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CLIMATIC PERSPECTIVES

A WEEKLY REVIEW OF CANADIAN CLIMATE

Canada

THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
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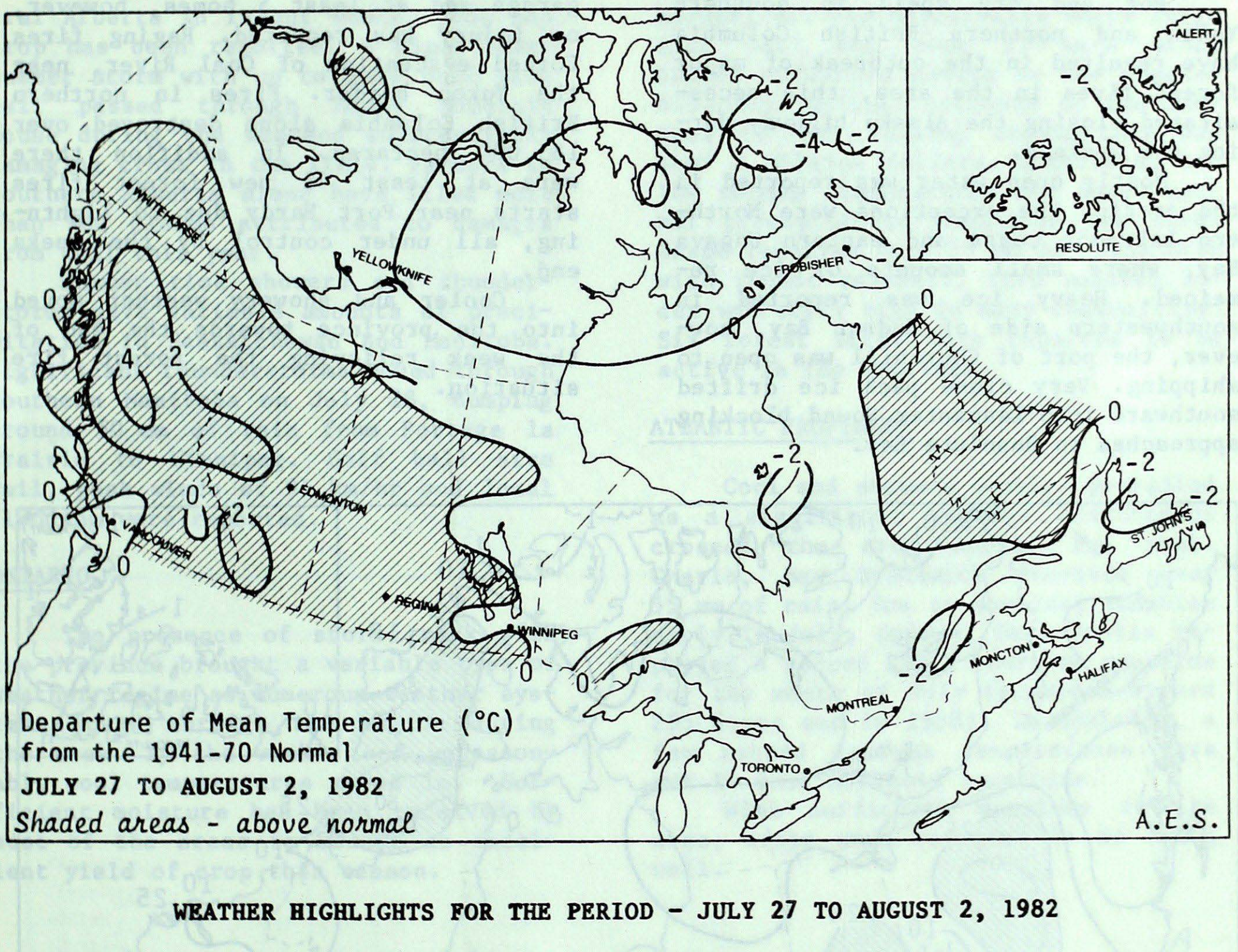
AUGUST 6 1982 *(Aussi disponible en français)* **VOL.4 NO. 30**



WEATHER HIGHLIGHTS FOR THE PERIOD - JULY 27 TO AUGUST 2, 1982

Lightning ignites major forest fires in British Columbia

The hot and dry environment in northern British Columbia this week provided the right conditions for lightning strikes to ignite major forest fires. Evacuation of towns, damages to property, as well as closure of major highways were reported near Yukon - British Columbia border. Fires in northern British Columbia alone destroyed over 185,000 hectares.

Numerous severe thunderstorms producing large hail and strong gusty winds damaged crops in the field both in Alberta and Québec. Damage to vegetable crop was estimated to be near 2 million dollars in Québec alone.

Temperatures ranged from a high of 39° at Lytton, B. C. to a low of -6° at Alert, N. W. T. Grande Prairie, Alberta recorded over 85 mm of rain.

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 NORTHWEST TERRITORIES

Hot and dry weather in southern Yukon early in the week sent mercury climbing over the 30° mark and established record high maximum temperatures in many localities. Near the end of the week somewhat cooler and more showery weather moved in from the northern regions.

