Environment Canada

Environnement Canada

Climatic Perspectives MONTHLY SUPPLEMENT

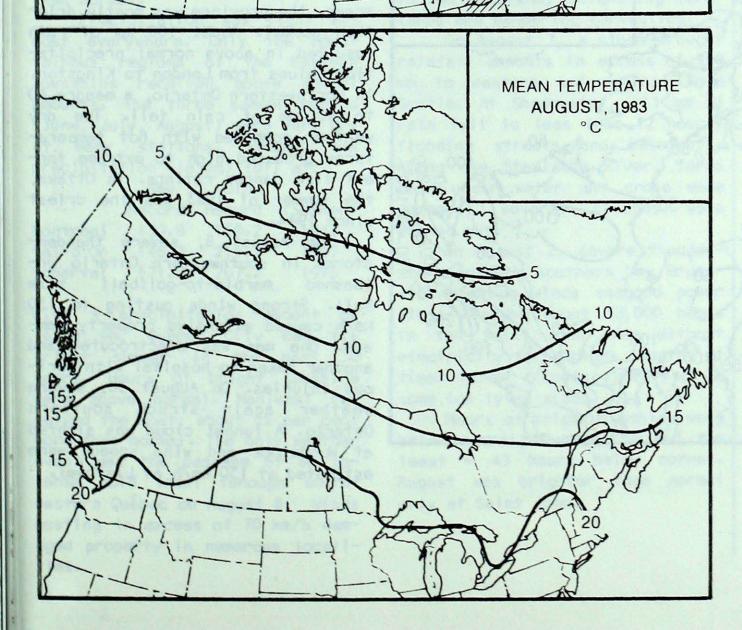
dian Climate Centre

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VOL.5

AUGUST,1983



ACROSS THE COUNTRY

Yukon and Northwest Territories

Mean temperatures were below normal almost everywhere; only southern Keewatin District experienced average temperatures 1 to 2 degrees above normal. With a mean temperature of 0.7°, Alert was the coldest place in the country.

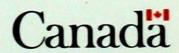
Precipitation amounts ranged from about 30 per cent of normal in the Mackenzie District to almost 200 per cent of normal along the western shores of Hudson Bay. The High Arctic received about average amounts of precipitation. On August 17, snow was observed on mountain tops at Whitehorse. Cassiar received 5 cm of snow on the same day.

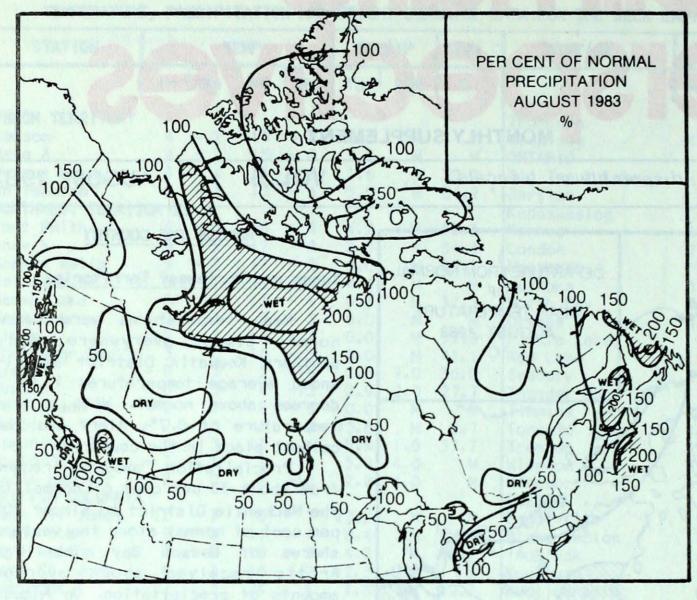
British Columbia

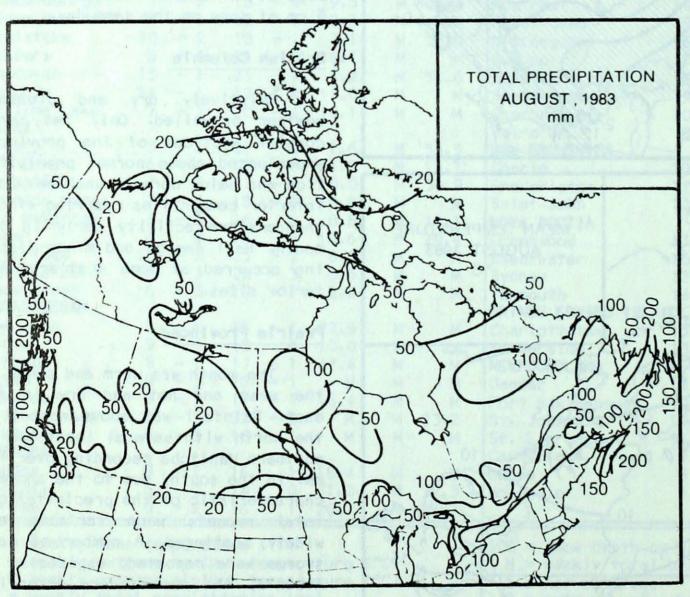
Relatively dry and pleasant weather prevailed. Only the north coastal sections of the province, experienced above normal precipitation and below normal sunshine. Some interior communities reported strong thunderstorm activity early in the month. Hall damage and minor flooding occurred at some scattered interior sites.

Prairie Provinces

The month was warm and sunny in the west and hot and dry in the east. Rainfall was above normal in the north with several locations in northern Manitoba recording over 100 mm. In the south, due to the showery characteristic of the precipitation, total amounts were variable and widely scattered. A number of hail storms were reported, especially in Alberta, the most severe occurring on August 3. The storm began at Drayton Valley and tracked eastwards to Edmonton during the late afternoon; golfball size hail caused considerable damage in parts of







Edmonton and surrounding areas.

Daytime temperature in the mid to upper thirties occurred frequently, especially in Saskatchewan and Manitoba. The mercury exceeded at Portage La Prairie and Estevan on August 4 and 6, respectively. Winnipeg set a new record for the number of days exceedings 30°; 16 days this year compared to the previous 15 in August 1920. This was the warmest August on record at no less than 9 locations in Saskatchewan and Manitoba. Winnipeg in addition to experiencing the warmest August on record, had the warmest June, July and August summer period ever, with a mean temperature of 20.6° exceeding the 20.4° previously set In 1961.

Ontario

The very warm temperatures of June and July continued into August. The readings were 3 to 4 degrees above normal in the North, 2 to 3 degrees warmer than usual in the central areas and 1 to 2 degrees above average in the South. The June to August period was the warmest in over 2 decades in many southern Ontario locations. On August 7, the temperature rose to 40.3° at Thunder Bay - the highest ever; the previous record of 40° was set in July 1936. Except for the extreme southern areas, the province was mostly drier than normal. About 100 mm of rain resulted in above normal precipitation values from London to Kingston. In Northwestern Ontario, a meagre 40 to 50 mm of rain fell. The dry weather combined with hot temperatures produced high to extreme forest fire danger ratings. In Ottawa, the summer of 1983 was the driest since 1944.

On August 8, severe thunderstorms in southwestern Ontario unleashed marble-to-golfball size hail. Strong winds gusting to 130 km/h caused extensive property damage. One man was electrocuted and another taken to hospital with serious injuries. On August 30, severe weather again struck southern Ontario. A funnel cloud was sighted at Woodstock and wind speeds were estimated at 130 km/h at Listowel.

CLIMATIC EXTRE	CLIMATIC EXTREMES - AUGUST, 1983													
MEAN TEMPERATURE:														
WARMEST	Windsor, ONT Alert, NWT	23.3° 0.7°												
HIGHEST TEMPERATURE:	Estevan, SASK	40.7°												
LOWEST TEMPERATURE:	Cape Dyer, NWT	-4.7°												
HEAVIEST PRECIPITATION:	Langara, BC	251 mm												
HEAVIEST SNOWFALL:	Alert, NWT	29.3 cm												
GREATEST NUMBER OF BRIGHT SUNSHINE HOURS:	Wynyard, SASK	355 hrs												

Québec

120

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Southwestern Québec enjoyed dry and very warm weather; mean temperatures were 1 to 3 degrees above normal. At Roberval, an average temperature of 19.3° proved to be the warmest since 1980. In addition, the June through August temperature of 18.8° was the warmest since 1973. Northern and eastern regions were cooler than normal.

