

CLIMATIC PERSPECTIVES

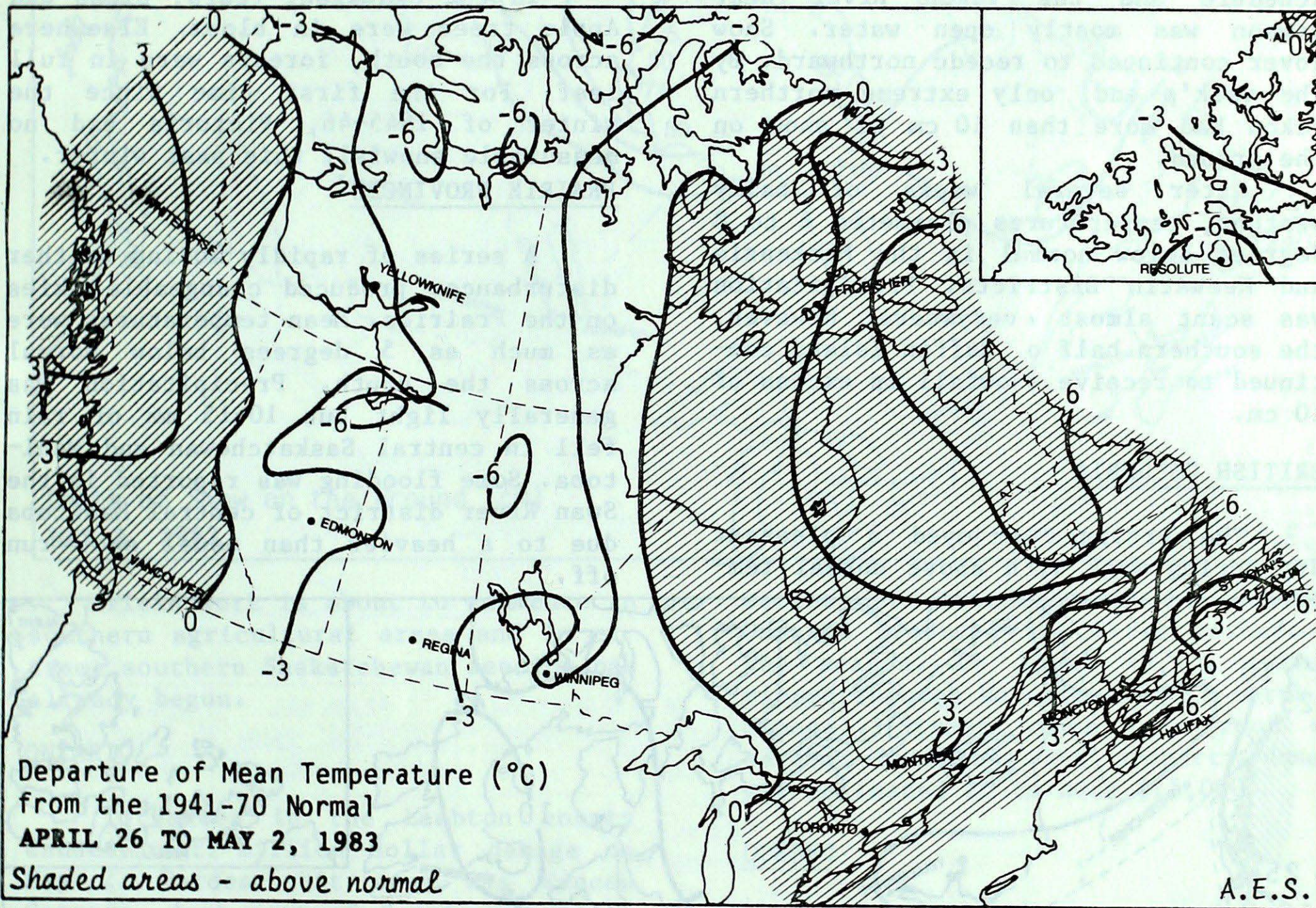
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WEATHER HIGHLIGHTS FOR THE PERIOD - APRIL 26 TO MAY 2, 1983

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NOTE: The data shown in this publication are based on unverified reports from approximately 225 Canadian and 115 northern United States Synoptic stations.

YUKON AND THE NORTHWEST TERRITORIES

Unusually warm weather continued in the Yukon. Numerous record daytime temperatures were set in southern Yukon; At Whitehorse, a reading of 20° on April 27 equalled the record high for the month of April. Owing to the persistent mild weather, trees were beginning to leaf three weeks ahead of schedule and the Yukon River near Dawson was mostly open water. Snow cover continued to recede northward. By the week's end, only extreme northern Yukon had more than 10 cm of snow on the ground.

After several weeks of balmy weather, temperatures plummeted 6 to 8 degrees below normal in the Mackenzie and Keewatin Districts. Precipitation was scant almost everywhere; however, the southern half of Baffin Island continued to receive snowfall in excess of 10 cm.

