Departure	-0.4	+0.1	-0.1	-0.4

With the exception of Lake Erie, water temperatures were a little below normal in April due to cold weather in the first half of the month. Warmer weather during the latter part of April and first half of May allowed water temperatures to recover. Except in extreme southwestern Ontario, June and July were unseasonably cool months throughout most of the Great Lake Basin, and water temperatures reflected the trend admirably.

GROWING DEGREE DAYS



Values equal percentage of normal More than or equal to 105% of normal Less than or equal to 95% of normal TO END OF SEPTEMBER 1985

SEASONAL TOTAL OF GROWING

DEGREE-DAYS TO END OF SEPTEMBER

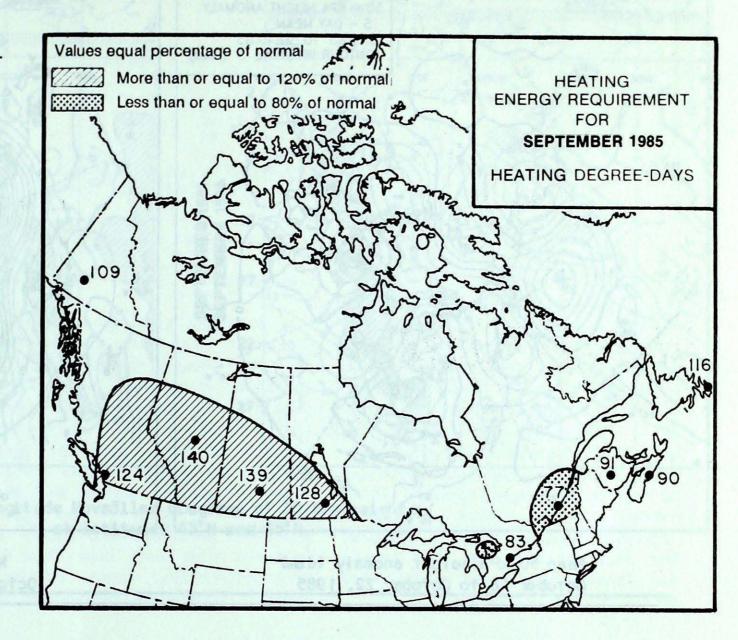
	1985	1984	NORMAL
BRITISH COLUMBI			
Abbotsford	1808	1729	1736
Kamloops	2163	2072	2149
Penticton	on 2085 1919 205 Rupert 972 1079 112		2059
Prince Rupert			1121
Vancouver	1778	1844	1796
Victoria	1638	1664	1654
ALBERTA	1707	1700	1707
Calgary	1327	1328 1564	1323
Edmonton Mun• Grande Prairie	1464	1137	1297
Lethbridge	1633	1629	1650
Peace River	1190	1121	1249
SASKATCHEWAN	FL M		
Estevan	1735	1912	1760
Prince Albert	1337	1488	1404
Regina	1569	1735	1674
Saskatoon	1545	1685	1593
Swift Current	1564	1604	1590
MANITOBA	1459	1658	1626
Brandon Churchill	615	748	544
Dauphin	1418	1622	1563
Winnipeg	1663	1766	1725
bundle district			
ONTARIO			
London	2127	1996	2030
Mount Forest	1667	1675	1642
North Bay	1612	1516	1616
Ottawa	2043	2029	1976
Thunder Bay	1396	1479 1958	1395 2046
Toronto	2056 1987	1913	2033
Trenton Windsor	2515	1325	2356
QUEBEC	- 35134		79217-
Baie Comeau	1125	1099	1146
Ma niwa ki	1639	1594	1687
Mont réal	2031	2048	2040
Quebec	1737	1744	1678
Sept-Iles	1122	1077	1027
Sherbrocke	1648	1524	1692
NEW BRUNSWICK			
Charlo	1468	1508	1430
Fredericton	1736	1782	1719
Moneton	1618	1682	1590
NOVA SCOTIA			
Sydney	1463	1607	1441
Truro	1494	1639	1482
Yarmouth	1469 ISLAND	1527	1450
PRINCE EDWARD D Charlottetown	1596	1697	1536
NEWFOUNDLAND	Juley		
Gander	1206	1336	1207
St. John's	1108	1376	1101
Stephenville	1293	1470	1241