Precipitation was light almost everywhere. Only the mountainous regions of the Eastern Townships received above normal amounts. The three summer months (June, July, August) were very dry at many stations. Record low precipitation (in mm) fell at:

	New	Old	
	Record	Record	(Summer)
Montréal	139.8	168.2	1942
Val-d'Or	146.3	215.1	1967
Roberval	171.2	207.2	1976

With a precipitation amount of 163.8 mm, Québec City had its driest summer in the past 30 years. Hours of bright sunshine were above normal. Maniwaki received the most, about 25 per cent more than normal. The only weather event was the passage of an intense cold front through southwestern Québec on August 8. Winds gusting in excess of 70 km/h damaged property in numerous localities.

Atlantic Provinces

Near-normal temperatures and a wide range of precipitation highlighted weather. the Mean 0.8° temperatures ranged from below normal at Sydney to 1° above normal at Chatham. Rainfall amounts ranged from 7 per cent below normal at Shelburne to 138 per cent above normal at Shearwater. Heavy rains of 150 mm fell in Newfoundland, saturating farmlands and hampering harvesting.

On August 7, a storm brought rainfall amounts in excess of 100 mm to eastern and central Nova Scotia. At Shearwater, 113 mm of rain fell in less than 12 hours, flooding streets and basements. Along the Stewiacke River, farms were under water and crops were damaged; several bridges were washed out.

On August 2, severe thunderstorms struck southern New Brunswick. Strong winds snapped power lines leaving about 32,000 homes in the Saint John area without electricity for various lengths of time. Minor flooding occurred in some low lying areas.

Hours of bright sunshine were below normal; Summerside had the least - 43 hours below normal. August was brighter than normal only at Saint John.

CLIMATIC IMPACTS

Agriculture

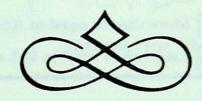
Excessive heat accelerated crop ripening across the Prairies. vesting was about 2 weeks advanced in the South. Owing to the heat stress and below normal rainfall, yields of grain crops are expected to be below normal - as much as 20 per cent below last year's in the drier areas according to Statistic Canada. However, total volume of grain crops was expected to be about 2 per cent more than last year's quota mainly because of the record area planted last spring. Heavy rains in Newfoundland saturated many fields. About one-half of the hay crop could not be harvested, and the remaining forage crop was of poor quality.

Forestry

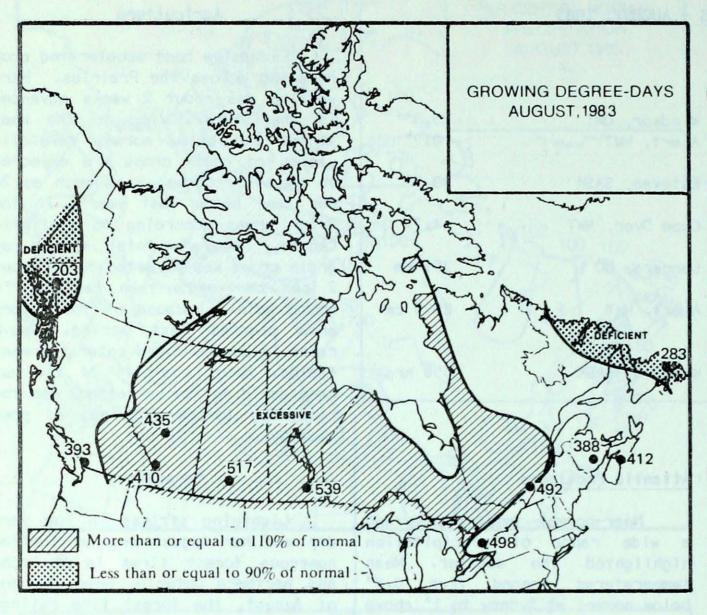
Lightning strikes in the very dry and hot August weather ignited numerous forest fires in Manitoba and northern Ontario. Near the end of August, the forest fire ratings were at high to extreme levels in Northwestern Ontario. Drier weather in August raised the forest fire danger to high levels in the central interior of British Columbia. The total cost of fighting fires was about \$18 million lower than last year's in British Columbia.

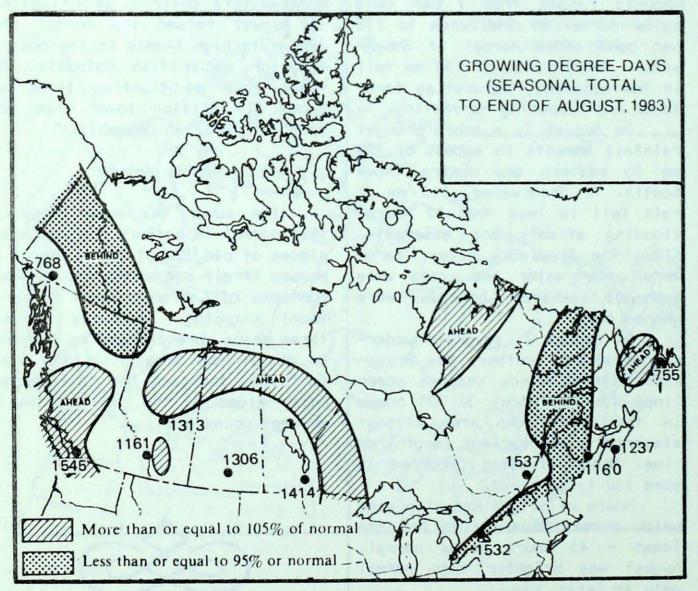
Arctic Waters

than normal in eastern Arctic. Heavy pieces of old ice at the entrance of Hudson Strait and along the northern portions of Labrador Coast hampered local shipping. In early August, three ships were damaged by icebergs in the Hudson Strait. In the Beaufort Sea, the pack ice came dangerously close to the drill sites on several occasions.



GROWING DEGREE-DAYS





Share of the sale	TOTAL TO	END OF	AUGUST
	1983	1982	NORMAL
DOLTICH COLIN	DIA		
Kamloops	1750	1724	1794
Penticton	1634	1616	1669
Prince George	1023 1545	1096	971
Vancouver Victoria	1444	1407 1285	1457 1335
ALBERTA			
Calgary	1161	1077	1074
Edmonton Mun.	1313	1240	1123
Grande Prairi Lethbridge	e 1085 1335	1046 1297	1075
Peace River	1029	1048	1041
SASKATCHEWAN			
Estevan	1503	1343	1443
Prince Albert	1203 1306	1097 1347	1185 1338
Regina Saskatoon	1363	1218	1321
Swift Current		1120	1301
MANITOBA			
Brandon	1291	1280 1196	1350
Dauphin Winnipeg	1261 1414	1427	1291 1424
ONTARIO			
London	1520	1612	1632
Muskoka	1362	1442	1356
North Bay Ottawa	1268 1544	1298 1603	1353 1597
Thunder Bay	1197	1081	1130
Toronto	1532	1531	1641
Trenton Windsor	1501 1782	1509 1905	1627 1921
	1702	1905	1921
QUEBEC Bale Comeau	839	792	939
Montréal	1537	1597	1646
Québec	1316	1296	1363
Sept-lles Sherbrooke	1038 1208	704 1223	829 1444
	THE REAL PROPERTY.		
NEW BRUNSWICK Charlo	1096	1063	1170
Fredericton	1343	1320	1365
Moncton	1254	1127	1260
NOVA SCOTIA		1000	1016
Hallfax Sydney	1237 1087	1090	1216 1105
Yarmouth	1110	1095	1111
PRINCE EDWARD			A THE
Charlottetown	1223	1118	1186
NEWFOUNDLAND	OF 4	01.7	940
Gander St. John's	954 755	813 747	836
Stephenville	1042	951	955

