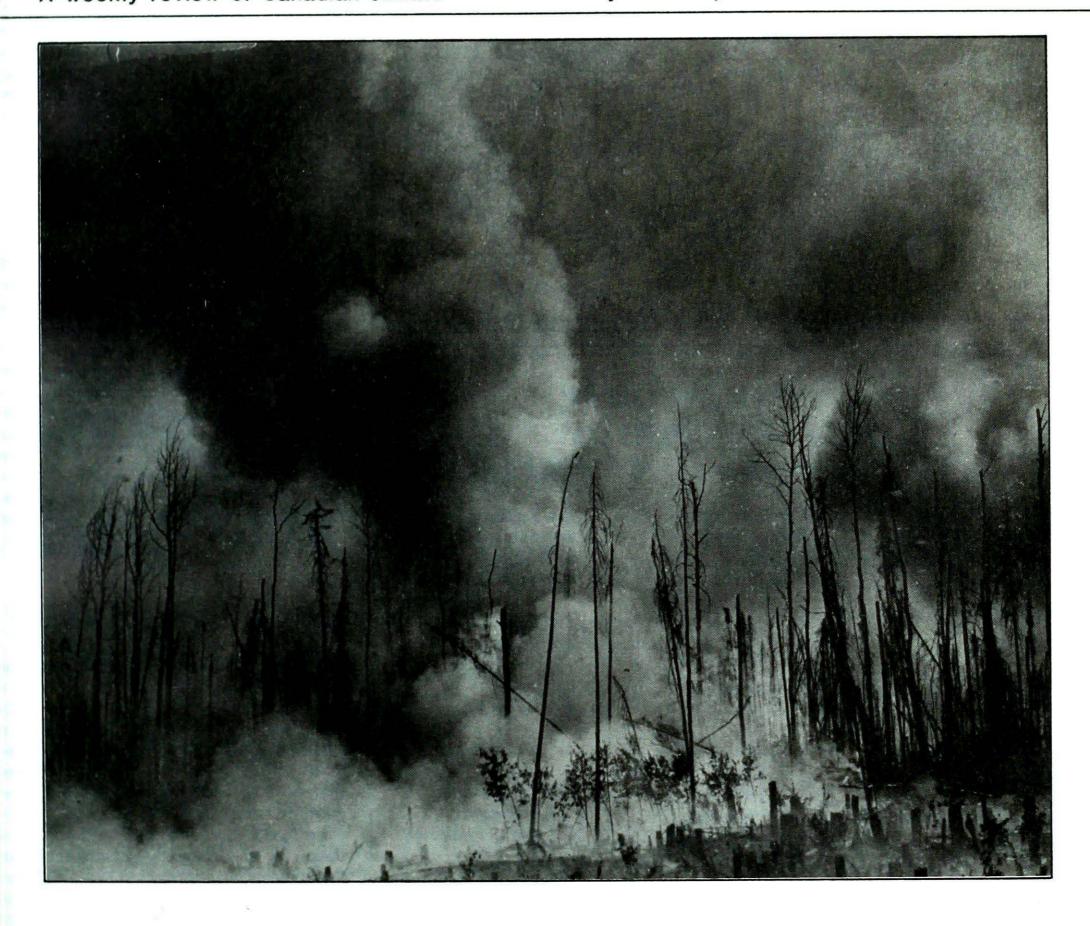
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A weekly review of Canadian climate

