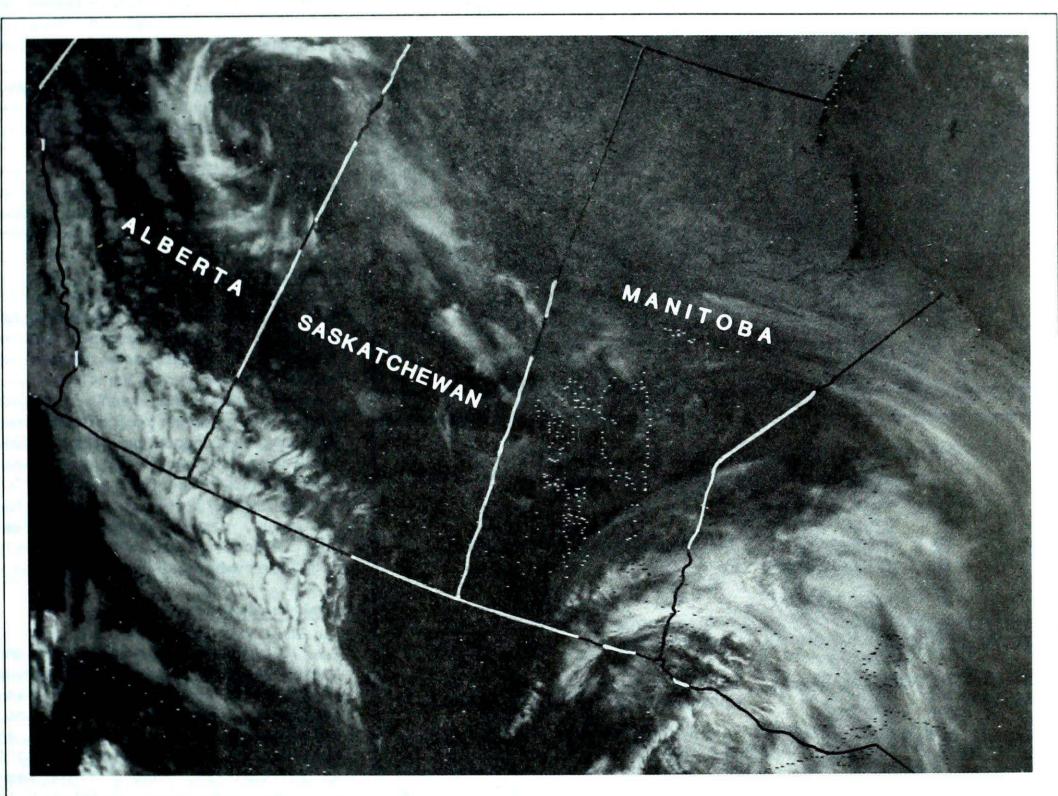


February 16 to 22, 1988

A weekly review of Canadian Climate

Vol. 10 No 8



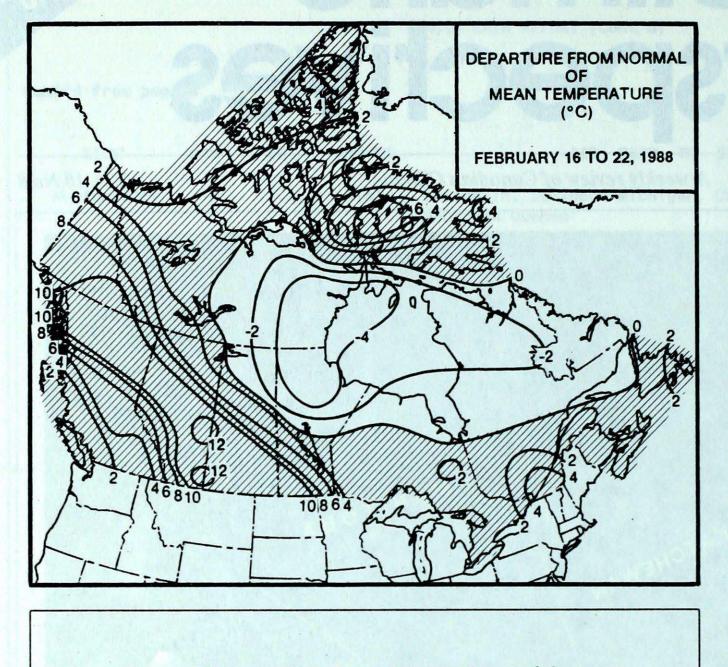
This NOAA-10 infrared satellite photograph of February 22, 1988, shows the tell tail sign of a mountain or standing wave, generated by strong winds blowing perpendicular to the mountain ranges. Parallel rows of nearly stationary lenticular wave cloud, at a height of 3000 metres, are aligned at regular wave length intervals downstream from the Rockies over southern Alberta and Saskatchewan. Frequently this event is associated with a chinook. There will be more information about this phenomena in an upcoming issue.