X = Season Ended

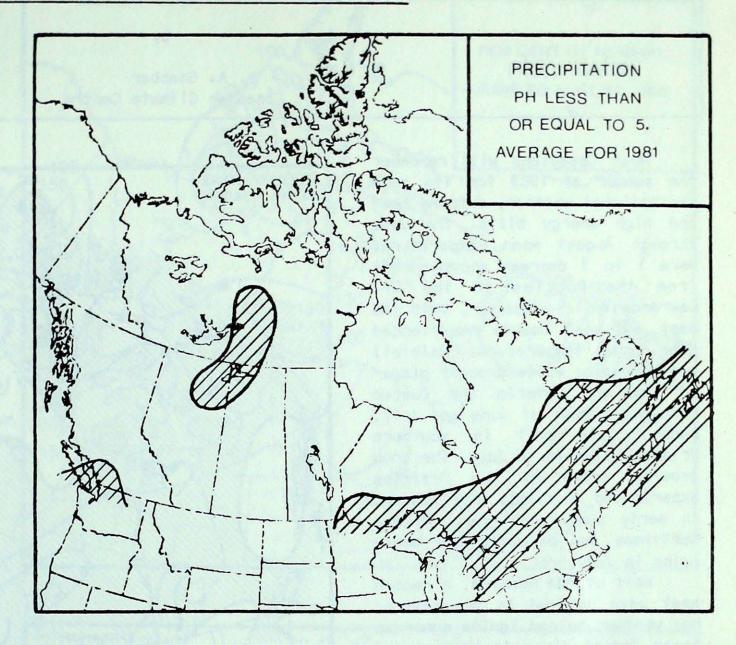
AES SCIENTISTS TO TRACE PATH OF AIR POLLUTION

Over a six week period, beginning about September 12, Canadian and U.S. scientists have planned to track the movement of an inert tracer substance through the atmosphere over much of eastern North America. The experiment, referred to as CAPTEX (Cross-Appalachian Tracer Experiment), is intended to demonstrate and determine long range transport of air pollution by winds.

On August 23 1983, Charles Caccia, federal Environment Minister, signed an agreement with the United States government for the joint Canada-U.S. project. Mr. Caccia said "We hope that these experiments will provide clearer confirmation that air pollution causing acidic precipitation can be transported over great distances and from one country to another. The data collected will help scientists further evaluate the ability of current numerical models of the atmosphere to predict the rate, direction and distance of that movement".

During CAPTEX Canadian scientists will release an inert, colourless, odourless and nontoxic tracer (perfluro-monomethyl-cyclohexane) on three occasions from the Sudbury area and U.S. scientists will make three similar release from Dayton, Ohio. The release sites chosen are near two of the main sources of air pollution in northeastern United States and southeastern Canada, sources which are thought to contribute significantly to the acid rain problem in North America. Each experiment will involve the release of 200 kilograms of the tracer over a three hour period and will take place at about one week intervals, depending on prevailing winds and weather conditions.

After each release, the scientists will track the movement of the tracer across eastern North America for a distance of 1000 kilometres using a network of 85 sampling stations on the ground



and, at various altitudes, with seven aircraft. The ground stations are laid out on a grid through the northeastern U.S., southern Ontario and southern Québec, with one station in Nova Scotia. Scientists expect to collect over 6,000 air samples during the experiment. Each sample must be analysed by gas chromatography before a picture of where the tracer went from each release point will be forthcoming. Results are not expected until next year but if the experiment proves successful much longer and more elaborate projects are expected to be carried out in the future.

Participating in the joint project will be scientists from the Atmospheric Environment Service of Environment Canada, the National Research Council, the Québec and Ontario Ministries of the Environment and several United States agencies: U.S. Department of Energy, the National Oceano-

graphic and Atmospheric Administration, the Environmental Protection Agency and the Electric Power Research Institute. CAPTEX is expected to cost \$2 to \$3 million; Canada will contribute about 10 per cent of the total cost.

Mr. Caccia described the agreement as "a good omen" for it "symbolizes a new period of closer cooperation in acid rain research between Canada and the United States".

Information Directorate

SUMMER ROUNDUP - 1983

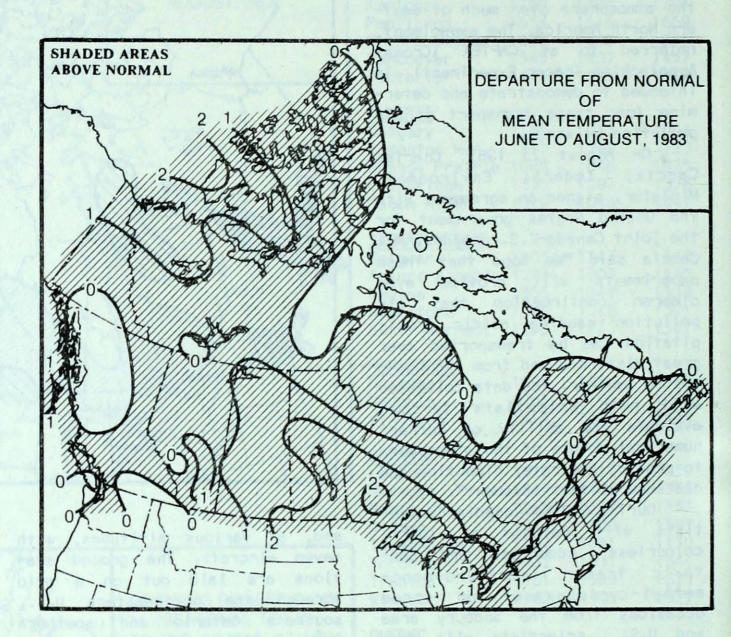
by

A. Shabbar Canadian Climate Centre

Most Canadians will remember the summer of 1983 for its good recreational weather, extreme heat and high energy bills. The June through August mean temperatures were 1 to 3 degrees above normal from the Rockies to the St. Lawrence Valley; however, both the east and west coasts experienced near normal temperatures. Rainfall was sporadic; while drought plagued southern Ontario and Quebec throughout most of June and July, record rain fell in southern British Columbia in July. The crop growing areas of the Prairies experienced a fairly dry summer. An early summer dry spell in the Maritimes was ended by the heavy rains in July.

West of the Rockles, a record heat wave ushered in the season; hot weather helped ignite numerous major forest fires in central and northern British Columbia. heavy rains arrived soon afterwards, and British Columbia had one of its quietest forest fire seasons. More than the usual number of hallstorms and torrential downpours destroyed fruit and vegetable crops worth tens of millions of dollars in the Okanagan and Fraser Valley. During mid-July, 100 to 150 mm of rain triggered major mud slides in southeastern British Columbia. The alldes blocked part of the Trans-Canada Highway and halted rail service. Nine locations received record rainfall in July; at Hope, 255 mm of rain was about 7 times The average.

The Prairies endured a scorching heat wave in August. Southern Saskatchewan and southern Manitoba experienced their warmest summer in over 20 years, and with a mean temperature of 20.6°; Winnipegers will remember the



summer of 1983 as the warmest ever - August was the hottest month since July 1936. Some locations had maximums of 40°. The relentless heat and below normal rainfall matured the crops about 2 weeks earlier than normal; the vields of most crops dropped by 10 to 20 per cent below last year's However, the quality of cereal and wheat may be one of the best in recent years. The Prairies also experienced more severe weather than usual. Tornadoes, sudden downpours, large hall and strong winds struck many communities. A tornado touched down near Lloydminster on July 8, destroying several houses, killing a number of farm animals and seriously

injuring one man. In southern Saskatchewan, hall damage to crops was extensive. Flash floods caused severe property destruction on the Prairies. In June, an intense storm dumped 100 mm of rain on Saskatoon in 24 hours. Nearly 75 mm fell in I hour - a once in a hundred occurrence. years moisture reserves in southern Alberta were consistently throughout the summer. The depleted moisture in the ground combined with heavy grasshopper infestations affected the amount of winter wheat being planted.

