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CLIMATIC PERSPECTIVES

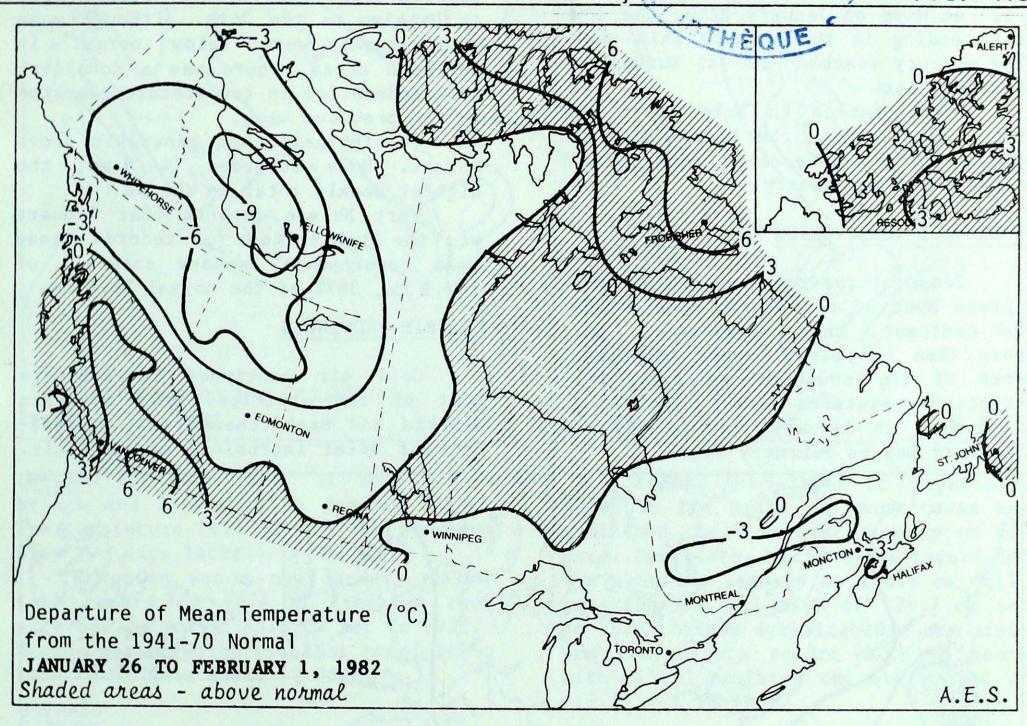
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# WEATHER HIGHLIGHTS FOR THE PERIOD - JANUARY 26 TO FEBRUARY 1

Temperatures moderate across the country

Although cold air still dominated much of the country, temperatures had moderated in most areas by the end of the week. Although maximum temperatures ranged from -15° to -25 in the Yukon, local residents considered these as spring-like compared to previous weeks.

Both Ontario and Newfoundland were struck by storms which produced heavy snowfalls. Winds in excess of 100 km/h combined with the snow to paralyze many areas of southeastern Newfoundland. Numerous highways in the Lake Huron - Georgian Bay snowbelt areas of Ontario were closed and many motorists had to be rescued from their stranded cars by snowmobile.

Temperatures varied from a maximum of 12° at Nanaimo, British Columbia to a minimum of -52° at Mayo, Yukon. Hope, British Columbia measured the greatest precipitation total, 144.8 mm.

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

### YUKON

The week began with temperatures 15° to 20° below normal, but by February 1st temperatures were closer to normal over most of the Yukon. Maximum temperatures ranged from -15° to -25° by week's end, but local residents consider these as spring like compared to previous weeks. The temperature fell to -52° at Mayo on January 27th, the lowest reading in the country this week. The mercury reached -10° at Burwash on February 1st.

Precipitation in Yukon continued to be light. Only the Liard Basin in the southeast approached near normal amounts during January.

### NORTHWEST TERRITORIES

Temperatures remained above normal across most of the Arctic Archipelago. In contrast, mean temperatures were more than 10° below normal throughout much of the southern Mackenzie District. Temperatures varied from -6° at Cape Dyer on January 30th to -49° at Shepherd Bay on February 1st.

Only the northern coast of Baffin Island recorded significant amounts of precipitation. Cape Dyer measured 38.7 mm.