Hot and dry spell in southern Yukon and northern British Columbia have resulted in the outbreak of major forest fires in the area, this necessitated closing the Alaska highway during the weekend.

Mostly open water was reported in the Arctic. The exceptions were Northern Labrador coast and eastern Ungava Bay, where small amounts of ice remained. Heavy ice was reported in southwestern side of Hudson Bay, however, the port of Churchill was open to shipping. Very close pack ice drifted southward into Lancaster Sound blocking approaches to Resolute Bay.

BRITISH COLUMBIA

The week started with hot and dry conditions in the province. Mercury climbed well into the 30 degree range establishing record high maximum temperatures in several localities. Lightening from thunderstorms ignited numerous major forest fires in northern regions. Town of Fireside lost a hotel, garage and at least 5 homes, however, no injury was reported. Raging fires forced evacuation of Coal River, near the Yukon border. Fires in northern British Columbia alone destroyed over 185,000 hectares. In addition there were at least 45 new forest fires starts near Port Hardy due to lightning, all under control by the weeks end.

Cooler and showery weather moved into the province towards the end of the week relieving the forest fire situation.

PRAIRIE PROVINCES

Abnormally warm and dry weather conditions helped to ignite major forest fires in extreme northwestern Alberta. By the weekend, cool and damp weather helped to control some fires, however, extensive smoke in the area hampered fire fighting efforts.

Due to abundant rainfall in central Alberta in recent weeks, poor hay crop has been reported. A significant summer storm with up to golf ball size hail passed through Rocky Mountain House during the weekend substantially damaging crops in the field. Farmers in southern Alberta alone have filed more than 900 claims attributed to damages from hail this year.

Summer time showers and thunderstorms gave variable amounts of precipitation in Saskatchewan and Manitoba. Significant thunderstorms moved through southern Manitoba on July 28, dumping around 50 mm of rain from Portage la Prairie to Winnipeg. Golf ball size hail, peak winds of 91 km/hr and local flooding were reported.

ONTARIO

The presence of storm track over the province brought a variable type of weather regime as numerous weather systems moved through the region during the week. By the week's end unseasonably cool temperatures moved in. Sufficient moisture has been received by most of the areas to assure an excellent yield of crop this season.

Statistically, early figures from Toronto indicated that July 1982 was the sunniest July since 1968, with mean temperature slightly higher than the normal value.

QUÉBEC

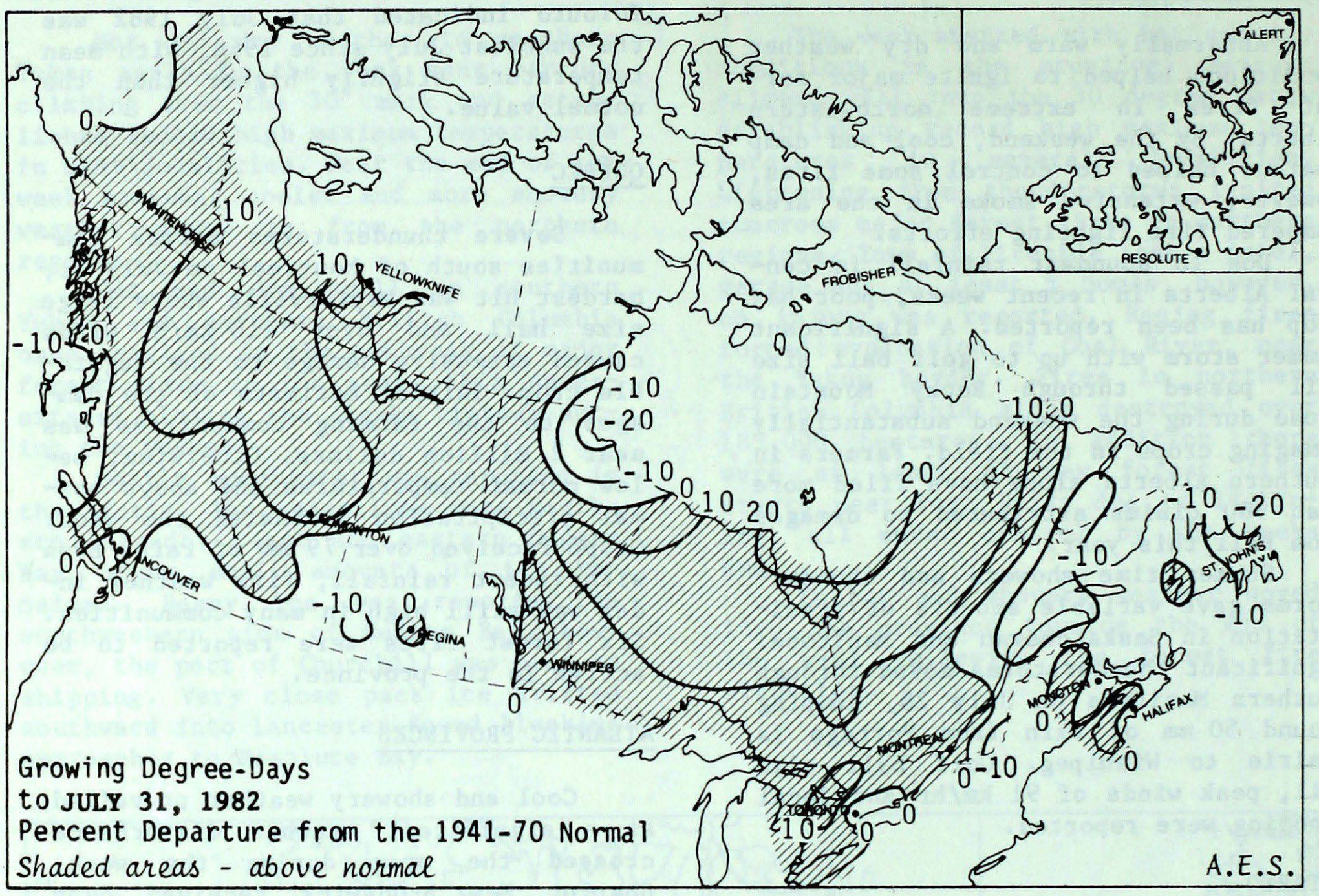
Severe thunderstorms struck communities south of Montreal on July 31, hardest hit was Napierville where large size hail and over 110 km/h winds caused extensive damage to the vegetable crop. Initial estimate of the damages to the farming communities was near 2 million dollars. Otherwise, below normal temperatures and above normal precipitation dominated the week. Gaspé received over 79 mm of rain. Even with recent rainfall, fire weather index was still high in many communities. Six forest fires were reported to be active in the province.