Record mild western Canada & Yukon

- Chinook winds continue to play havoc with Olympics !



TEMPERATURE



WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM
BRITISH COLUMBIA	PENTICTON	17	FORT NELSON -25
	WATSON LAKE	9	OGILVIE -41
YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	HAY RIVER	-2	
SASKATCHEWAN	ESTEVAN	85	CREE LAKE-34
MANITOBA	PORTAGE LA PRAIRIE		CHURCHILL-38
ONTARIO	WINDSOR	12	MOOSONEE -40
QUEBEC	SHERBROOKE	7	SCHEFFERVILLE -41
NEW BRUNSWICK	MONCTON	7	MONCTON -25
Nova scotia	GREENWOOD	10	AMHERST -16
Prince Edward Island	CHARLOTTETOWN	5	SUMMERSIDE -18

ACROSS THE COUNTRY

Yukon and Northwest Territories

In the Yukon, temperatures were well above normal until the weekend, when Arctic air returned. In the extreme south, where temperatures climbed to almost 10°C, there was some rain. On February 19, freezing rain closed the Alaska Highway south of Watson Lake. The combination of wet snow and mild temperatures through the coastal mountains increased the avalanche hazard resulting in road closures. The Klondike Highway south of Whitehorse was closed twice due to avalanches. Heavy snowfall warnings were issued for Haines Road.

British Columbia

A ridge of high pressure produced relatively pleasant weather conditions. Temperatures were mild, especially in the southern interior, where it was mostly sunny. A number of locations set new monthly maximum temperature records on February 21. Readings climbed to the mid-teens. Penticton reach a high of 16.6°C. Strong winds were reported in the Kootenays, causing some minor damage. Precipitation was relatively light everywhere.

Prairie Provinces

In Alberta, it was a mild and variably sunny week, as strong chinooks affected the weather. Temperatures soared into the teens, breaking numerous daily records. At Calgary, the mercury climbed to 17°C on February 20. Double digit temperatures were even registered in the more northern areas of the province. It was a windy period; more details on page 3. Mild temperatures penetrated into Saskatchewan and

NEWFOUNDLAND

BONAVISTA 14 WABUSH LAKE-44

-38 BAKER LAKE

CAPE ST.JAMES

ACROSS THE NATION

6

WARMEST MEAN TEMPERATURE COOLEST MEAN TEMPERATURE

southern Manitoba. A frontal zone, which lay across the district, gave light precipitation. A cold Arctic air mass spilled across the region Sunday evening.

Ontario

BC

NWT

Typical mid-winter conditions prevailed, with a mixture of sun and cloud. On Friday, a low pressure system brought rain to the extreme

PRECIPITATION

lower Great Lakes region, and a mixture of wet snow and rain to the rest of southern Ontario. Near freezing temperatures caused numerous traffic accidents. Very cold air replaced the mild weather over the weekend, and snow squalls developed on Saturday. A few new daily record minimums were established on the 21st. Warmer weather returned the last day of the period.

Quebec

It was a variable week, with periods of snow and fluctuating temperatures. Ten to 15 cm of snow fell in the southwest adding to the minimal snow cover. In the Eastern Townships, cross country ski conditions are not considered very good. A complex weather system affected eastern Quebec during the weekend, and dumped 20 to 40 cm of snow. Baie Comeau received 31 cm, bringing their monthly total to 131 cm, which breaks their previous monthly record of 108 cm. Snow depths are greater than 100 cm at Quebec City and Gaspé. A brief Arctic outbreak, accompanied by strong winds, swept the province on the 20th. Temperatures in the north dipped down to the minus forties.

