

Daily meteorological observations have been made from the Victoria Gonzales Observatory since it opened on April 23, 1914. For more information see page 3. Photograph courtesy of Scott Somerville

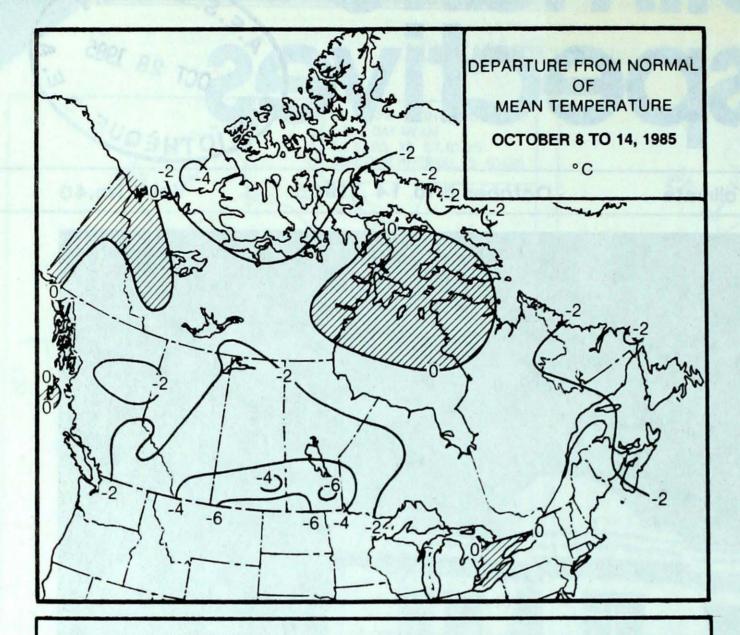
# First snow of the season in Atlantic Canada

- Frost colours Annapolis Valley apples
  - harvest in full swing
- Tail end of Prairie snowstorm hits Northwestern



Ontario

### TEMPERATURE



#### WEEKLY TEMPERATURE EXTREMES (°C)

#### MAXINUM

MINIMUM

YUKON TERRITORY 12.4 Burwash NORTHWEST TERRITORIES 10.7 Fort Simpson 20.6 Victoria BRITISH COLUMBIA 17.3 Coronation ALBERTA

SASKATCHEWAN MANITOBA ONTARIO

QUÉBEC NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND 15.5 Summerside NEWFOUNDLAND

17.9 Saskatoon 16.3 Dauphin 20.8 Toronto Windsor

19.1 Roberval 17.3 Charlo 21.3 Shelburne

-19.0 Klondike -31.2 Eureka -14.5 Puntzi Mountain -12.7 Pincher Creek

-14.7 Rockglen -15.0 Brandon -5.6 Kenora

-10.0 Schefferville -6.3 Chatham -4.8 Shelburne -1.0 Charlottetown

#### ACROSS THE COUNTRY ....

#### Yukon and Northwest Territories

The weather was blustery in the Territories and the eastern Arctic Numerous wind and storm warnings were issued. Precipitation amounts were variable, with rain and snow reported Significant amounts of snow fell in the central and northern Yukon. Most of the snow melted south of the Ogilvie Mountains. Snow depths in the high Arctic and northern Baffin Island ranged between 20 and 30 cm. Maximum temperatures at Eureka and Alert failed to rise above -21°C for several days. Minimum dropped to the minus thirties at night.

#### British Columbia

An onshore flow allowed several weather systems to approach the coast and move inland. Sunny skies gave way to a cool unsettled week. Significant rains, in excess of 100 mm, fell along the north coast Snow fell at higher elevations in the interior. Wet conditions have delayed late season haying and slash burning. The apple and grape harvest continues in the Okanagan. Frost occurred in most areas of the province. At Castlegar on October 8, a minimum temperature of -6.3°C was the coldest reading this early in the year.

