

 The Prairies endure mid-Winter weather snow, cold and high winds

Unseasonable warmth continues in Eastern Canada

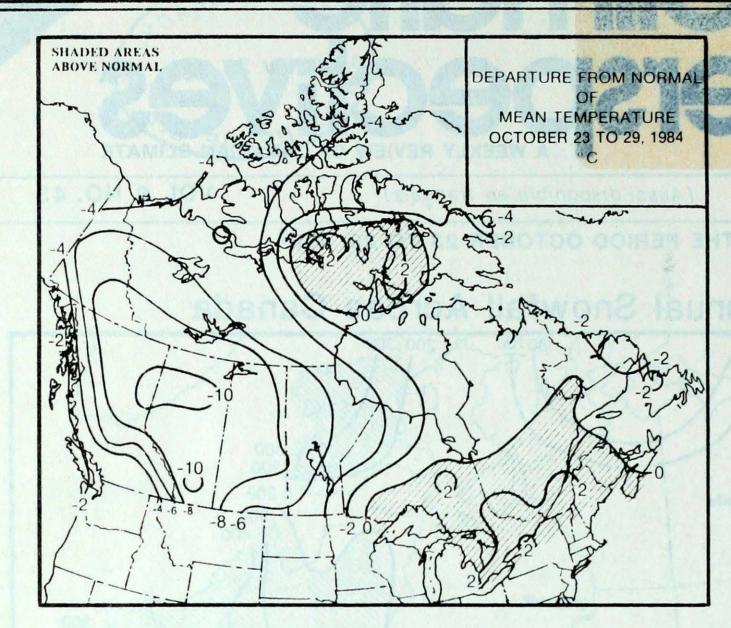
Rains alleviate water shortage in Nova Scotia

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The data shown in this publication are based on unverified reports

from approximately 225 Canadian synoptic stations.

Canada



WEEKLY TEMPERATURES EXTREMES (°C)

		MAXIMUM		MINIMUM	the Proceeded
YUKON TERRITORY	5.2	Burwash	-42.0	Ogilvie	fall
NORTHWEST TERRITORIES	11.8	Broughton Island	-39.1	Eureka	River
BRITISH COLUMBIA	14.8	Smithers	-27.3	Dease Lake	effect
AL OFOTA	15.4	Ma dialas list		Edson	attemp North
ALBERTA	15.4	Medicine Hat	-31.2	Eason	indust
					start
SASKATCHEWAN	11.9	Eastend Cypress	-22.5	Eastend Cypress	the s
MANITOBA	10.7	Pilot Mound	-21.2	Thompson	at h
ONTARIO	24.0	Windsor	-14.0	Winisk	mounta
QUEBEC	24.0	Montréal/Dorval	-12.8	Inukjuak	treach
NEW BRUNSWICK	15.3	Moncton	-6.6	Charlo	Prairi
NOVA SCOTIA	16.5	Shelburne	-2.7	Inverness	Si cali
				Sydney	E
PRINCE EDWARD ISLAND	14.6	Charlottetown	-4.5	Charlottetown	weathe
NEWFOUNDLAND	13.8	Badger	-16.1	Badger	strong
		00 01 90			a Sibe southe
	AC	ROSS THE NATION			ing d
Warmest mean temperat	ure	12.3	Windso	or, ONT	cords
Coplest mean temperati		-27.6	Alert,	NWT	many

ACROSS THE COUNTRY

福行 (四个) (金)