### BRITISH COLUMBIA

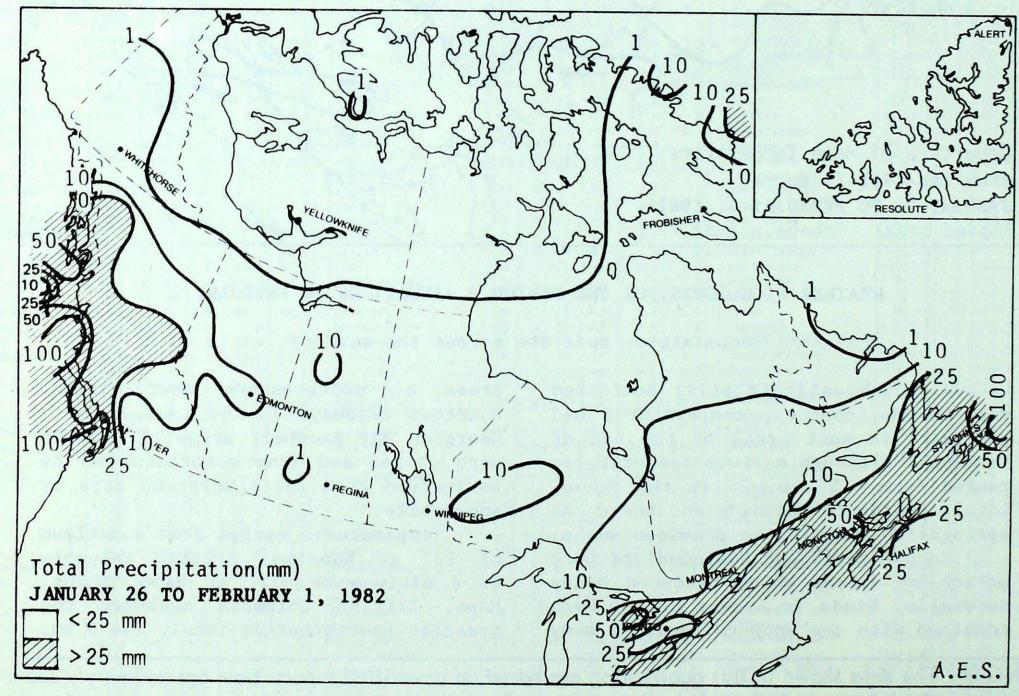
Mild air moved into the province this week. Mean temperatures were more than 6° above normal in some southeastern areas. The mercury rose to 12° at Nanaimo on the 26th. Although mean temperatures were below normal in northern areas, there was a considerable moderation in temperature compared to the previous week.

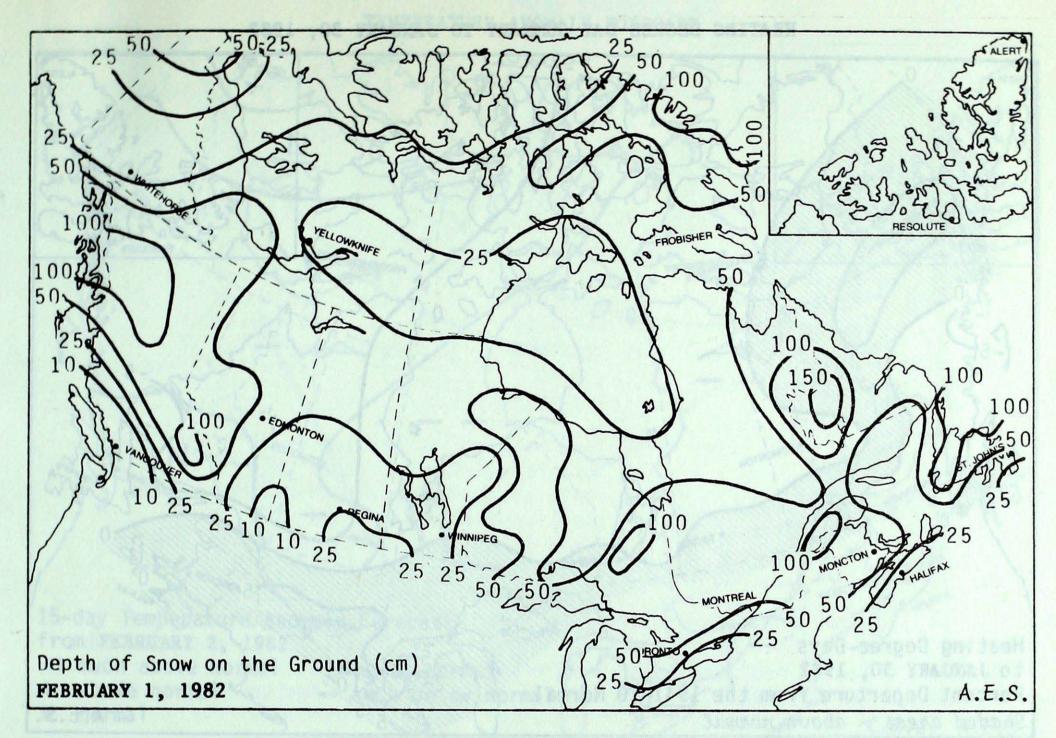
Precipitation was generally above normal. Hope recorded 144.8 mm, the highest weekly total in Canada.