BRITISH COLUMBIA

The province enjoyed a pleasant dry spring week with above normal tem-

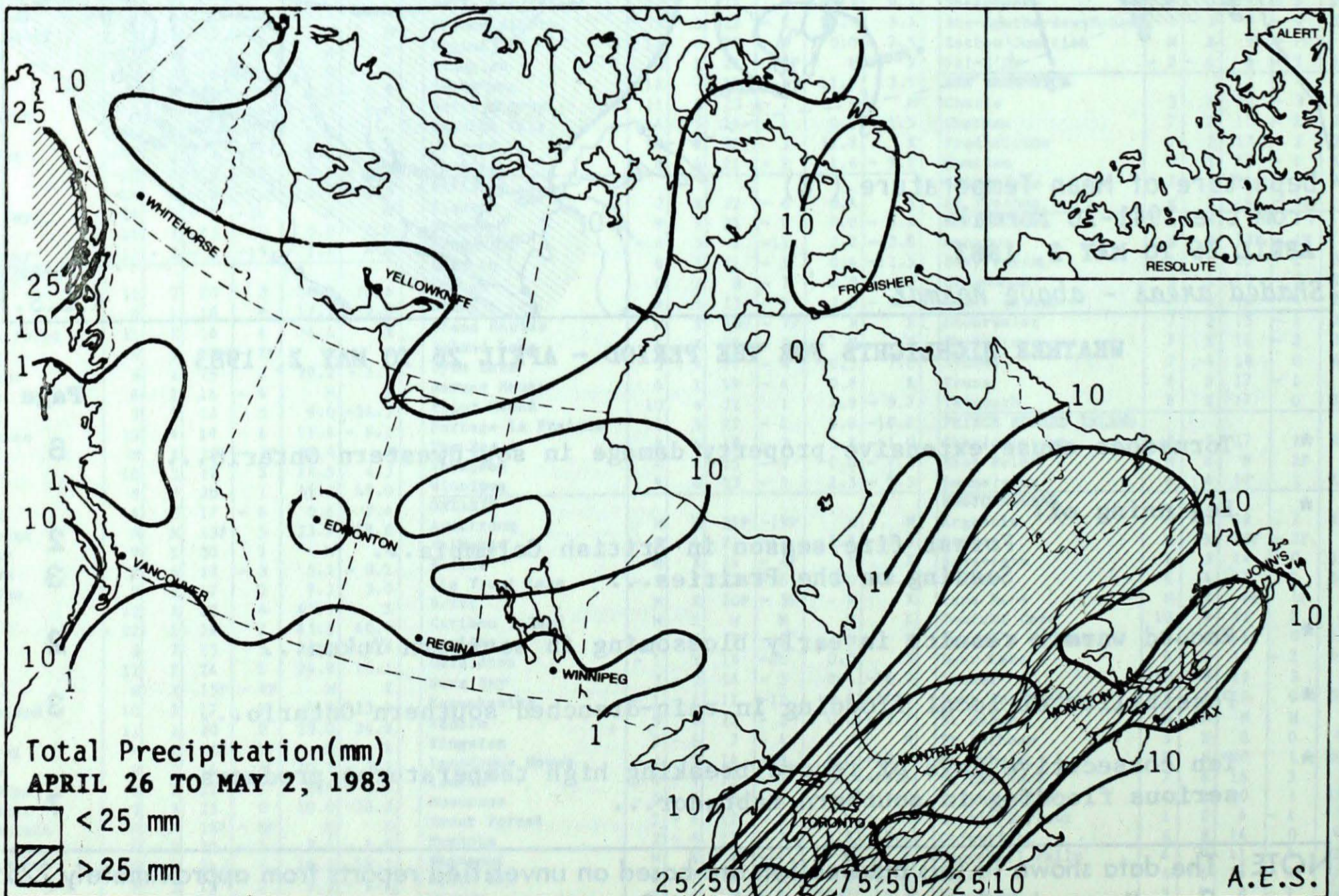
peratures and plenty of sunshine. In the northeast there were brief penetrations of cold Arctic air. Only a few locations in the southern interior had above normal rainfalls.

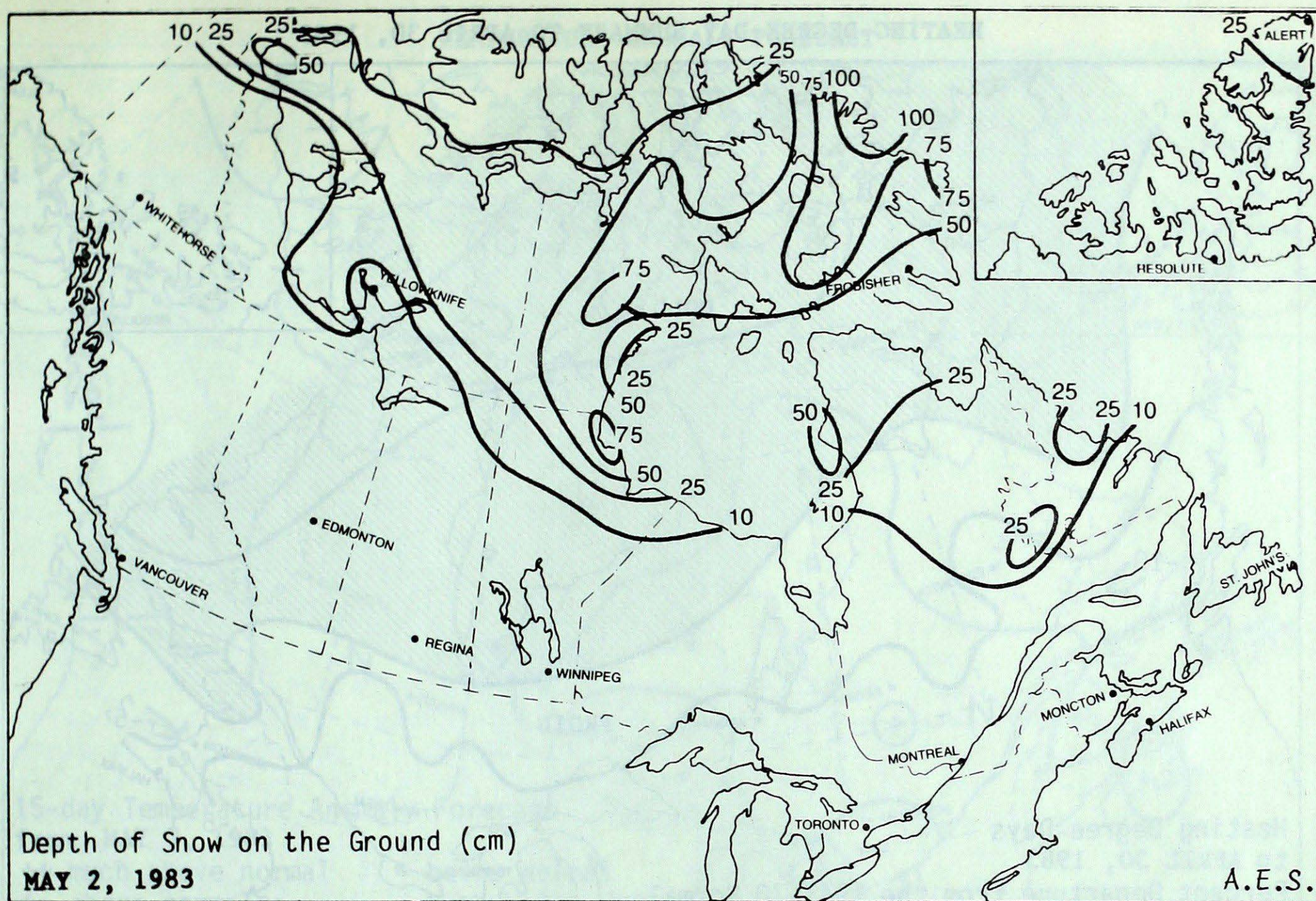
The fire season is well under way in central British Columbia, with 37 fires already reported along the north coast near Terrace, and 26 minor fires in the Prince George district.