Yukon and Northwest Territories

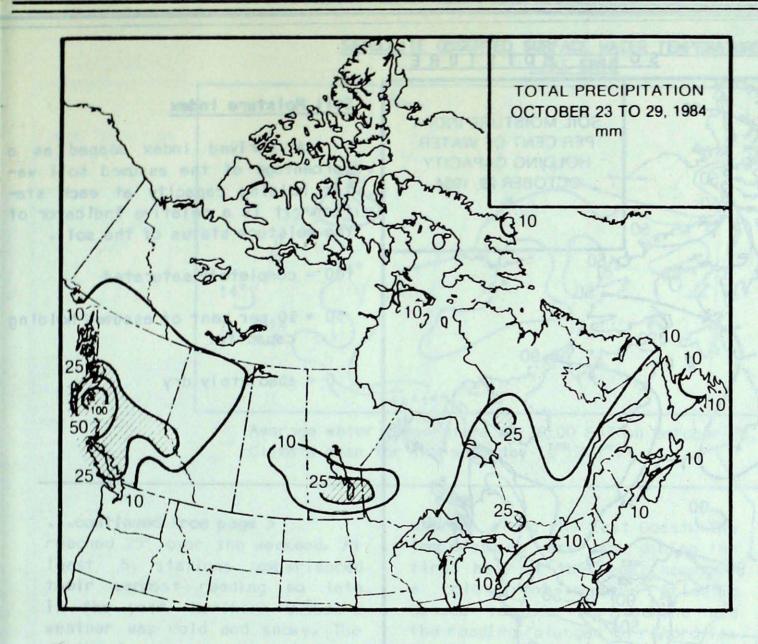
A pool of cold Arctic air penetrated the Yukon and the Mackenzie District during the latter part of the week. Temperature, above normal at the beginning of the week, dropped steadily, and by the week's end the mercury at most localities failed to climb above -10°. The minimum temperature at Old Crow on October 29 dropped to a bone chilling -36°. With freeze-up well under way, ferry services across major rivers have been discontinued. Snowfalls of 5 to 10 cm were common and a snow cover is now evident in all areas of the Yukon and Northwest Territories.

British Columbia

Overall it was cool and unsettled with above-normal precipitation. Mean temperatures in the South and along the Coast were 2 to 4 degrees below normal. A cold Arctic high pressure cell penetrated the North and central interior after mid-week and temperatures there averaged 8 to 11 degrees below normal; in addition, many new daily low temperature records were set. Fort St. John established a new minimum temperature record for the month, -21.5°C. Snow fell in most areas of Province; many communities red their first measurable snowof the season. In the Peace District snow depths of 10 cm tively ended all harvesting pts. Many small lakes in the are frozen over and the forest try is anticipating an early to the logging season. In southern interior, snow fell ligher elevations and many ain roads were snow covered and herous.

ies

Extremely cold winter-like er conditions prevailed as a g northerly circulation allowed perian Arctic air mass to spill eastwards. Numerous longstanddaily minimum temperature rewere toppled; in addition, low maximum temperature new



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HEAVIEST WEEKLY PRECIPITATION (mm)

YUKON NORTHWEST TERRITORIES BRITISH COLUMBIA ALBERTA SASKATCHEWAN

MANITOBA ONJARIO QUEBEC NEW BRUNSWICK NOVA SCOTIA

PRINCE EDWARD ISLAND NEWFOUNDLAND

12.0 Whitehorse 13.6 Coral Harbour 131.4 McInnes Island 19.2 Grand Prairie 12.4 Nipawin

37.1 Bissett
30.4 Red Lake
27.8 La Grande Rivière
16.8 Saint John
13.4 Yarmouth

24.5 Charlottetown 23.3 St. Lawrence records were also set. Several locations established new all time minimum temperature records for the month of October. Overnight temperatures at Calgary and Edmonton plummeted to -22° and -20°, respectively.

During the weekend, a rapidly moving disturbance spread several centimetres of snow across the extreme South and the eastern third. Accompanying strong winds whipped the snow, causing near-blizzard conditions and the closure of many highways. Snow accumulations on the ground, by the end of the period, ranged from 2 to 10 cm in the South, but values as high as 15 cm were reported at more northern locations.

Ontario

While southern Ontario enjoyed balmy summer like weather, northern Ontario endured cold and snowy conditions. The snowfall accumulated to nearly 22 cm at Big Trout Lake. The temperatures also registered several degrees below normal; for example, the readings dropped to a cold -13° at Pickle Lake on October 25. In sharp contrast, unseasonable warmth covered the lower Great Lakes Basin and southern Ontario basked in record warm temperatures. At Ottawa, the mercury reached 23° on October 28 and in downtown Toronto a daytime reading of 23.5° upset a long standing record of 22° set in 1946. Precipitation was also light in the South. One negative aspect of the mild weather was the extensive fog that blanketed southern Ontario on most of the morning hours.

