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A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES



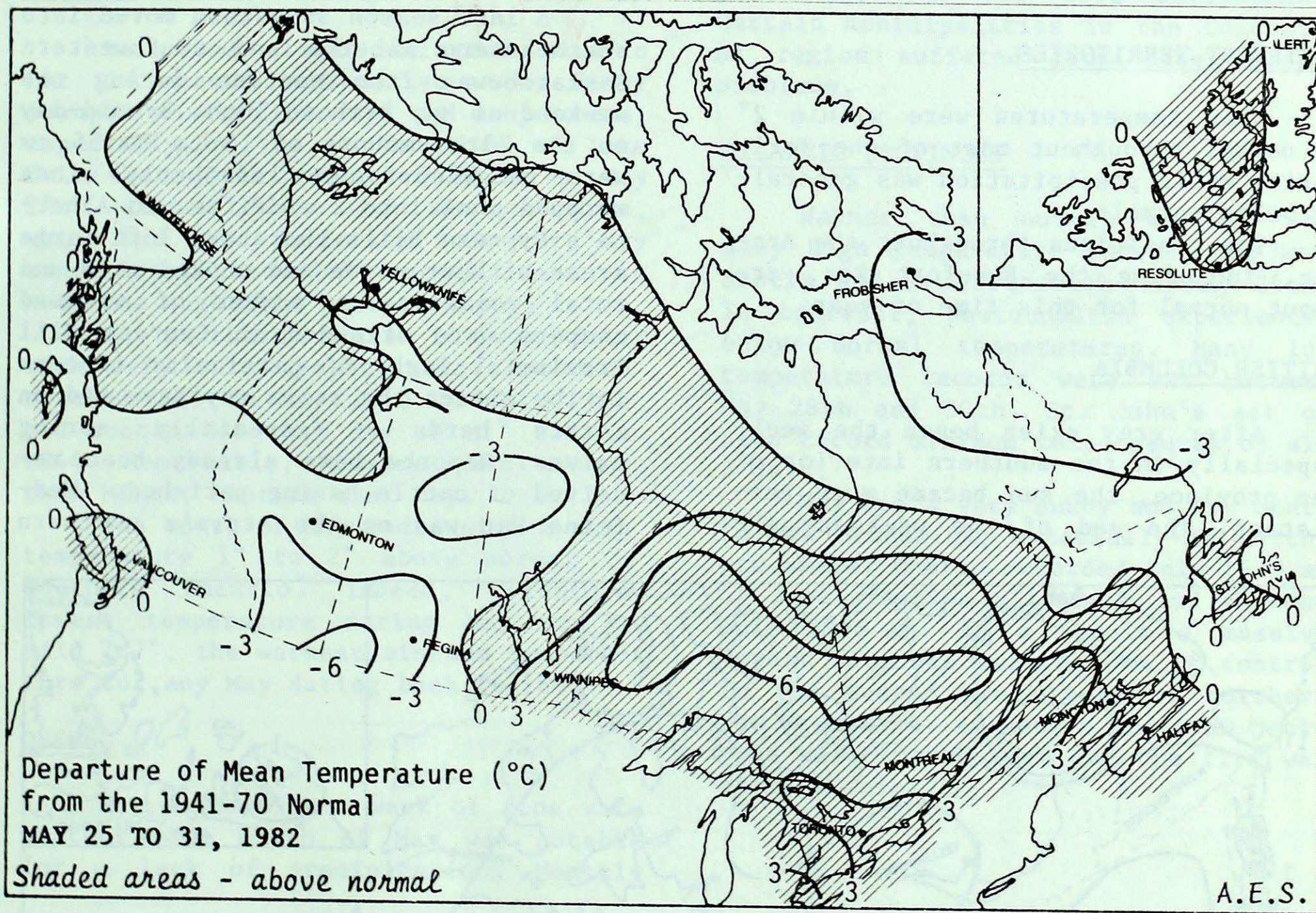
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THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
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VOL.4 NO. 21



WEATHER HIGHLIGHTS FOR THE PERIOD - MAY 25 TO 31, 1982

Snowstorm strikes the southwestern Prairies

Southeastern Alberta and southwestern Saskatchewan were struck by a snowstorm on May 29th to 30th. Up to 55 cm of snow fell and winds whipped snow into 2 m drifts. Campers were stranded in Cypress Hill Provincial Park. Of most concern was the effect the storm may have had on spring calves as reports of cattle having perished have already been received.

May was a very dry month for the province of New Brunswick, especially in northern regions where a massive forest fire was burning out of control in the Beaver Brook area at the end of the week. More than 4960 hectares were burned over.

Temperatures varied from 31.5° at Moosonee, Ontario to -22.4° at Broughton Point, N.W.T.

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

YUKON

Temperatures exceeded normal this week, the first time in almost 2 months that temperatures have not been below normal. Maximums were near 20° but minimums continued near to below the zero mark.

Runoff from the late snowmelt has increased but is not excessive due to the low overnight temperatures.

NORTHWEST TERRITORIES

Mean temperatures were within 2° of normal throughout most of the Territories while precipitation was generally below normal.

Ice conditions throughout the Arctic, including the Beaufort Sea, are about normal for this time of year.