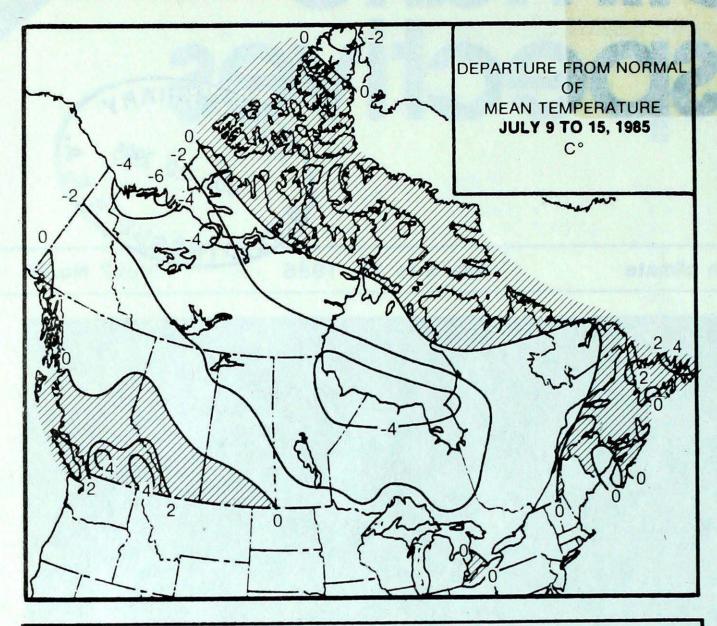
July 9 to 15, 1985

Vol.7 No.28



- Raging forest fires in B.C. ease a little
- Drought in southern Alberta and Saskatchewan
 - some crops ploughed under
 - no hay or pasturelands





WEEKLY TEMPERATURE EXTREMES (°C)

	MAXIMUM	MINIHUM					
YUKON TERRITORY		- 1.4 Komakuk Beach - 4.4 Broughton Island					
NORTHWEST TERRITORIES		- 2.7 Comox					
BRITISH COLUMBIA ALBERTA	38.7 Lytton 38.0 Medicine Hat	0.0 Fort Chipewyan					
SASKATCHEWAN	37.9 Estevan	2.2 Cree Lake					
MANITOBA	29.5 Portage la Prairie	1.4 Churchill Thompson					
ONTARIO	31.0 Windsor	0.5 Wawa					
QUÉBEC	28.9 Bagotville	1.3 Quaqtaq					
NEW BRUNSWICK	28.4 Charlo Chathem	6.7 St. Stephen					
NOVA SCOTIA	29.0 Greenwood	9.3 Yarmouth					
PRINCE EDWARD ISLAND	26.8 Summerside	12.9 Summerside					
NEWFOUNDLAND	29.4 Deer Lake	4.2 Battle Harbour					
	ACCOCC THE NATION						

ACROSS THE NATION

Warmest mean	temperature	23.6	Windsor, ONT
Coolest mean	temperature	0.8	Alert, NWT

ACROSS THE COUNTRY ...

PER THAT PROPERTY

Yukon and Northwest Territories

The temperatures were 2 to 6 degrees below normal over the Yukon and the Mackenzie Valley but averaged a few degrees above normal over the eastern areas and the High Arctic. A wide range of precipitation fell across the North. Heavy amounts of rainfall were received in the Yukon (42 mm at Burwash). The wet weather kept the forest fire danger to a minimum; only 4 fires were burning in the Yukon, none of them of any significant size.

British Columbia

Although the searing heat of the past week subsided somewhat, the hot and dry weather continued in southern British Columbia. Major forest fires in the southeastern part of the Province were contained but still not under control. Many forest stands in the area are tinder dry and the potential for fires is extreme. Majority of the locations in the Okanagan Valley had little or no rain in the last 3 to 4 weeks. Some rain (10-20 mm) fell north of Fort Nelson.

Prairies

Severe weather plagued the Prairie Provinces. On July 12, a tornado ripped through the community Mazenod in southwestern Saskatchewan. Crops were badly damaged, a skating rink was flattened and a few machine sheds were destroyed On July 13-14, golfballsize hail covered the ground 5 cm deep in some southern Saskatchewan and Manitoba communities. Cooler temperatures have helped eased the forest fire danger in southern Alberta Beneficial rains fell in southwestern Saskatchewan but some crops on dryland farms are now beyond recovery especially in southern Alberta. Lethbridge received a meagre 3.8 mm of rain since June 1.

Ontario

The weather was cool and wet across the Province. The temperatures were nearly 3° below normal in northern Ontario. A warming trend brought near normal temperatures to southern Ontario by the weekend and the mercury reached the mark at some southwestern locations (31° at Windsor). Weather systems crossing the Great Lakes deposited 10 to 50 mm of precipitation; Wawa received the most, 54 mm. On July 15, a small tornado touched down northwest of Uxbridge. Falling trees damaged a few houses and electrical services to about 300 residents were disrupted.