Fort Nelson reports that January was the 3rd coldest on record. Dease Lake reported a January snowfall of 141.9 cm, 387% of the normal 36.6 cm.

### PRAIRIE PROVINCES

Cold air continued to dominate most of the prairies. Only southern Alberta and Saskatchewan felt the effect of brief intrusions of mild air.





The mercury rose to 6° at both Lethbridge and Saskatoon on January 26th. The temprature fell to -45° at Uranium City two days later.

Edmonton set a new January snowfall record of 75.4 cm breaking the previous record of 63.5 cm set in 1935. Regina measured the greatest precipitation total this week, 54.0 mm.

#### ONTARIO

January came to a snowy end with the fifth consecutive weekend of stormy weather across the province. Strong north-easterly winds combined with heavy snowfalls of 15 cm to 30 cm in the Southern Great Lakes area to upwards of 50 cm in central regions created serious transportation problems once again.

Numerous highways in the Lake Huron - Georgian Bay snowbelt areas were closed and numerous motorists in the Arthur area had to be taken by snowmobile from their stranded cars to shelters in town. Wiarton set an all-time one day snowfall record as 50 cm fell on the town.

January proved to be especially harsh in the North, as many towns established their coldest January on record. Sault Ste. Marie set a record for the snowiest January as 146.9 cm fell, breaking the old mark of 124.7 cm set in 1970. Ottawa established a new minimum temperature record for the month with -15.9° breaking the old record of -15.6° set in 1945.

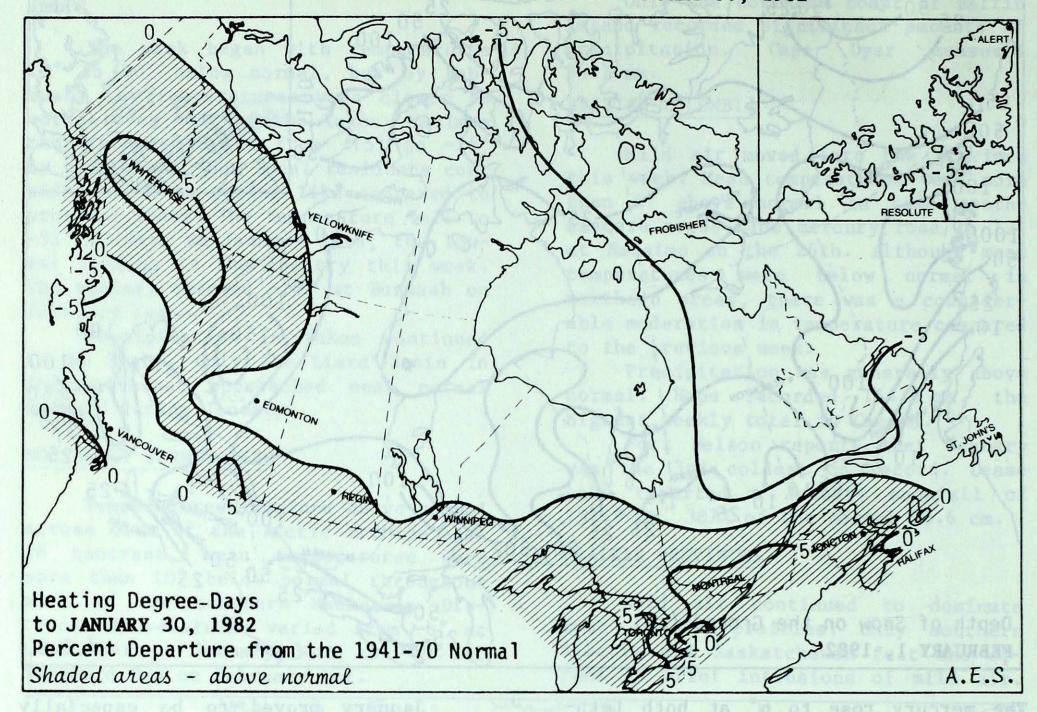
#### QUEBEC

Temperatures remained below normal in southern areas although there was considerable moderation in temperature compared to the previous week. Mean temperatures throughout the northern half of the province were above normal. The mercury varied from -1° at several stations on January 31st to -36° at Sherbrooke on January 27th.