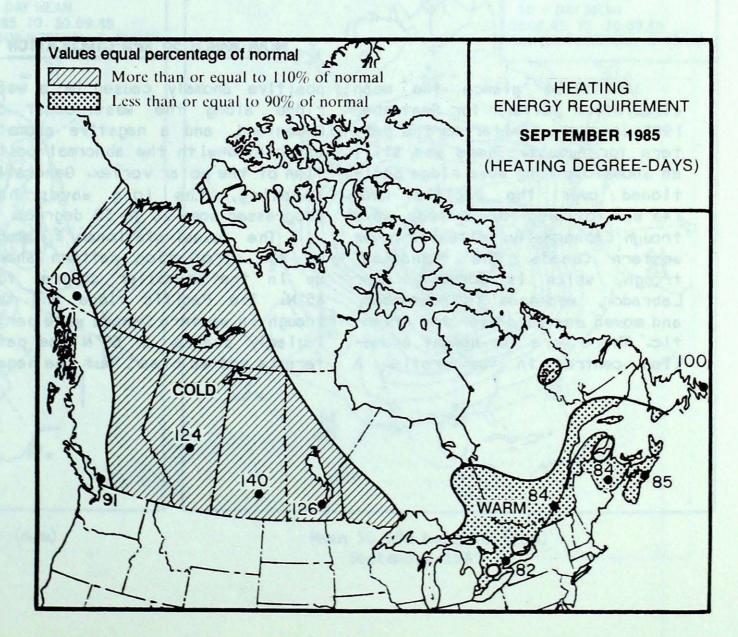
SEASONAL TOTAL OF HEATING

DEGREE-DAYS TO END OF SEPTEMBER

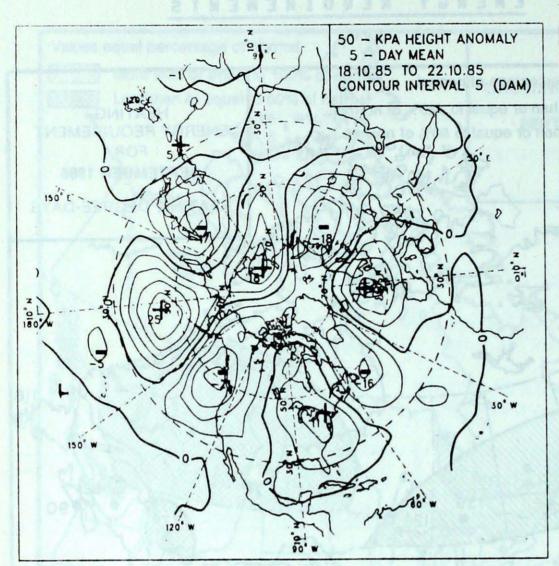
	<u>Entra</u>		VETT
	1985	1984	NORMAL
BRITISH COLUMBI	A 175	181	170
Kamloops Penticton	184	190	138
Prince George	516	551	504
Vancouver	185	201	201
Victoria	237	273	251
1000110			
YUKON TERRITORY			
Whitehorse	691	782	641
NORTHWEST TERRI	TORIES		
Frobisher Bay	1083	1192	1191
Inuvik	981	903	897
Yellowknife	724	549	556
ALBERTA			
Calgary	515	427	415
Edmonton Namao	454	385	366
Grande Prairie	521	556	438
SASKATCHEWAN Estevan	329	270	242
Regina	394	321	272
Saskatoon	396	346	296
MANITOBA	770	- /	270
Brandon	414	320	279
Churchill Churchill	796	745	813
The Pas	464	372	367
Winnipeg	315	263	240
ONTARIO			
Kapuskasing	357	407	398
London	105	146	128
Ottawa	110	155	156
Sudbury	223	278	271
Thunder Bay Toronto	333	313	342
Windsor	100	153	121
WI HOUSE	02	76	76
QUÉBEC			
Baie Comeau	386	431	419
Mont real	102	162	121
Quebec	164	227	225
Sept-Iles	398	429	473
Sherbrooke	224	322	312
Val-d'Or	334	397	380
NEW BRUNSWICK			
Charlo	241	257	254
Fredericton	183	199	227
Moncton NOVA SCOTIA	178	198	219
Halifax	147	158	173
Sydney	181	195	211
Yarmouth	240	230	238
	SLAND		
Charlottetown	153	179	198
NEWFOUNDLAND			
Gander	363	322	358
St. John's	376	256	377

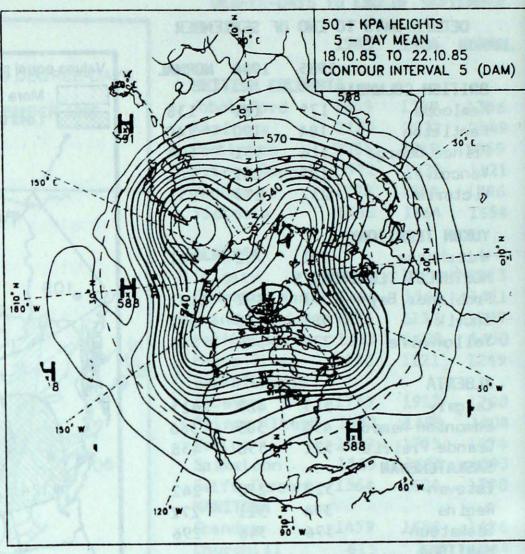
ENERGY REQUIREMENTS





ATMOSPHERIC CIRCULATION





Mean 50 kPa height anomaly (dam) October 18 to October 22, 1985

Mean 50 kPa heights (dam) October 18 to October 22, 1985

MEAN MARCH 50 KPa CIRCULATION

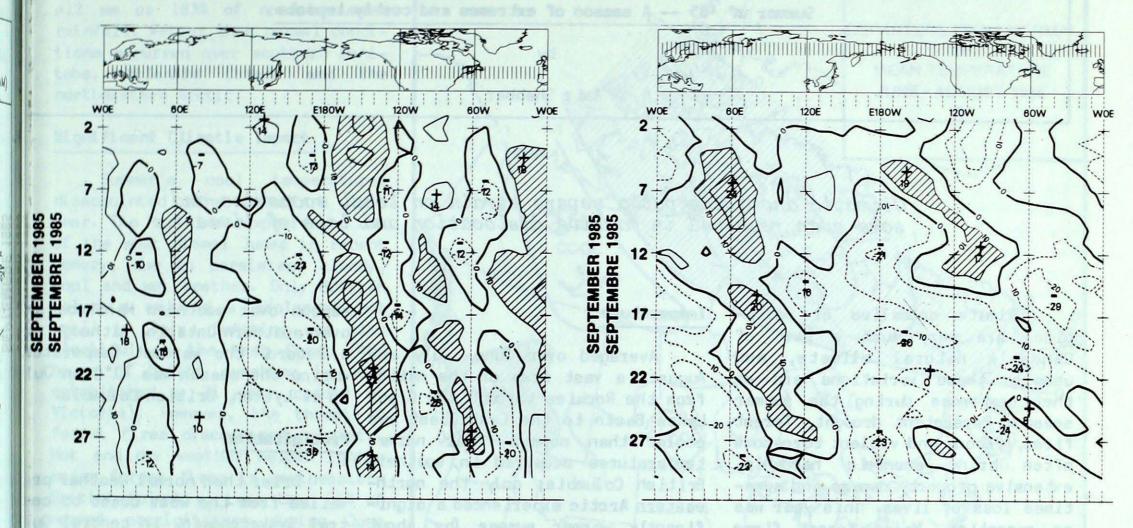
At first glance the mean circulation pattern for September 1985 was very similar to the pattern for August. There was still an anomalous long wave ridge positioned over the Pacific near 145°W, followed by a long wave trough abnormally situated over The "Canadian" western Canada. trough, which is normally over Labrador, weakened in September, and moved eastward over the Atlantic. There were two height anomalies centres in the Arctic. A positive anomaly caused by a weak ridge along the west coast of Greenland, and a negative anomaly associated with the abnormal position of the polar vortex. Generally speaking, the long waves had progressed some 20 to 30 degrees.

The quasi-stationary nature of the circulation pattern shows up in the Hovmöller diagram for 45°N. The Pacific ridge and the trough in western Canada were particularly stable. At 65°N the pattern is not as clear, but the nega-

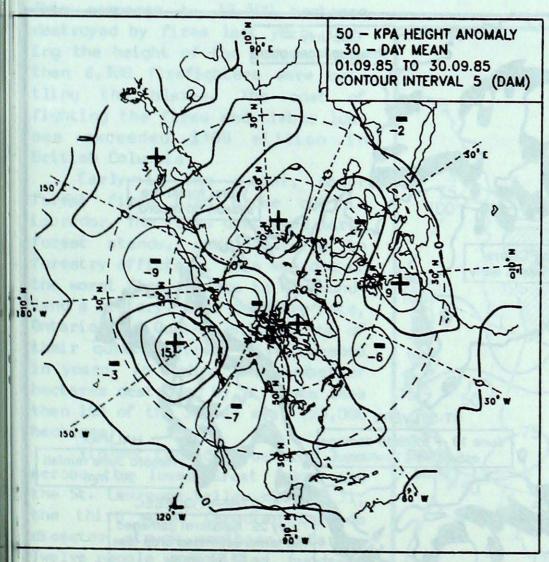
tive values at 180°W show the effect of the Arctic vortex being displaced toward Alaska, away from its normal position at the pole.

The mean atmospheric flow was zonal in the east, but had a northerly component over the Prairies, which explains the near total absence of mean temperature anomalies in eastern Canada and the negative anomalies in the west. Over northern Quebec and Baffin Island, the positive anomaly is related to the ridge mentioned earlier.