In the Okanagan, Pears, plums and Apple trees were in bloom. Elsewhere across the south, forests were in full leaf. For the first time since the winter of 1945-46, Victoria had no measurable snowfall this past winter.

PRAIRIE PROVINCES

A series of rapidly moving weather disturbances produced changeable skies on the Prairies. Mean temperatures were as much as 5 degrees below normal across the south. Precipitation was generally light but 10-15 mm of rain fell in central Saskatchewan and Manitoba. Some flooding was reported in the Swan River district of central Manitoba due to a heavier than usual snow run off.





Field work is about to commence in southern agricultural areas and in extreme southern Saskatchewan seeding has already begun.

ONTARIO

Tornadoes in the Lambton county caused multi-million dollar damage on May 2. Hardest hit area was Reeces Corners, just east of Sarnia, where at least 15 people were injured (see Tornadoes in southern Ontario page 8).

Early in the week, residents enjoyed sunny and warm weather. Dry weather allowed farmers to start their field-work; spring plowing and seeding was well under way. However, during the week-end a series of weather disturbances crossing the province dumped heavy rains in most of southern and central Ontario. Over 60 mm of rain fell in the agricultural areas near Simcoe. Soil is now completely saturated; more heavy precipitation in the rain-soaked southern Ontario can easily result in serious flooding in the low lying areas.

In advance of this wet weather, a

series of thunderstorm in southern Ontario produced the first tornado of the season. On April 28, a twister ripped through Waterford (just north of Simcoe). Strong winds tore roof off several buildings and property damage was estimated to be near \$15,000.