In southern Ontario, the June to August period was the warmest in two decades. In July, daytime temperatures soared into the mid-

thirtles and produced a searing heat wave. the heat in combination with high humidities resulted in humidex values in excess of 40° in southern Ontario. Roads buckled and energy consumption rose about 10 per cent because of the greater electrical demands to keep cool. Of even greater concern was the drought that plagued southern Ontario for nearly 6 weeks. Lack of rain stunted crop growth. In eastern Ontario, many crops wilted In the hot and dry weather. Crop saving rain, dubbed the 'Multimillion dollars rain' by farmers, arrived in August. Still, corn yields were expected to be 25 per cent below average in the drought struck areas. On a positive note, the fine vacation weather attracted thousands of people to provinclal parks. Attendance was 7 to 12 per cent greater than last year's. In Toronto and vicinity, an unusual rise in Lake Ontario's water temperature contributed to excessive bacterial growth and closed many beaches to swimmers.

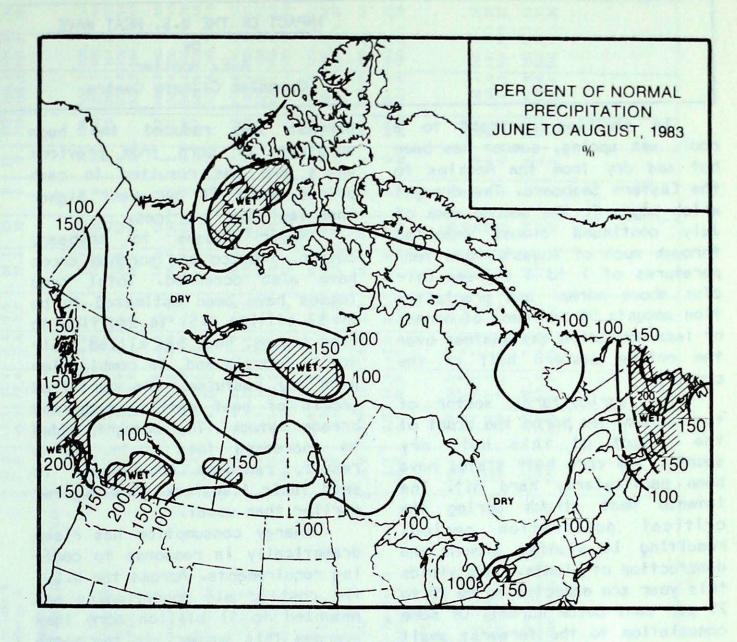
Québec's summer was also hot and dry. The forest fire season was the worst in 50 years. About 260,000 hectares burned in 1,284 separate fires. The village of Nemaska in northern Québec was evacuated when fires threatened the safety of the residents. The quality and yields of the corn and cereal crops were expected to be below normal because of the prolonged dry and hot spell in July.

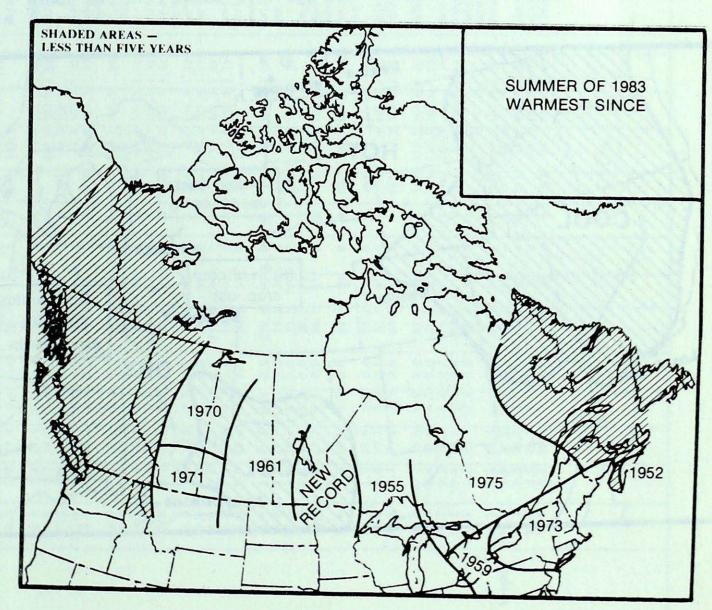
Summer temperatures were slightly above normal in the Maritimes, but decidely below normal in Newfoundland. Heavy July rains ended an early dry spell in the Maritimes. The rains were especially beneficial to the vegetable and fruit crops in the Annapolis Valley. Heavy rains in Newfoundland saturated fields and hampered the hay harvest. In the Arctic waters, the ice cover was more extensive than usual in Baffin Bay and in Hudson Strait. On several occasions, ice breaker assistance was required by ships travelling farther north. In the Beaufort Sea, the pack ice lay perilously close to the drill sites.

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IMPACT OF THE U.S. HEAT WAVE

A.E. Hoeller
Canadian Climate Centre

In striking contrast to a cool, wet spring, summer has been hot and dry from the Rockies to the Eastern Seaboard. The drought which began in the second week of July continued almost unabated through much of August. Mean temperatures of 1 to 4 degrees Celcius above normal and precipitation amounts 50 per cent of normal or less dominated the weather over the entire eastern half of the country.

The agricultural sector of the economy has borne the brunt of the impact of this hot, dry summer. The corn belt states have been particularly hard hit. The intense heat struck during the critical pollination period, resulting in stunted growth and destruction of plants. Corn yields this year are expected to be 20 to 25 per cent below normal. Of some consolation to the farmers: small

harvest has reduced the huge surpluses or corn from previous years and has resulted in cash prices about 74 per cent higher than last year's prices.

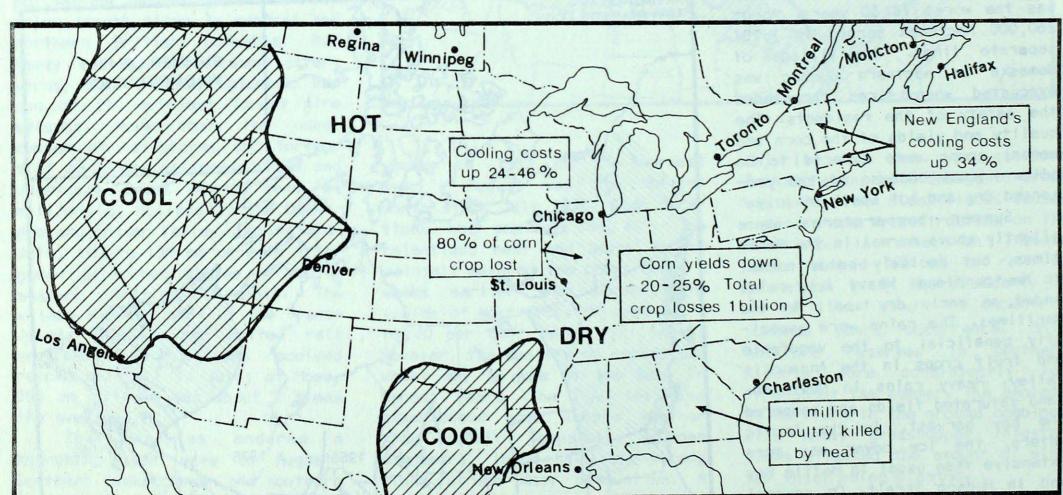
Major losses to soybean, cotton, tobacco and sorghum crops have also occurred. Total crop losses have been estimated to be at \$7 billion U.S. In addition to crop losses, heat has killed poultry in Georgia and, in combination with dry pastures, has curtailed growth of beef cattle, hogs and breeder stock. The drought added to increased feed costs. As a result, ranchers are likely to send their livestock to slaughter earlier than usual.

Energy consumption has risen dramatically in response to cooling requirements. Across the U.S., the cost of air conditioning has amounted to \$1 billion more than average this summer. In the north

central and New England states, cooling costs were 26 to 46 per cent above normal in July.

Unfortunately, not everyone managed to escape the heat. Approximately 220 people have died as a result of heat stroke. This figure represents only 10 to 50 per cent of the increase in mortality associated with unusually high temperatures. It has been estimated that deaths from all disease categories related to the heat wave range between 400 and 2,000.