January proved to be a record breaking month in Québec. Bagotville measured only 27.2 mm of precipitation during the month breaking the old record of 27.7 mm set in January 1980. In contrast, Schefferville recorded

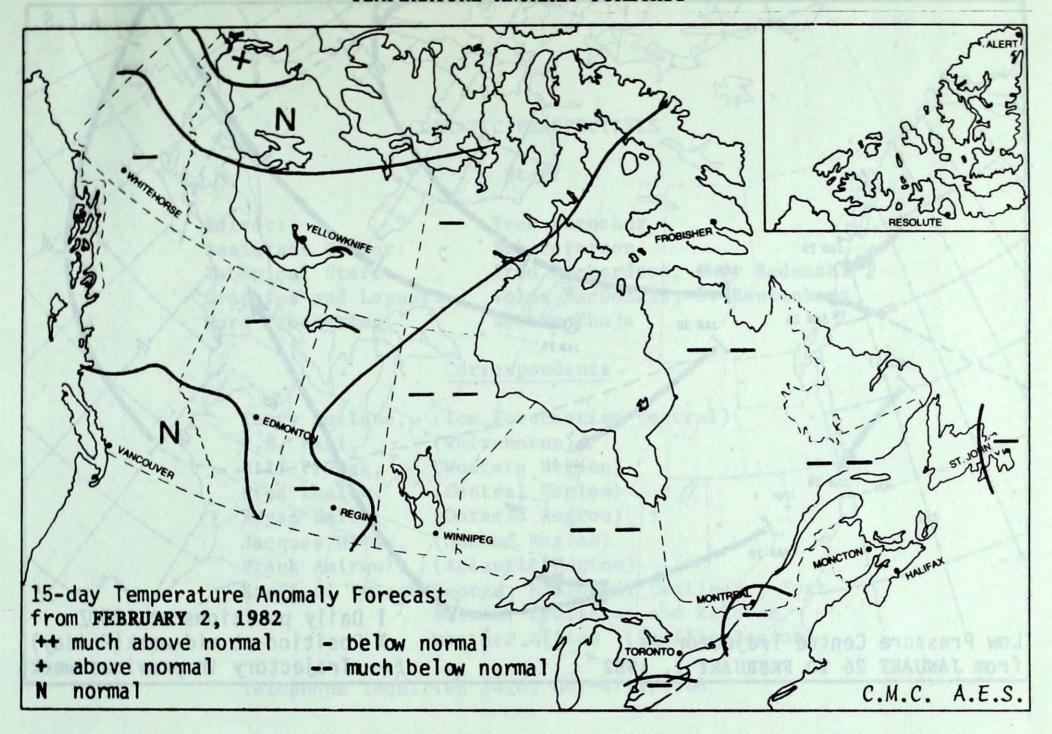
(continued on page 6)

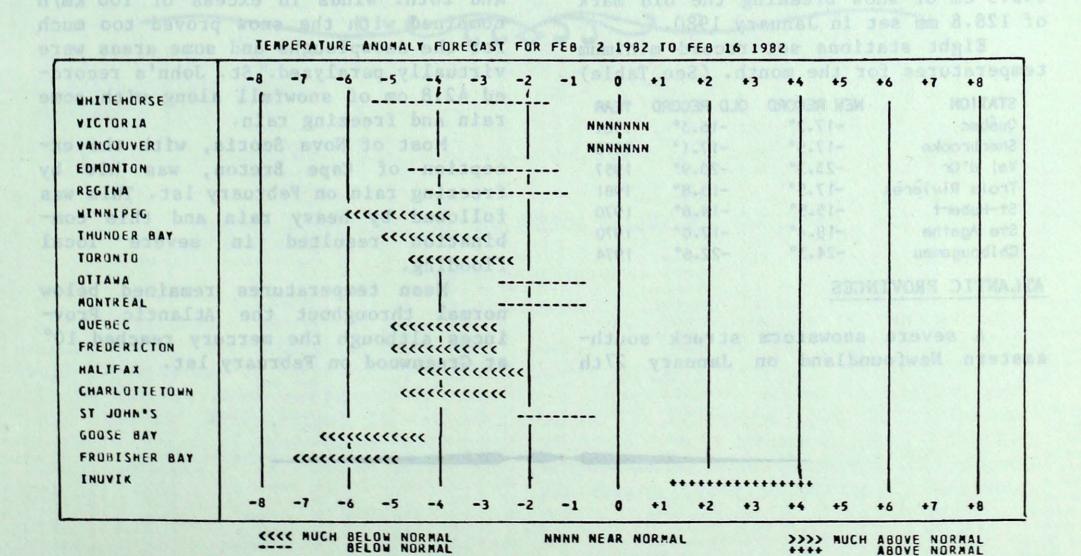
HEATING DEGREE-DAY SUMMARY TO JANUARY 30, 1982