Quebec

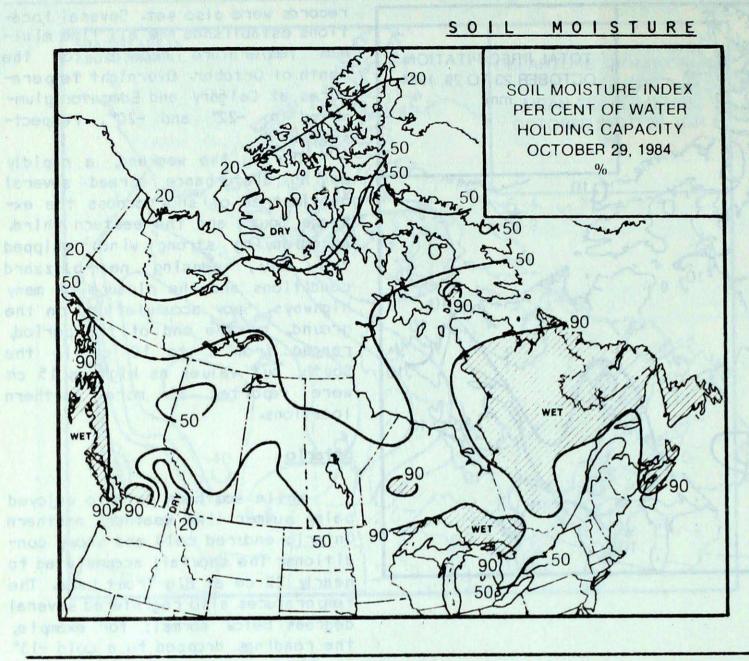
Near normal temperatures and light precipitation dominated the weather along the St. Lawrence Val-

Ice Conditions

A near normal freeze-up pattern continues in the High Arctic. Ice thickness in Lancaster Sound varies between 25 and 35 cm. The ice-strengthened ore carrier MV ARCTIC, arrived at Little Cornwallis Island this week, encountering little difficulty. Treacherous old ice drifting southward in western Baffin Bay poses a potential hazard for departure slated in the first week of November. New ice is forming along the shores of northern Hudson Bay and Hudson Strait. The ice pack countinues to extend southward along the Baffin Island coast. The Beaufort drill sites are ice covered; ice thickness ranges from 25 to 35 cm, but some leads of open water were still evident.

ley. Cold air swept the Province on October 27. Over southeastern Québec, many daily record-low temperatures were established including -10° at Gaspé that broke the old record of -5°. At La Grande, a 12° drop in temperature occurred in 4 hours and wind gusts of 120 km/h were recorded. Summer-like weather arrived over the southwestern areas of the Province as the mercury

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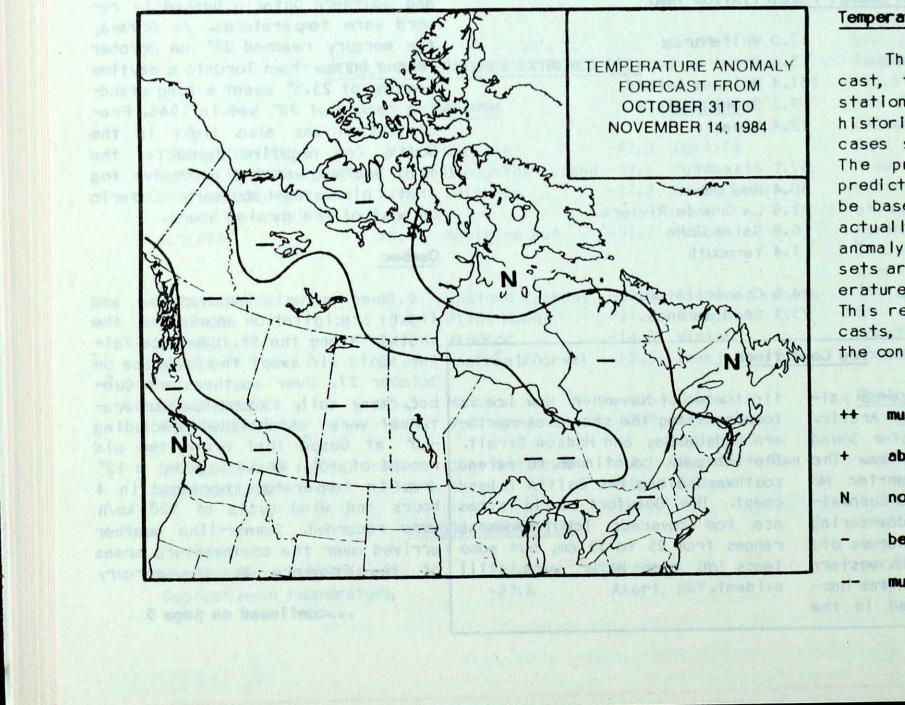
Soil Moisture Index