The Assessment and Information Services Centre of NOAA considers this drought to be one of the most severe and extensive since the one in the 1930s. Although it is similar in size and intensity to the 1980 drought, this year's drought encompasses an area north of that involved in 1980.



information supplied by NOAA

		Tempera Tempéra						ê	(mm)			(848)	
STATION	Mean	Difference from Normal Ecert & le normale	Maximum Maximale	Minimum	Snowfell (cm) Chute de neige (cm)	Total Precipitation (mm) Précipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at and of month (cm) Neige au sof à le fin du mois (cm)	No. of days with Precip. 1.0 or more (mm) Nombre de jours de prés. 1.0 ou plus (mm)	Bright sunshine (hours) Durde de l'insoletion (heures)	Degree Days below 18°C Degrée/ours au-dessous de 18°C	Mean See Level Pressure (NPs) Pression au niveau moyen de la mar	Mean Vapour Pressure (kPa) Pression de vapeur moyenne (kPa)
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE													
Abbotsford A Alert Bay Blue River A Bull Harbour Burns Lake	17.5 14.4 16.8 14.1 13.3	0.6 0.1 1.2 0.6 0.2	30.0 24.8 31.0 23.2 27.4	7.8 7.0 1.0 8.0 0.6	0.0	29.2 42.4 58.0 55.0 22.7	52 64 78 67 52	0 0 0 0 0	4 9 12 8 4	267 220 258	110.0	101.6 101.9	1.45
Cape St. James Cape Scott Castlegar A Comox A Cranbrook A	15.2 14.6 20.3 17.6 18.9	1.4 0.7 0.6 0.6 1.5	21.4 19.7 36.4 28.2 34.4	11.1 9.5 7.2 10.0 6.8	0.0 0.0 0.0 0.0	96.2 106.3 63.6 35.8 39.3	122 100 139 81 121	0 0 0 0 0	15 11 6 4 8	284 313	106.7 4.0 22.4	101.8 101.9 101.5 101.7 101.5	1.53
Dease Lake Ethelda Bay Fort Nelson A Fort St. John A Hope A	10.3 14.1 15.1 15.0 18.5	-1.3 0.4 0.3 0.6 0.1	22.5 21.7 30.4 28.6 31.2	-0.3 5.2 2.1 3.7 7.8	0.0 0.0 0.0 0.0	56.8 239.5 26.2 26.2 25.6	108 140 43 43 51	0 0 0 0 0	11 19 4 4 6	138 259 255	126.2 94.4 94.4	101.5 101.1 101.1 101.7	1.12
Kamloops A Kelowna A Langara Lytton Mackenzie A	21.3 19.0 14.0 21.9 13.8	1.5 1.2 0.8 1.0 0.0	36.8 34.1 18.1 35.8 29.6	7.6 4.1 10.8 9.3 2.0	0.0 0.0 0.0 0.0 0.0	9.1 29.6 251.0 16.0 30.8	33 96 244 100 53	0 0 0 0	4 6 20 3 7	299 290 255 275	14.4 125.3	101.4 101.5 101.5 101.4	1.42
McInnes Island Merry Island Penticton A Port Alberni A Port Hardy A	15:5 18.2 20.6 17.5 14.4	1.2 0.5 1.1 -0.4 0.6	20.6 26.4 34.6 30.7 21.7	11.0 12.3 8.4 5.8 7.7	0.0 0.0 0.0 0.0	139.4 14.5 33.2 36.0 56.1	93 33 125 93 81	0 0 0 0	13 4 5 4 8	289 289 286 196	11.5 3.5 24.3	101.8 101.4 101.8	1.3
Prince George A Prince Rupert A	14.6	0.5	28.5	1.5	0.0	61.3	90	0	9	287	109.9	101.7	1.14
Princeton A Quesnel A Revelstoke A	18.1 16.0 18.3	1.0 0.4 0.7	33.5 30.7 30.2	3.8 3.2 7.5	0.0 0.0 0.0	51.2 30.2 64.4	201 47 152	0 0	9 5 7	291 261		101.6	
Sandspit A Smithers A Stewart A Terrace A Vancouver Harbour	14.5 13.5 13.2 15.2 17.9	-0.2 -0.6 -0.8 -0.6 -0.7	19.5 26.5 23.6 27.4 25.7	9.9 1.7 6.8 6.4 12.2	0.0	97.9 35.0 174.4 44.9 35.8	198 80 251 71 66	0 0 0 0	13 9 23 9 6	149 204 80 161	138.5 149.3	101.6 101.6 101.7	1.09
Vancouver Int'l A Victoria Gonzales Heights Victoria Int'l A Victoria Marine Williams Lake A	17.7 16.3 16.9 15.0 15.7	0.6 1.0 0.8 0.8 0.7		11.4 10.5 9.1 8.0 2.1	0.0	24.1 36.6 10.0 10.4 25.2	59 174 37 39 59	0 0 0 0 0	5 4 4 3 5	280 311 315 303	56.4 44.5 91.8	101.7 101.7 101.7 101.6	1.36

		Tempera Tempéra							(mm)			(***)	
STATION	Moyenne	Difference from Normal Ecert & le normale	- Maximum Maximale	Minimula	Snowfell (cm) Chute de neige (cm)	Total Precipitation (mm) Precipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at and of month (cm) Neige au so! à la fin du mois (cm)	No of days with Pracip 10 or more firm! Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durke de l'insoletion (heurse)	Degree Days below 18°C. Degree jours au dessous de 18°C.	Mean See Lerel Pressure (17e) Pression au niveau moyen de la mer (Mean Vapour Pressure (kPs.) Pression de rapeur moyenne (kPs.)
YUKON TERRITORY TERRITOIRE DU YUKON							-						
Burwash A Dawson A Mayo A Watson Lake A Whitehorse A	10.0 11.6 12.2 12.0 11.6	-0.4 -0.2 -0.4 -1.1 -0.9	21.1 23.4 22.9 24.4 22.4	-3.1 -1.4 -0.5 1.4 0.6	0.0 0.0 0.0 0.0 0.0	73.4 57.9 74.6 34.7 27.3	191 105 180 83 72	0 0 0 0 0	10 13 15 13 9	211 219	186.4 185.7	101.1 100.9 101.0 101.2 101.2	1.05
Alert Baker Lake Cambridge Bay A Cape Dyer A Cape Parry A	0.7 9.6 6.7 1.7 5.9	-0.2 -0.1 0.2 -2.9 0.5	9.7 26.3 16.2 9.9 14.8	-4.0 1.0 -0.6 -4.7 -1.7	29.3 0.0 0.0 10.4 0.0	19.2 74.2 13.5 26.6 6.8	68 199 48 52 25	1 0 0 0	7 8 4 9	186 148 175	261.7 286.7 505.8	100.1 100.9 101.0 100.7 100.9	.96 .81 .57
Clyde Coppermine Coral Harbour A Eureka Fort Reliance	2.2 8.9 6.8 4.4 14.1	-1.8 0.2 -0.6 1.1 1.2	12.8 23.9 18.0 13.2 26.2	-4.1 -0.3 -1.0 -0.7 5.9	10.4 0.0 0.0 T 0.0	14.0 75.7 66.1 13.1 67.1	54 196 149 113 167	1 0 0 0	7 7 8 5 9	147 191 200 247	280.0 347.8 422.9	100.7 100.1 101.7 100.7 100.9	.95 .79 .64
Fort Simpson A Fort Smith A Frobisher Bay A Hall Beach A Hay River A	14.0 15.5 6.4 4.0 14.9	-0.4 1.3 -0.5 -0.6 -0.5	27.8 29.7 13.6 15.0 29.4	-1.8 -0.6 0.0 -2.6 3.7	0.0 0.0 0.0 T	26.6 69.8 65.8 19.3 72.7	59 164 112 47 193	0 0 0 0 0	7 13 13 5 9	248 278 113	83.9 373.9 432.1	100.8 100.9 100.6 100.6 100.9	1.21 .73 .68
Inuvik A Mould Bay A Norman Wells A Pond Inlet A	11.3 2.3 13.8	0.6 0.9 0.4	24.8 11.7 26.7	-0.1 -3.7 3.5	0.0 1.0 0.0	36.5 13.0 12.5	84 60 21	0 T 0	8 3 5	187 227 225		100.8 101.0 100.8	.60
Resolute A	3.0	0.6	10.1	-4.0	1.8	31.7	102	0	5	191	493.9		
Sachs Harbour A Yellowknife A	4.3	0.5	12.4 26.5	-2.8 5.6	0.0	32.8	143 71	0	8	186 259	421.8		
Banff Brooks Calgary Int'l A Cold Lake A Coronation A	16.4 19.9 18.3 18.1 18.3	2.6 2.5 3.1 2.6 2.2	30.0 37.5 34.5 31.8 34.0	1.0 4.5 5.0 2.7 1.9	0.0 0.0 0.0 0.0 0.0	47.1 45.3 42.0 7.5 18.2	96 96 76 10 35	0 0 0 0 0	4 4 4	332 313 328 332	38.9	101.5 101.4 101.5	1.32
Edmonton Int'l A Edmonton Municipal A Edmonton Namao A	16.8 19.0 17.6	2.0 2.8 2.0	32.7 33.5 32.6	1.3 5.0 3.7	0.0 0.0 0.0	12.2 13.2 8.5	16 17 12	0 0 0	3 4 3	320 325	20.4	101.5 101.4 101.4	1.31
					N. T.								