Atlantic Provinces

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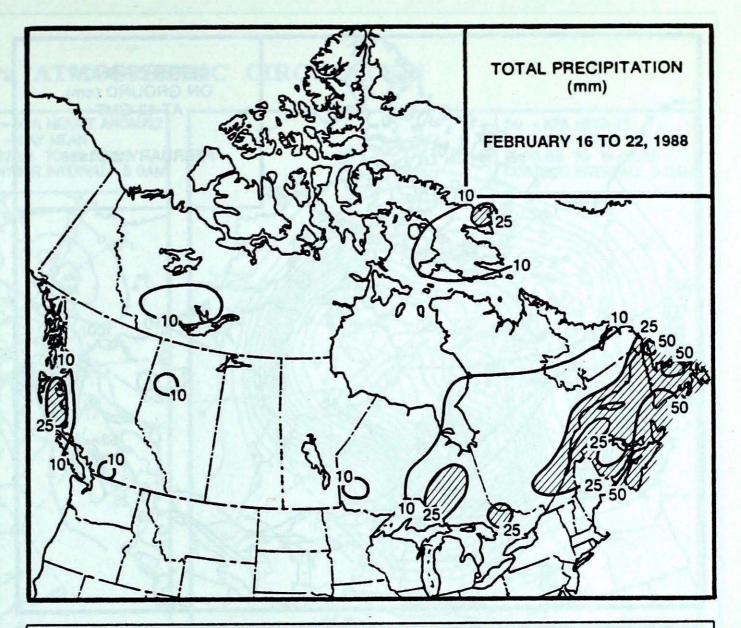
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18

An intense low pressure system crossed the region on the 16th and 17th, giving heavy rain to Nova Scotia. Shearwater recorded a 24hour total of 76 mm on the 16th, which exceeds the February normal. Numerous streets and basements were flooded. Falling temperatures late in the day turned everything into an icy mess. Some schools were closed, and there were several multi-car accidents. Freezing rain on Cape Breton Island damaged trees, and brought down telephone and power lines. In Newfoundland, 40 to 60 cm of fresh snow covered the Island. Southern areas received a mixture of rain and freezing rain. Winds gusted to 133 km/h at Twillingate. Another storm on the 20th and 21st produced mixed precipitation in the Maritimes, and mostly rain in Newfoundland. High pressure gave generally fair weather to Labrador. A snow storm brushed southeastern Labrador on the 21st.



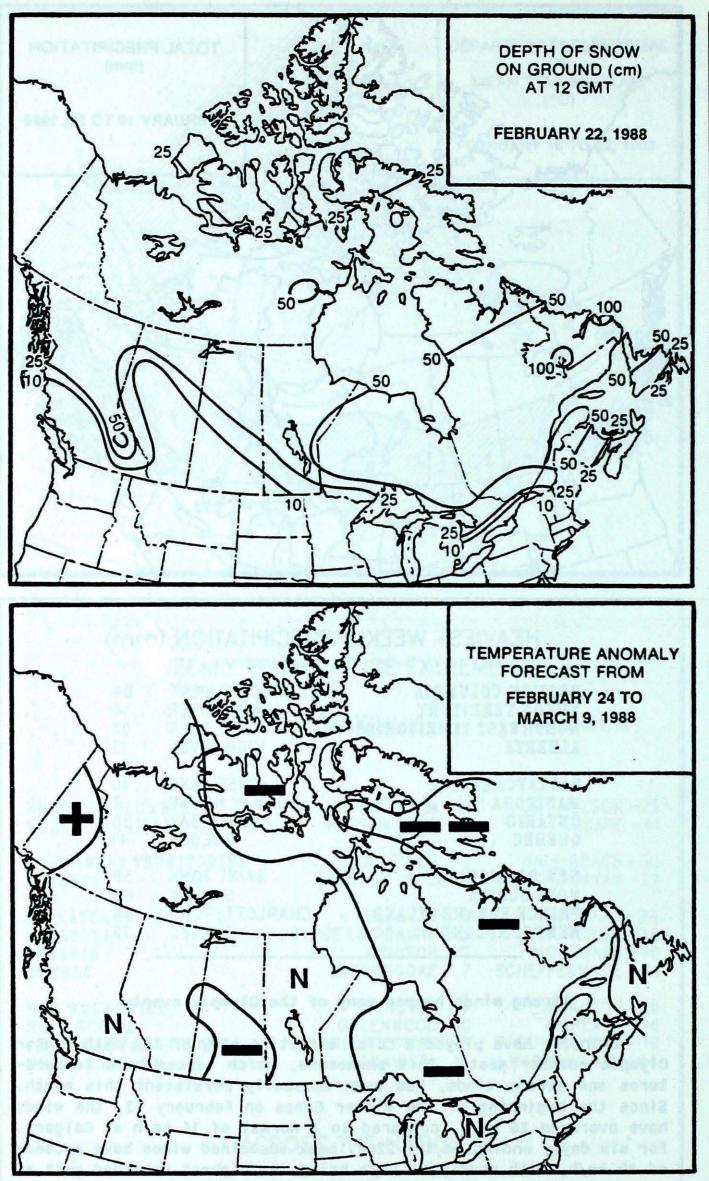
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA	PRINCE RUPERT	64
YUKON TERRITORY	SWIFT RIVER	14
NORTHWEST TERRITORIES	CAPE DYER	57
ALBERTA	HIGH LEVEL	12
		and the second
SASKATCHEWAN	CREE LAKE	10
MANITOBA	NORWAY HOUSE	7
ONTARIO	NORTH BAY	30
QUEBEC	QUEBEC	41
40LDLG	Concernance of the second	
NEW BRUNSWICK	SAINT JOHN	58
NOVA SCOTIA	SYDNEY	88
PRINCE EDWARD ISLAND	CHARLOTTETOWN	60
NEWFOUNDLAND	BURGEO	79
NEWI CONDERNE		