A derived index mapped as a percentage of the assumed soil water holding capacity at each station. It is a relative indicator of the moisture status of the soil.

- 100 = completely saturated
- 50 = 50 per cent of assumed holding capacity
- 0 = absolutely dry

TEMPERATURE ANOMALY FORECAST

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Temperature Anomaly Forecast

The temperature anomaly forecast, for each of the 70 Canadian stations, is prepared by searching historical weather maps to find cases similar to the present one. The principle used is that a prediction for the next 15 days may be based on what is known to have actually happened during the 15-day anomaly periods. After the five best sets are selected, the surface temperature anomalies are calculated. This results in five separate forecasts, which are averaged to provide the consensus forecast depicted.

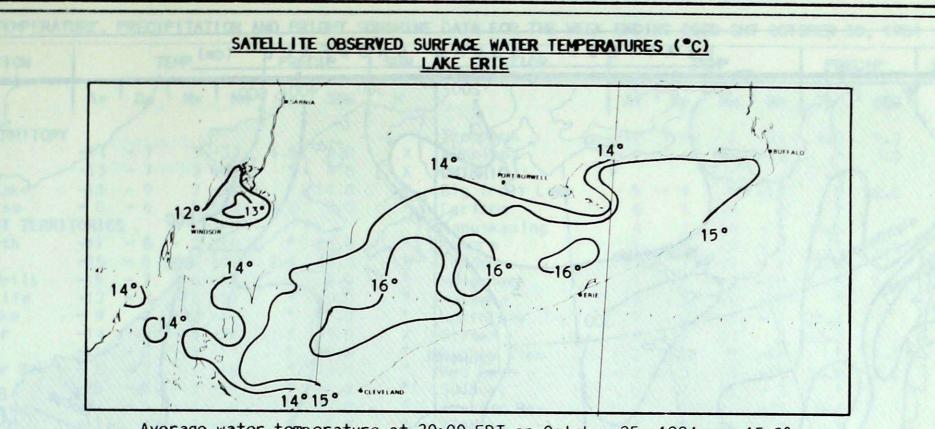
+ much above normal

above normal

normal

below normal

- much below normal



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Average water temperature at 20:00 EDT on October 25, 1984 was 15.2°. Climate mean for the same day is 12.7°.