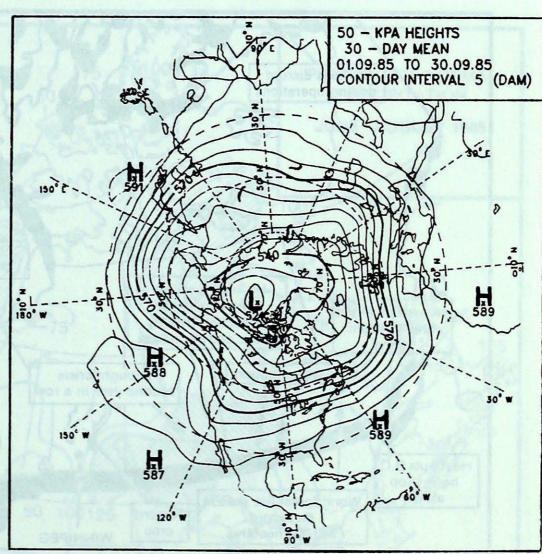
ATHOSPHERIC CIRCULATION



Time-longitude Hovmöller diagrams of 50 kPa heights at latitudes 45°N and 65°N



Mean 50 kPa height anomaly (dam) September 1985



Mean 50 kPa heights (dam) September 1985

Summer of '85 -- A season of extremes and costly impacts

by

Amir Shabbar

Climatic anomalies put a severe strain on local economies and some even resulted in massive dislocation and loss of lives.

Climate anomalies or variations are very much a part of Canada's natural climate, and usually these variations are at their extremes during the summer season. Persistent drought, forest fires, floods and violent tornadoes often bring economic hardship, extensive property damage and sometimes loss of lives. This year was no exception. Major forest fires burned valuable timber in British Columbia, severe drought plaqued the southern Prairies, and tornadoes brought death and destruction to southern Ontario.

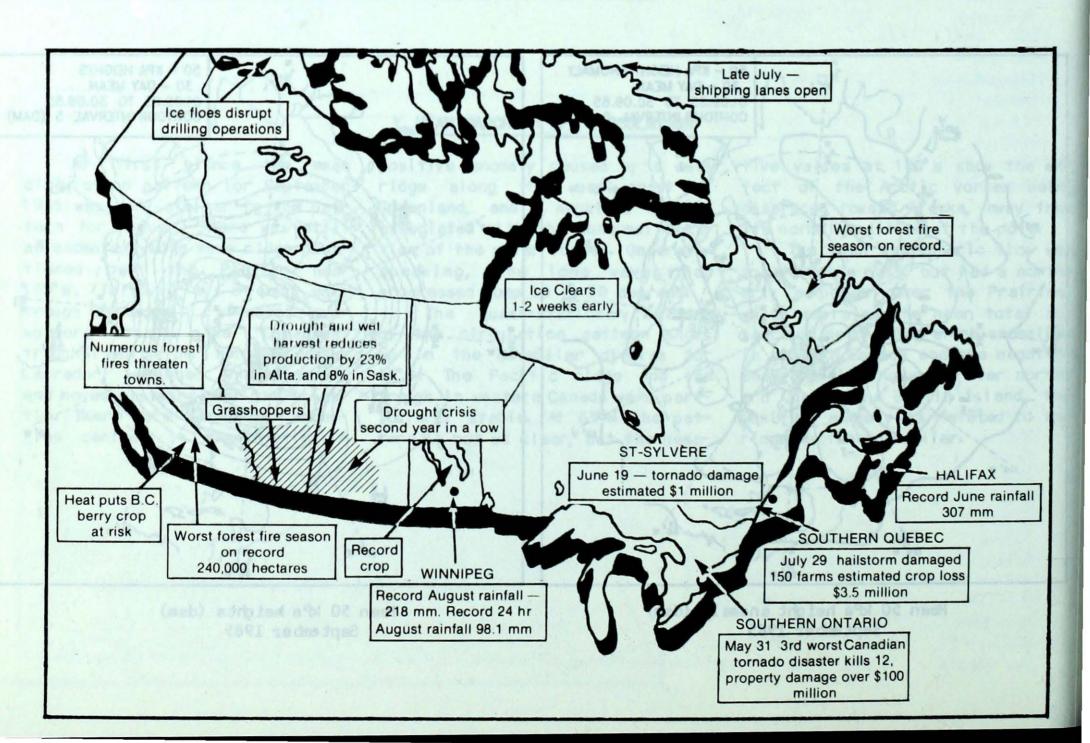
Temperature

Averaged over June, July and August, a vast area of the nation from the Rockies through the Great Lakes Basin to the East Coast was cooler than normal. Near normal temperatures occurred in southern British Columbia; only the northeastern Arctic experienced a significantly warmer summer (by about 2°C). The majority of the climate stations reported temperature departures that were less than 2°C. Cool conditions, about 1°C below tions, receiving only 41% of normal normal, persisted throughout the summer

season over southern Manitoba and over southern Ontario. Although not a record, the warmest temperature during the season was 41°C on July 30 at Lytton, British Columbia.

Precipitation

Drier than normal weather prevailed from the west coast to central Saskatchewan, in central Quebec and over the northwestern Arctic Islands. Swift Current, Saskatchewan, was one of the driest locaprecipitation Waterloo,



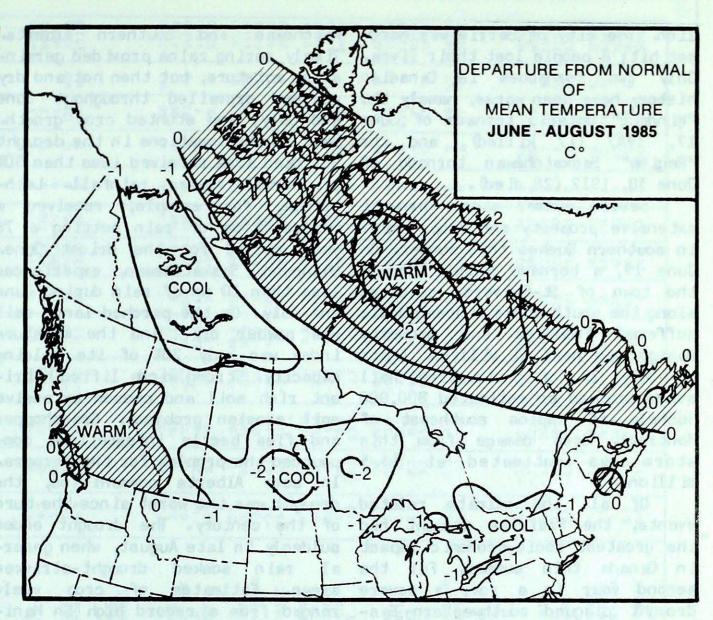
Ontario, was the wettest, reporting 412 mm or 183% of normal summer rainfall. Wetter than normal conditions occurred over southern Manitoba, Atlantic Canada and the northeastern Arctic.