Strong winds hamper many of the Olympic events

Chinooks have played a role, affecting many of the 15th Winter Olympic outdoor meets. This phenomena, which causes mild temperatures and strong winds, has been unusually persistent this month. Since the beginning of the Winter Games on February 13, the winds have averaged 26 km/h, compared to a normal of 16 km/h at Calgary. For six days, ending on the 22nd, peak sustained winds have exceeded 40 km/h, with nearly 90 km/h being the highest recorded gust at Calgary. The winds have been much stronger on the slopes of Mount Allan. On February 13 and 18, speeds exceeded 200 km/h at the 2200 metre (7500 ft) ridge top. On the 21st, dust and sand was swirled up by strong winds blowing out of the north in excess of than 100 km/h at the Olympic Park. Sunday's 38.3 km/h average wind speed is the highest recorded daily average since 1966.

FORECAST



CLIMATIC PERSPECTIVES VOLUME 10 Managing Editor P.R. Scholefield Editors-in-charge weekly A.K. Radomski monthly A. Shabbar French A.A. Caillet Data Manager M. Skarpathiotakis Art Layout K. Czaja Word Processing P. Burke/U. Ellis Translation D. Pokorn Cartography G. Young/T. Chivers

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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. The contents may be reprinted freely with proper credit.

The data in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of the Atmospheric Environment Service. Annual Subscriptions weekly & monthly supplement: \$35.00 foreign: \$42.00 Monthly issue: \$10.00 foreign: \$12.00 Orders must be prepaid by money order or cheque payable to Receiver General for Canada. Canadian Government Publishing Centre, Ottawa, (613)994-1495 Ontario K1A 0S9