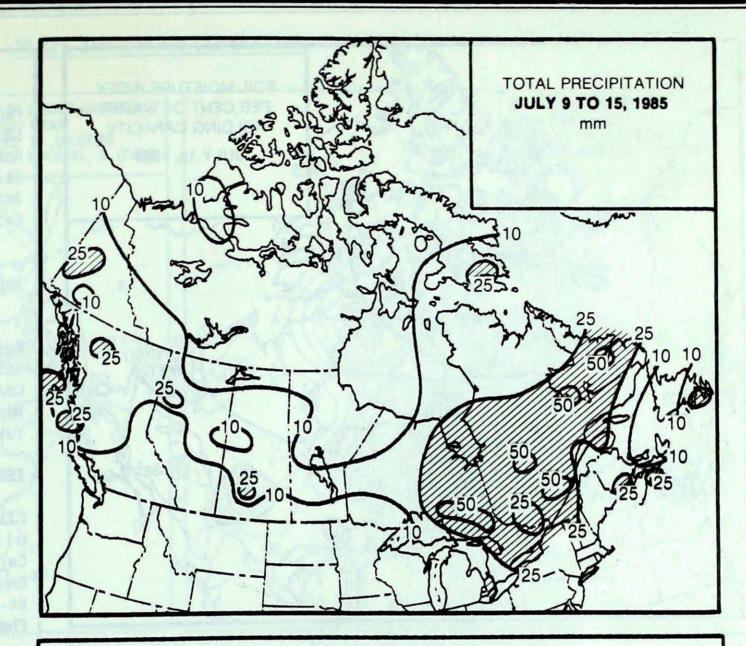
Quebec

Mean temperatures were below normal everywhere except in the Gaspesie (near normal) and Lac St-Jean (0.5°C above normal) regions. Precipitation totals of 41 mm were measured at Kuujjuarapik and 58 mm at Québec City. On July 14, 35 mm of rain was recorded at Ste. Agathe and 26 mm at Chibougameau. By the end of the week two forest fires where reported in activity, bringing the total number since the beginning of the season to 554 with a burnt area of 2,692 hectares.

Atlantic Provinces

cm evan pler the

Normal to above normal temperatures and coastal fog were reported. New Brunswick received heavy showers on the 10th. Thunderstorms on the following day produced widespread power outages in New Brunswick and a house was hit by lightning and burned. Although precipitation amounts were light in Nova Scotia, the harvesting of forage crops is still slow as farmers are hampered by damp land. Warm weather persisted over Newfoundland and Labrador. On July 8, a fair amount of precipitation fell (30 mm) along the Newfoundland south coast and Goose Bay. The rain was welcomed by fire fighters in Labrador. The wet weather has lessened the potential for further fire outbreaks.



HEAVIEST WEEKLY PRECIPITATION (mm)