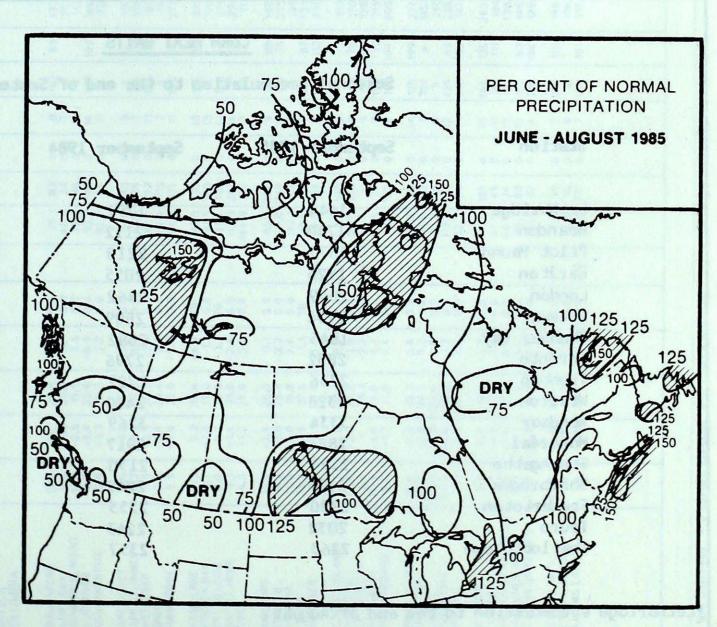
Significant Climatic Impact

Summer's cool temperatures disappointed many Canadians this year. The Maritimes experienced one of the most dismal Junes in recent memory, due to persistent cloudy, cool and wet weather. Only British Columbia enjoyed a prolonged hot spell in July. Sunshine was also plentiful on the West Coast (400 hours of bright sunshine in July established a 71 year record at Victoria). However, the threat of forest fires discouraged tourists. Hot and dry weather helped ignite major forest fires in southeastern British Columbia. Less than 50% of normal precipitation during June and July combined with oppressively hot temperatures resulted in the worst forest fire season ever in British Columbia. The town of Canal Flats was evacuated for several days. Forest fires consumed over 240,000 hectares of prime timber. This compares to 19,500 hectares destroyed by fires last year. During the height of the season, more than 6,300 firefighters were battling the blazes. The cost of fighting the fires and timber losses exceeded \$300 million in British Columbia.

Early in the summer, major forest fires also broke out in Labrador. The fires destroyed large forest stands, and according to forestry officials, this was one of the worst fire seasons in Newfoundland's history. On a positive note, Ontario and Quebec enjoyed one of their quieter forest fire seasons in years. In Quebec, the number of hectares destroyed by fire was less than 10% of the 5-year mean (53,000 hectares).

Violent tornadoes ushered June across the lower Great Lakes and the St. Lawrence Valley. On May 31, the third worst Canadian tornado disaster struck southern Ontario. Twelve people were killed, hundreds were injured or made homeless. Property losses exceeded \$100 mil-





lion. The city of Barrie was hardest hit: 8 people lost their lives. Only two tornadoes in Canadian history have been worse, namely the "Windsor" Ontario tornado of June 17, 1947 (17 killed), and the "Regina" Saskatchewan tornado of June 30, 1912 (28 died).

Severe summer storms brought extensive property and crop damage to southern Quebec this summer. On June 19, a tornado ripped through the town of St-Sylvere, situated along the south shore, three people suffered injuries and property damage was near \$1 million. Again on July 29, a destructive hail storm damaged an estimated 800,000 bushels of apples southeast of Montreal. Crop damage from this storm was estimated at \$3.5 million.

Of all the climate related events, the Prairies drought had the greatest socio-economic impact in Canada this summer. For the second year in a row, a severe

and southern Alberta. kat chewan Timely spring rains provided germination moisture, but then hot and dry weather prevailed throughout June and July, and stunted crop growth. Most of the locations in the drought stricken area received less than 50% of normal summer rainfall Lethbridge, for example, received a meagre 3 mm of rain setting a 78 year record for the driest June. Shanevon, Saskatchewan, experienced less than 10 mm of rain during June and July. On the parched land, soil was powder dry and the moisture index was only 20% of its holding capacity. Strong winds lifted nutrient rich soil and caused extensive soil erosion problems. Grasshopper and flea beetle infestations compounded the problem for the farmers. In some Alberta communities, the drought was the worst since the turn of the century. The drought ended suddenly in late August, when general rain soaked drought-stricken areas. Estimates of crop yield drought plagued southwestern Sas- ranged from a record high in Mani-

toba to significantly below average in Alberta Because of the favourable growing season in Manitoba, the Prairie grain production was expected to be up by 5.5 million tonnes. Grain production in Alberta and Saskatchewan, however, forecast to be down by 23% and 8% respectively. According to Statistics Canada, the 1985 drought is expected to inflict \$1 billion of direct losses to grain farmers.

Warmer than normal temperatures helped to disintegrate pack ice along the Labrador Coast in June and July about 1 week earlier than usual this year. Shipping lanes to the Arctic stations were open by late July and iceberg population in the Labrador Sea was also low this summer. Clearing of ice in Hudson Bay was about 10 days earlier than average. In the Beaufort Sea, onshore winds pushed pack ice perilously close to the drill sites. where ice conditions were described as the worst since 1978.

CORN HEAT UNITS

Seasonal Accumulation to the end of September

			-sol redail	Per cent of
Station	September 1985	September 1984	Normal I	Norma 1
Lethbridge	1644	1791	1731	95*
Brandon	1740	2112	2175	80
Pilot Maund	1877	2218	2086	90
Earlton	1923	2055	1702	113
London	2869	2862	2840	101
Ottawa	2734	2809	2761	99 (10
Thunder Bay	1845	2002	1633	113
Toronto	2832	2796	2804	101
Trenton	2736	2792	2942	93
Wiarton	2328	2400	2335	97
Windsor	3334	3269	3301	101
Montréal	2884	2917	2943	98
Ste Agathe	2154	2130	2092	103
Sherbrocke	2177	2249	2623	83
Fredericton	2200	2355	2245	98
Truro	2032	2243	1814	112
Charlottetown	2263	2357	2241	101