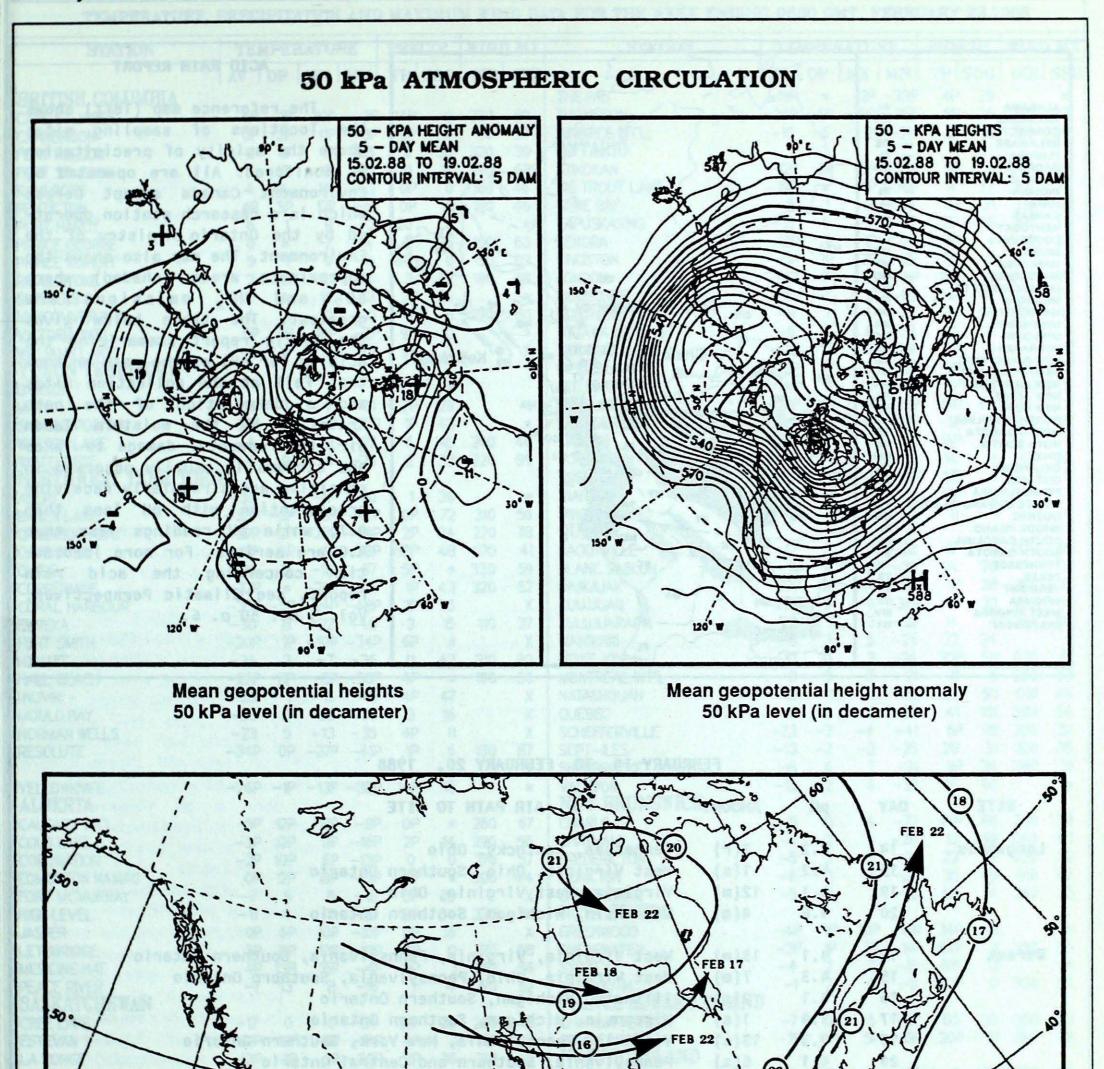
Temperature Anomaly Forecast

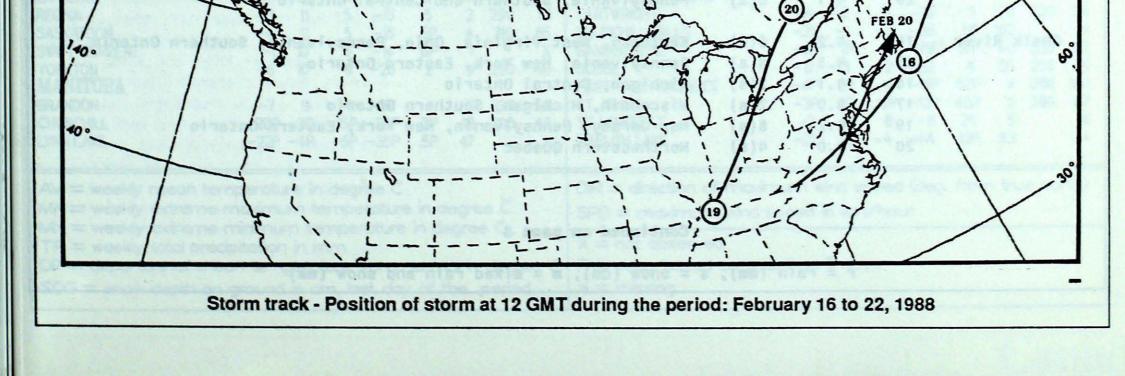
- ++ much above normal
- + above normal
- N normal
- below normal
- -- much below normal