YUKON NORTHWEST TERRITORIES BRITISH COLUMBIA ALBERTA

SASKATCHEWAN MANITOBA ONTARIO QUEBEC

NEW BRUNSWICK
NOVA SCOTIA
PRINCE EDWARD ISLAND
NEWFOUNDLAND

41.6 Burwash

31.1 Frobisher Bay

48.5 Dease Lake

27.8 Peace River

39.4 Swift Current

14.3 Gimli

60.1 Wawa

81.2 Chibougamau-Chapais

45.8 Charlo

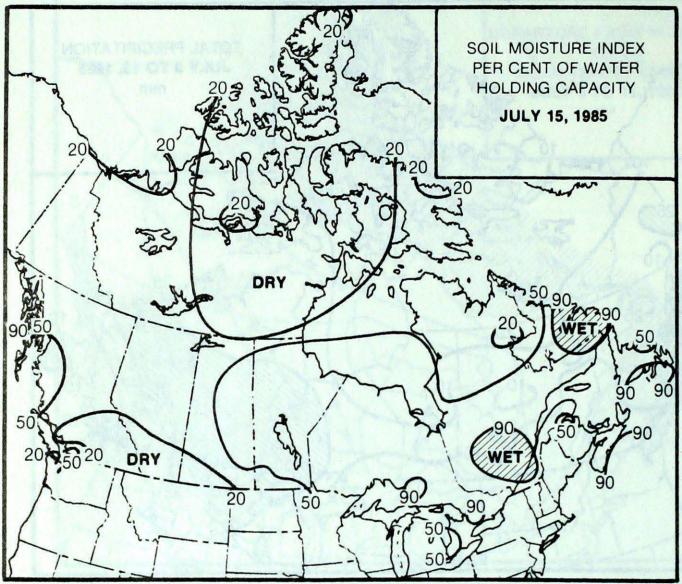
45.5 Shearwater

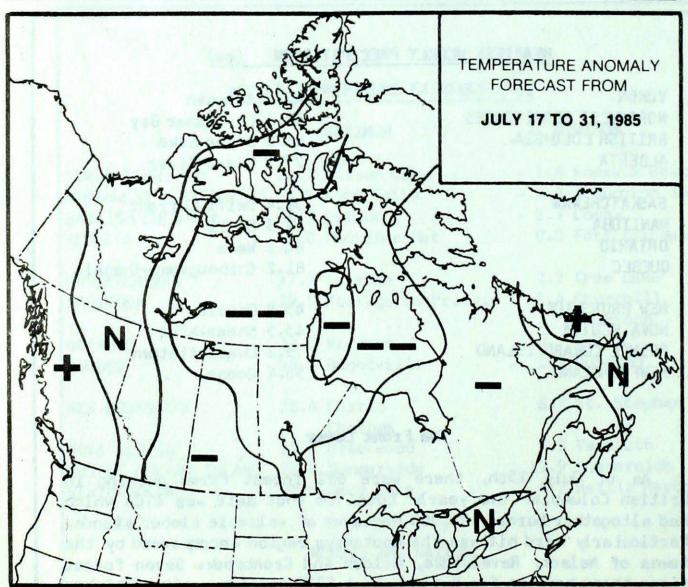
5.2 Charlottetown

56.4 Goose

The Front Cover

As of July 15th, there were 692 forest fires burning in British Columbia. The yearly total to that date was 1706 which had altogether burned 198,000 hectares of valuable timber stands. Particularly hard hit was the Kootenays region encompassed by the towns of Nelson, Revelstoke, Golden and Cranbrook. Seven forest fires there have so far burned about \$700 million worth of timber covering an area more than half the size of Prince Edward Island, and one fire fighter lost his life. Over the weekend, several factors combined to ease the wildfire situation - daytime temperatures cooled from the mid-30's to about 28°C, winds diminished, and there was no lightning. However, the weather continues very dry in the region with little or no rain since the last half of June, and the fire hazard is still in the extreme range.





Temperature Anomaly Forecast

- much above normal above normal
- normal
- below normal
- much below normal

This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

CLIMATIC PERSPECTIVES VOLUME 7

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Unsolicited articles are welcome but should be at maximum about 1500 words in length. They will be subject to editorial change without notice due to publishing time constraints. Black and white photographs can be used, but not colour. The contents may be reprinted freely with proper credit.

The data shown in this publication are based on unverified reports Canadian 225 approximately synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of the Atmospheric Environment Service