#### Prairies

A major snowstorm let up on the evening of October 8. Snowfalls in districts agricultural southern ranged between 10 and 30 centimetres. In the storm's wake, southwestern Manitoba was left with up to 25 cm of wet snow on the ground. The already late harvest was brought to a virtual stand still in most farming districts. Many new daily low temperature records were established the first few days of the week. In the south, minimums plunged to the -10°C to -15°C range, while daytime values failed to even reach the freezing mark. By the weekend warmer temperatures moved in from the west. Temperatures climbed into the teens, but weather conditions remained variable

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#### -6.0 Churchill Falls

#### 16.2 St. Johns

### ACROSS THE NATION

Warmest mean temperature Coolest mean temperature

13.8 -23.5

Windsor, ONT Eureka, N.W.T.

# PRECIPITATION

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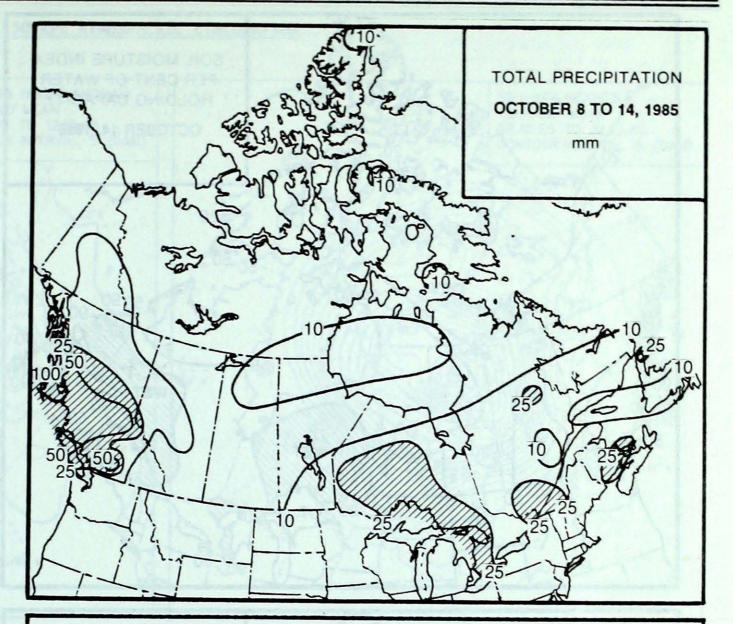
Weather systems continued to track across the province, as contrasting airmasses vied for supremacy. Temperatures fluctuated widely, but overall it was a cool week in the north. Temperatures in southern Ontario briefly reached the twenties early in the week. A 10 to 25 centimetre snowfall blanketed northwestern Ontario on October 8. Significant amounts of rain fell in southern Ontario over the weekend; many localities received more than 20 mm. Ottawa broke two 24-hour precipitation records. The apple harvest continued in the south. Most late vegetable crops have been picked. Fall field work is well underway.

#### Quebec

It was a typical autumn week, with varying amounts of cloud. Temperatures were not unusually cool, ranging from the upper teens in the south to near freezing in the north. Precipitation was variable. Heaviest amounts, between 30 and 40 millimetres, fell along the St. Lawrence Valley. Several centimetres of snow fell in central and northern Québec.

### Atlantic

weather was frequently The cloudy, with periods of rain and snow flurries. Parts of Newfoundland received a heavier dusting of snow. Gander received 3 cm of snow over the weekend. Numerous locations established new daily low temperature records around the middle of the week, as readings dropped to well below normal values. The apple harvest in Annapolis Valley is in full swing. The cool temperatures over the weekend served to give the apples more colour. Any moisture received this week was beneficial to fall cereal grains, such as winter wheat and rye.



#### HEAVIEST WEEKLY PRECIPITATION (mm)

YUKON NORTHWEST TERRITORIES BRITISH COLUMBIA ALBERTA

SASKATCHEWAN MANITOBA ONTARIO QUEBEC

NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND 15.5 Watson Lake 15.4 Cape Dorset 118.0 Prince Rupert 22.0 Whitecourt