ATLANTIC PROVINCES

Cool and showery weather prevailed as a significant weather disturbance crossed the area during the week. Charlo, New Brunswick received over 55 mm of rain. Due to abundant sunshine early in July, Sydney, Nova Scotia reported a record 298.7 hours of sunshine for the month of July (previous record 295 hours set in 1968). In addition, a few record maximum temperatures were set in some northern locations.

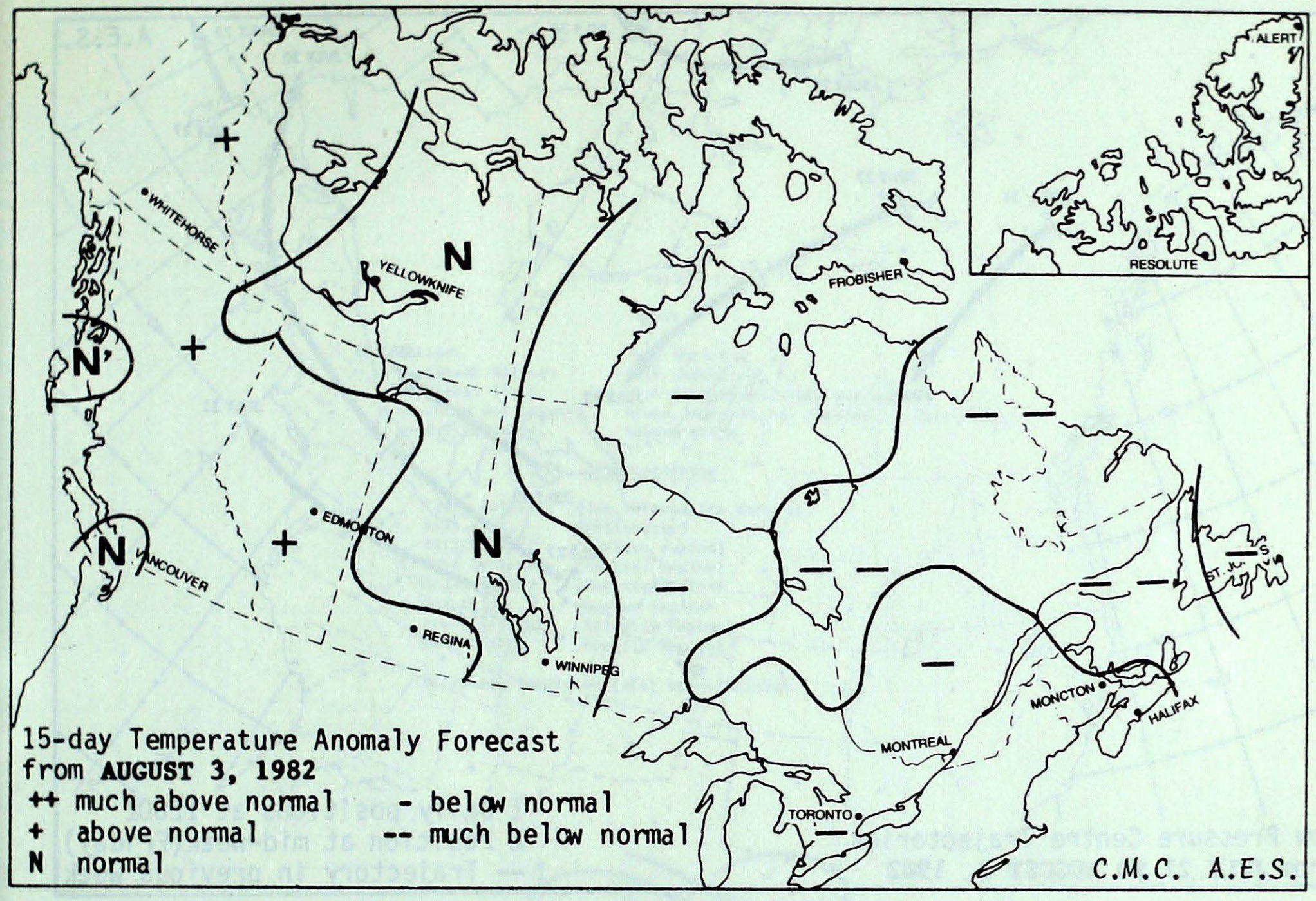
With sufficient moisture in the area, crops were reported to be doing well.