BRITISH COLUMBIA

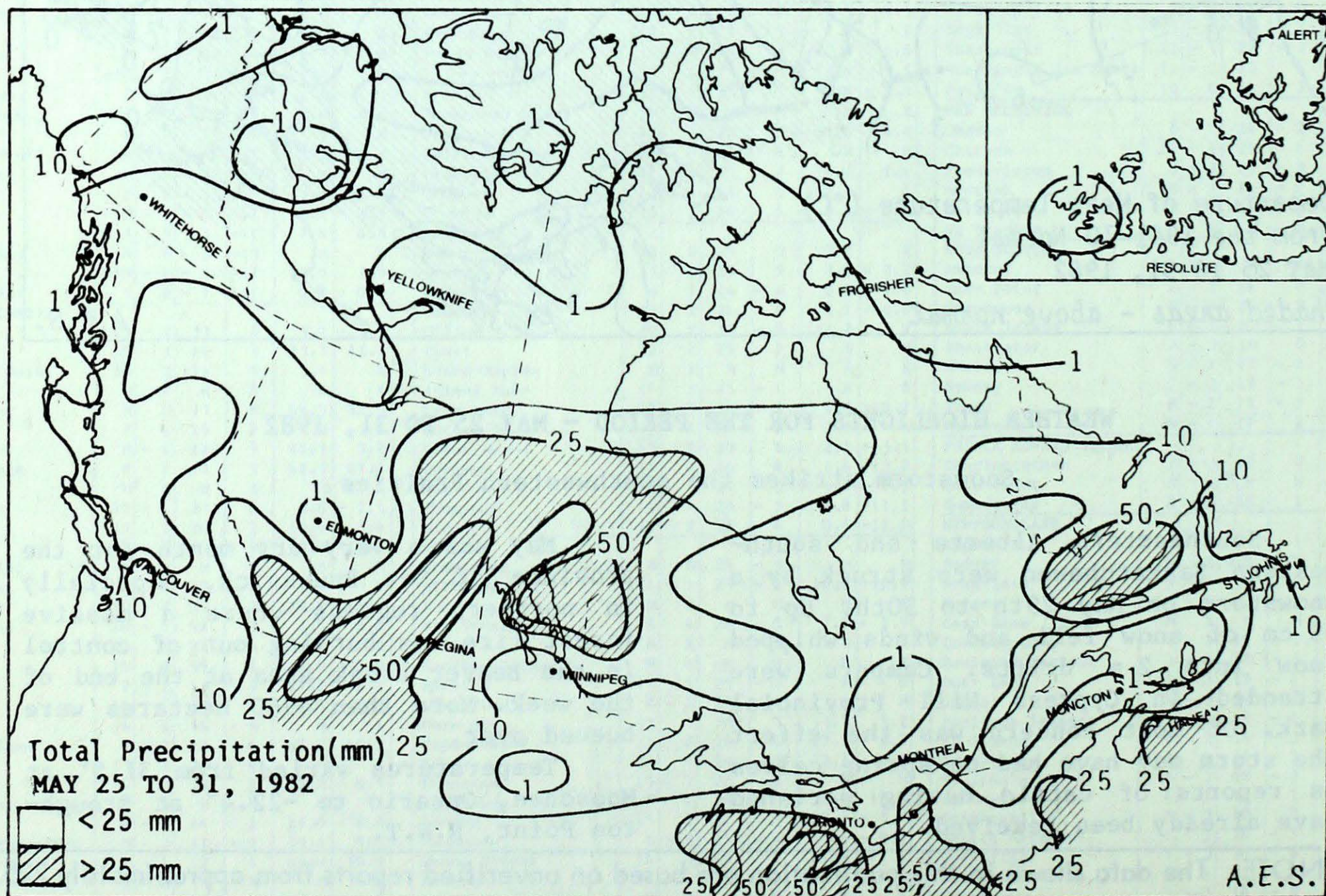
After grey skies began the week, especially in the southern interior of the province, the sun became more persistent. The end of the week brought

summer weather to all of the province for the first time. The mercury exceeded 20° in the north for the first time this season.

The month of May was, for Vancouver, the third driest since observations began in 1937. No major forest fires were reported.

PRAIRIE PROVINCES

A late season snowstorm moved into southeastern Alberta and southwestern Saskatchewan from Montana during the weekend of May 29th to 30th. By mid-day on the 29th amounts of 15 cm to 55 cm were recorded. Gusty northerly winds whipped snow into 2 m drifts. In Alberta's Cypress Hills the storm left large areas without power and choked main and rural roadways. A number of weekend campers were stranded in Cypress Hill Provincial Park. Of particular concern is the effect the storm may have had on cattle herds - especially spring calves. Reports have already been received of cattle having perished. Medicine Hat was on the storm's northern



edge and recorded only minimal amounts of rain and snow.

Central and northern districts escaped the storm. Temperatures, however, were unseasonably cool and a number of localities recorded frost and set record minimum temperatures during the last several days of the month.

ONTARIO

Rain and cloud dominated Ontario for the second consecutive week. Heavy downpours were recorded in many areas, especially on the north shore of Lake Erie where Delhi recorded 70 mm on May 27th alone. Even the Windsor area, which had been suffering from very dry conditions, recorded enough rain to keep the vegetable growers happy.

In northern areas it was drier with very warm temperatures. Moosonee reached 32° on May 29th breaking the old record for that day of 31° set in 1944. Remarkably, Moosonee was warmer than Miami, Florida that day.

The month of May ended with a mean temperature 1° to 2° above normal in southern Ontario. Indeed, Toronto's lowest temperature during May was a mild 7.7°, the warmest minimum temperature for any May dating back to 1840.

QUEBEC

May ended with a week of fine warm weather. The month of May was notable for a lack of precipitation. Monthly

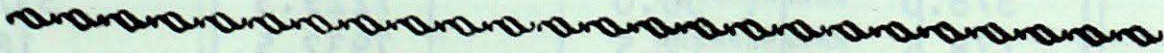
precipitation exceeded normal only at Inoucdjouac. Montreal recorded a total of 15.2 mm, 23% of normal. This erased the old record for lowest precipitation for any May by 6 mm. As well, Saint Hubert with only 18.6 mm, Chibougamau with 34 mm and Gaspé with 26.7 mm established similar records.