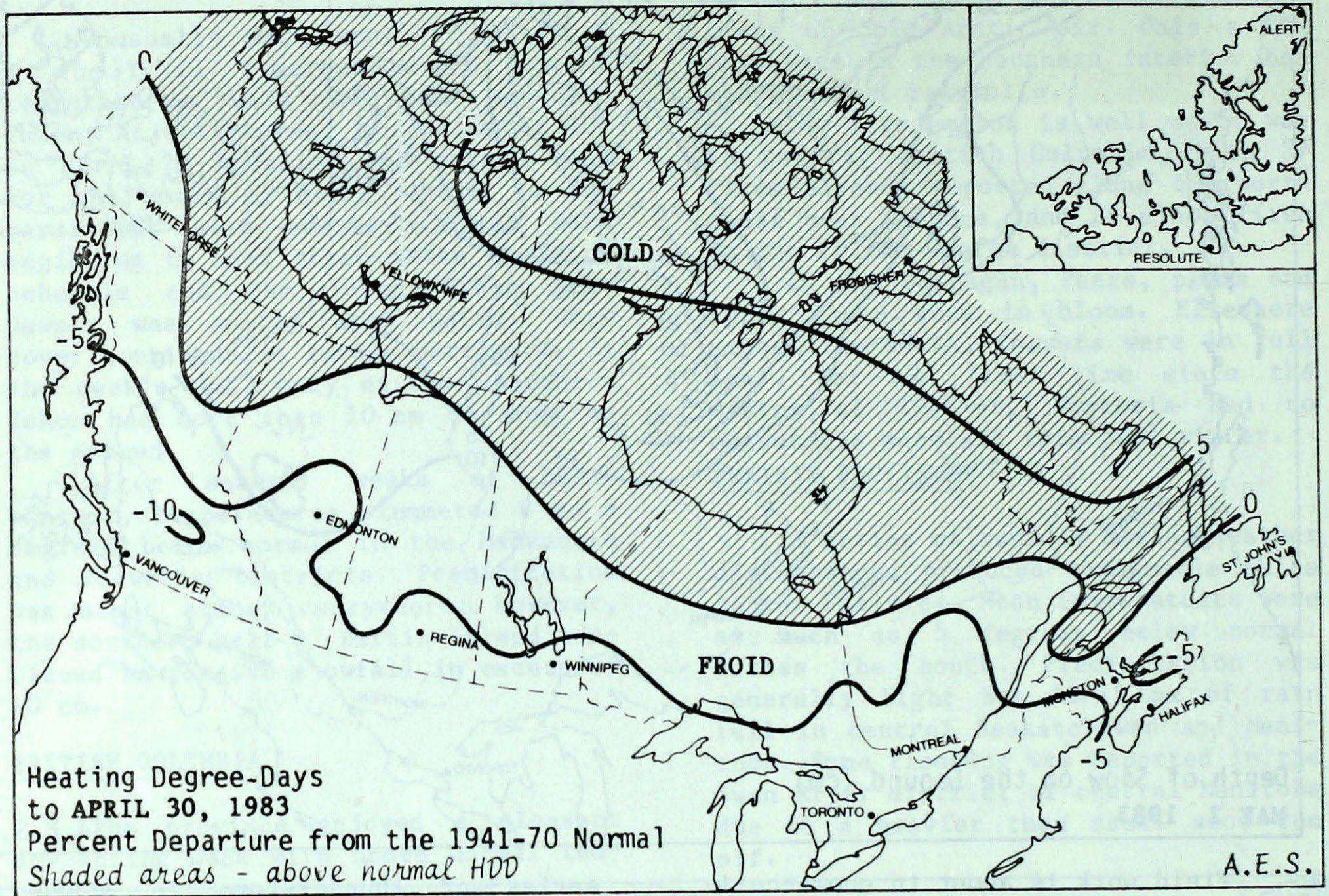
QUÉBEC

Deluges of 40-60 mm of rain continued to dominate the weather in southeastern Québec. During the week-end, over 50 mm of rain in the vicinity of Québec city caused rivers to overflow their banks; many communities experienced local flooding. Rivers in southern Québec were at flood level; for example, water level in Moisie River was 6 metres above normal (highest in the last 40 years). Heavy rains contributed to two mud slides near Sept-Îles, damage was minimal. On April 26, a mud slide north of Trois-Rivières (between Shawinigan and La Tuque) forced highway to be closed.

Despite the heavy April rains, Québec Ministry of Environment reported

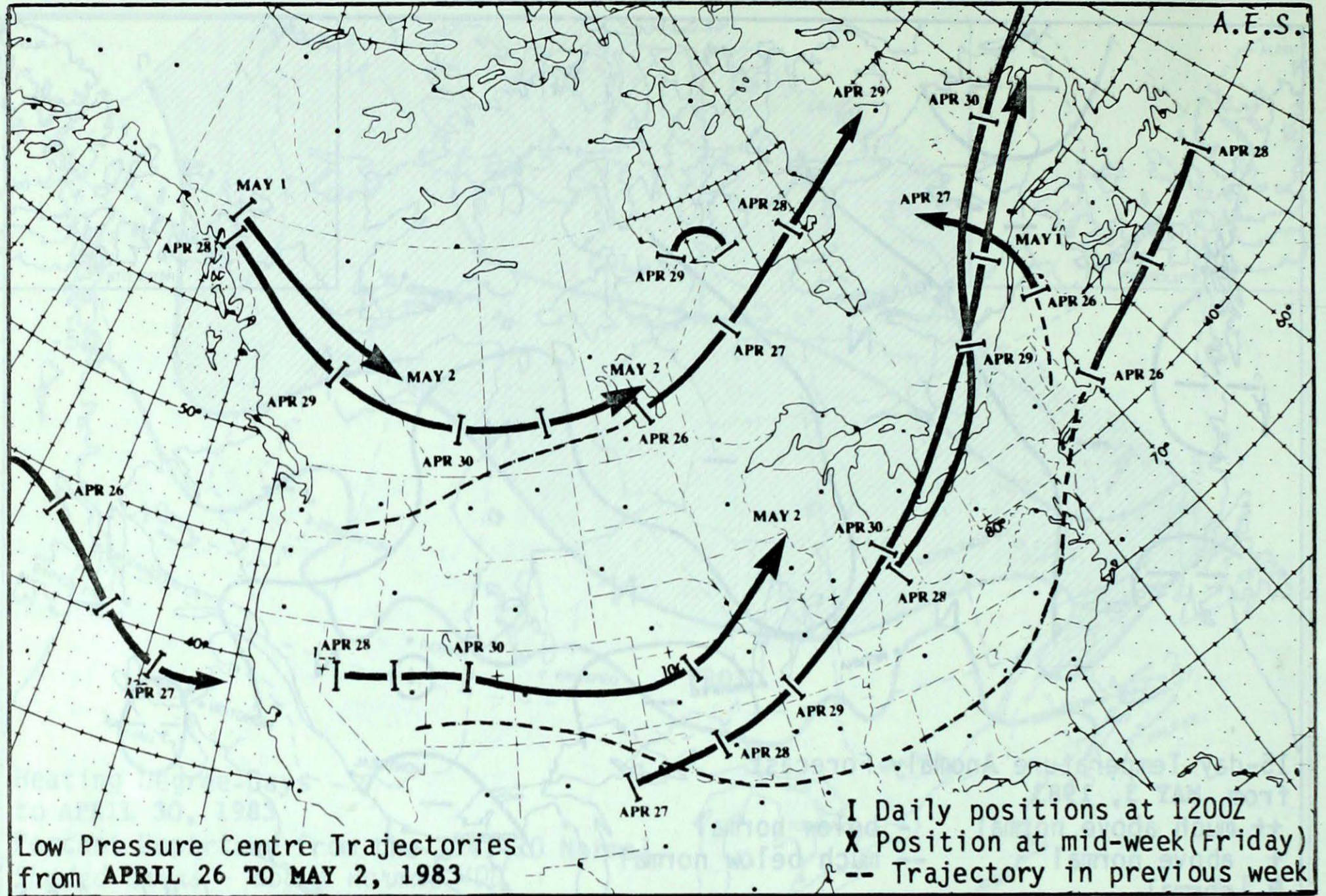
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HEATING DEGREE-DAY SUMMARY TO APRIL 30, 1983



STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	1341.0	109.0	11727.0	560.0	105
Inuvik	934.0	-32.0	9700.5	301.5	103
Whitehorse	471.0	-72.0	6270.5	-55.0	99
Vancouver	262.0	-10.0	2536.0	-172.0	94
Edmonton Mun	357.0	-64.0	4749.0	-409.5	92
Calgary	410.5	-28.5	4448.0	-385.0	92
Regina	452.5	11.5	5206.0	-312.5	94
Winnipeg	438.5	-2.5	5096.0	-384.0	93
Thunder Bay	494.5	25.5	4994.0	-249.5	95
Windsor	339.5	44.5	3075.5	-282.0	92
Toronto	373.5	25.5	3565.0	-228.0	94
Ottawa	418.0	47.0	4122.5	-282.5	94
Montreal	383.0	14.0	3968.5	-262.5	94
Quebec	436.0	-5.0	4499.5	-257.0	95
Saint John, N.B.	381.0	-66.0	4025.0	-301.0	93
Halifax	384.5	-34.5	3528.0	-160.5	96
Charlottetown	379.5	-90.5	3946.0	-251.5	94
St. John's, Nfld.	423.0	-84.0	3703.5	-133.5	97

LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	20.0	WHITEHORSE	-25.0	KOMAKUK BEACH	4.8	BURWASH
NORTHWEST TERRITORIES	12.9	FORT SIMPSON	-33.1	CAPE YOUNG	25.4	FORT SIMPSON
BRITISH COLUMBIA	23.7	LYTTON	-8.6	FORT NELSON	17.1	KAMLOOPS
ALBERTA	17.4	MEDICINE HAT	-9.0	FORT CHIPEWYAN	9.4	LETHBRIDGE
SASKATCHEWAN	17.6	ESTEVAN	-14.8	COLLINS BAY	13.4	Hudson Bay
MANITOBA	20.3	PORTAGE LA PRAIRIE	-20.9	CHURCHILL	54.9	CHURCHILL
ONTARIO	25.9	WINDSOR	-13.0	MOOSONEE	81.9	LONDON
QUEBEC	21.9	SHERBROOKE	-14.7	INDUOJOUAC	67.8	STE AGATHE DES MONTS
NEW BRUNSWICK	23.5	MONCTON	-9.9	CHARLO	34.7	FREDERICTON
NOVA SCOTIA	25.8	GREENWOOD	3.0	AMHERST	42.8	EDDY POINT
PRINCE EDWARD ISLAND	22.9	CHARLOTTETOWN	1.8	EAST POINT	30.2	SUMMERSIDE
NEWFOUNDLAND	21.3	DEER LAKE	-2.2	WABUSH LAKE	88.3	PORT AUX BASQUES

(continued from page 3)

that because of the less than normal winter snowfall, only a few areas experienced serious flooding this spring. The Ministry enjoyed substantial savings in its flood-assistance program to the cities.

April was a record setting month in Québec. In Montréal, monthly records were set for the following weather elements:

	<u>New</u>	<u>Old</u>	
Snowfall	33.6 cm	32.5 cm	(1975)
Rainfall	112.5 mm	104.4 mm	(1945)
Sunshine hours	103 hrs	104 hrs	(1929)
No. of days with precipitation	19	19	(1951)

Monthly record high precipitation and low sunshine hours were set at several other Québec locations. For example at Baie Comau, 147 mm of rain upset the old record of 138 mm set in 1950; At Sept-Isles, 94 hours of sunshine during April broke the previous record of 105 hours set in 1973.

ATLANTIC PROVINCES

Heavy rains of 30-40 mm continued to keep flow of many Maritimes rivers at flood level. Over 35 mm of rain con-

tributed to extensive flooding along the Saint John river. Portions of the Trans-Canada Highway between Fredericton and Sussex were closed to the traffic when water and debris from the river spilled on to the highway.

Numerous daily record high temperatures were set in mild air that covered the provinces; on April 29, a reading of 26° at Greenwood, N.S. even exceeded the record high for the month of April (25.5°). Southern Labrador experienced 10 consecutive days of record breaking temperatures. Very mild air contributed to rapid melt of the snow cover. Since mid-April, snow cover at Cartwright has dwindled from 100 cm to only 4 cm. Extensive ice jams on the Goose River resulted in serious flooding in the community of North West River, Nfld; high explosives were detonated to release these jams.

Statistically, April was a very dull month in the Maritimes; at many stations, total sunshine was about 60 hours less than normal. Monthly snowfall total of 8 cm at Gander was the lowest for any April.

In east Newfoundland waters, the southern edge of pack ice was now 115 km north of St. John's. Recent mild weather has led to a significant reduction in the ice cover.