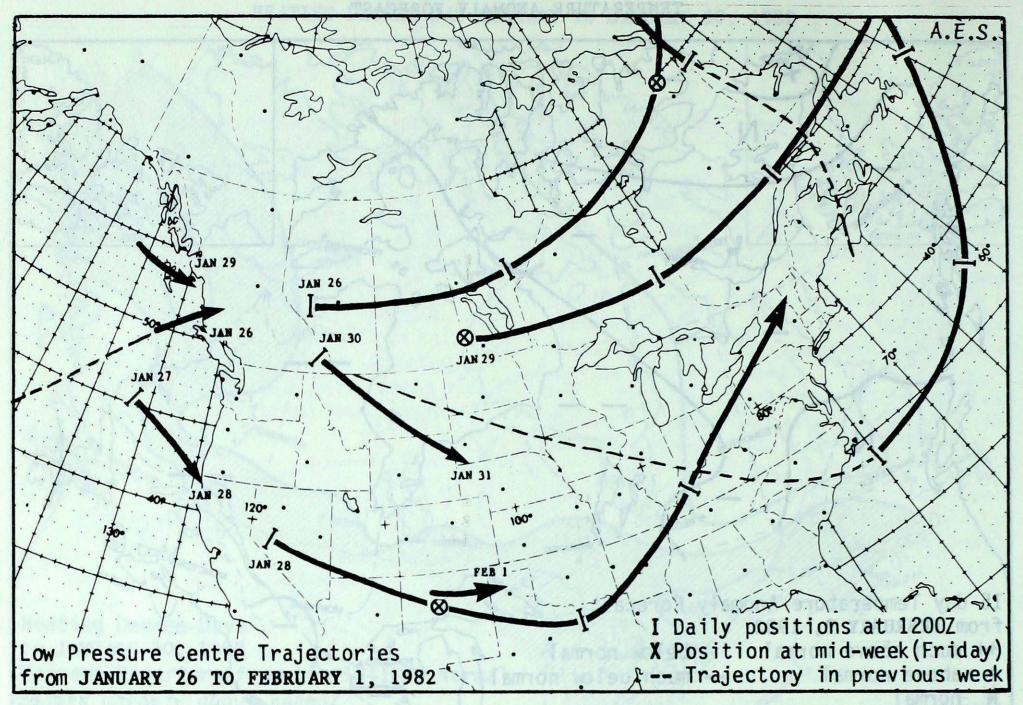


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	1443.0	-72.0	6496.5	-347.5	95
Inuvik	1578.0	121.0	5616.5	-57.5	99
Whitehorse	1486.5	378.5	4342.0	229.0	106
Vancouver	485.5	16.5	1652.5	-48.5	97
Edmonton Mun	1207.5	223.5	3165.0	-107.0	97
Calgary	1128.5	259.5	3110.5	63.5	102
Regina	1303.5	245.5	3454.5	73.5	102
Winnipeg	1298.0	210.0	3359.5	24.5	101
Thunder Bay	1170.0	186.0	3280.0	94.0	103
Windsor	794.5	126.5	2165.0	189.0	110
Toronto	846.5	116.5	2438.5	222.5	110
Ottawa 1	1023.5	153.5	2769.5	153.5	106
Montreal	1005.0	169.0	2718.5	244.5	110
Quebec	1033.5	145.5	2952.5	154.5	106
Saint John, N.B.	914.0	151.0	2597.5	82.5	103
Halifax	763.5	110.5	2122.0	62.0	103
Charlottetown	855.5	114.5	2357.5	19.5	5 101 mon
St. John's, Nfld.	669.0	19.0	2337.0	-57.0	98

## TEMPERATURE ANOMALY FORECAST







# (continued from page 3)

142.5 cm of snow breaking the old mark of 128.8 mm set in January 1980.

Eight stations set record minimum temperatures for the month. (See Table)

STATION	NEW RECORD	OLD RECORD	YEAR
Québec	-17.2°	-16.3°	1981
Sherbrooke	-17.5°	-17.1°	1970
Val d'Or	-23.3°	-20.9°	1957
Trois Rivières	-17.5°	-15.8°	1981
St-Hubert	-15.5°	-14.8°	1970
Ste Agathe	-18.4°	-17.0°	1970
Chibougamau	-24.3°	-22.6°	1974

### ATLANTIC PROVINCES

A severe snowstorm struck southeastern Newfoundland on January 27th and 28th. Winds in excess of 100 km/h combined with the snow proved too much for the snowploughs and some areas were virtually paralyzed. St. John's recorded 42.8 cm of snowfall along with some rain and freezing rain.

Most of Nova Scotia, with the exception of Cape Breton, was hit by freezing rain on February 1st. This was followed by heavy rain and this combination resulted in severe local flooding.