This lack of precipitation posed grave problems for crop development. Certain municipalities in the Chicoutimi region suffered from water supply problems.

ATLANTIC PROVINCES

Warmer than normal weather set many high temperature records in Nova Scotia and New Brunswick on May 26th. In contrast, Newfoundland experienced below normal temperatures. Many low temperature records were set between May 28th and 30th. St. John's set or tied record minimum temperatures on all 3 days.

May was a very sunny and dry month in New Brunswick, especially in northern areas. Charlo recorded only 15.5 mm of precipitation all month and Chatham only 27.6 mm. As a result a massive forest fire was burning out of control in the Beaver Brook area of northern New Brunswick. At week's end 4960 hectares were burned over and the fire was still burning.



CLIMATIC PERSPECTIVES

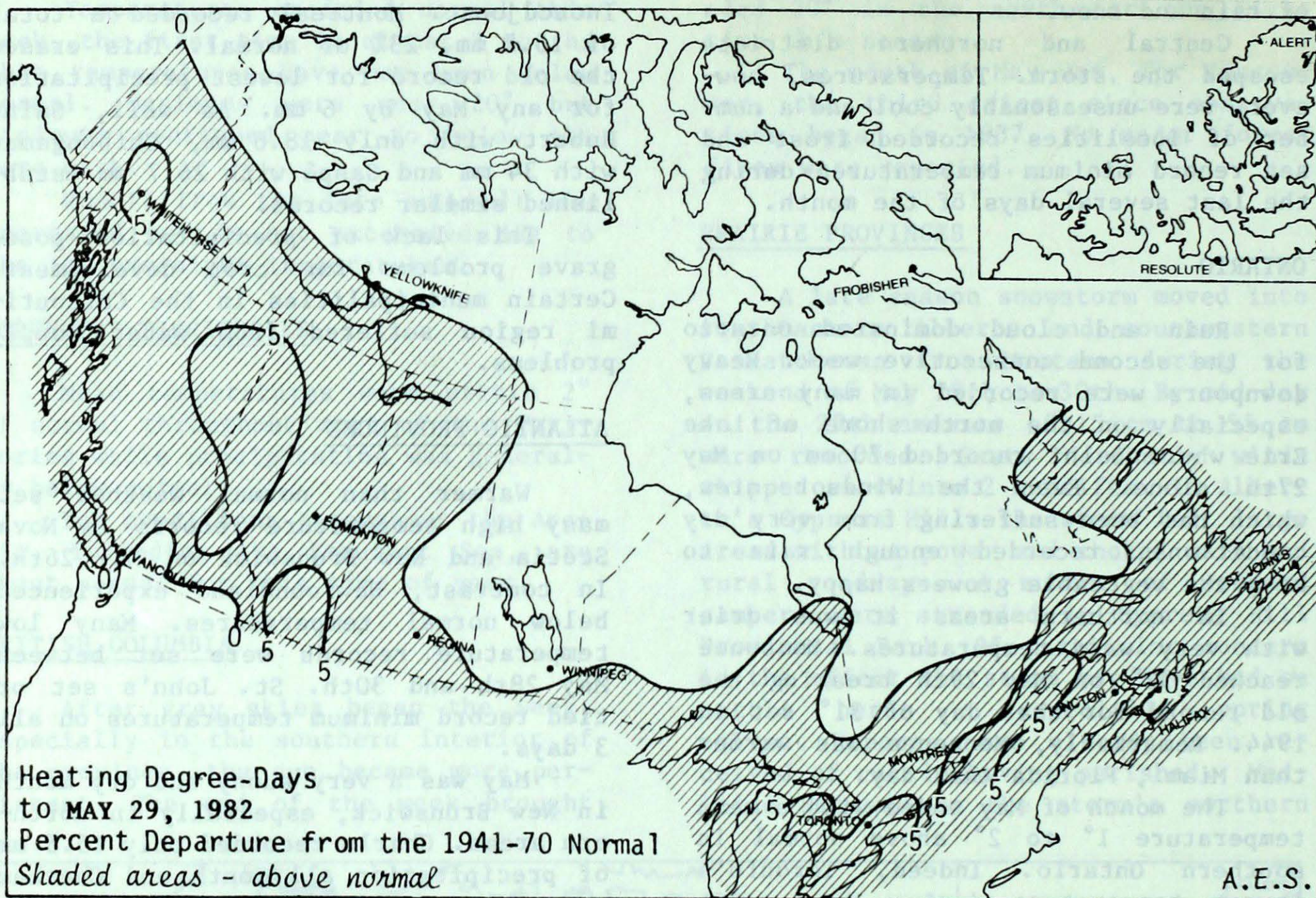
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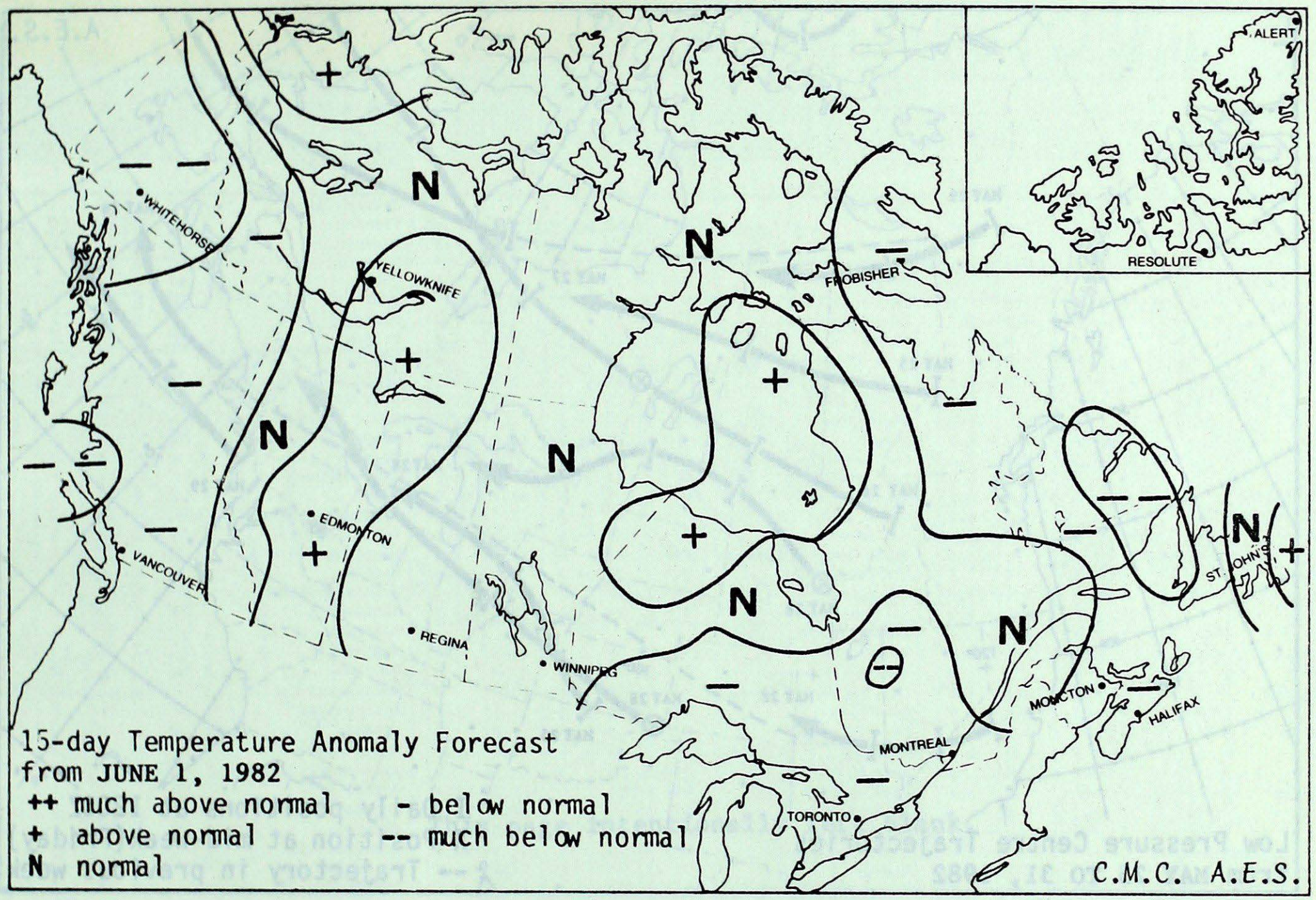
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HEATING DEGREE-DAY SUMMARY TO MAY 29, 1982