CLIMATIC PERSPECTIVES

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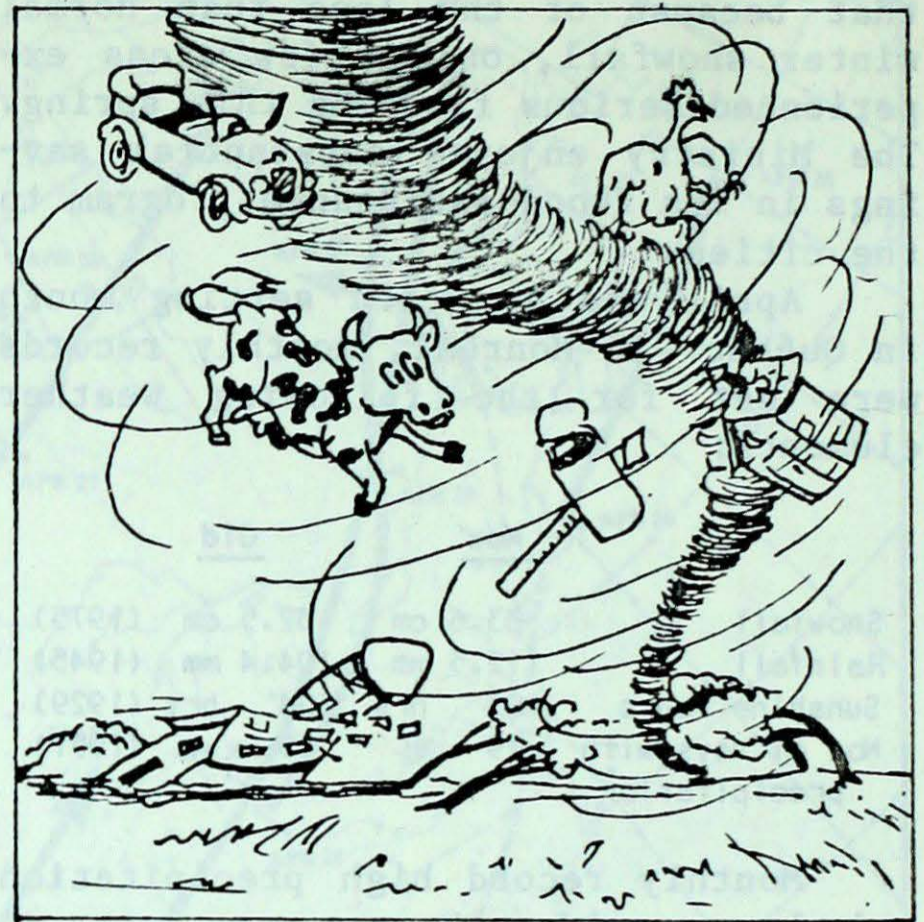
TORNADOES IN SOUTHERN ONTARIO

Tornadoes ransacked southwestern Ontario causing multi-million dollar property damage and leaving many residents homeless in the Lambton County on May 2. A series of violent storms that began in Michigan, first struck Walpole Island on Lake St. Clair near noon. A few hours later, a major tornado touched down at Reeces Corners, 30 km east of Sarnia, where property damage was estimated at \$20 million. Winds gusting up to 125 km/h uprooted large trees, numerous buildings, including several houses and barns, were demolished or severely damaged. Strong winds downed many hydro poles leaving residents without electricity.

The same storm lashed Metro Toronto later in the day. A small twister tore the roof off a paper factory and severely damaged several other buildings near the Airport; again several million dollar damage occurred. Torrential rain snarled rush-hour traffic for several hours. Walnut-size hail damaged numerous vehicles just northwest of Toronto.

No death was reported in any of the storm-struck areas; however, at least 15 people were taken to the hospital for minor injuries in the Lambton county.

Earlier on April 28, violent thunderstorms spawned the first tornado of the season in southern Ontario. A twister that ripped through Waterford (9 km north of Simcoe) caused about \$15,000 in property damage.



Statistically, about 10 tornadoes are confirmed each year in Ontario. In 1978, Ontario experienced record number of tornadoes, 46. In Ontario, the earliest start of the tornado season is April 3 (in 1974) and the season can last up to September 26 (in 1970).

The Woodstock-tornado of August 7, 1979 is the most damaging tornado in the last 10 years in Ontario. Two twisters caused deaths and destructions in their path, about 80 km long, near Woodstock. Two people were killed, 150 were injured and property damage amounted to \$100 million, and this did not include crop damage.

Amir Shabbar

Province/Territory	Number of Tornadoes	Location	Date	Province/Territory	Number of Tornadoes	Location	Date
Yukon Territory	0			Yukon Territory	0		
Northwest Territories	0			Northwest Territories	0		
Alberta	17			Alberta	17		
Saskatchewan	12			Saskatchewan	12		
Manitoba	10			Manitoba	10		
Ontario	46			Ontario	46		
Quebec	1			Quebec	1		
New Brunswick	0			New Brunswick	0		
Atlantic Provinces	0			Atlantic Provinces	0		
Total	86			Total	86		