Mean temperatures remained below normal throughout the Atlantic Provinces although the mercury reached 10° at Greenwood on February 1st.

### CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITA							
	Te		rature	Prec	Precip. (mm)		
Station	Average	Peper Lie	l i i	Extre-ie Mic - La	Tota	Departie from Normal	
YUKON Burwash Dawson	-29 -34	110	COPPLY VIEW	-45 -50	3.2	THE SHAPE SHAPE	
Faro Komakuk Beach	-32 -33	- 5 - 7	-26	-37 -52	0.0 2.0	- 0.9	
Mayo A Shingle Point Teslin	M M	M X	-26P	-42	0.0	- 3.6	
Watson Lake Whitehorse	-31 -27	- 6 - 8	-15 -14	-45 -41	0.1	The second secon	
NORTHWEST TERRITORIES Cape Parry Cape Young	-32 -32	- 2 - 0	The second secon	-36 -41	0.2	- 0.7 - 0.5	
Clinton Point	-30 M	1,05894	-22	-39	0.0	1/2/51/00 1/2/51	
Contwoyto Lake Coppermine	-32 M	- 3 H	-25	-43 -44	М	м	
Fort Reliance Fort Simpson	-38	- 8	-30	-47	M M		
Fort Smith Hay River	-36 -35	- 8 -10	-26	-47 -44	0.0		
Inuvik Lady Franklin Point	-37 M	- 6 M	-29 -26P	-45 -39	0.0	1000	
Nicholson Peninsula Norman Wells	M -38	M -11	-28P -26	-44 -45	0.0	- 0.6 - 5.0	
Port Radium	M	X	М	М	М	X	
Robertson Lake Tuktoyaktuk	М	X M	M -31P	-41	0.0	- 0.9	
Yellowknife Baker Lake	-39 -36	-11 - 1	-30 -30	-48 -44	0.0 M	- 2.3 M	
Coral Harbour Ennadai Lake	-30 M	2 M	-20 M	-41 M	0.5 M	- 0.6 M	
Jenny Lind Island	M -36	10100	-27P -29	-43 -42	0.0	- 0.9	
Rankin Inlet	-35	X	-29	-43 -49	0.2	X	
	-33	- 3	-27P -20	-43	0.0 M	- 1.0 M	
Cape Dorset	-18 -22		-12 -15	-26 -32	8.0 M	6.8 X	
	-17 -20	6	- 6 -15	-30 -29	38.7	26.7	
Cl yde	-20 -22	9	-14 -13	-27 -34	20.6	19.2	
Eurcka	-34	1	-21	-40	м	М	
Gladman Point	-20 M		- 7 -27P	-33 -43	0.0	0.8	
	-34 -23		-20 -11	-45 -40	0.6	- 0.9	
	-35 -25	100	-28 -11	-42 -31	0.4	- 0.1 X	
Resolute	-30	4	-17	-40	0.3	- 0.6	
	-34	0	-26P -25	-40 -41	0.0 M	0.0 M	
Sacha Harbour	-33 -32		-26 -28	-40 -38	0.1	- 0.6	
BRITISH COLUMBIA Abbotsford	5	4	10	2	74.9	39.5	
Alert Bay Amphitrite Point	3	O X	7 9	-1 3	85.9 M	52.0 X	
Blue River Bull Harbour	M 4	X O	M 8	M - 2	M 121.9	X 69.6	
Burns Lake Cape Scott	- 8	X	1 8	-20 0	M 140.8	X 50.6	
Cape St James Clinton	5 M	1 1 X	8 M	2 M	66.9 M	32.9	
Comox	4	2	9	- 1	38.5	6.8	
	- 2 -23	The second secon	-11	-11 -36	34.0	- 6.2 28.7	
Estevan Point Ethelda Bay	M 2	M	M 9	- 5	M M	M X	
Fort Nelson	-27	- 5	-17	-42 -35	4.8	- 0.6	
llo pe	4	X	8	0	144.8	x	
Kamloops Langara	- 3	4	7	0	7.8	34.1	
Lytton Mackenzie	2 M	4 X	- 8	- 5 -31P	4.8 M	0.0 X	
McInnes Island Nanaimo A	4	1 X	8	- 1	126.0 M	66.7 X	
Penticton Port Alberni	3 M	6 X	7 M	- 1 M	1.7 ·	- 3.7 X	
Port Hardy Prince George	4	2	9	- 2 -27	87.0	48.3	
Prince Rupert	2	3	6	- 5	99.1	54.6	
Puntzi Mountain Queanel -	M 9	X 3	M 2 -	-25	33.7	22.4	
Revelatoke -	- 1	4	4 .	- 8	38.0	15.8	