*Lethbridge accumulation to the end of August

STATISTICS

													SEPTEM	BER 1985													
HITTE WORKS	Terr	peratur	e C	-9.5					(cm)	Tore			3673		Tem	peratur	e C						(cm)	nore			
STATION	Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (c	No. of days with Precip 1.0 mm or m	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C	STATION	Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (c	No. of days with Precip 1.0 mm or m	Bright Sunshine (hours)	7 of Normal Bright Sunshine	Degree Days below 18 C
BRITISH COLUMBIA	0.0 0.0 0.0 0.0 0.0 0.0	-38 -37 -37 -37 -37 -37	SERBE E	Section of	50 SECURE	PROF 161 1000 24 32 4	2 (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2		00000	対の日本の つの	135 135 163 163 163	69. 09 09	3083 5085 3083 3083 8655	YUKON TERRITORY	90	-0.7	17.7	-9.8	0.8	13	41.4	173	-	8	X man Brass		404.8
ABBOTSFORD ALERT BAY AMPHITRITE POINT BLUE RIVER BULL HARBOUR	13.4 11.3 12.9 8.6 10.8	-1.1 -1.3 -0.5 -2.4 -1.3	24.4 20.2 19.5 23.4 19.3	1.7 4.1 7.5 -6.5 2.2	0.0 0.0 0.0 0.0 0.0		75.1 46.0 72.5 92.7 82.4	83 38 45 109 54	0 0 0 0 0	8 7 10 14 11	162 X X 137 X	93	133.6 201.6 152.3 MSG 217.3	DAWSON MAYO WATSON LAKE WHITEHORSE	4.7 5.7 7.3 6.9	-0.7 -0.8 -0.3 -0.6	17.9 17.5 20.5 19.2	-8.3 -6.3 -7.3 -4.7	2.0 0.0 1.0 1.6	24 29 35	49.9 35.6 50.4 27.5	138 117 115 90	0 0 0	11 7 12 11	X X 139 147	109	398.2 MSG 323.5 333.8
CAPE SCOTT CAPE ST.JAMES CASTLEGAR COMOX CRANBROOK	11.4 12.7 11.9 13.3 8.9	-1.3 -0.2 -2.5 -0.4 -3.4	17.6 17.7 28.3 23.6 22.0	5.9 8.4 -2.7 2.8 -5.8	0.0 0.0 0.0 0.0 13.2		84.1 44.5 92.4 59.6 96.9	-	0 0 0 0 0	9 7 11 7 11	X 174 144 X 144	75	197.7 158.5 186.7 141.1 273.6	NORTHWEST TERRITORIES ALERT BAKER LAKE CAMBRIDGE BAY	-7.8 3.6 0.7	2.4 1.3 1.4	3.5 16.4 10.1	-20.1 -5.9 -5.3	2.6 2.8 14.0	7 47 164	1.0 72.6 23.9	3 196 138	4 0 TR	0 12 4	160 85 93	193 79 112	772.8 431.7 518.6
DEASE LAKE ETHELDA BAY FORT NELSON FORT ST.JOHN HOPE KAMLOOPS	7.3 10.7 9.0 8.1 14.3	0.2 -1.4 0.3 -1.4 -1.2	19.4 19.0 22.6 21.0 26.0	-4.9 1.1 -3.1 -2.4 5.5	TR 0.0 TR 0.0 0.0		61.0 261.5 81.4 112.8 144.8	1	00000	13 13 10 14 7	145 X 148 X 0	114	322.2 220.6 271.4 297.9 111.7	CAPE DYER CAPE PARRY CLYDE COPPERMINE CORAL HARBOUR EUREKA	0.9 0.9 3.3 3.1 -3.7	2.5 0.2 1.1 0.8 2.2 4.6	8.2 12.1 8.9 19.2 12.4 4.5	-12.0 -6.0 -7.4 -5.0 -5.0 -19.5	23.0 5.0 46.6 10.3 7.0 17.0	159 194 70 165	47.8 15.1 59.0 39.7 52.6 25.5	167 165 154 265	10 TR 10 0	9 6 12 7 8 6	73 91 122 130	85 129 113 127	512.1 441.8 445.0 651.0
KELOWNA LANGARA LYTTON MACKENZIE MCINNES ISLAND	11.2 11.3 13.7 7.0	-1.9 -0.8 -2.8 -2.1	25.3 15.9 27.5 21.0	-3.2 7.4 1.1 -5.5	0.0 0.0 TR 1.8	300		249 96 176 159	0000	10 13 7 11	155 X 161 150 X	75 87 112	205.2 199.2 133.2 330.1	FORT RELIANCE FORT SIMPSON FORT SMITH FROBISHER BAY HALL BEACH	5.7 7.6 6.0 3.6 1.4	-0.4 0.3 -1.5 1.2 2.0	13.3 22.1 9.7 8.5	-3.3 2.1 -8.2 -2.5 -7.8	7.4 0.8 1.2 1.0 18.1	296 14 60 7 149	26.2 14.3 6.9 68.9 45.8	86 45 16 149 167	0 0 0 0 TR	6 3 3 10 9	182 123 101 X	136 93 122	367.9 311.6 358.3 433.0 498.6
PENTICTON PORT ALBERNI PORT HARDY PRINCE GEORGE PRINCE RUPERT	12.4 13.4 10.8 8.0	-2.3 * -1.0 -1.7	25.8 26.1 19.0 21.8	-1.8 -2.2 0.7 -5.4	0.0 0.0 0.0 TR	38	56.4 66.9 53.5 79.5	318 * 39 135	0 0 0 0	9 9 8 10	165 177 190 167	78 * 137 104	170.2 138.0 215.9 300.7	INUVIK MOULD BAY NORMAN WELLS POND INLET	7.2 4.3 -5.7 7.2 0.2	-0.9 1.2 0.8 1.1 2.3	23.6 19.8 3.9 22.3 11.9	-2.7 -8.3 -20.7 -3.0 -9.4	7.0 52.6 9.2 14.7	78 58 392 173	21.4 27.1 60.2 52.1 48.4	50 113 436 177	0 0 18 0 4	8 10 11 10 9	107 33 MSG X	97 72	325.2 407.6 710.9 323.3 535.1
PRINCETON QUESNEL REVELSTOKE SANDSPIT SMITHERS	10.0 9.1 10.4 13.1 9.2	-2.9 -2.2 -2.4 0.2 -0.6	24.0 22.4 22.2 20.4 21.2	-5.2 -4.8 -1.2 7.0	1.4 0.0 0.0 0.0		45.0 71.2 118.1 52.3 83.1	156 201 58	0 0 0	7 8 12 11	160 X 135 146	89 105	MSG 265.1 226.7 147.8	SACHS HARBOUR YELLOWKNIFE ALBERTA	-1.4 -1.7 5.6	3.7 0.3 -1.1	7.0 17.0	-11.7 -11.8 -4.3	10.0 5.8	91 161	57.0 32.8 24.7	316 192 80	TR 0	12 8 6	33 86 177	55 107 116	581.5 589.9 372.0
TERRACE VANCOUVER HARBOUR VANCOUVER INT'L VICTORIA GONZ. HTS	11.7 13.6 13.1 13.8	-0.2 -1.0 -1.1 -0.4	23.4 21.5 21.4 21.2	2.5 6.6 4.2 7.4	0.0 0.0 0.0 0.0	Material	67.0 98.0 59.1 21.1	68 124 88 62	0 0 0	11 10 10 4	141 X 172 215	93 104	184.1 130.9 146.5 126.9	BANFF BROOKS CALGARY INT'L	6.1 8.2 6.8	-3.2 -3.7 -3.8	19.0 22.0 20.1	-8.0 -7.5 -9.0	10.0 0.0 14.0	161 237	72.8 65.5 123.8	174 157 324	0 0 0	MSG MSG 7	X 129 131	* 67	MSG MSG 334.5
VICTORIA INT'L VICTORIA MARINE WILLIAMS LAKE	13.3 12.2 7.4	-0.6 -0.8 -2.9	22.6 21.9 20.7	2.9 2.8 -5.2	0.0	316	7.5 34.5 75.9	55	0 0 0	3 8 7	215 X 188	101	140.7 176.3 317.8	COLD LAKE CORONATION EDMONTON INT'L EDMONTON MUNI. EDMONTON NAMAO EDSON FORT CHIPEWYAN	7.2 6.5 7.1 7.8 7.1 5.9 6.6	-2.6 -4.0 -2.7 -3.2 -3.3 -2.6 -1.2	19.7 20.7 18.9 19.0 19.2 21.4 22.5	-7.4 -8.0 -6.1 -4.7 -5.7 -9.6 -6.5	3.2 3.8 5.8 0.4 2.0 5.2 0.2	128 131 214 18 100 65	21.2 28.4 56.0 44.6 42.6 76.4 23.0	47 86 122 114 102 171 54	0 0 0 0 0 0	12 12 13 11 MSG	113 125 122 141 X 109 X	64 60 66 77 67	313.8 339.1 328.9 304.1 325.4 363.4 MSG