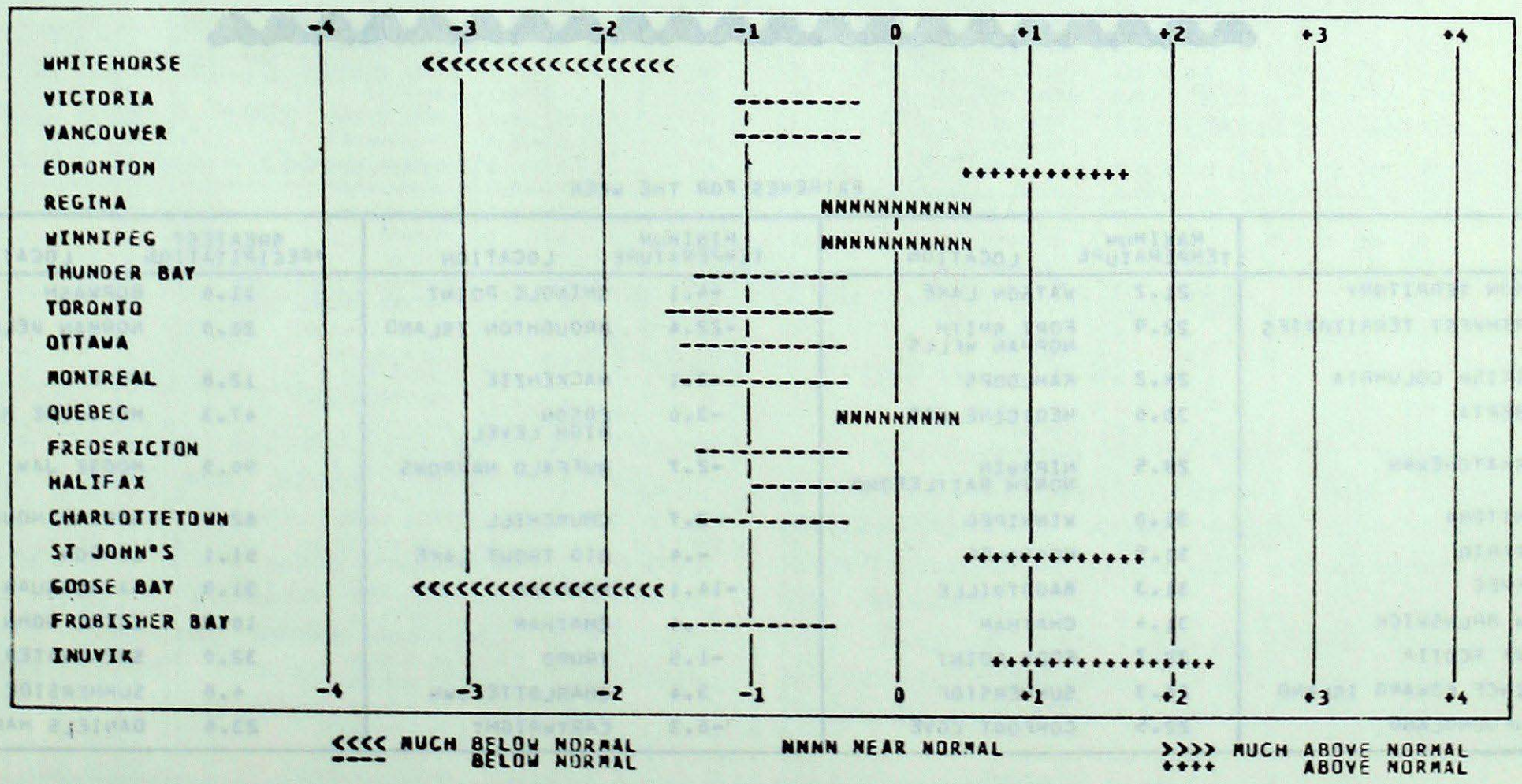


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	891.0	49.0	11688.0	-265.0	98
Inuvik	620.0	60.0	9733.5	-172.5	98
Whitehorse	378.0	56.0	7229.5	537.5	108
Vancouver	178.5	12.5	2932.5	18.5	101
Edmonton Mun	200.5	-11.5	5523.5	53.5	101
Calgary	278.5	21.5	5442.0	259.0	105
Regina	221.0	-5.0	6011.5	196.5	103
Winnipeg	138.5	-87.5	5691.5	-111.5	98
Thunder Bay	235.5	-49.5	5721.0	122.0	102
Windsor	37.5	-99.5	3815.0	258.0	107