HI	TUN DATA FOR THE	E WEEK ENDING 0600 G.M.T. F						
		Te	Temperature (°C)			Precip. (mm)		
	Station	Average	Departure from Normal	Extreme	Extreme Minimum	Total	Departure from Normal	
	Smithers Stewart Terrace Vancouver Victoria Williams Lake	- 9 - 2 - 1 5 - 7	X 4	0 3 4 9 10	-20 -15 -10 1 0 -21	24.4 M 27.6 41.1 23.3 21.4	13.1 X -12.0 15.6 - 0.6 15.1	
	ALBERTA Banff Calgary Cold Lake Coronation Edmonton Intl	M -12 -25 -18 -17	- 1 - 5 - 1	OP 5 - 8 2 - 4	-17P -25 -41 -28 -28	M 3.8 3.6 3.2 12.9	M 0.3 - 1.7 - 1.5 6.8	
	Edmonton Namao Edson Fort Chipewyan Fort McMurray Grande Prairie High Level Jasper	-18 -16 -34 -29 -24 -31 - 9	- 2 - 3 - 6 - 7 - 6 M	- 4 - 1 -22 -19 -16 -22 4	-29 -30 -45 -45 -37 -44 -23	11.3 9.0 3.2 2.3 30.6 2.8 16.8	4.1 0.2 0.7 - 2.2 22.6 0.5 12.0	
	Lac La Biche Lethbridge Medicine Hat Peace River Red Deer Rocky Mountain House	M - 9 -13 -25 -15 -16	X 1 0 - 5 0 - 3	M 6 6 -18 3 0	M -22 -23 -39 -26 -30	M 1.9 2.5 12.9 5.9 8.4	X - 2.8 - 1.6 7.4 1.9 3.4	
	Slave Lake Vermilion Whitecourt SASKATCHEWAN Broadview Buffalo Narrows Collins Bay	-23 -21 -18 -18 -29 -31	- 5 - 1 - 2  X - 6 X	-12 - 6 - 4 2 -15 -23	-32 -30 -30 -36 -41 -40	7.5 4.6 17.5 4.5 M 2.8	- 0.3 0.2 10.9	
	Cree Lake Eastend Cypress Estevan Hudson Bay Kindersley La Ronge	-32 M -16 -22 -18 -28	X X - 1 - 1 - 1 - 4	-20 M 4 - 5 4 -14	-43 M -33 -35 -29 -38	14.4 M 3.3 M 3.7	- 0.6 M - 2.2 M	
	Meadow Lake Moose Jaw Nipawin North Battleford Prince Albert Regina Rockglen	-27 -16 -23 -22 -24 -20	20	- 8 - 6 3 - 5	-44 -33 -38 -39 -40 -36 M	1.7	X M X - 3.4 - 2.7 - 1.8	
	Saskatoon Swift Current Uranium City Wynyard Yorkton	-20 -14 -34 -20 -20	0 1 - 5 X 0	6 5 -23 4 2	-37 -29 -45 -35 -33	0.8 M	- 4.1 M - 3.3 X 0.5	
	Bissett Brandon Churchill Dauphin Gillam Cimli	-21 -20 -28 -19 -28 -20	0 X 0	- 7 2 -16 2 -20 - 5	-35 -34 -38 -33 -37 -32	6.3 2.4 27.4 3.3 M 6.6	X - 2.7 25.2 - 3.2 X 1.9	
	Grand Rapids Island Lake Lynn Lake Norway House Pilot Mound Portage The Pas	M -24 -30 -25 -19 -18 -24 -28	X 0 - 1 - 1	-20 - 9 1 3 -10	M -35 -39 -35 -32 -30 -34 -41	7.1 7.2 M M 4.2 12.1	X X 3.9 X M 1.6 8.8	
1	Vinnipeg DNTARIO Armetrong Atikokan Barrie Big Trout Lake	-20 -22 -18 M -22	- 1 - 1 - 0 - X 2 -	- 4 - 5 - 3 M - 7	-31 -40 -39 M -34	4.7 - M 3.0 - M 6.6	M 3.5 X 1.4	
F	Geraldton Gore Bay Capuskasing	M M -17 -19 -11 -19 -20	X X - 1 - 0 - - 1 - - 2 -	- 1 - 4	M M -32 -38 -26 -37 -33	M M 1.8 - 14.0 7.8 - 2.7 -	X X M 8.6 1.9 3.3 2.9	
KILMM	Ingston Anadowne Ondon Oosonee ount Forest	- 9 - -21 - 8 - -21 - M - 12 -	- 2 2 - 1 - 0 M - 1 X	2 - 5 - 2 - 5 - OP -	-27 -34 -20 -36 -22P -31 M	M 11.2 16.1 - 3.9 - M 26.4	M 4.5 3.6 4.1 M 4.8	
N	orth Bay	-15 -13 -	- 2 -	2 -	-27	19.7	3.2	