	Temperature °C Température °C							(E	e (mm) so			r (kPa)	
STATION	Mean Moyenne	Difference from Normal Ecert à la normale	Maximum Maximale	Minimale	Snowfell (cm) Chure de neige (cm)	Total Pracipitation (mm) Pracipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at and of month (cm) Neige au sol à la fin du mois (cm)	No. of days with Precip. 1.0 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durde de l'insolation (heurss)	Degree Days below 18°C Degrée jours au-dessous de 18°C	Mean Sea Level Pressure (kPa) Pression au niveau moyen de la mer	Mean Vapour Pressure (kPa) Pression de vapour moyenne (kPa)
Edson A	15.6 16.4	2.4	29.2	0.2	0.0	19.6 43.1	21 89	0	5	321	86.5	101.5	1.16
Fort Chipewyan A Fort McMurray A Grande Prairie A High Level A	17.1 15.8 15.0	2.3 1.0 1.0	33.2 30.0 32.0	2.3 3.5 1.4	0.0	58.4 17.3 28.2	76 29 49	0 0 0	8 6 8	311 347 310	75.8	101.3 101.5 101.0	1.08
Jasper Lethbridge A Medicine Hat A Peace River A Red Deer A	16.0 20.5 22.2 15.2 16.6	1.8 2.9 3.3 1.0 1.7	29.8 37.6 39.7 29.5 32.4	0.9 3.9 5.5 3.1 3.3	0.0 0.0 0.0 0.0	23.4 41.4 15.4 42.2 9.5	48 88 42 84 14	0 0 0 0 0	8 7 3 9 5	274 324 341	11.3 3.0 87.8	101.6 101.4 101.3 101.4 101.5	1.19
Rocky Mountain House Slave Lake A Suffield A Whitecourt	16.1 15.7 21.8 16.2	1.8 1.3 3.4 2.3	32.0 31.1 37.7 29.6	2.5 1.0 4.4 0.6	0.0 0.0 0.0 0.0	8.2 48.7 19.4 32.7	11 68 49 37	0 0 0	4 8 7 8	325 334	72.6 83.4 3.5 74.1		1.28
SASKATCHEWAN									-	240	16.6	101.5	1 27
Broadview Collins Bay Cree Lake Estevan A Hudson Bay	21.1 15.7 17.1 23.1 19.3	4.7 3.1 2.7 4.5 3.5	36.2 31.4 30.7 40.7 32.7	5.5 4.2 6.1 7.6 5.1	0.0 0.0 0.0 0.0	16.4 102.9 46.2 32.4 24.9	27 154 76 61 42	0 0 0 0	5 16 11 5 7	342 267 300 317 350	77.4 57.5 6.9		1.25 1.23 1.37
Kindersley KY La Ronge A Meadow Lake Moose Jaw A Nipawin A	20.6 18.8 18.2 22.2 19.4	3.2 3.6 2.5 3.6	36.5 34.7 32.5 39.0 33.1		0.0 0.0 0.0 0.0	35.2 35.1 19.0 5.6 31.2	56 26 14	0 0 0 0	4 8 3 2 6	324 337 345	23.6 34.7 10.3	101.4 101.3 101.4 101.5 101.4	1.38
North Battleford A Prince Albert A Regina A Saskatoon A Swift Current A	19.5 19.4 21.7 20.6 20.9	2.7 3.5 3.9 3.4 3.4	38.0	2.9 6.1 5.6	0.0	48.5 38.2 6.5 27.5 19.8	73 15 72	0 0	7 4 2 5 5	341 329 353	16.5	101.4	1.35 1.36 1.34 1.32
Wynyard Yorkton A	20.5 20.2	3.7			0.0	12.6 28.3			5 5	355 350	13.8	101.5	1.35
MANITOBA													
Bissett Brandon A Churchill A Dauphin A Gillam A	20.8 21.2 12.9 21.2 16.7	3.7 1.6 4.1	36.8 31.3 36.3	7.0 3.9 4.6	0.0	27.9 65.3 100.5 14.1 112.3	101 172 5 23	0 0	15		9.1 168.	9 101. 3 101. 4 101.	5 1.59 5 1.56 1 1.21 4 1.57 1 1.38
Gimli Island Lake Lynn Lake A Norway House A	21.3 19.7 17.3 19.2	3.4	32.	9. 8 2.	0.0	67.	2 90 4 110	0 0	10	296	26. 54.	3 101. 8 101.	4 1.76 3 1.57 2 1.31 3 1.58