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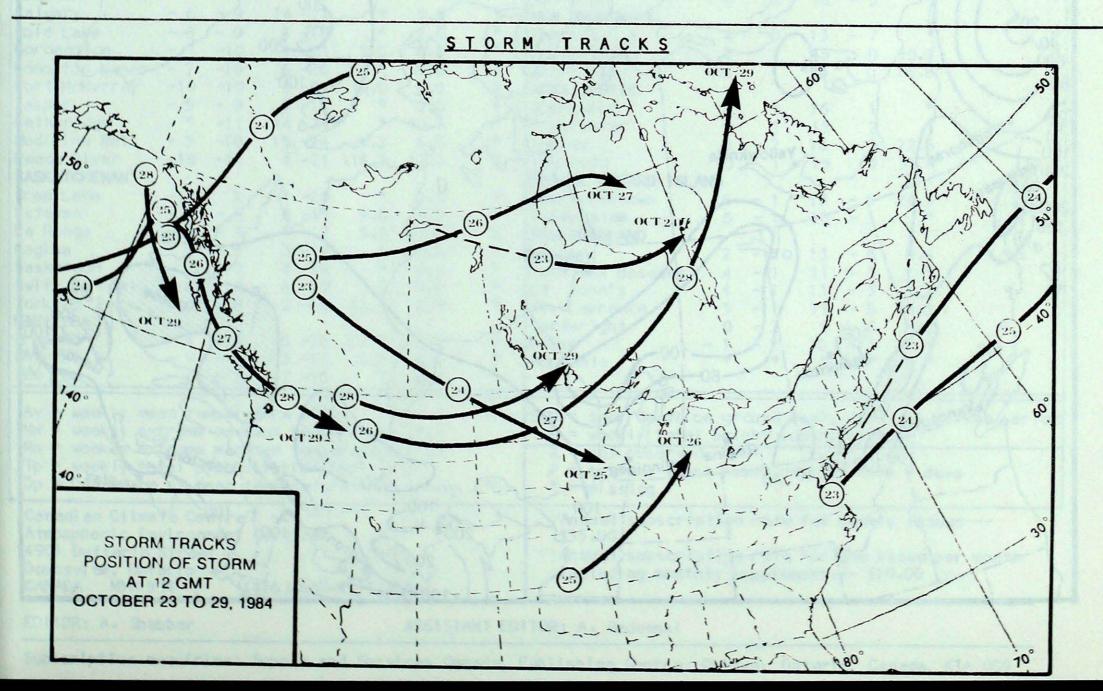
reached 25° over the weekend. At least 6 stations experienced their warmest reading so late in the year. Northern Québec's weather was cold and snowy. The depth of snow on the ground was in the 12 to 10 cm range throughout the North.