17.2 Collins Bay
18.7 Churchill
47.3 Wiarton
41.4 Montreal/Dorval

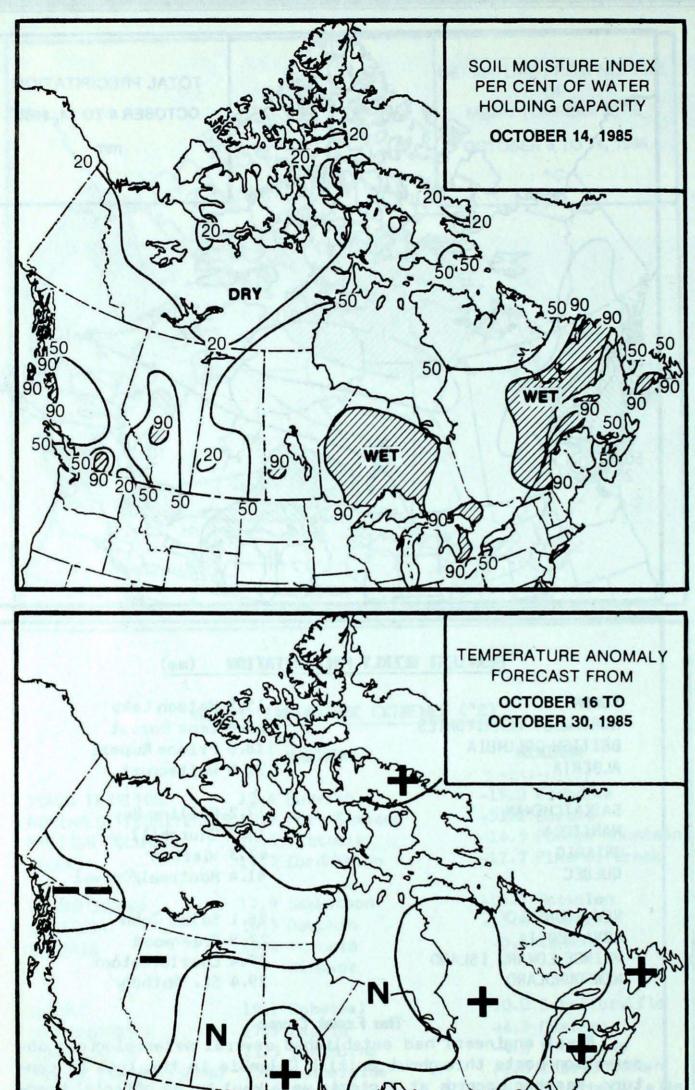
26.1 Saint John 22.9 Greenwood 39.4 Charlottetown 29.4 St. Anthony

#### The Front Cover

Royal engineers had established several meteorological observation posts throughout British Columbia in the late 19 century. Weather records at Victoria were kept by an official trading company from 1880 to 1890. An official weather observation program began at Cook Street in Victoria on August 10, 1898. The observation site had to be temporarily moved to Government Street on December 14, 1899 until a permanent location could be selected. The Gonzales Heights Observatory, still in use today, was completed in 1914. Built on solid rock overlocking the city of Victoria and the Straits of Juan de Fuca it was considered to be an ideal location for taking weather observations. From 1898 until World War II weather forecasts were issued from the Victoria weather office mainly for the benefit of mariners. The first weather forecasts appeared in a Victoria newspaper "Daily Colonist" in November 1898.

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## FORECAST



#### CLIMATIC PERSPECTIVES VOLUME 7

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The purpose of the publication is to make topical information available to the public concerning the Canadian Climate and its socioeconomic impact.

Unsolicited articles are welcome but should be at maximum about 1500 words in length. They will be subject to editorial change without notice due to publishing time constraints. Black and white photographs can be used, but not colour. The contents may be reprinted freely with proper credit.