	Temperature "C Température "C						Ē	• (mm) •			3		
STATION	Mean	Difference from Normal Ecerc à la normale	Maximum Maximale	Minimum Minimale	Snowfall (cm) Chure de neige (cm)	Total Precipitation (mm) Précipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at and of month (cm) Neige au sol à la fin du mois (cm)	No. of days with Pracip. 1.0 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durée de l'insolation (heursa)	Degree Days below 18°C Degrée/ours au-dessous de 18°C	Mean Sao Level Preseure (kPs) Pression au niveau moyen de la mer	Moan Vapour Pressure (kPa.) Pression de vapeur moyenne (kPa.)
Pilot Mount Portage la Prairie A The Pas A Thompson A Winnipeg Int'l A	22.1 22.7 19.7 17.4 22.5	4.5 4.3 3.6 3.5 4.2	36.3 40.2 30.8 31.4 36.5	9.6 10.0 7.2 2.3 8.8	0.0 0.0 0.0 0.0 0.0	45.2 41.4 57.8 109.3 85.2	71 51 101 152 113	0 0 0 0	5 6 7 8 7	354 293 326	6.1 5.4 22.0 53.5 5.8	101.7 101.3 101.2 101.5	1.60
ONTARIO Atikokan Earlton A Geraldton Gore Bay A Hamilton	19.5 18.2 19.0 20.9 22.1	3.7 2.0 4.4 2.7 1.3	33.7 30.7 32.6 29.1 33.0	6.3 3.4 5.9 11.3 11.5	0.0 0.0 0.0 0.0 0.0	58.9 68.5 43.7 46.8 87.4	60 82 65 62 108	0 0 0 0 0	10 9 6 7 10	259	33.6 27.6	101.7 101.6 101.6 101.6	1.57
Hamilton A Kapuskasing A Kenora A Kingston A Lansdowne House	21.2 18.0 21.8 19.8 18.7	1.2 2.7 4.2 0.4 3.5	30.3 30.3 32.4 30.6 29.9	11.3 4.4 11.6 7.8 8.9	0.0 0.0 0.0 0.0 0.0	106.1 51.6 39.7 98.6 61.3	141 56 46 129 70	0 0 0 0	7 11 7 9 8	253	3.9 45.6 5.2 15.5 34.6	101.6 101.5 101.6 101.4	1.82
London A Moosonee Mount Forest Muskoka A North Bay A	20.8 15.2 19.0 19.5 19.1	1.3 0.9 1.5 2.1 2.1	31.6 30.5 29.0 30.6 27.8	8.0 -0.6 6.8 5.3 6.8	0.0 0.0 0.0 0.0	97.3 52.4 148.6 53.8 122.6	121 66 173 60 124	0 0 0 0	9 12 10 8 9	240 252 239 268	7.8 109.6 22.3 17.2 21.7	101.4	1.78
Ottawa Int'l A Petawawa A Peterborough A Pickle Lake Red Lake A	21.1 20.6 19.5 19.5 19.9	1.9 3.0 1.4 4.4 3.9	32.8 31.4 31.7 31.1 33.0	9.9 4.8 6.5 5.4 5.2	0.0 0.0 0.0 0.0 0.0	30.6 72.9 99.0 47.6 76.4	133 45	0 0 0 0 0 0	5 8 8 7 7	303	29.2 20.5 26.6		1.6
St. Catharines A Sarnia A Sault Ste. Marie A Simcoe Sioux Lookout A	21.5 21.0 19.9 20.9 20.8	0.5 0.7 3.0 1.2 4.2	31.0 34.8 30.3 30.0 31.4	7.7	0.0 0.0 0.0 0.0	98.2 87.5 65.8 104.4 65.3	171 80 160	0 0 0 0	7 9 7 8 8	261 262	6.3		11.8
Sudbury A Thunder Bay A Timmins A Toronto Toronto Int'l A	19.7 20.3 17.1 22.4 21.1	2.4 3.9 1.6 1.2	29.4 40.3 30.4 33.9 34.1	2.3	0.0 0.0 0.0 0.0	111.1 108.0 75.3 103.1 112.2	130 84 141	0 0 0 0	11 7 11 9 8	258 296 246	9.7 57.1 2.4	101.7 101.6 101.7	1.8
Toronto Island A Trenton A Trout Lake (Big) Waterloo-Wellington A Wawa A	22.4 20.4 17.7 19.8	2.3 0.7 3.4 0.9	32.4	7.8	0.0 0.0 0.0 0.0	77.3 96.4 112.7 81.5	134	0	7 8 11 7		13.1	101.7 101.6 101.3	1.8
Wiarton A Windsor A	22.4 23.3	4.3	30.5		0.0	32.8 33.2	38 39		7 4	259	15.4	101.7	1.7

	Temperature *C Température *C							7	(mm)			(8)	
STATION	Morenne	Difference from Normal Ecert à la normale	Maximum Maximale	Minimum Minimale	Snowfell (cm) Chure de neige (cm)	Total Precipitation (mm) Precipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at and of month (cm) Neige au sol à le fin du mois (cm)	No. of days with Pracip. 10 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durke de l'insolation (heures)	Degree Days below 18°C Degrée jours au-dessous de 18°C	Mean Sea Level Pressure (1Pa) Pression au niveau moyen de la mer (Mean Vapour Pressure (1P4)
QUEBEC													
Bagotville A Baie Comeau A Blanc Sablon Chibougamau A Kuujjuac A	17.2 14.4 11.1 15.5 9.7	0.8 -0.2 -0.7 1.5 -0.7	31.5 27.9 19.1 29.2 21.4	3.6 2.0 3.1 1.1 -1.0	0.0 0.0 0.0 0.0	56.8 54.8 132.8 112.6 36.8	57 58 123 95 58	0 0 0 0 0	10 11 16 15 13	221 135 206 142	114.7	101.5 101.3 101.2 101.5 101.0	1.3 1.2 1.3
Gaspe A Inukjuac A La Grande Riviere Maniwaki Matagami A	15.4 8.5 13.2 18.3 15.3	-0.6 -0.4 1.3 1.3	29.8 15.7 26.1 29.2 28.7	2.6 1.6 3.0 4.9 0.6	0.0 0.0 0.0 9.9 0.0	43.2 28.4 94.5 35.0 169.8	50 44 38 159	0 0 0 0	7 6 14 7 13	196 188 279 250	294.2 150.9	101.3 101.1 101.3 101.5	1.0
Mont Joli A Montreal Int'l A Montreal Mirabel Int'l A Natashquan Nitchequon	17.0 20.8 19.6 13.2 12.4	1.0 1.2 -0.1 0.6	29.4 32.3 31.2 22.9 24.1	4.8 8.0 6.4 1.8 3.9	0.0 0.0 0.0 0.0 0.0	62.6 32.8 63.6 116.8 147.1	79 36 112 131	0 0 0 0	10 6 8 14 14	218 260 211 194	11.7 24.2 146.3	101.3 101.5 101.6 101.2 101.3	1.7 1.6 1.3
Kuujjuarapik A Quebec A Roberval A Ste. Agathe des Monts St. Hubert A	10.8 19.2 19.3 17.4 20.4	0.4 1.7 2.9 1.6 1.2	28.8 29.8 34.3 28.3 31.7	1.0 7.1 4.8 3.0 5.7	0.0 0.0 0.0 0.0 0.0	90.7 52.8 71.0 79.0 38.6	96 45 72 70 40	0 0 0 0	12 8 8 10 5	184 256 258 242	23.0 30.6 49.4	101.2 101.5 101.4 101.7 101.5	1.5 1.5 1.6
Schefferville A Sept-Iles A Sherbrooke A Val d'or A	10.4 14.0 17.3 17.3	-0.4 -0.1 0.8 1.8	25.0 26.5 29.7 28.9	1.8 2.9 2.8 3.4	0.0 0.0 0.0 0.0	99.7 62.0 161.0 52.0	102 60 133 51	0 0 0 0	14 10 13 10	184 199 250 254	125.1 56.2	101.2 101.2 101.6 101.6	1.6
NEW BRUNSWICK NOUVEAU-BRUNSWICK													
Charlo A Chatham A Fredericton A Moncton A Saint John A	17.1 19.0 18.7 17.7 17.5	1.0 1.0 0.5 0.1 0.9	30.3 31.1 31.6 28.4 27.3	6.0 6.0 5.8 6.6 8,8	0.0 0.0 0.0 0.0 0.0	62.2 44.4 60.5 89.2 115.2	58 53 70 114 113	0 0 0 0 0	9 8 11 10 10	227 212 204 212 215	29.3 34.7 40.5	101.4 101.4 101.5 101.4 101.5	1.6