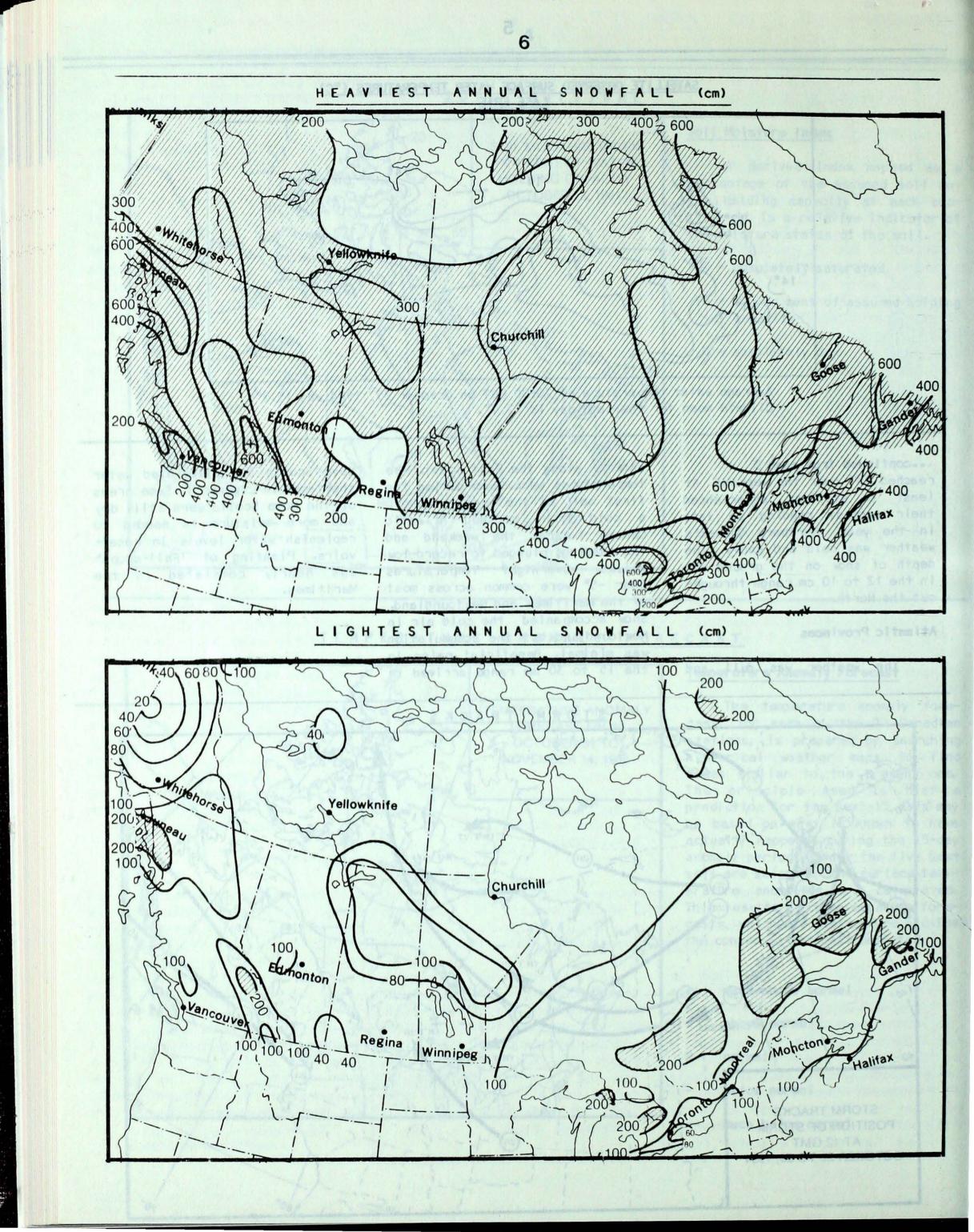
Atlantic Provinces

The weather was dull and

showery along the East Coast. The temperatures were warm during the first half of the week, however, a cold front crossed Atlantic Canada towards the weekend and the readings plunged to record-low values. Overnight temperatures near -5° were common across most of the Maritimes and Newfoundland. Snow accompanied the cold air in Newfoundland but the accumulation was minimal. Beneficial rains in the 15 to 30 mm range arrived in

Nova Scotia and alleviated water shortages in Liverpool. Some areas of the Nova Scotia were still dry and more moisture is needed to replenish water levels in reservoirs. Planting of 'Fall-crops' was nearly completed in the Maritimes.





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ACID RAIN REPORT ISSUED BY ENVIRONMENT CANADA FOR OCTOBER 21-27, 1984

SITE	DAY	рН	AIR PATH TO SITE
Longwoods, near London, Ont.			Data not available.
Dorset,*	21	3.8	U.S. Midwest.
Muskoka, Ont.	23	4.1	From west across Lake Superior and Lake Huron.
	25	4.5	Iowa, Wisconsin, Michigan.
	26	3.5	U.S. Midwest, Michigan, southern Ontario.
	27	4.0	U.S. Midwest, Michigan, southern Ontario.
Chalk River Ottawa Valley, Ont.	21	3.8	Illinois, Indiana, Ohio, Southern Ontario.
Unic.	25	4.4	Wisconsin, Michigan, Lake Huron, Sudbury Basin.
	26	3.6	U.S. Midwest, Michigan, Southern Ontario.
	27	4.0	U.S. Midwest, Michigan, Southern Ontario.
Montmorency, Quebec City Que.	21	4.4	U.S. Midwest, St. Lawrence River Valley.
	27	3.9	Wisconsin, Michigan, Lake Huron, central Ontario, southern Quebec.
Kejimkujik, Southwestern	22	4.3	U.S. Midwest, New England States.
N.S.	23	4.7	U.S. Midwest, southern Ontario, New England States.

25 5.0 Lake Huron, central Ontario, southern Quebec, Maine.

27 4.4 St. Lawrence River Valley, New England States.

* Data for Dorset supplied by the Ontario Ministry of Environment.

Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7. pH readings less than 4.0 are serious.

This report was prepared by the Federal Long Range Transport of Air Pollutants (LRTAP) Liaison Office. For further information, please