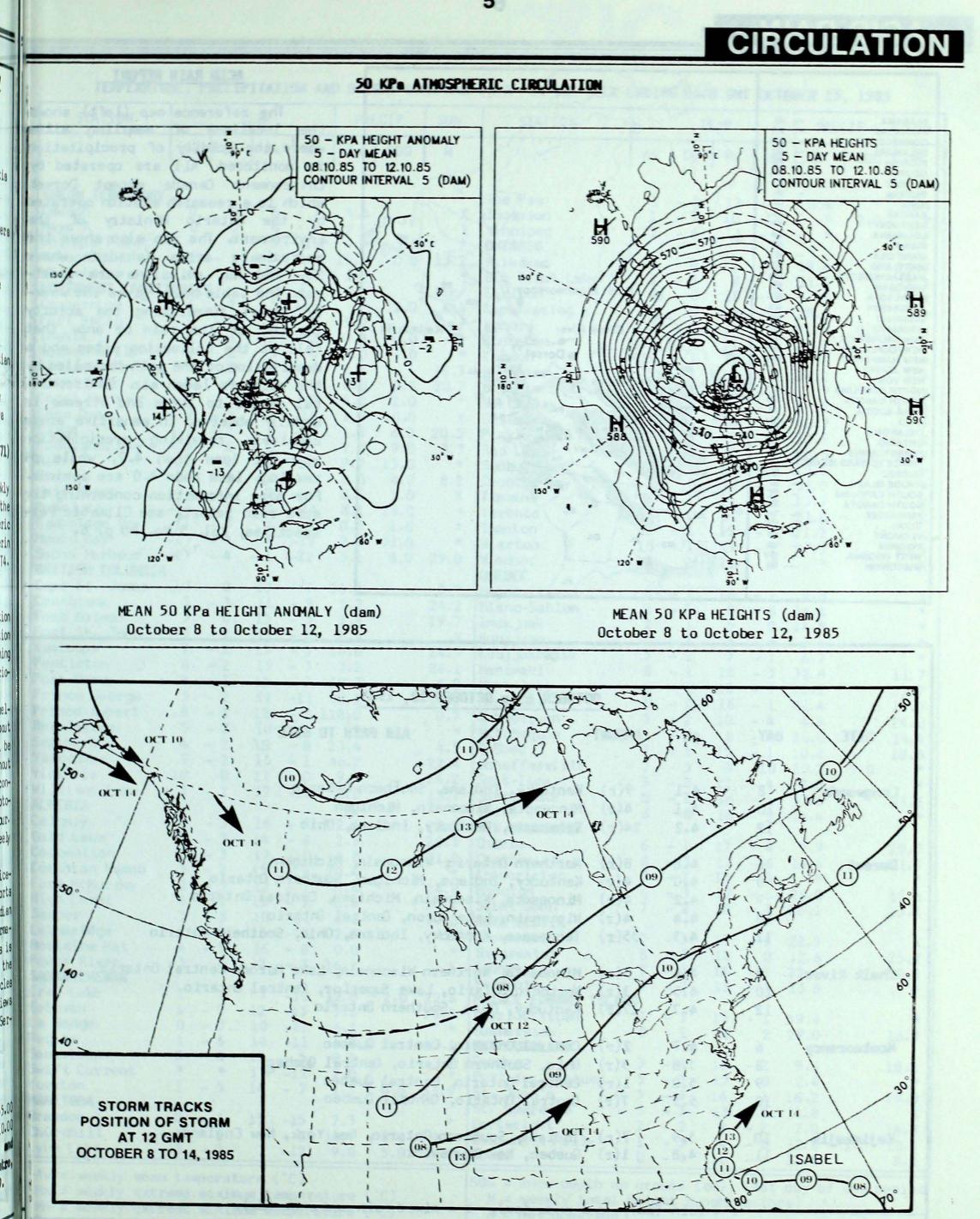
The data shown in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of the Atmospheric Environment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



#### ++ much above normal + above normal N normal

- below normal -- much below normal Temperature Anomaly Forecast This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

### Annual Subscriptions Weekly issue including monthly supplement: \$35.00 Monthly issue only: \$10.00 Subscription enquiries: Supply and Services Canada, Publishing Centre, Ottawa, Ontario, Canada, KIA 0S9. Phone (613)994-1495



## ACID RAIN

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#### ACID RAIN REPORT

The reference map (left) shows the locations of sampling sites where the acidity of precipitation is monitored. All are operated by Environment Canada except Dorset which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded) where  $SO_2$  and  $NO_x$  emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the rain or snow that fell at the collection sites and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

#### OCTOBER 6 to OCTOBER 12, 1985

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SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Longwoods	8	4.1	9(r)	Kentucky, Indiana, Southern Ontario
1	10	4.1	4(r)	Minnesota, Wisconsin, Michigan
	12	4.2	24(r)	Tennessee, Kentucky, Indiana, Ohio
Dorset	6	4.8	8(r)	Northern Ontario, Wisconsin, Michigan
	8	4.0	4(r)	Kentucky, Indiana, Michigan, Southern Ontario
	9	4.2	4(r)	Minnesota, Wisconsin, Michigan, Central Ontario
	10	4.4	4(r)	Wisconsin, Lake Huron, Central Ontario
	12	4.3	35(r)	Tennessee, Kentucky, Indiana, Ohio, Southern Ontario
Chalk River	9	4.4	5(r)	Minnesota, Northern Wisconsin, Lake Huron, Central Ontario
	10	4.5	3(r)	