Toronto	117.0	-64.0	4319.0	291.0	107
Ottawa	102.0	-73.0	4744.5	121.5	103
Montreal	113.0	-51.0	4697.5	268.5	106
Quebec	187.0	-35.0	5232.0	238.0	105
Saint John, N.B.	280.5	6.5	4779.5	155.5	103
Halifax	281.0	15.0	4105.0	127.0	103
Charlottetown	301.0	23.0	4558.5	75.5	102
St. John's, Nfld.	361.0	-6.0	4578.5	23.5	101

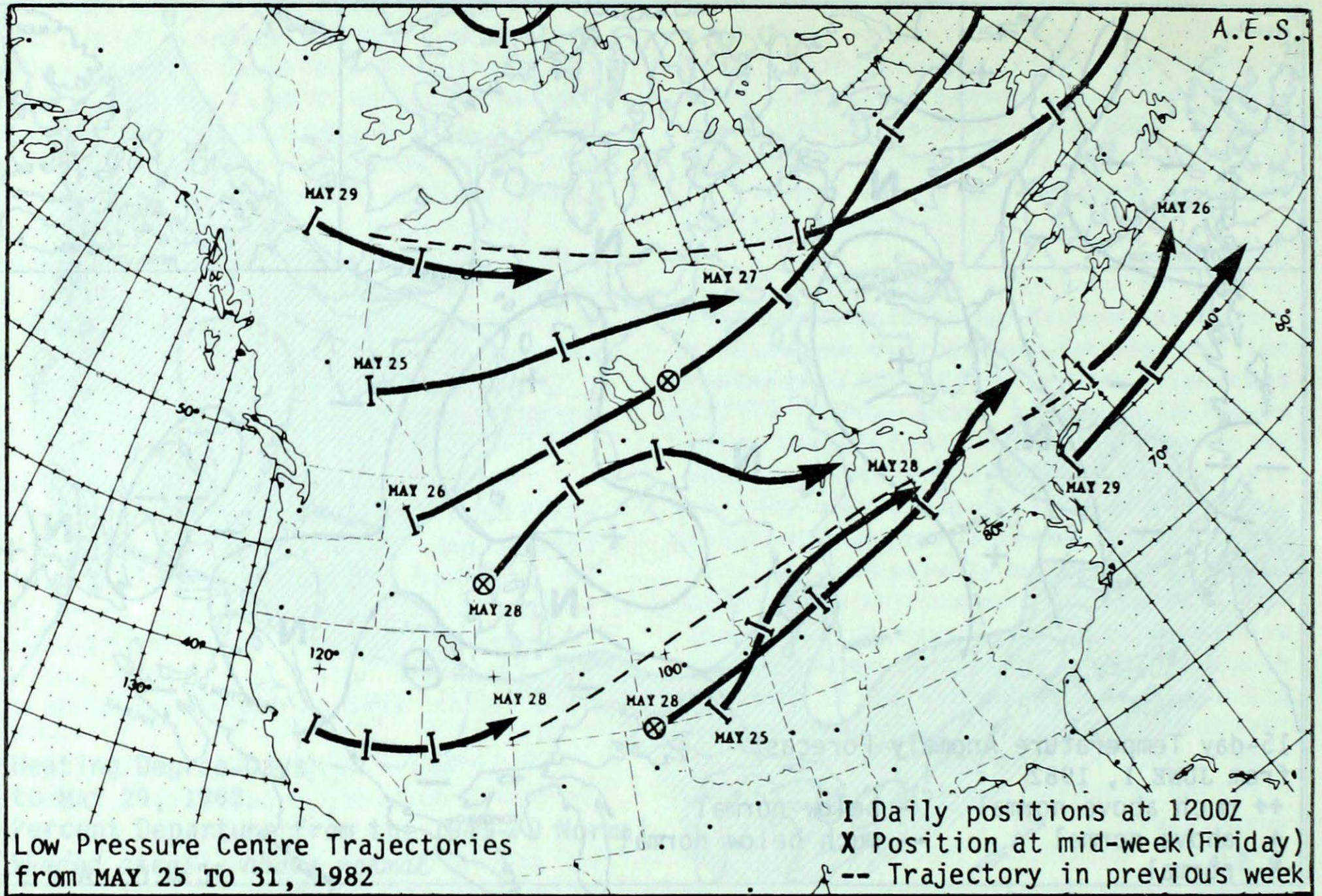
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR JUN 1 1982 TO JUN 15 1982



LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	21.2	WATSON LAKE	-4.1	SHINGLE POINT	11.6	BURWASH
NORTHWEST TERRITORIES	22.9	FORT SMITH NORMAN WELLS	-22.4	BROUGHTON ISLAND	20.0	NORMAN WELLS
BRITISH COLUMBIA	28.2	KAMLOOPS	-3.1	MACKENZIE	12.8	HOPE
ALBERTA	30.6	MEDICINE HAT	-3.0	EDSON HIGH LEVEL	47.3	MEDICINE HAT
SASKATCHEWAN	29.5	NIPAWIN NORTH BATTLEFORD	-2.7	BUFFALO NARROWS	90.5	MOOSE JAW
MANITOBA	31.0	WINNIPEG	-2.7	CHURCHILL	62.0	NORWAY HOUSE
ONTARIO	31.5	MOOSONEE	-0.4	BIG TROUT LAKE	51.1	LONDON
QUEREC	31.3	BAGOTVILLE	-14.1	KOARTAK	31.8	NATASHQUAN
NEW BRUNSWICK	31.4	CHATHAM	0.4	CHATHAM	10.2	SAINT JOHN
NOVA SCOTIA	28.7	EDDY POINT	-1.5	TRURO	32.0	SHEARWATER
PRINCE EDWARD ISLAND	28.3	SUMMERSIDE	3.4	CHARLOTTETOWN	4.8	SUMMERSIDE
NEWFOUNDLAND	22.5	COMFORT COVE	-6.3	CARTWRIGHT	23.6	DANIELS HARBOUR

Station	Temperature (°C)		Precipitation (mm)		Wind Speed (km/h)	Wind Direction	Relative Humidity (%)	Sunshine (h)
	Max	Min	Total	Days with				
St. John's	18.5	5.5	102.0	12	15.0	SE	75	1800
Halifax	17.5	6.5	115.0	14	14.0	SE	78	1750
Moncton	19.0	7.0	105.0	13	15.0	SE	76	1850
Quebec	20.0	8.0	110.0	14	16.0	SE	77	1900
Ottawa	21.0	9.0	100.0	12	17.0	SE	79	1950
Toronto	22.0	10.0	95.0	11	18.0	SE	80	2000
Windsor	23.0	11.0	90.0	10	19.0	SE	81	2050
London	24.0	12.0	85.0	9	20.0	SE	82	2100
Edmonton	25.0	13.0	80.0	8	21.0	SE	83	2150
Calgary	26.0	14.0	75.0	7	22.0	SE	84	2200
Winnipeg	27.0	15.0	70.0	6	23.0	SE	85	2250
Saskatoon	28.0	16.0	65.0	5	24.0	SE	86	2300
Regina	29.0	17.0	60.0	4	25.0	SE	87	2350
Sheridan	30.0	18.0	55.0	3	26.0	SE	88	2400
Brandon	31.0	19.0	50.0	2	27.0	SE	89	2450
Swift Current	32.0	20.0	45.0	1	28.0	SE	90	2500
Yorkton	33.0	21.0	40.0	1	29.0	SE	91	2550
North Battleford	34.0	22.0	35.0	0	30.0	SE	92	2600
Estevan	35.0	23.0	30.0	0	31.0	SE	93	2650
Delisle	36.0	24.0	25.0	0	32.0	SE	94	2700
Carleton Place	37.0	25.0	20.0	0	33.0	SE	95	2750
London	38.0	26.0	15.0	0	34.0	SE	96	2800
Windsor	39.0	27.0	10.0	0	35.0	SE	97	2850
Edmonton	40.0	28.0	5.0	0	36.0	SE	98	2900
Calgary	41.0	29.0	0.0	0	37.0	SE	99	2950
Winnipeg	42.0	30.0	0.0	0	38.0	SE	100	3000

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NOTE: The data shown in this publication are based on the best available information at the time of publication. The Canadian and U.S. Weather Service are not responsible for any errors or omissions.