GROWING DEGREE-DAY SUMMARY TO JULY 31, 1982

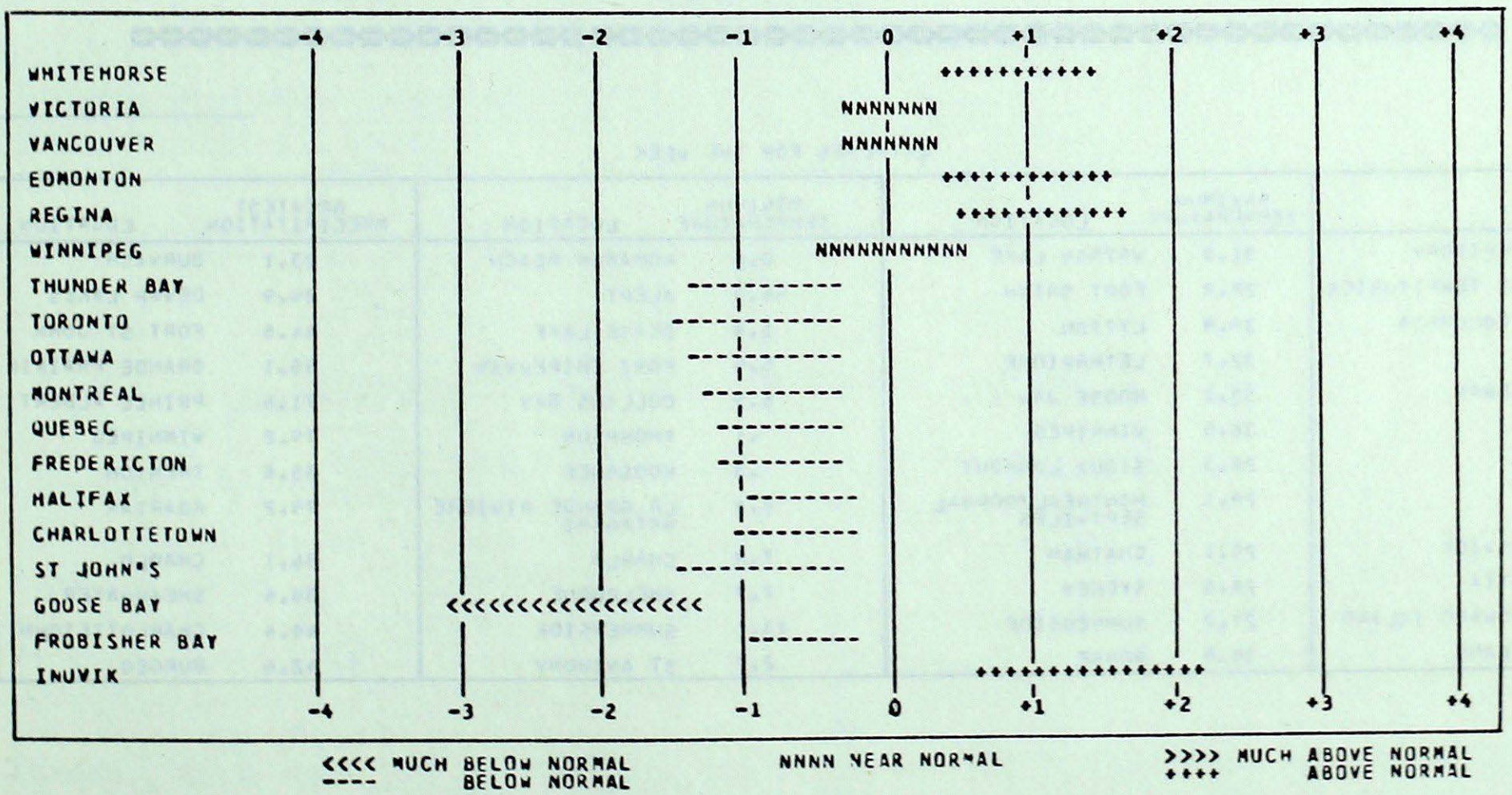


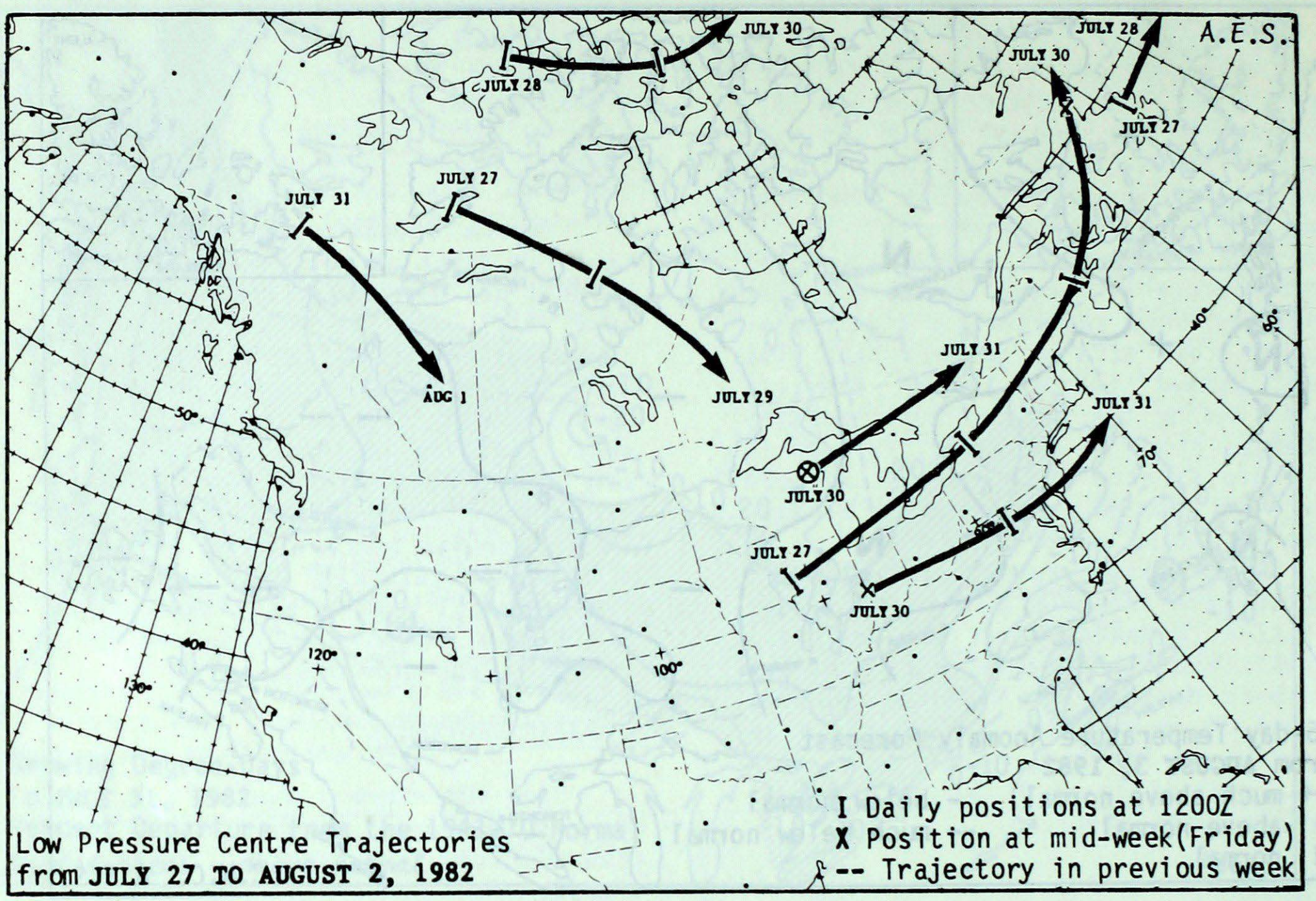
STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Whitehorse	313.0	32.0	588.0	22.0	104
Penticton	441.5	-28.5	1183.0	-44.0	96
Vancouver	370.5	-14.5	1041.5	-41.5	96
Edmonton	392.0	40.0	938.5	135.5	117
Calgary	340.5	-17.5	770.0	13.0	102
Regina	421.0	-10.0	958.0	21.0	102
Saskatoon	418.5	-9.5	873.5	-61.5	93
Winnipeg	467.0	10.0	1047.5	46.5	105
Thunder Bay	382.0	-5.0	789.0	16.0	102
Windsor	545.0	10.0	1435.5	54.5	104
Toronto	495.0	6.0	1148.0	-28.0	98
Ottawa	494.5	9.5	1229.0	75.0	106
Montréal	490.5	-11.5	1220.5	36.5	103
Québec	431.5	-9.5	973.0	6.0	101
Fredericton	450.0	10.0	974.0	13.0	101
Halifax	398.0	-4.0	738.0	-78.0	90
Charlottetown	431.0	14.0	762.5	-24.5	97
St. John's	330.0	11.0	419.5	-92.5	82

TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR AUG 3 1982 TO AUG 17 1982