12 4.7 17(r) Kentucky, Ohio, Southern Ontario

Central Ontario, Central Quebec 4.7 2(r) 6 Montmorency Ohio, Southern Ontario, Central Quebec 8  $3(\mathbf{r})$ 3.8 Central Ontario, Central Quebec 9 5.0 1(r)Central Ontario, Central Quebec 10 5.9 7(r)

Kejimkujik103.97(r)Indiana, Southern Ontario, New York, New England114.81(r)Quebec, New Brunswick

r = rain (mm), s = snow (cm), m = mixed rain and snow (mm).

STATISTICS

TEMPERATURE, PRECIPITATION AND BRIGHT SUNSHINE DATA FOR THE WEEK ENDING 0600 GNT OCTOBER 15, 1985

Dawson       0       2       6       -7       4.6       X       Thompson       -1       -1       10         Mayo A       0       0       4       -7       9.6       X       Winnipeg       2       -6       13         Shingle Point       *       *       3       -10P       *       30       *       Winnipeg       2       -6       13         Watson Lake       2       -1       9       -6       15.5       0.0       13.2       Atikokan       5       0       15         Whitehorse       2       0       10       -4       1.2       *       Big Trout Lake       1       -3       8         Coppermine       -6       -6       2       3       -15       *       2.0       8.4       Kapuskasing       6       0       15         Fort Smith       0       -2       8       -9       5.7       *       Kenora       3       -5       11         Norman Wells       0       2       5       -12       0.8       0.0       *       Kingston       12       17         Vellowknife       0       0       6       -5       1.1	$\begin{array}{c} -7 & 0 \\ -11 \\ -8 \\ -2 & 19 \\ -4 & 11 \\ -2 \\ -1 & 18 \\ -6 & 18 \\ 1 & 20 \\ 2 & 43 \\ -1 & 18 \\ -6 & 18 \\ 1 & 20 \\ 2 & 43 \\ -3 & 30 \\ -2 & 24 \\ -3 \\ -3 & 30 \\ -3 & 30 \\ -5 & 28 \\ -1 & 19 \\ -5 & 31 \\ -2 & 13 \\ -2 & 13 \\ -2 & 21 \\ -1 & 47 \end{array}$	p       SOG         0.4       *         *       2.0         *       2.0         *       2.0         *       2.0         *       2.0         *       2.0         *       2.0         *       2.0         *       2.0         *       0.0         5.8       0.0         5.8       0.0         5.8       0.0         5.8       0.0         5.8       0.0         5.8       0.0         5.7       0.0	10.4 * * 29.3 11.5 X * X * X * X 14.9 * X
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Coppermine $-6$ $-2$ $3$ $-15$ $*$ $2.0$ $8.4$ Kapuskasing $6$ $0$ $15$ Fort Smith $0$ $-2$ $8$ $-9$ $5.7$ $*$ Kanora $3$ $-5$ $11$ Inuvik $-4$ $1$ $5$ $-12$ $0.8$ $0.0$ $*$ Kingston $12$ $1$ $17$ Norman Wells $0$ $2$ $5$ $-4$ $8.0$ $1.0$ $*$ London $12$ $1$ $19$ Yellowknife $0$ $0$ $6$ $-5$ $1.1$ $16.3$ Mosonee $5$ $-1$ $16$ Baker Lake $-4$ $0$ $2$ $-11$ $0.8$ $0.0$ $20.7$ Muskoka $9$ $-1$ $16$ Coral Harbour $-4$ $2$ $1$ $-9$ $4.2$ $2.0$ $*$ North Bay $7$ $-1$ $17$ Cape Dyer $-9$ $-3$ $-2$ $-14$ $1.7$ $10.0$ $X$ Ottawa $9$ $-1$ $18$ Clyde $-7$ $-2$ $1$ $-15$ $1.6$ $6.0$ $20.5$ Pickle Lake $2$ $-3$ $9$ Frobisher Bay $-3$ $0$ $0$ $-7$ $7.8$ $9.0$ $3.3$ Red Lake $2$ $-4$ $11$ Alert $-20$ $-2$ $-13$ $-30$ $9.7$ $13.0$ $*$ Sudbury $7$ $-1$ $16$ Lureka $-23$ $-3$ $-16$ $-31$ $0.0$ $4.0$ $8.2$ Thunder Bay $7$ <td><math display="block">\begin{array}{c} -1 &amp; 18 \\ -6 &amp; 18 \\ 1 &amp; 20 \\ 2 &amp; 43 \\ -2 &amp; 24 \\ -3 &amp; -2 &amp; 24 \\ -3 &amp; -1 &amp; 31 \\ 0 &amp; 40 \\ -3 &amp; 30 \\ -5 &amp; 28 \\ -1 &amp; 19 \\ -5 &amp; 31 \\ -5 &amp; 31 \\ -2 &amp; 13 \\ 1 &amp; 21 \\ -2 &amp; 21 \\ -1 &amp; 47 \end{array}</math></td> <td>3.6 3.8 0.0 3.8 4.2 * 1.2 0.7 1.8 3.5 0.0 0.6 1.0 3.7</td> <td>* * * 14.9 * 22.9 *</td>	$\begin{array}{c} -1 & 18 \\ -6 & 18 \\ 1 & 20 \\ 2 & 43 \\ -2 & 24 \\ -3 & -2 & 24 \\ -3 & -1 & 31 \\ 0 & 40 \\ -3 & 30 \\ -5 & 28 \\ -1 & 19 \\ -5 & 31 \\ -5 & 31 \\ -2 & 13 \\ 1 & 21 \\ -2 & 21 \\ -1 & 47 \end{array}$	3.6 3.8 0.0 3.8 4.2 * 1.2 0.7 1.8 3.5 0.0 0.6 1.0 3.7	* * * 14.9 * 22.9 *
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Inuvik $-4$ 15 $-12$ $0.8$ $0.0$ *Kingston $12$ $1$ $17$ Norman Wells025 $-4$ $8.0$ $1.0$ *London $12$ $19$ Yellowknife006 $-5$ $1.1$ $16.3$ Mbosonee $5$ $-1$ $16$ Baker Lake $-4$ 0 $2$ $-11$ $0.8$ $0.0$ $20.7$ Muskoka $9$ $-1$ $16$ Coral Harbour $-4$ $2$ $1$ $-9$ $4.2$ $2.0$ *North Bay $7$ $-1$ $17$ Cape Dyer $-9$ $-3$ $-2$ $-14$ $1.7$ $10.0$ XOttawa $9$ $-1$ $18$ Clyde $-7$ $-2$ $1$ $-15$ $1.6$ $6.0$ $20.5$ Pickle Lake $2$ $-3$ $9$ Frobisher Bay $-3$ $0$ $0$ $-7$ $7.8$ $9.0$ $3.3$ Red Lake $2$ $-4$ $11$ Alert $-20$ $-2$ $-13$ $-30$ $9.7$ $13.0$ *Sudbury $7$ $-1$ $16$ Eureka $-23$ $-3$ $-16$ $-31$ $0.0$ $4.0$ $8.2$ Thunder Bay $7$ $0$ $17$ Hall Beach $-7$ $1$ $-2$ $-11$ $0.6$ $1.0$ XTimmins $6$ $-1$ $15$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0 5.8 4.2 * 1.2 0.7 1.8 3.5 0.0 0.6 1.0 5.7	* * X 14.9 * X 22.9 *
Norman Wells025-48.01.0*London12119Yellowknife006-51.116.3Mbosonee5-116Baker Lake-402-110.80.020.7Muskoka9-116Coral Harbour-421-94.22.0*North Bay7-117Cape Dyer-9-3-2-141.710.0XOttawa9-118Clyde-7-21-151.66.020.5Pickle Lake2-39Frobisher Bay-300-77.89.03.3Red Lake2-411Alert-20-2-13-309.713.0*Sudbury7-116Eureka-23-3-16-310.04.08.2Thunder Bay7017Hall Beach-71-2-110.61.0XTimmins6-115	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3.8 4.2 * 1.2 1.7 1.8 3.5 0.0 0.6 1.0 5.7	* 14.9 * 22.9 *
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Baker Lake-402-110.80.020.7Muskoka9-116Coral Harbour-421-94.22.0*North Bay7-117Cape Dyer-9-3-2-141.710.0XOttawa9-118Clyde-7-21-151.66.020.5Pickle Lake2-39Frobisher Bay-300-77.89.03.3Red Lake2-411Alert-20-2-13-309.713.0*Sudbury7-116Eureka-23-3-16-310.04.08.2Thunder Bay7017Hall Beach-71-2-110.61.0XTimmins6-115	$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	2 ).7 ).8 3.5 0.0 ).6 1.0 3.7	14.9 * X 22.9 *