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. February 16 to 22, 1988

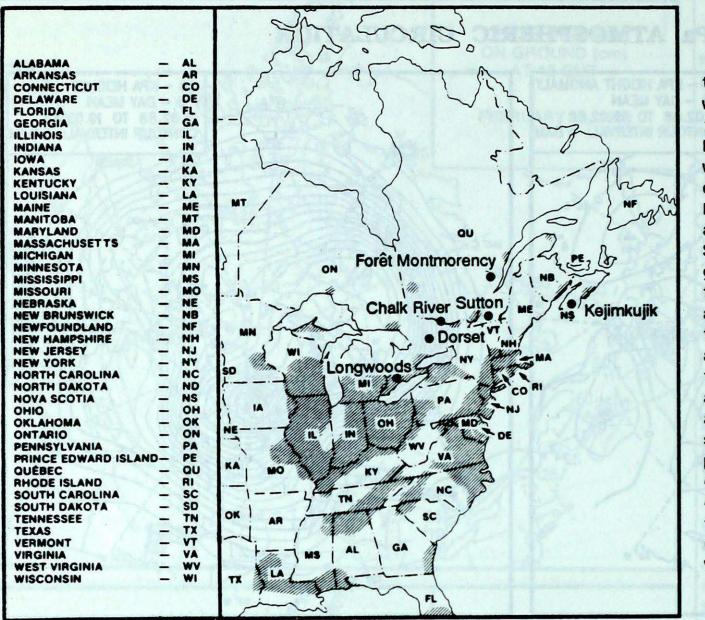
Climatic Perspectives

page 5





ACID RAIN



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 SO₂ 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.

FEBRUARY 14 TO FEBRUARY 20, 1988

SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Longwoods	14	4.2	2(r)	Tennessee, Kentucky, Ohio
	15	4.2	1(s)	West Virginia, Ohio, Southern Ontario
	19	4.1	12(m)	Virginia, West Virginia, Ohio
	20	4.6	4(m)	Wisconsin, Michigan, Southern Ontario
Dorset	14	4.1	13(m)	West Virginia, Virginia, Pennsylvania, Southern Ontario
	15	4.3	7(m)	West Virginia, Ohio, Pennsylvania, Southern Ontario
	16	4.1	2(s)	Illinois, Michigan, Southern Ontario
	17	3.9	1(s)	Wisconsin, Michigan, Southern Ontario
	19	4.3	13(s)	Virginia, Pennsylvania, New York, Southern Ontario
	20	4.1	6(s)	Pennsylvania, Southern and Central Ontario

6A

Chalk River	14	4.2	6(s)	Kentucky, West Virginia, Ohio, Pennsylvania, Southern Ontario
	15	4.3	4(s)	Pennsylvania, New York, Eastern Ontario
	16	4.1	2(s)	Michigan, Central Ontario
	17	4.0	2(s)	Wisconsin, Michigan, Southern Ontario
	19	4.2	8(s)	New Jersey, Pennsylvania, New York, Eastern Ontario
	20	4.0	4(s)	Northwestern Quebec

Continued on page 8

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

STATISTICS

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P = weekly total precipitation in mm $X =$ not observed P = departure of mean temperature from normal in degree C $P =$ value based on less than 7 days		100						1	1									

7A

'd from pag	e 6			
SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Sutton	15	4.0	5(s)	Southern Ontario, New York, Southern Quebec
	16	4.2	1(s)	Michigan, Southern Ontario
	19	4.3	5(s)	Atlantic Ocean, New England
Montmorency	14	4.1	5(s)	Southern Ontario, New York, Southern Quebec
	15	4.5	16(s)	Pennsylvania, New York, Southern Quebec
	17	4.0	2(s)	Michigan, Southern Ontario, Southern Quebec
	19	5.4	22(s)	Atlantic Ocean, New England, Southern Quebec
	20	4.1	13(s)	New York, New England, Southern Quebec
Kejimkujik	15	4.8	27(r)	Atlantic Ocean
	16	5.7	18(m)	Atlantic Ocean
	18	3.5	1(s)	Central Ontario, Southern Quebec, Maine
	20	4.4	21(r)	Atlantic Ocean

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

8A