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. MAY 3, 1983

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	5	4	18	-7	4.8	-0.1
Dawson	5	2	19	-6	M	M
Faro	M	X	19P	-4	M	X
Komakuk Beach	-11	1	-1	-25	1.0	1.0
Mayo	6	2	19	-4	2.0	0.2
Shingle Point	12	-2	-3	-24	2.4	0.5
Tealin	M	X	18P	-5P	M	X
Watson Lake	6	3	19	-4	4.2	0.6
Whitehorse	7	3	20	-2	4.2	2.6
NORTHWEST TERRITORIES						
Cape Parry	-16	-3	-10	-23	0.0	-2.6
Cape Young	-21	-6	-9	-33	0.0	-0.6
Clinton Point	-17	-4	-8	-28	M	M
Coppermine	-20	-8	-8	-30	M	M
Fort Reliance	-8	-3	4	-23	4.2	1.4
Fort Simpson	1	-2	13	-15	25.4	22.3
Fort Smith	-1	-3	9	-9	1.2	-4.2
Hay River	-3	-3	8	-13	1.6	-2.8
Inuvik	-10	-2	1	-23	2.7	-1.1
Lady Franklin Point	-20	-4	-11	-27	0.0	-0.4
Nicholson Peninsula	-15	-3	-8	-22	0.0	-0.7
Norman Wells	-1	0	11	-11	1.2	-1.4
Port Radium	M	X	2	-19P	M	X
Robertson Lake	M	X	-14P	-26P	M	X
Tuktoyaktuk	-13	-2	-5	-23	0.0	-0.7
Yellowknife	-5	-2	4	-16	3.2	0.4
Baker Lake	-16	-3	-7	-21	0.0	-1.9
Coral Harbour	-10	3	-4	-22	7.1	3.1
Ennadai Lake	M	M	-7P	-25P	M	M
Jenny Lind Island	-22	-4	-17	-28	0.0	-1.1
Pelly Bay	M	M	-10	-27P	M	M
Rankin Inlet	-13	X	-6	-19	M	X
Shepherd Bay	-21	-3	-12	-32	0.0	-0.9
Broughton Island	-10	3	0	-18	2.6	-2.3
Cape Dorset	-7	X	-1	-11	11.2	X
Cape Dyer	-8	3	0	-17	1.4	-3.4
Cape Hooper	-12	2	-1	-19	16.0	10.8
Clyde	-15	-1	-6	-20	0.4	-1.0
Dewar Lakes	-12	4	-5	-17	21.0	16.7
Frobisher Bay	-3	7	1	-8	M	M
Longstaff Bluff	-12	3	-6	-20	1.8	0.4
Pond Inlet	-22	X	-13	-29	1.2	X
Alert	-21	-3	-16	-26	3.2	1.2
Eureka	-21	-2	-14	-28	M	M
Gladman Point	-21	-3	-13	-31	1.0	0.0
Hall Beach	-17	-1	-5	-28	4.0	0.4
Mackay Inlet	-15	1	-7	-23	8.4	7.9
Resolute	-24	-6	-18	-30	0.4	-1.3
Byron Bay	-23	-5	-15	-29	0.0	-0.5
Cambridge Bay	-23	-7	-16	-30	0.8	-0.7
Mould Bay	-21	-4	-14	-27	M	M
Sachs Harbour	-18	-4	-9	-25	0.0	-0.2
BRITISH COLUMBIA						
Abbotsford	12	3	22	3	8.8	-18.4
Alert Bay	11	2	20	3	1.6	-16.0
Amphitrite Point	11	X	16	6	11.7	X
Blue River	M	X	17P	-1P	M	X
Bull Harbour	10	2	17	3	0.0	-25.8
Burns Lake	8	X	21	-3	M	X
Cape Scott	11	3	15	7	3.8	-28.9
Cape St James	11	4	19	7	0.0	-25.0
Clinton	M	X	17P	-3P	M	X
Comox	12	3	21	3	9.0	-5.1
Cranbrook	7	-2	16	-3	M	M
Dease Lake	6	4	20	-5	1.6	-0.9
Estevan Point	10	2	16	1	M	M
Ethelda Bay	10	X	19	1	M	X
Fort Nelson	4	0	19	-9	4.2	-3.4
Fort St John	5	0	16	-6	6.0	-3.4
Hope	13	X	23	5	8.3	X
Kamloops	12	2	22	1	17.1	12.5
Langara	8	2	16	5	1.0	-25.0
Lytton	13	1	24	3	7.5	6.6
Mackenzie	4	X	19	-4	M	X
McInnes Island	12	3	19	7	M	M
Penticton	11	1	22	1	0.8	-6.5
Port Alberni	M	X	22P	1P	M	X
Port Hardy	10	3	17	3	0.8	-22.5
Prince George	7	1	19	-3	1.5	-7.4
Prince Rupert	9	3	19	2	2.2	-32.3
Puntzi Mountain	M	X	18P	-6P	M	X
Quesnel	10	3	21	-3	2.9	-3.8
Revelstoke	11	1	20	1	3.8	-2.8
Sandspit	10	3	16	5	0.7	-19.6
Smithers	11	5	23	-1	0.0	-7.8