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Eureka         -23         -3         -16         -31         0.0         4.0         8.2         Thunder Bay         7         0         17           Hall Beach         -7         1         -2         -11         0.6         1.0         X         Timmins         6         -1         15	- 5 31 - 2 13 1 21 - 2 21 - 1 47	L.O 5.7	*
Hall Beach -7 1 -2 -11 0.6 1.0 X Timmins 6 -1 15	- 2 13 1 21 - 2 21 - 1 47		
	- 2 21 - 1 47		X
Resolute -16 - 3 - 2 -24 8.1 26.0 * Toronto 11 0 21	- 1 47		X
			X 10.5
Mould Bay         -19         -4         -4         -27         2.1         31.0         *         Wiarton         10         -1         19           Sachs Harbour         -13         -4         -1         -22         3.1         8.0         29.0         Windsor         14         1         21	7	*	X
BRITISH COLUMBIA	1.1.1		
Cape St. James 10 0 13 7 56.5 8.2 Bagotville 6 -1 18		3.8	X
Cranbrock 3 - 3 11 - 8 5.2 24.2 Blanc-Sablon 2 - 3 8			*
Fort Nelson 3 0 15 - 5 2.4 19.7 Inukjuak 2 1 5		1.4	*
		3.6 5.7	*
		2.6	11.7
		.2	23.7
Prince George 3 - 2 11 -11 62.2 12.2 Montréal 9 - 1 16		L. 4	17.0
		8	24.9
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		).2 ).2 2.0	18.8
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		7.6	18.6
ALBERTA Val-d'Or 6 0 18	- 3 14	4.4	*
Calgary 4 - 3 16 - 9 2.4 23.5 NEW BRUNSWICK			
		9.9	29.3
	-6 14 -5	4.4 *	21.7
		5.0	15.6
		5.1	23.1
Jasper 3 - 3 10 -11 6.8 18.0 NOVA SCOTIA			
		2.9	25 T
		2.6	25.7 19.6
	-1 13		*
Cree Lake -1 X 7 -10 12.0 2.0 22.6 PRINCE EDWARD ISLAND			
Estevan 1 - 7 12 -13 3.8 56.8 Charlottetown 7 - 3 15		9.4	*
La Ronge 0 - 3 10 -11 6.1 * Summerside 8 - 2 16	2 29	9.0	16.3
Regina 1 - 6 14 -11 5.0 47.1 NEWFOUNDLAND Saskatoon 3 - 4 18 - 5 0.8 * Gender 3 - 4 13	2 0	1 4	18.1
Saskatoon         3 - 4         18 - 5         0.8         *         Gander         3 - 4         13           Swift Current         *         *         13P - 12         2.0         *         Port aux Basques         5 - 3         12		2.4	10.1
		5.2	19.0
MANITOBA St. Lawrence 5 - 3 15	and the second sec	1.8	X
	- 2 7	7.0	14.8
		2.8 1.0	
Lynn Lake - 3 - 3 7 -12 9.8 5.0 * Goose 0 - 4 10	- 6 12	2.4	8.1
Av = weekly mean temperature (°C) SOG = snow depth on ground (cm),	last da	ay of the	period
Mx = weekly extreme maximum temperature (°C) H = weekly total bright sunshin			
Mn = weekly extreme minimum temperature (°C) X = not observed			
Tp = weekly total precipitation (mm) Dp = Departure of mean temperature from normal (°C) P = extreme value based on less * = missing	than /	days	

ion dH

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