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STATION	Ten	Difference from Normal	Maximum	Minimum	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)	7 of Normal Bright Sunshine	Degrae Days below 18 C	STATION	Ten	Difference from Normal	Maximum	Minimum	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
FORT MCMURRAY GRANDE PRAIRIE HIGH LEVEL IASPER LETHBRIDGE	7.2 7.7 6.4 6.3 8.4	-1.8 -2.1 -1.7 -3.5 -4.3	21.5 21.6 22.2 23.0 22.1	-7.4 -4.4 -6.0 -7.4 -8.2	1.2 5.4 6.5 0.6 6.2	30 138 500 54 72	51.9 80.5 41.2 45.0 116.6	88 215 121 118 313	0 0 0 0 0 0	11 13 5 8 11	135 118 154 127 MSG	94 * 103 *	325.8 308.6 349.5 351.5 287.6	THE PAS THOMPSON WINNIPEG INT'L	8.5 6.9 10.0	-1.3 0.0 -2.4	24.1 21.4 24.0	-2.8 -6.2 -3.8	TR 0.9 TR	31	36.2 48.8 28.5	63 76 53	0 0 0	5 10 7	156 161 159	99 126 86	28 33 24
MEDICINE HAT PEACE RIVER RED DEER ROCKY MTN HOUSE BLAVE LAKE	8.9 7.6 6.3 6.0 7.0	-4.3 -1.5 -3.8 -3.7 -2.0	24.6 21.6 20.3 21.2 19.3 24.2	-5.9 -4.3 -9.5 -8.4 -6.9	11.2 TR 8.6 10.8 3.8	589 209 171 126 45	61.3 104.9 85.2 145.3 77.4	189 271 194 292 155	0 0 0 0 0	7 13 10 14 13	127 X X X 131	63 80 64	273.6 314.9 339.4 359.9 329.5	ATIKOKAN BIG TROUT LAKE EARLTON GERALDTON GORE BAY	10.1 8.4 12.2 10.1 14.9	-0.1 0.3 1.1 0.8 1.1	25.2 20.9 26.2 25.0 26.0	-3.7 -2.4 0.0 -2.2 4.4	29.8 41.4 0.0 0.0 0.0		232.0 125.9 86.9 189.6 78.4	171 87 250	0 0 0 0 0	13 12 8 14 8	152 119 X X	90	2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
WHITECOURT SASKATCHEWAN BROADVIEW COLLINS BAY	7.8 5.1	-2.5 -2.8 -1.0	20.2	-8.4 -3.8 -5.5	10.8	317 371 336	127.7	369 227 106	0	13	136 166	72	348.4 305.2 391.6	HAMILTON RBG HAMILTON KAPUSKASING KENORA KINGSTON	18.1 17.1 11.2 9.9 15.8	1.3 1.4 1.2 -1.7 0.4	32.0 30.2 26.1 22.7 25.8	5.3 4.3 -1.7 0.3 3.6	0.0 0.0 5.0 MSG 0.0	208	44.5 42.8 87.4 65.1 72.2	60	0 0 MSG 0 0	10 8 10 8 6	205 X X X 167	98	M 21 2 6
CREE LAKE ESTEVAN HUDSON BAY KINDERSLEY LA RONGE	5.8 9.5 8.1 7.7 7.3	-2.1 -2.9 -1.7 -3.8 -1.8	20.2	-8.6 -4.8 -3.8 -7.4 -6.0	1.2 0.8 5.2 4.4 TR	15 61 162 440	48.8 46.8 42.7 20.5 60.4	85 107 81 77 102	0 0 0	8 8 6 9 7	163 119 164 X X	121 56 *	364.0 254.3 296.0 307.4 321.8	LANSDOWNE HOUSE LONDON MOOSONEE MOUNT FOREST MUSKOKA	9.4 16.6 10.7 15.3 14.3	0.4 1.2 1.2 1.5 1.1	22.6 30.6 26.1 28.2 27.3	-1.0 3.0 -1.2 -0.5 0.7	2.6 0.0 0.0 0.0 0.0	47	141.8 63.0 110.6 128.4 190.2	80 137 160	0 0 0	13 10 10 10 10 8	X 186 134 MSG X	107	25 8 22 1 1
MEADOW LAKE MOOSE JAW NIPAWIN NORTH BATTLEFORD PRINCE ALBERT	7.3 9.0 7.7 8.0 7.7	-2.9 -3.5 * -3.0 -2.2	20.6 25.4 25.4 21.2 22.6	-5.1 -4.4 -6.6 -5.0 -8.2	3.2 4.4 6.2 0.6 0.8	110 191 * 75 34	27.9 39.4 36.6 30.5 32.3	65 110 *	000	7 10 7 8	124 129 163 X 157	63 97	309.5 269.2 310.2 302.3 309.5	NORTH BAY OTTAWA INT'L PETAWAWA PETERBOROUGH PICKLE LAKE	13.5 16.0 14.1 15.0 8.8	1.3 1.7 1.5 1.0 -0.5	25.3 30.2 29.4 29.9 23.3	0.6 3.2 0.1 1.2 -2.2	0.0 0.0 0.0 0.0 17.4	404	82.1 46.2 54.8 77.8 161.4	58 65 106	0 0 0 0	8 7 7 8 15	143 MSG X X X	92	14 8 13 11 26
REGINA SASKATOON SWIFT CURRENT URANIUM CITY WYNYARD	8.6 8.7 7.8 6.0 8.0	-3.1 -2.5 -3.9	24.5 23.7 24.6 21.1	-6.4 -5.2 -5.2 -6.6	7.2 3.2 11.3	400 266 389	56.0 42.0 51.4 36.2	152 132 150 102	0 0 0	10 8 15	131 X 126 X	68	284.0 279.8 309.0 360.3	RED LAKE ST. CATHARINES SARNIA SAULT STE. MARIE SIMCOE	8.9 18.3 17.4 13.8 17.0	-1.9 1.3 0.9 1.0 1.3	22.1 29.9 31.4 27.7 31.0	-3.3 6.3 4.2 0.9 3.5	1.4 0.0 0.0 0.0 0.0	127	97.9 40.0 123.8 81.2 51.8	156 49 197 85 62	0 0 0	9 6 10 10 7	122 X 189 128 X	# 96 81	27 5 7 13 8
MANITOBA	8.3	-2.9 -2.6	24.4	-6.1 -4.7	8.8	283	41.6	111	0	10 9	138 152	73	300.4	SIOUX LOOKOUT SUDBURY THUNDER BAY TIMMINS TORONTO	13.8 13.6 11.4 11.5 18.4	3.1 1.4 0.3 1.2 1.3	23.8 28.6 28.5 26.4 30.1	-0.6 1.0 -2.6 -2.5 7.1	7.0 0.0 9.2 0.0 0.0	388	162.2 69.2 147.8 103.2 64.6	198 64 165 112 97	0 0 0 0	13 8 11 10 9	X 161 207 X MSG	106 123	25 14 20 20
BRANDON CHURCHILL DAUPHIN GILLAM GIMLI	8.6 6.9 8.9 7.3 9.4	-2.8 1.5 -2.4 0.7 -2.3	21.9 22.8 24.0 21.3 23.0	-6.2 -2.8 -3.5 -3.3 -2.8	TR 6.8 4.3 20.0 2.8	106 330 357	72.9 77.1 75.3 78.4	164 151 127 153	0 0 0 0	11 10 9 12	X 134 134 X	120 75	281.3 332.6 272.8 312.8	TORONTO INT'L TORONTO ISLAND TRENTON WATERLOO-WELL WAWA	17.0 18.5 16.0 15.7 11.1	1.5 2.1 0.7 0.9	30.2 30.6 28.7 29.0 24.8	3.4 6.9 4.1 1.9 -2.2	0.0 0.0 MSG 0.0 0.0	•	57.6 78.6 58.7 80.7 220.8	90 113 80 116	0 0 0 0	7 9 8 8 7	MSG X X MSG	- Grandelle	3 6 10 21
ISLAND LAKE LYNN LAKE NORWAY HOUSE PILOT MOUND PORTAGE LA PRAIRIE	8.7 6.1 8.2 9.1	-2.3 -0.5 -0.6 * -2.8 -2.3	21.3 23.6 20.4 23.2 24.1	-2.8 0.0 -7.6 -4.0 -6.0 -1.8	2.8 20.8 2.5 7.3 1.8 1.0	933 305 27 * 900 100	62.0 32.3 81.5 27.8 64.9	103 44 4 48	0 0 0 0 0 0	9 12 5 9 6	MSG MSG X X	92	256.6 280.9 357.1 294.9 267.7 237.7	WIARTON	15.9	1.7	27.6 33.2	3.6 5.7	0.2		145.1 70.3	153 104	0	117	181 X	106	8