					III.		
	Te	Temperature (°C)			Precip. (mm		
[Station]	Average	Departure,	916	Extreme	Total	Departure from Norral	
Petawawa Pickle Lake Red Lake	-16 -21 -21	1 1 - 1	- 1	-35 -34	17.4	7.8	
Simcoe Sioux Lookout	-20	М	3	P -161		1	
Sudbury Thunder Bay	-16 -16	- 2	- 2	-29	23.3	10.9	
Timmins	-19	- 3	- 3	-35	13.2	- 1.2	
Toronto Trenton	- 8 - 9	- 1 - 1		-21 -27	22.1		
Upsala Wawa	-17	X		-34	7.1		
Wiarton Windsor	- 8 - 6		1	-19 -15	56.3	32.5	
QUÉBEC Bagotville	-16			-28	16.8		
Baie Comeau Blanc Sablon	-16 -13	- 2	- 4	-29	17.4	- 7.9	
Border	М	М	M	-20 M	H	M	
Chevery Chibougamau	-21	X	- 9	-36	18.6	X	
Gaspé Grindstone Island	-14   - 8	X 0		-26 -16	19.9		
Inoucd jouac Kuuj juaq	-23 -22	3	-11 -12	-32 -32	8.6	M	
Lac Eon Grande Riviere	M	X	M	М	M	X	
Maniwaki	-24 -16		- 7 - 1	-36 -35	29.8	16.0	
Matagami Mont-Joli	-21 -14	- X	- 5	-35 -21	5.1	-14.7	
Montréal Natashquan	-12 -13	- 2 0	- 2	-27 -23	28.2		
Nitchequon Parent	M	M		-36P	M		
Port Menier Poste-de-la-Baleine	M -21	M 2	- 6	M -29	8.9	×	
Québec Rivière du Loup	-16 M	- 3 M	- 5 M	-27	28.5	5.8	
Roberval	-17	- 2	- 6	-27	19.5	1.3	
Schefferville Sept-Iles	-17	- M	- 6	-27	19.2	- 1.6	
Sherbrooke Ste Agathe des Monts	-15 -16			-36 -32	32.4	14.3	
Val D'Or NEW BRUNSWICK	-20	- 3	- 4	-35	20.2	6.9	
Charlo Chatham	-16 -14	- 4 - 4	- 6 - 3	-26 -28	25.4		
Fredericton	-13	- 3	0	-30	49.3	29.7	
Moncton Saint John		- 2	6	-28 -25	55.4 36.7	10.4	
St Stephen NOVA SCOTIA	М	X	М	M	М	X	
Amherst Eddy Point	- 6	X	M 7	M -17	M 21.2	X X	
Greenwood Sable Island	- 9 - 1	- 3 0	10	-25 - 6	31.8	5.5	
Shearwater Shelburne	- 7 - 5	- 2 X	9	-21 -21	27.2 M	- 2.9 X	
Sydney	- 8 - 9	- 2 - 1	6 8	-18 -25	35.0	5.0	
Truro Yarmouth	- 4	0	8	-15	30.9	1.0	
PRINCE EDWARD ISLAND Charlottetown	-10	- 2	6	-23	м	м	
East Point Summerside	-10	- X	M 5	H -22	45.6	27.3	
NEWFOUNDLAND Argentia	- 4	x	4	-10	48.9	x	
Badger Bonavista	- M	X 1	M 2	M -10	72.9	49.6	
Burgeo Cape Race	- 6 M	- 1 X	3 M	-11 M	40.6 M	- 4.91 X	
Comfort Cove	- 8 -	- 1	0	-15	28.0	11.8	
Daniel's Harbour Deer Lake	- 8 -12	- 3	- 1	-15 -30	28.6 M	16.8 M	
Gander Port aux Basques	- 8 -	- 1	1	-13 -13	29.0	18.4	
St Albans St Anthony	- 6 -11	0 X		-15 -18	35.2	_ M X	
t John's	- 4 - 4 -	1 1	5		103.5	67.4	
tephenville	- 7 - -12 -	1 3 -	1	-14 -21	49.1	9.2	
artwright	-16 -	2 -	- 5	-23	0.8	16.9	
oose	-23 -20 -	3 -	- 9	-34 -29	4.2 -	8.8	
opedale abuah Lake	-18 -	1002		-26 -15	0.4 -		
not available at pres	n th	ne					