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JUNE 1, 1982

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	8	1	17	-3	11.6	3.6
Dawson	10	0	21	-1	0.8	-7.1
Faro	M	X	M	M	M	X
Komakuk Beach	0	2	7	-4	2.5	1.5
Mayo A	11	0	20	0	2.2	-3.5
Shingle Point	1	1	7	-4	M	M
Tealin	M	X	17P	-1P	M	X
Watson Lake	10	0	21	-3	0.4	-7.0
Whitehorse	9	0	21	-2	0.4	-3.6
NORTHWEST TERRITORIES						
Cape Parry	-5	-2	0	-12	M	M
Cape Young	-5	-1	0	-10	0.0	-0.7
Clinton Point	-4	-2	2	-9	M	M
Contwoyto Lake	M	M	M	M	M	M
Coppermine	-2	0	7	-8	0.0	-1.4
Fort Reliance	5	1	15	-1	3.0	0.1
Fort Simpson	12	1	22	0	0.5	-11.5
Fort Smith	10	0	23	0	0.0	-5.8
Hay River	7	0	21	-3	0.0	-5.0
Inuvik	5	1	15	-3	0.6	-6.9
Lady Franklin Point	-3	0	3	-9	0.6	-0.2
Nicholson Peninsula	-4	-3	2	-11	1.4	0.2
Norman Wells	11	2	23	3	20.0	15.7
Port Radium	M	X	M	M	M	X
Robertson Lake	M	X	M	M	M	X
Tuktoyaktuk	-2	-1	8	-9	0.0	-3.5
Yellowknife	8	1	19	0	1.2	-2.6
Baker Lake	-2	1	2	-8	1.0	-0.4
Coral Harbour	-6	-3	2	-14	1.5	-1.9
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	-5	0	-1	-12	0.2	-1.0
Pelly Bay	-7	-1	6	-12	M	M
Rankin Inlet	-2	X	3	-6	0.6	X
Shepherd Bay	-6	-1	0	-13	6.0	4.9
Alert	-7	-1	0	-11	M	M
Broughton Island	-7	-1	0	-22	0.0	-3.4
Cape Dorset	-4	X	4	-12	4.4	X
Cape Dyer	-5	-1	2	-16	0.0	-8.9
Cape Hooper	-5	0	2	-9	0.4	-3.4
Clyde	-4	-1	2	-9	0.4	-2.5
Dewar Lakes	-6	-1	-1	-11	0.0	-5.8
Eureka	-3	1	1	-8	0.0	-0.4
Frobisher Bay	-4	-5	1	-12	0.0	-3.8
Gladman Point	-6	0	0	-11	1.0	-0.8
Hall Beach	-7	-2	0	-16	3.2	0.2
Longstaff Bluff	-5	-1	-2	-10	0.0	-2.9
Mackay Inlet	-7	-1	-1	-12	11.3	10.1
Pond Inlet	-6	X	-1	-12	0.0	X
Resolute	-6	0	-3	-10	0.2	-1.9
Byron Bay	-6	-1	2	-13	0.0	-0.9
Cambridge Bay	-7	-1	1	-14	1.8	-0.1
Mould Bay	-7	-1	-4	-10	2.4	0.8
Sachs Harbour	-6	-1	-2	-10	0.2	-2.2
BRITISH COLUMBIA						
Abbotsford	14	1	26	4	5.0	-8.2
Alert Bay	11	-1	22	5	1.3	-10.5
Amphitrite Point	10	X	14	6	0.0	X
Blue River	M	X	M	M	M	X
Bull Harbour	M	M	16	M	2.7	-11.4
Burns Lake	10	X	22	-1	M	X
Cape Scott	9	0	14	6	1.0	-35.7
Cape St James	10	1	18	5	M	M
Clinton	M	X	M	M	M	X
Comox	15	1	24	7	2.6	-5.8
Cranbrook	11	-1	25	1	6.0	-6.3
Dease Lake	8	0	22	-3	5.1	-3.2
Estevan Point	M	M	M	M	M	M
Ethelda Bay	10	X	20	3	M	X
Fort Nelson	12	1	25	4	2.8	-9.0
Fort St John	11	0	24	0	1.0	-8.5
Hope	15	X	28	5	12.8	X
Kamloops	15	-1	28	3	0.8	-4.1
Langara	8	-2	10	5	3.8	-12.7
Lytton	M	M	28	6P	M	M
Mackenzie	10	X	24	-3	0.0	X
McInnes Island	11	0	17	6	0.4	-27.1
Nanaimo A	15	X	25	4	M	X
Penticton	14	-1	26	5	2.6	-3.5
Port Alberni	M	X	M	M	M	X
Port Hardy	11	0	20	4	0.8	-15.2
Prince George	11	0	24	-2	0.7	-10.0
Prince Rupert	9	-1	16	1	5.8	-31.3
Puntzi Mountain	M	X	M	M	M	X
Quesnel	12	0	26	-1	0.8	-8.1
Revelstoke	13	0	26	2	1.0	-10.6
Sabbaspit	11	1	18	6	0.5	-10.0