		Temperar Tempérar							(mm)			3	
STATION	Meyenne	Difference from Normal Ecart à la normale	Maximum Maximale	Minimum Minimate	Snowfell (cm) Chute de neige (cm)	Total Precipitation (mm) Precipitation totals (mm)	% of Normal Pracipitation % de précipitation normale	Snow on ground at end of month (cm) Neige au sot à le fin du mois (cm)	No. of days with Pracip. 10 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durds de l'insolation (hourse)	Degree Days below 18°C. Degree/jours au-dessous de 18°C.	Meen See Level Pressure (179) Pression au niveau moyen de la mer (1	Mean Vapour Pressure (174) Pression de vapour moyenne (174)
NOVA SCOTIA NOUVELLE-ECOSSE													
Eddy Point Greenwood A Halifax Int'l A Sable Island Shearwater A	17.5 18.7 17.8 17.4 18.4	-0.6 0.4 -0.3 -0.2 0.6	28.9 30.7 27.9 22.8 28.0	9.7 6.8 9.0 5.9 9.5	0.0 0.0 0.0 0.0	125.2 120.1 160.8 140.5 232.4	118 133 144 121 238	0 0 0 0 0	10 9 8 13 10	181 174 195	23.2 36.4 29.7	101.5 101.5 101.6 101.6 101.5	1.63 1.63 1.86
Sydney A Truro Yarmouth A	16.8 17.1 16.6	-0.8 0.0 0.2	29.2 28.2 25.5	6.5 5.2 9.3	0.0	142.0 116.8 105.8	140 122 109	0 0 0	12 11 5	177 182 200	47.2	101.5 101.5 101.5	1.67
PRINCE EDWARD ISLAND ILE-DU-PRINCE-EDOUARD													
Charlottetown A Summerside A	17.6 18.5	-0.2 0.1	28.6 28.4	8.0	0.0	79.7 159.0	90 199	0	14	197	36.1 27.3	101.4	
NEWFOUNDLAND TERRE-NEUVE													
Argentia Battle Harbour Bonavista Burgeo Cartwright	14.5 10.1 14.2 13.8 11.1	-0.8 -1.1 -0.8 -1.1 -0.9	23.5 25.6 24.7 20.3 28.0	6.5 4.0 3.8 4.4 0.2	0.0 0.0 0.0 0.0	130.3 122.9 121.0 172.7 94.9	135 146 145 117 116	0 0 0 0 0	17 14 13 11 18	131 198	239.6 128.3 124.0	101.6 101.3 101.5 101.4 101.1	1.03 1.35 1.44
Churchill Falls A Comfort Cove Daniel's Harbour Deer Lake A Gander Int'l A	11.6 14.4 13.6 14.7 14.1	-0.8 -1.2 -0.9 -0.3 -1.5	25.6 27.4 22.9 29.4 26.4	1.6 3.9 4.0 1.6 4.0	0.0 0.0 0.0 0.0 0.0	75.2 215.1 109.2 136.4 155.4	79 200 95 133 160	0 0 0	17 16 12 14 15	195 162 149	199.4 139.7 144.6 126.3	101.2 101.6 101.3 101.4 101.4	1.01 1.35 1.35 1.38
Goose A Hopedale Port-aux-Basques St. Anthony St. John's A	13.6 10.5 14.4 11.2 14.0	-0.7 -0.3 -0.3 -1.4 -1.3	29.9 26.8 20.0 25.4 27.9	2.9 1.7 5.5 4.2 0.5	0.0 0.0 0.0 0.0 0.0	57.2 40.9 206.9 139.7 140.5	55 51 180 106 116	0 0 0 0 0 0	13 8 17 13 18	164	234.9 111.9 204.1	101.1 101.0 101.0 101.3 101.6	.93 1.46 1.13
St. Lawrence Stephenville A Wabush Lake A	14.4 15.1 11.8	0.3 -1.0 0.0	23.0 25.1 25.5	7.4 5.6 1.6	0.0 0.0 0.0	165.1 244.4 92.6	136 235 98	0 0 0	15 17 16	140 190	110.5 94.3 193.3	101.3 101.2	

		Tempera Tempéra						nth (cm)	1.0 or more (mm)		Degré au-o	Degree Days above 5° C Degrés-jours au-dessus de 5° C	
STATION	Mean	Difference from Normal Ecert è le normale	Maximum Maximole	Minimum Minimale	Snowfell (cm) Chute de neige (cm)	Total Precipitation (mm) Precipitation totale (mm)	% of Normal Precipitation % de précipitation normale	Snow on ground at end of month (cm) Neige su sot à la fin du mois (cm)	No. of days with Pracip. 1.0 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Ourse de l'insolation (heures)	This Month Présent mois	Since Jan. 1st Depuis le 16 ^e Jeny.	Mean Dew Point *C
A	GROCLIM	ATOLOG	ICAL	STAT	IONS	AGROCL	IMAT	OLOG	ICUE	S			
RITISH COLUMBIA OLOMBIE-BRITANNIQUE			5.5%	- 6									
gassiz amloops	18.4	0.7	30.0	9.0	0.0	61.2	99	0	8	261	415.5	1772.6	
idney ummerland	20.6	0.6	33.0	11.0	0.0	20.4	74	0	5	295	483.0	1677.0	
LBERTA							311			1-59			
eaverlodge llerslie	15.0 16.9	0.8	28.0	3.0 1.5	0.0	32.4 9.6	51	0	4 3	354 331	370.3	1215.9	
ort Vermilion acombe ethbridge	16.6 20.2	1.7	33.0 35.5	2.5	0.0	10.2 19.3	15 41	0	3 4	302 324	362.1	1137.4	
auxhall egreville	20.1	2.6	36.5	3.0	0.0	16.6	43	0	2	317			
ASKATCHEWAN													
ndian Head elfort egina askatoon cott	21.1 19.9 20.8 20.0 18.9	2.5 3.8 3.4 2.9	36.5 34.5 37.0 36.5 34.5	5.5 7.0 7.0 6.0 3.0	0.0 0.0 0.0 0.0 0.0	18.6 78.0 7.4 30.0 37.6	33 143 18 81	0 0 0 0 0	4 6 3 6 8	338 340 333	464.0 495.5 468.5 435.2	1325.0 1405.5 1417.5 1298.7	
wift Current South	21.4	3.7	38.0	4.5	0.0	18.4	48	0	5	326	912.0	1563.5	
ANITOBA													
randon lenlea lorden	21.5 22.5 23.2	3.6 4.2 4.2	38.0 37.0 39.5	6.0 7.0 9.0	0.0	67.2 51.3 58.6	97 85 82	0 0 0	8 5 9	305 321 316		1492.0	
NTARIO									1				
Delhi Ilora	21.3	1.5	31.0	9.0	0.0	153.4 82.7	165	0	8 7	263 244	504.3 465.0	1738.2 1525.0	
			10.				13						
			3										

いい、中華文化を大きてもではなるといるとのであるいと、とことにおおおかかられているとなっていることによってもなるのかのでいるともできるといいできるから

		Temperat						-	(mm)			e Days	
								month lam	O or more	3	au-0	e jours lessus 5° C	1
STATION	Meen Moyenne	Difference from Normal Ecert à la normale	Maximum Maximale	Minimum Minimale	Snowfell (cm) Chute de neige (cm)	Total Precipitation (mm) Précipitation totale (mm)	% of Normal Pracipitation % de précipitation normale	Snow on ground at end of month (cm) Neige su so! à le fin du mois (cm)	No. of days with Precip. 1.0 or more (mm) Nombre de jours de préc. 1.0 ou plus (mm)	Bright sunshine (hours) Durée de l'insolation (heures)	This Month Présent mois	Since Jan 1st Depuis is 18" Janu.	Mean Dew Point "C Point de rosée moyen "C
Guelph Harrow Kapuskasing	20.4 22.9	1.6 1.7	31.6 32.0	7.0 11.0	0.0	92.0 67.4	113 85	0	8 6	239 265	484.0 552.8	1564.0 1733.0	
Merivale Ottawa	20.9	1.5	32.3	8.5	0.0	23.4	28	0	5		496.4	1673.0	
Smithfield Vineland Station Woodslee	20.6 21.5 22.2	1.3 0.7 1.4	31.0 30.9 32.5	8.0 12.5 11.0	0.0	64.9 90.2 47.8	86 105 63	0 0	9 10 4		480.0 512.8	1643.0 1739.0	
QUEBEC													
La Pocatiere L'Assomption Lavaltrie Lennoxville Normandin	18.3 20.4	1.0	30.0 32.0	5.0	0.0	29.1 50.8	30 53	0 0	7 8	257 220	413.2 477.0	1295.9 1590.1	
St. Augustin Ste. Clothilde	20.0	1.1	31.0	7.0	0.0	100.4	104	0	8	262	462.7	1630.1	
NEW BRUNSWICK NOUVEAU-BRUNSWICK Fredericton													
NOVA SCOTIA NOUVELLE-ECOSSE		X 75											
Kentville Nappan	18.8	0.4	30.0 30.5	7.5 5.0	0.0	106.3 131.2	108 144	0	13	204 197	428.4 971.0	1523.9	
PRINCE EDWARD ISLAND ILE-DU-PRINCE-EDOUARD						00.4	100		11	177	410.4	1370.8	
Charlottetown	18.3	-0.1	28.5	7.5	0.0	90.4	102	0		111	410.4	1370.0	10
NEWFOUNDLAND TERRE-NEUVE							100		16	102	204 8	1040.7	
St. John's West	14.8	-0.7	25.5	1.5	0.0	125.2	109	0	16	183	304.8	1040.7	