Low Pressure Centre Trajectories
from **JULY 27 TO AUGUST 2, 1982**

EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	31.0	WATSON LAKE	0.0	KOMAKUK BEACH	23.1	BURWASH
NORTHWEST TERRITORIES	28.0	FORT SMITH	-6.3	ALERT	29.9	DEWAR LAKES
BRITISH COLUMBIA	38.8	LYTTON	1.8	DEASE LAKE	44.6	FORT ST JOHN
ALBERTA	32.7	LETHBRIDGE	5.5	FORT CHIPEWYAN	85.1	GRANDE PRAIRIE
SASKATCHEWAN	33.1	MOOSE JAW	6.9	COLLINS BAY	71.6	PRINCE ALBERT
MANITOBA	30.5	WINNIPEG	.1	THOMPSON	79.2	WINNIPEG
ONTARIO	28.3	SIOUX LOOKOUT	.8	MOOSONEE	55.8	TRENTON
QUEBEC	28.1	MONTREAL/DORVAL SEPT-ILES	0.0	LA GRANDE RIVIERE MATAGAMI	79.2	KOARTAK
NEW BRUNSWICK	29.1	CHATHAM	7.8	CHARLO	56.1	CHARLO
NOVA SCOTIA	28.0	SYDNEY	7.7	SHELBURNE	38.4	SHEARWATER
PRINCE EDWARD ISLAND	27.2	SUMMERSIDE	13.1	SUMMERSIDE	40.4	CHARLOTTETOWN
NEWFOUNDLAND	30.8	GOOSE	2.7	ST ANTHONY	42.6	BURGEO

CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. AUGUST 3, 1982

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
YUKON						
Burwash	14	1	28	1	23.1	12.0
Dawson	14	- 1	27	2	7.7	- 8.7
Faro	M	X	M	M	M	X
Komakuk Beach	6	- 1	11	0	10.6	- 2.2
Mayo A	15	1	28	3	17.4	7.6
Shingle Point	8	- 1	14	0	7.1	- 3.5
Teslin	M	X	22P	5P	M	X
Watson Lake	17	2	31	6	1.6	- 8.5
Whitehorse	15	1	31	4	15.9	8.0
NORTHWEST TERRITORIES						
Cape Parry	6	1	11	2	12.0	7.0
Cape Young	5	- 1	15	- 2	7.6	- 0.3
Clinton Point	7	0	17	2	7.8	1.3
Contwoyto Lake	M	M	M	M	M	M
Coppermine	8	- 2	19	0	4.4	- 4.6
Fort Reliance	11	- 2	22	3	9.9	5.3
Fort Simpson	15	- 1	25	5	M	M
Fort Smith	15	0	28	6	16.0	5.4
Hay River	14	- 2	27	6	8.9	2.3
Inuvik	10	- 2	17	- 1	8.4	- 3.6
Lady Franklin Point	4	- 1	12	0	8.2	2.7
Nicholson Peninsula	6	- 1	13	0	15.2	8.8
Norman Wells	13	- 2	28	7	3.9	- 6.6
Port Radium	M	X	M	M	M	X
Robertson Lake	M	X	M	M	M	X
Tuktoyaktuk	9	- 1	16	3	5.2	- 4.2
Yellowknife	14	- 2	20	8	6.7	0.2
Baker Lake	8	- 3	15	3	13.2	2.1
Coral Harbour	6	- 3	13	0	M	M
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	5	- 1	9	1	20.0	11.5
Pelly Bay	3	- 4	9	- 2	3.0	- 7.7
Rankin Inlet	9	X	22	4	1.8	X
Shepherd Bay	4	- 4	9	- 1	19.0	9.7
Alert	2	- 2	9	- 6	4.3	- 1.2
Broughton Island	4	- 2	12	- 2	3.0	- 0.2
Cape Dorset	5	X	13	- 1	M	X
Cape Dyer	4	- 3	11	- 1	10.8	0.9
Cape Hooper	2	- 3	9	- 3	12.6	9.5
Clyde	4	- 1	11	0	11.2	5.1
Dewar Lakes	2	- 5	6	- 1	29.9	22.0
Eureka	3	- 2	8	1	0.0	- 2.8
Frobisher Bay	6	- 2	13	2	28.6	14.3
Gladman Point	4	- 2	11	0	18.4	11.3
Hall Beach	5	- 1	10	0	11.2	3.3
Longstaff Bluff	4	- 4	10	0	19.0	12.1
Mackar Inlet	0	- 6	7	- 2	9.8	3.1
Pond Inlet	4	X	10	1	0.0	X
Resolute	2	- 2	8	- 2	2.4	- 3.7
Byron Bay	6	- 2	11	2	8.0	- 3.9
Cambridge Bay	5	- 3	12	1	18.7	10.4
Mould Bay	2	- 2	6	- 4	5.2	0.0
Sachs Harbour	3	- 1	7	- 3	10.2	5.0
BRITISH COLUMBIA						
Abbotsford	17	0	32	12	7.8	2.7
Alert Bay	15	0	27	9	3.2	- 3.4
Amphitrite Point	14	X	17	11	M	X
Blue River	M	X	M	M	M	X
Bull Harbour	13	- 1	18	9	2.4	- 6.4
Burns Lake	17	X	31	6	0.0	X
Cape Scott	13	- 1	16	10	8.5	- 6.4
Cape St James	13	0	19	10	1.2	- 8.9
Clinton	M	X	M	M	M	X
Comox	19	1	31	14	2.6	- 1.0
Cranbrook	21	2	33	10	5.0	- 1.5
Dease Lake	16	2	29	2	0.0	- 9.3
Estevan Point	M	M	M	M	M	M
Ethelda Bay	14	X	22	6	M	X
Fort Nelson	18	1	34	9	25.8	15.8
Fort St John	18	1	32	8	44.6	32.5
Hope	18	X	34	13	9.2	X
Kamloops	22	1	37	14	14.7	12.7
Langara	11	- 2	13	9	4.8	-12.4
Lytton	22	- 2	39	13	12.8	11.0
Mackenzie	M	X	32P	9P	M	X
McInnes Island	15	0	20	11	1.6	-15.3
Nanaimo A	18	X	33	12	M	X
Penticton	21	1	32	13	0.4	- 5.9
Port Alberni	M	X	M	M	M	X
Port Hardy	15	1	25	10	1.4	- 5.6
Prince George	19	4	31	10	17.6	5.1
Prince Rupert	13	0	22	8	0.4	-22.1
Puntzi Mountain	M	X	M	M	M	X
Quesnel	19	3	32	12	12.0	3.1
Revelstoke	18	- 1	28	10	23.1	12.5
Sandspit	15	0	21	11	1.6	- 9.3
Smithers	20	4	33	6	0.0	- 7.6
Stewart	17	X	30	9	0.0	X
Terrace	20	3	35	11	0.0	- 9.0
Vancouver	18	0	27	13	2.8	- 1.5
Victoria	16	0	27	11	4.8	0.8
Williams Lake	18	1	30	10	23.2	12.1
ALBERTA						
Banff	17	2	30	7	4.0	- 6.1
Calgary	19	2	29	9	1.6	-14.8
Cold Lake	18	2	28	11	28.7	5.8
Coronation	18	1	31	8	23.2	9.5
Edmonton Intl	18	2	30	10	1.2	-16.3
Edmonton Namao	19	2	29	11	0.0	-16.4
Edson	17	2	31	8	38.8	9.7
Fort Chipewyan	16	1	26	6	M	M
Fort McMurray	17	1	26	6	12.6	- 6.1
Grande Prairie	17	1	31	7	85.1	73.0
High Level	16	2	30	6	26.8	9.0
Jasper	17	2	30	8	26.4	17.5
Lac La Biche	M	X	M	M	M	X
Lethbridge	21	2	33	10	0.0	-10.2
Medicine Hat	21	1	32	10	5.6	- 2.8
Peace River	18	2	32	9	51.8	42.6
Red Deer	18	2	28	8	17.6	- 1.0
Rocky Mountain House	17	2	28	8	25.0	2.5
Slave Lake	17	1	27	9	49.0	34.8
Vermilion	19	2	29	11	33.7	18.8
Whitecourt	17	2	30	9	35.9	13.5
SASKATCHEWAN						
Broadview	20	X	30	9	12.8	X
Buffalo Narrows	17	1	28	10	M	M
Collins Bay	14	X	24	7	19.8	X
Cree Lake	14	X	27	10	38.2	X
Eastend Cypress	M	X	M	M	M	X
Estevan	21	1	33	11	1.2	- 8.9
Hudson Bay	18	0	28	10	M	M
Kindersley	20	1	32	10	18.0	10.4