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Stewart	12	X	23	2	M	X
Terrace	13	6	24	3	0.0	-16.4
Vancouver	12	2	19	5	8.4	-6.7
Victoria	11	2	19	3	1.4	-8.8
Williams Lake	8	2	18	-3	0.6	-3.9
ALBERTA						
Banff	3	0	14	-6	M	M
Calgary	4	1	15	-4	2.6	-9.8
Cold Lake	2	-2	15	-7	M	M
Coronation	2	3	16	-8	2.2	-6.5
Edmonton Intl	3	-3	17	-8	0.4	-4.2
Edmonton Nmanoo	4	-2	16	-4	M	M
Edson	4	-2	15	-6	6.0	-3.8
Fort Chipewyan	-1	-6	7	-9	M	M
Fort McMurray	2	-3	13	-7	7.0	0.9
Grande Prairie	5	-1	16	-3	2.1	-6.3
High Level	3	-3	14	-7	2.3	-2.0
Jasper	5	0	15	-5	6.8	0.5
Lethbridge	5	-2	16	-2	9.4	-3.0
Lloydminster	3	X	15	-6	0.0	X
Medicine Hat	4	-4	17	-5	0.0	-8.0
Peace River	4	-1	14	-4	4.4	-2.6
Red Deer	4	-2	17	-6	M	M
Rocky Mountain House	4	-1	16	-6	2.8	-12.1
Slave Lake	3	-4	16	-6	6.3	-0.2
Whitecourt	5	0	16	-6	M	M
SASKATCHEWAN						
Broadview	3	X	16	-5	1.4	X
Buffalo Narrows	0	-5	8	-6	M	M
Collins Bay	-6	X	5	-15	1.9	X
Cree Lake	-3	X	8	-11	4.4	X
Eastend	M	X	M	M	M	X
Elbow	3	X	15	-5	M	X
Estevan	4	-3	18	-6	0.0	-11.6
Hudson Bay	1	-4	11	-6	M	M
Kindersley	3	-3	16	-6	1.8	-2.1
La Ronge	0	-4	9	-8	12.2	7.1
Meadow Lake	2	X	12	-6	13.3	X
Moose Jaw	3	-3	16	-7	2.2	-10.1
Nipawin	1	X	11	-8	9.0	X
North Battleford	2	-4	16	-5	2.8	-4.3
Prince Albert	2	-4	12	-9	9.9	2.3
Regina	3	-4	15	-8	3.8	-6.7
Rockglen	M	X	16P	-6P	M	X
Saskatoon	3	-4	15	-4	4.3	-3.2
Swift Current	2	-5	15	-7	0.8	-10.0
Uranium City	-3	-2	5	-10	0.4	-5.5
Wynyard	2	X	14	-6	7.0	X
Yorkton	2	-4	17	-5	4.9	-3.5
MANITOBA						
Bissett	3	X	18	-6	5.6	X
Brandon	4	-1	18	-3	0.8	-9.6
Churchill	-9	-2	-1	-21	54.9	50.3
Dauphin	3	-3	18	-7	4.5	-4.6
Gillam	-5	X	7	-13	13.8	X
Gimli	3	-3	17	-5	0.2	-9.2
Grand Rapids	M	X	11P	-8P	10.2	X
Island Lake	0	X	11	-9	M	X
Lynn Lake	-5	-7	5	-12	12.1	5.6
Norway House	-1	X	8	-8	10.6	X
Pilot Mound	5	0	19	-4	0.0	-11.0
Portage la Prairie	5	-1	20	-4	0.7	-13.0
The Pas A	0	-4	12	-8	7.3	-0.3
Thompson	-4	-5	7	-11	8.4	0.2
Winnipeg	4	-3	20	-6	M	M
ONTARIO						
Armstrong	M	M	17P	-5	M	M
Atikokan	4	-1	18	-6	9.6	-5.9
Barrie	M	X	21P	1	M	X
Big Trout Lake	1	1	10	-8	2.6	-4.9
Britt	M	X	18P	-4	M	X
Caribou Island	M	X	9P	2P	M	X
Earlton	7	1	20	-3	M	M
Geraldton	5	X	20	-4	5.6	X
Gore Bay	8	1	18	0	31.0	12.5
Kapuskasing	6	2	16	-3	2.4	-8.5
Kenora	5	-2	16	-4	5.3	-10.2
Kingston	10	2	18	2	M	M
Lansdowne House	3	1	13	-7	6.8	-4.6
London	11	1	25	-1	81.9	66.5
Moosonee	2	1	15	-13	M	M
Mount Forest	10	1	22	-1	52.2	37.0
Muskoka	10	2	22	-3	M	X
Nagagami	5	X	16	-4	M	X
North Bay	9	2	20	-1	52.0	37.6
Ottawa	12	3	23	2	M	M

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Petawawa	10	X	19	-4	M	
Pickle Lake	4	1	17	-6	1.0	-10.0
Red Lake	2	-4	17	-8	M	
Simcoe	11	1	22	0	M	
Sioux Lookout	3	-2	17	-7	M	
Sudbury	8	1	23	-1	45.6	23.0
Thunder Bay	5	0	16	-4	8.4	-10.0
Timmins	6	1	18	-3	7.0	-8.0
Toronto	12	2	25	-1	48.2	34.0
Trenton	12	2	22	1	42.8	28.0
Upsala	M	X	13P	-6P	M	
Wawa	4	X	19	-4	9.0	
Warton	9	1	21	-1	58.7	41.0
Windsor	12	1	26	3	74.9	54.0
QUEBEC						
Bagotville	7	2	21	-3	31.8	21.0
Baie-Comeau	5	2	17	-1	30.4	24.0
Blanc-Sablon	7	6	15	-1	27.2	9.0
Border	M	M	7P	-2P	M	
Chevery	M	X	14P	-2P	M	
Chibougamau	4	X	13	-5	17.6	
Gaspé	8	X	19	-1	15.0	
Inukjuak	-3	4	4	-15	4.8	1.0
Kuujuuaq	2	8	10	-4	1.2	-2.0
Kuujuuarapik	1	4	10	-11	2.6	-3.0
Lac-Eon	M	X	6P	-1P	M	
La Grande-Riviere	2	X	8	-7	0.4	
Maniwaki	9	2	20	-4	50.2	35.0
Matagami	4	X	14	-9	M	
Mont-Joli	7	2	16	1	21.7	13.0
Montréal	11	2	20	0	30.9	15.0
Natashquan	4	3	10	0	49.2	34.0
Nitchequon	2	5	9	-4	21.4	14.0
Parent	M	X	18P	-4P	M	
Port-Menier	M	M	14P	1P	M	
Québec	8	2	18	3	61.0	46.0
Rivière-du-Loup	6	2	17	0	17.8	
Roberval	6	1	18	-4	43.6	37.0
Schefferville	3	6	10	-3	25.3	19.0
Sept-Iles	5	3	12	-1	34.6	23.0
Sherbrooke	10	3	22	3	44.8	31.0
Ste-Agathe-des-Monts	9	3	19	-3	67.8	51.0
Sutton Junction	M	X	21P	-1P	M	
Val-d'Or	6	1	18	-6	49.4	31.0
NEW BRUNSWICK						
Charlo	8	4	20	-1	23.4	
Chatham	11	6	21	1	18.2	
Fredericton	11	4	21	3	34.7	21.0
Moncton	12	6	24	3	30.6	1.0
Saint John	9	4	19	3	31.8	
St Stephen	M	X	16P	1	7.2	
NOVA SCOTIA						
Amherst	M	X	24P	3	M	
Eddy Point	9	X	16	4	42.8	
Greenwood	13	7	26	6	19.4	
Sable Island	9	4	13	4	18.2	
Shearwater	10	4	18	5	35.9	
Shelburne	11	X	20	6	14.1	