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	Ten	nperatu	re C						(cm)	more		1		No.	Ten	nperatur	e C						(cm)	more			
STATION	Mean	Difference from Normal	Moximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (No. of days with Precip 1.0 mm or 1	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C	STATION	Меал	Difference from Normal	Maximum	Minimum	Snowfall (cm)	Z of Normal Snowfall	Total Precipitation (mm)	Z of Normal Precipitation	Snow on ground at end of month (c	No. of days with Precip 1.0 mm or n	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
QUEBEC														NOVA SCOTIA													
BAGOTVILLE BAIE COMEAU BLANC SABLON CHIBOUGAMAU GASPE	12.6 10.9 9.0 10.0 12.0	1.5 1.1 0.4 0.8 0.7	30.5 22.2 15.7 23.6 26.6	0.0 -0.5 -0.8 -1.5 -0.3	0.0 0.0 0.0 0.0 0.0		76.4 92.3 77.0 72.2 76.6	76 89 87 82 108	0 0 0 0 0	8 10 12 9 10	X 162 104 114 177	*	171.3 259.1 240.5 183.4	GREENWOOD HALIFAX INT'L SABLE ISLAND SHEARWATER SYDNEY	14.4 14.8 14.4 15.2 13.5	0.6 1.0 -1.3 0.7 0.0	28.8 28.8 21.0 27.3 26.9	2.4 4.6 3.8 6.2 2.5	0.0 0.0 0.0 0.0 0.0		16.0 30.5 59.2 29.8 42.3	19 32 64 34 48	MSG 0 0 0	3 5 4 7 8	X 0 111 191 189	122 105 112	136.7 101.7 109.2 90.5 137.9
INUKJUAK KUUJJUAQ KUUJJUARAPIK LA GRANDE RIVIERE MANIWAKI	7.3 7.9 8.8 8.7 13.3	2.3 2.5 1.7 * 1.2	15.8 19.0 21.6 21.2 28.4	0.6 -1.0 0.3 -0.7 0.3	0.2 4.4 2.6 TR 0.0	4 51 152 *	59.4 49.6 98.4 44.6 60.0	100 85 112 * 62	0 0 0 0 0	10 9 13 11 8	65 105 74 117 169	73 105 69 * 111	320.6 304.0 267.2 277.9 145.0	TRURO YARMOUTH PRINCE EDWARD ISLAND	12.9	0.2	22.4 23.3	0.6 4.7	0.0		18.0 21.7	23 24	0	3 2	184 196	119 111	153.3 112.7
MATAGAMI MONT JOLI MONTREAL INT'L MONTREAL M INT'L NATASHQUAN	10.1 12.6 16.1 14.6 10.0	1.1 1.4 1.3 * 0.8	22.8 25.0 28.3 29.0 18.1	-2.1 2.1 3.2 1.6 -2.1	0.6 0.0 0.0 0.0 0.0	17	78.5 83.6 71.1 73.3 91.6	81 99 80 * 97	0 0 0 0	9 10 8 6 8	132 159 212 237 169	105 103 125 * 108	235.8 168.5 77.2 114.5 242.1	CHARLOTTETOWN SUMMERSIDE NEWFOUNDLAND	14.5 15.5	1.0	27.6 28.9	4.8 6.0	0.0		27.0 23.6	31 29	0 0	4 5	X 191	112	109.6 85.1
NITCHEQUON QUEBEC ROBERVAL SCHEFFERVILLE SEPT-ILES	8.7 14.4 13.1 7.4 10.9	2.4 1.8 1.9 2.2 1.6	18.4 28.4 31.3 19.3 26.6	-1.5 3.4 0.4 -3.0 0.6	0.4 0.0 0.0 0.8 TR	4	76.2 136.8 84.1 57.3 101.8	77 115 92 68 90	0 0 0 0	16 5 9 12 8	102 186 181 109 165	103 122 * * 104	279.5 115.3 164.8 319.2 215.4	ARGENTIA BATTLE HARBOUR BONAVISTA BURGEO CARTWRIGHT	12.1 9.2 11.2 11.5 8.4	-0.4 0.7 -0.5 -0.1 0.1	18.6 24.6 21.9 20.0 21.8	4.4 -1.6 3.2 2.8 -1.3	0.0 0.0 0.0 0.0 TR		79.4 108.0 36.4 82.8 133.3	142 42 69	0 0 0 11	10 13 8	X X X 159 107	106	176.7 203.5 191.7 286.7
SHERBROOKE STE AGATHE DES MONTS ST-HUBERT VAL D'OR NEW BRUNSWICK	13.4 12.8 15.2 11.6	1.3 1.9 0.8 1.2	27.2 26.5 28.0 27.0	-1.0 0.2 2.3 -1.0	0.0 0.0 0.0 0.0		75.3 90.0 114.2 63.0	73 87 126 58	0 0 MSG 0	7 8 8 7	185 207 0 137	* 127 97	141.8 162.4 99.3 195.6	CHURCHILL FALLS COMFORT COVE DANIEL'S HARBOUR DEER LAKE GANDER INT'L	7.6 11.3 11.2 11.2	0.9 0.0 0.4 0.7 -0.4	20.1 26.1 16.5 23.4 24.6	-3.4 2.2 4.0 -0.4 2.2	TR 0.0 0.0 0.0 0.0		97.3 58.0 55.4 63.1 75.6	102 67 60 71	0 0 0 0 0 0	12 8 1 9	127 X 132 X 119	129 101 81	311.8 192.8 204.6 207.1 210.5
CHARLO CHATHAM FREDERICTON MONCTON SAINT JOHN	12.9 13.8 13.9 14.2 14.0	1.8 0.8 0.7 1.2 1.3	27.3 32.4 32.0 31.2 28.1	1.1 1.2 -0.5 0.5 2.3	0.0 0.0 0.0 0.0		77.3 45.3 52.0 14.8 33.5	77 53 59 19 29	00000	9 6 6 4	MSG 191 206 194 209	106 * 117 125	159.5 133.9 131.9 122.8 121.8	GOOSE PORT-AUX-BASQUES ST ANTHONY ST JOHN'S ST LAWRENCE	9.9 12.3 8.4 11.0 11.7	0.8 1.0 0.1 -0.6 0.2	22.2 20.2 18.0 22.9 22.5	0.6 4.5 -0.4 0.8 3.1	9.0 TR 0.0 0.0	225	81.6 82.8 137.0 54.2 105.7	92 71	0 0 0 0	12 12 10 9	110 187 X	90 * 105	241.8 170.7 257.9 209.8
	14.0	1.3	20.1	2.3			33.3	29	V	0	209	125	121.8	STEPHENVILLE WABUSH LAKE	12.3 8.4	0.4 2.2	20.8 21.2	2.8 -2.9	0.0	4	113.9 66.6	108 70	0	12 16	130 117	97 126 *	171.9 288.2