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Smithers	11	1	23	0	6.0	0.3
Stewart	12	X	25	2	M	X
Terrace	13	1	26	0	0.0	-7.7
Vancouver	14	1	25	7	0.0	-10.0
Victoria	11	0	24	5	1.4	-4.4
Williams Lake	10	0	22	0	3.2	-3.3
ALBERTA						
Banff	7	-2	20	-2	M	M
Calgary	8	-4	20	0	28.8	14.8
Cold Lake	10	-2	21	0	2.9	-6.3
Coronation	9	-4	22	-1	9.0	0.4
Edmonton Intl	10	-3	22	-2	0.0	-13.1
Edmonton Namao	11	-3	23	1	0.5	-9.8
Edson	8	-2	22	-3	9.0	-5.8
Fort Chipewyan	10	-1	24	1	M	M
Fort McMurray	12	1	25	0	3.3	-6.6
Grande Prairie	11	-1	24	-1	2.2	-11.0
High Level	11	2	25	-3	1.6	-12.8
Jasper	8	-2	22	-2	11.4	0.3
Lac La Biche	M	X	M	M	M	X
Lethbridge	8	-5	27	-2	13.2	1.2
Medicine Hat	9	-6	31	0	47.3	36.9
Peace River	11	-1	23	-1	1.7	-6.7
Red Deer	8	-4	22	-2	20.2	5.3
Rocky Mountain House	7	-4	21	-2	11.0	-4.3
Slave Lake	9	-2	22	-2	7.5	-7.7
Vermilion	10	-2	22	1	2.1	-6.8
Whitecourt	9	-1	21	-2	2.2	-11.8
SASKATCHEWAN						
Broadview	12	X	26	0	14.4	X
Buffalo Narrows	9	-2	20	-3	M	M
Collins Bay	6	X	17	-2	25.4	X
Cree Lake	8	X	19	-2	31.4	X
Eastend Cypress	M	X	M	M	M	X
Estevan	12	-1	26	1	15.0	3.7
Hudson Bay	9	-2	28	1	M	M
Kindersley	9	-4	29	0	41.2	37.2
La Ronge	8	-3	19	1	24.4	9.0
Meadow Lake	10	X	23	-1	3.0	X
Moose Jaw	9	-5	25	1	90.5	80.8
Nipawin	8	X	30	0	54.8	X
North Battleford	10	-2	30	2	11.2	-0.7
Prince Albert	9	-3	28	-1	28.9	15.3
Regina	10	-3	25	-1	56.6	43.9
Rockglen	M	X	M	M	M	X
Saskatoon	9	-4	27	0	40.2	29.7
Swift Current	6	-7	26	-2	M	M
Uranium City	10	0	20	1	4.1	1.8
Wynyard	9	X	27	0	72.9	X
Yorkton	11	-1	26	1	17.4	2.0
MANITOBA						
Bissett	16	X	30	7	21.3	X
Brandon	14	1	26	3	2.6	-14.5
Churchill	1	0	10	-3	24.9	16.4
Gillam	13	1	29	2	12.0	-6.8
Gimli	4	X	20	-1	25.8	X
Gimli	15	3	25	5	4.4	-9.3
Grand Rapids	M	X	M	M	M	X
Island Lake	11	X	27	0	M	X
Lynn Lake	5	-5	17	-1	33.7	13.0
Norway House	8	X	24	0	62.0	X
Pilot Mound	15	3	27	3	9.0	-8.9
Portage	15	3	28	3	4.8	-14.5
The Pas	9	-1	30	2	19.6	8.2
Thompson	6	-4	23	0	17.5	2.2
Winnipeg	17	4	31	5	4.6	-11.2
ONTARIO						
Armstrong	15	6	30	2	4.4	-12.9
Atikokan	15	2	27	4	2.6	-21.0
Barrie	M	X	M	M	M	X
Rig Trout Lake	13	6	27	0	1.4	-10.4
Britt	M	X	27P	15P	M	X
Caribou Island	M	X	M	M	M	X
Earlton	18	6	29	5	M	M
Geraldton	15	3	30	3	11.9	-6.9
Gore Bay	15	3	23	5	6.6	-5.7
Kapuskasing	17	5	29	7	14.6	-2.6
Kenora	16	1	25	8	57.4	38.7
Kingston	16	8	30	3	10.4	-3.4
Lansdowne	18	3	25	8	51.1	38.3
London	13	6	32	1	8.7	-12.9
Moosonee	18	5	25	7	33.0	18.3
Mount Forest	19	6	26	9	M	M
Muskoka	M	X	M	M	M	X
Nagagami	18	6	26	7	0.6	-19.8
North Bay	18	4	27	9	16.2	-0.8
Ottawa	19	4	27	9	16.2	-0.8

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Petawawa	17	X	27	4	22.4	X
Pickle Lake	17	7	30	3	14.6	-5.8
Red Lake	16	6	30	6	45.8	33.8
Simcoe	M	M	25P	9P	48.8	40.9
Stouffville	18	7	30	8	9.4	-11.6
Sudbury	18	6	26	7	1.6	-13.9
Thunder Bay	14	4	27	3	6.6	-12.7
Timmins	17	6	29	4	5.0	-6.8
Toronto	16	2	25	8	16.5	0.7
Trenton	16	2	23	7	27.8	12.3
Upsala	M	X	M	M	M	X
Wawa	13	X	27	0	3.0	X
Warton	14	2	23	6	18.5	8.0
Windsor	19	3	28	9	31.9	15.2
QUÉBEC						
Bagotville	17	5	31	6	7.8	-10.4
Bele Comeau	10	1	26	2	0.2	-22.1
Blanc Sablon	3	-1	10	-4	14.8	3.7
Border	M	M	M	M	M	M
Chevery	M	X	M	M	M	X
Chibougamau	19	X	30	7	3.6	X
Gaspé	10	X	24	1	0.4	X
Grindstone Island	8	0	17	3	0.4	-18.4
Inoucoujoc	-1	-2	6	-9	17.4	12.3
Kuujuuaq	-1	-4	8	-9	9.0	1.5
Lac Eon	M	X	M	M	M	X
Grande Riviere	11	X	27	-1	9.2	X
Maniwaki	18	6	29	6	7.4	-6.5
Matagami	17	X	31	5	M	X
Mont-Joli	12	1	24	3	0.6	-17.5
Montréal	20	5	28	8	3.2	-9.8
Natashquan	7	0	18	0	31.8	6.1
Nitchequon	8	3	19	-5	6.4	-12.7
Parent	M	X	M	M	M	X
Port Menier	M	M	M	M	M	M
Poste-de-la-Baleine	7	3	27	-2	6.8	-3.9
Québec	17	4	29	7	0.2	-13.9
Rivière du Loup	M	M	M	M	M	M
Roberval	19	7	29	7	3.4	-9.1
Schefferville	2	-2	13	-8	13.9	1.2
Sept-Iles	8	0	22	-1	25.1	0.9
Sherbrooke	17	6	29	5	0.0	-10.5
Ste Agathe des Monts	17	5	26	6	5.0	-14.3
Val D'Or	18	8	29	7	0.0	-14.4
NEW BRUNSWICK						
Charlo	14	4	31	2	0.0	-15.5
Chatham	15	3	31	0	1.6	-20.1
Fredericton	15	2	30	3	9.1	-15.2
Moncton	14	2	29	2	3.5	-17.4
Saint John	13	2	25	3	10.2	-15.3
St Stephen	M	X	M	M	M	X
NOVA SCOTIA						
Amherst	M	X	M	M	M	X
Eddy Point	11	X	29	1	5.4	X
Greenwood	15	1	27	2	15.0	-3.9