La Ronge	16	1	28	10	35.2	20.0
Meadow Lake	17	X	27	8	19.4	X
Moose Jaw	22	2	33	9	1.2	-10.1
Nipawin	17	X	27	11	23.4	X
North Battleford	19	1	32	9	35.1	23.4
Prince Albert	18	0	29	9	71.6	58.0
Regina	20	1	32	8	0.8	-12.2
Rockglen	M	X	M	M	M	X
Saskatoon	20	1	32	9	46.8	32.6
Swift Current	19	0	31	8	M	M
Uranium City	14	- 1	23	8	5.8	- 3.0
Wynyard	20	X	30	10	3.5	X
Yorkton	19	0	28	10	9.8	- 0.7
MANITOBA						
Bissett	18	X	27	8	17.8	X
Brandon	19	0	30	9	1.7	-15.0
Churchill	11	- 1	25	4	2.0	-11.8
Dauphin	19	0	27	12	38.7	25.5
Gillam	14	X	27	3	26.4	X
Gimli	19	0	28	12	35.0	21.8
Grand Rapids	M	X	M	M	M	X
Island Lake	17	X	26	7	M	X
Lynn Lake	16	1	27	8	4.3	- 6.6
Norway House	17	X	27	5	13.8	X
Pilot Mound	19	1	30	9	4.6	- 6.6
Portage	19	0	30	11	77.8	65.9
The Pas	17	0	28	9	11.8	- 0.4
Thompson	15	1	27	0	10.2	- 2.8
Winnipeg	20	0	31	10	79.2	63.9
ONTARIO						
Armstrong	16	0	26	4	M	M
Atikokan	17	1	26	8	5.6	-15.5
Barrie	M	X	M	M	M	X
Big Trout Lake	15	- 1	25	5	26.2	0.4
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	16	- 2	27	3	M	M
Geraldton	15	0	27	4	15.0	- 3.3
Gore Bay	19	- 1	26	12	19.0	0.7
Kapuskasing	15	- 2	27	1	5.3	-14.1
Kenora	19	- 1	27	10	15.5	- 7.4
Kingston	19	- 1	26	13	M	M
Lansdowne	16	- 1	26	5	32.6	11.4
London	20	- 1	27	13	42.5	23.5
Moosonee	14	- 2	27	1	M	M
Mount Forest	M	M	25P	9P	M	M
Muskoka	18	- 1	26	9	M	M
Nagagami	M	X	M	M	M	X
North Bay	17	- 2	25	9	18.0	- 1.6
Ottawa	19	- 2	28	13	40.0	21.2
Petawawa	17	X	27	5	10.6	
Pickle Lake	16	- 1	26	2	12.0	-1
Red Lake	17	- 2	27	8	24.7	
Simcoe	M	M	25P	12P	M	
Sioux Lookout	17	- 1	28	7	9.3	-1
Sudbury	17	- 1	26	9	8.4	-
Thunder Bay	17	- 1	28	5	12.9	-
Timmins	15	- 2	27	3	M	
Toronto	20	- 1	28	13	22.4	
Trenton	19	- 2	27	13	55.8	4
Upsala	M	X	M	M	M	
Wawa	14	X	23	5	4.7	
Wiarton	17	- 2	25	10	31.0	1
Windsor	22	- 1	28	16	19.2	
QUÉBEC						
Bagotville	16	- 2	27	3	26.0	
Baie Comeau	15	- 2	24	4	27.0	
Blanc Sablon	12	- 1	20	2	21.2	-
Border	M	M	M	M	M	
Chevery	M	X	M	M	M	
Chibougamau	15	X	25	2	13.4	
Gaspé	16	X	27	5	71.8	
Grindstone Island	17	- 1	24	11	26.9	1
Inoucdjouac	8	- 2	14	5	24.2	1
Kuujjuaq	13	1	25	5	19.6	
Lac Eon	M	X	M	M	M	
Grande Riviere	12	X	23	0	30.7	
Maniwaki	17	- 1	28	5	1.2	-1
Matagami	14	X	28	0	M	
Mont-Joli	16	- 2	26	7	27.3	1
Montréal	20	- 2	28	11	52.4	3
Natashquan	15	1	24	7	33.2	
Nitchequon	14	0	24	2	18.6	-1
Parent	M	X	M	M	M	
Port Menier	M	M	M	M	M	
Poste-de-la-Baleine	9	- 2	22	3	9.2	-1
Québec	17	- 2	27	9	35.0	1
Rivière du Loup	M	M	M	M	M	
Roberval	17	- 2	27	4	27.0	
Schefferville	14	2	25	3	6.9	-1
Sept-Iles	15	0	28	8	18.0	-
Sherbrooke	16	- 2	25	7	37.9	-1
Ste Agathe des Monts	17	- 1	27	6	5.2	-2
Val D'Or	15	- 2	26	2	4.5	-2
NEW BRUNSWICK						
Charlo	17	- 1	27	8	56.1	3
Chatham	19	0	29	10	M	
Fredericton	19	- 1	28	11	25.2	
Moncton	18	0	26	12	32.2	1
Saint John	17	0	25	10	27.4	
St Stephen	M	X	M	M	M	
NOVA SCOTIA						
Amherst	M	X	M	M	M	
Eddy Point	17	X	26	11	20.9	
Greenwood	18	- 1	26	10	29.6	1
Sable Island	16	- 1	20	11	26.4	
Shearwater	18	0	25	13	38.4	1
Shelburne	16	X	25	8	36.2	
Sydney	17	- 2	28	10	27.8	
Truro	M	M	27P	11P	M	
Yarmouth	16	- 1	22	10	32.0	1
PRINCE EDWARD ISLAND						
Charlottetown	18	- 1	27	14	40.4	2
East Point	M	X	M	M	M	
Summerside	19	0	27	13	31.6	1
NEWFOUNDLAND						
Argentia	14	X	18	8	10.1	
Badger	M	X	M	M	M	
Bonavista	14	- 2	26	7	9.4	
Burgeo	14	- 1	20	8	42.6	1
Cape Race	M	X	M	M	M	
Comfort Cove	14	- 4	27	5	34.6	1
Daniel's Harbour	14	- 2	20	7	26.0	
Deer Lake	14	- 4	28	4	M	
Gander	15	- 2	26	6	18.4	
Port aux Basques	14	- 1	23	9	32.7	1
St Albans	15	- 2	25	5	M	
St Anthony	12	X	25	3	M	
St John's	14	- 2	26	6	13.4	-
St Lawrence	14	0	25	7	25.8	
Stephenville	15	- 2	24	9	29.6	1
Battle Harbour	11	- 1	19	4	9.8	-
Cartwright	14	1	26	5	29.5	1
Churchill Falls	15	1	27	5	26.2	-
Goose	18	1	31	8	6.6	-1
Hopedale	13	2	24	7	7.1	-1
Wabush Lake	14	1	25	3	9.4	-1

P = extreme value based on less than 7 days X = no normal due to short period M = not available at press time