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	Tem	perature	C					2				
		Jerutur.						end of month (cm)	mu		Degree of above	loys 5 C
STATION	Меал	Difference from Normal	Maximum	Minimum	Snowfall (cm)	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of m	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	This month	Since jan. 1st
nta genisaeita							VET O					
BRITISH COLUMBIA												
GASSIZ	14.5	-1.0	25.5	4.5	0.0	110.0	104	0	13	182	284.3	1915.2
IDNEY UMMERLAND	12.4	-2.8	24.0	0.5	0.0	43.4	231	0	11	173	222.0	2058.5
LBERTA EAVERLODGE	8.0	-1.5	23.0	4.0	0.0	90.3	215	0	15	124	92.3	1169.8
LLERSLIE ORT VERMILLION	7.3	-2.8	19.0	-7.0	0.8	47.6	117	0	11	129	89.4	1199.1
ACOMBE ETHBRIDGE AUXHALL	7.0	-3.1	20.0	-8.5	2.0	74.4	182	0	13	134	277.9	1349.0
EGREVILLE BASKATCHEWAN	6.9	-2.8	20.0	-8.5	1.6	45.3	108	0	12		83.2	1173.6
NDIAN HEAD MELFORT MEGINA MESSAKATOON MECOTT MEGINE MESSAKATOON MECOTT MESSAKATOON MECOTT MESSAKATOON MECOTT MESSAKATOON MESSA	8.5 7.9 8.0 8.6 7.2 7.9	-3.0 -2.4 -3.2 -2.9 -3.2 -3.9	27.5 26.0 24.0 24.5 22.0 24.5	-4.0 -8.0 -9.0 -6.0 -8.5 -4.5	4.8 7.4 0.4 0.3 1.0 0.9	94.4 24.7 69.8 40.0 24.4 42.8	223 61 198 124 86 146	0 0 0 0 0 0	13 7 11 7 8 8	136 142 133 106	135.0 116.5 88.8 137.0 100.0 126.0	1464.0 1224.5 1333.8 1396.5 1273.5 1524.3
MANITOBA BRANDON GLENLEA MORDEN	9.2 9.8 10.3	-2.6 -2.4 -2.8	22.5 24.0 24.0	-5.5 -5.0 -2.0	T 0 T	70.2 27.6 23.4	141 55 45	0 0 0	10 9 5	141 126 152	139.4 141.0 169.0	1492.3 1592.1 1676.5
ONTARIO												
DELHI	16.7 15.5	0.8	30.0 28.0	2.0	0.0	59.2 58.2	74 88	0	9 6	206	368.8 314.0	2085.4 1768.0
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	Tem	perature	e C					(Em)			Degree o	days
STATION	Mean	Difference from Normal	Maximum	Minimum	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)	This month	Since jan, 1st
CODE SHIPS	2	0	Σ	Σ	S	ř	8	S	20	8		S
GUELPH HARROW KAPUSKASING	15.9 18.4	0.9	28.5 30.5	1.0 4.0	0.0	67.4 54.6	106 83	0	9 8	210 207	328.4 396.5	1866.5 1869.4
MERIVALE OTTAWA	16.3	1.7	30.6	2.6	0.0	70.5	88	0	8	194	338.8	1967.4
SMITHFIELD VINELAND STATION WOODSLEE	18.4	1.4	29.1	6.4	0.0	28.4	38	0	6	205	401.5	2129.7
QUEBEC												
LA POCATIERE L'ASSUMPTION LENNOXVILLE	13.8 15.2	1.2	27.5 29.5	1.5 1.5	0.0	69.0	72 113	0	9	189 212	263.7 304.9	1543.6 1801.4
NORMANDIN ST. AUGUSTIN	11.5	1.1	30.0	-3.0	0.0	76.8	80	0	9	151	188.4	1206.2
STE CLOTHILDE	15.8	1.6	29.0	2.0	0.0	100.4	116	0	5	207	325.7	1886.9
NEW BRUNSWICK				- 12								
FREDERICTON	The s	0.0										
NOVA SCOTIA			20.0			20.1	24			215	310.7	1393.4
KENTVILLE NAPPAN	15.4	0.9	28.0 27.0	3.0 1.0	0.0	20.1	24 15	0	3	201	280.8	1546.5
PRINCE EDWARD ISLAND	10				60 24 110							
CHARLOTTETOWN	3.1				Ti.		17/12/1					le in
NEWFOUNDLAND												4000 0
ST. JOHN'S WEST	10.8	-0.8	23.0	0.0	0.0	54.2	51	0	9	146	178.6	1089.0
SIGNATURE SINCE												
MOUNTER			allut a									
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