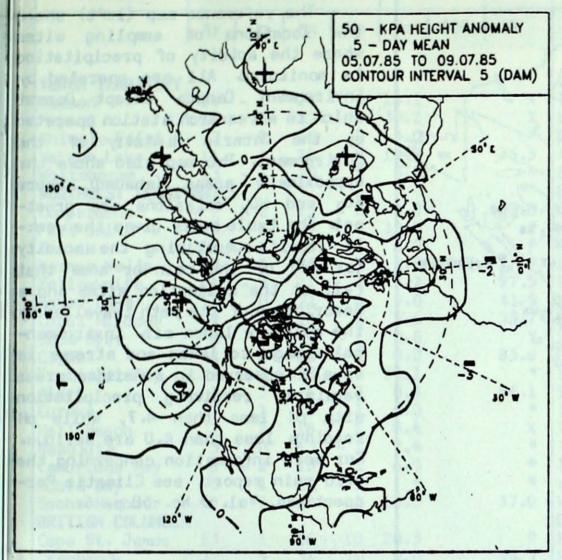
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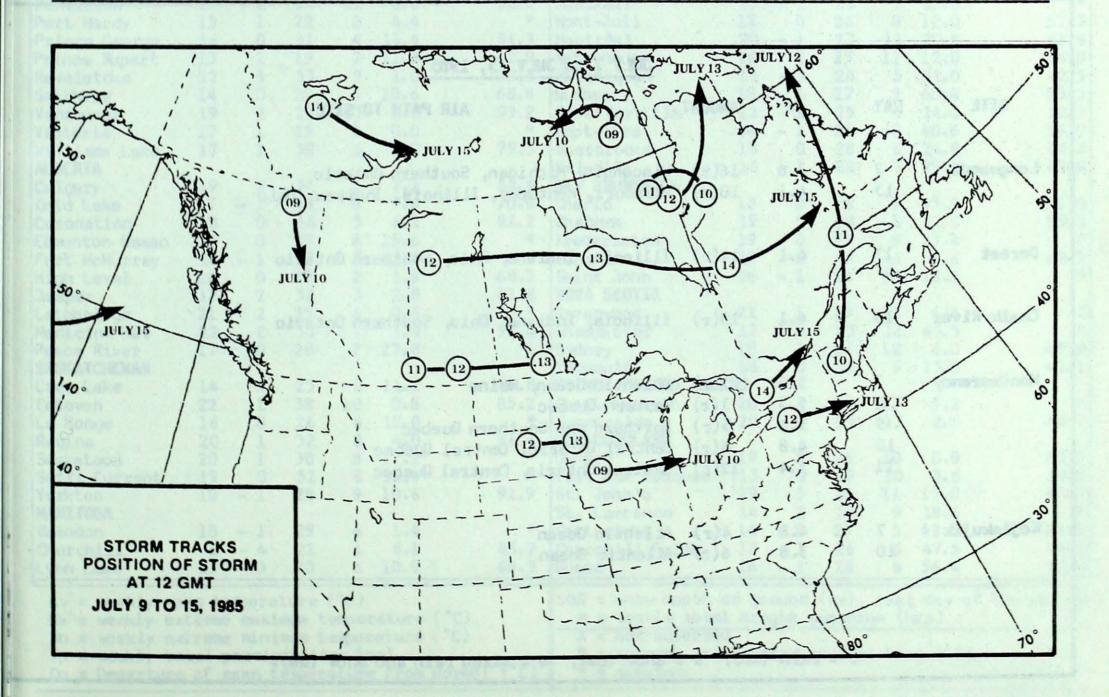
50 KPa ATMOSPHERIC CIRCULATION

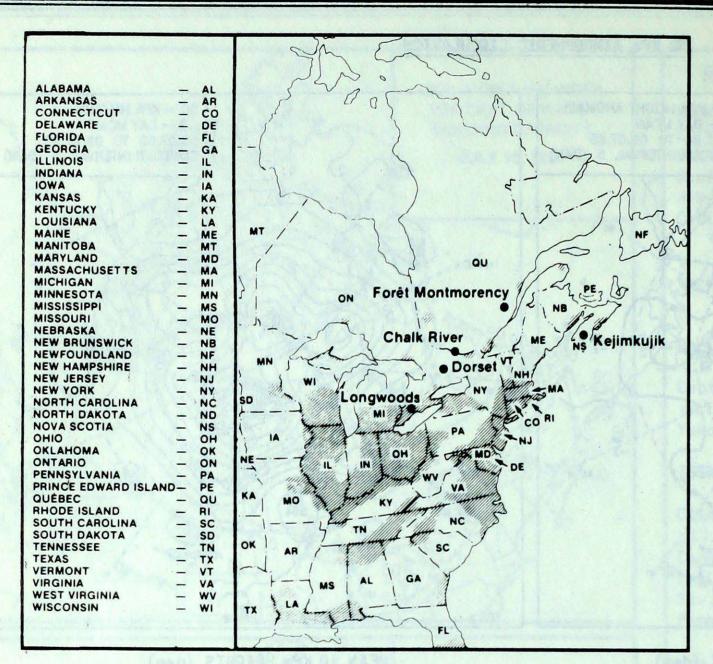


50 - KPA HEIGHTS
5 - DAY MEAN
05.07.85 TO 09.07.85
CONTOUR INTERVAL 5 (DAM)

MEAN 50 KPa HEIGHT ANOMALY (dam) July 5 to July 9, 1985

MEAN 50 KPa HEIGHTS (dam) July 5 to July 9, 1985





ACID RAIN REPORT

The reference map (left) shows the locations of sampling sites where the acidity of precipitation is monitored All are operated by Environment Canada except Dorset which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded) where 50_2 and $N0_X$ emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the rain or snow that fell at the collection sites and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

	· · ·								
				JULY 7 to JULY 13, 1985					
SITE	DAY	рН	AMOUNT	AIR PATH TO SITE					
Longwoods	7 13	3.6 4.1	16(r) 10(r)	Wisconsin, Michigan, Southern Ontario Missouri, Kentucky, Illinois, Indiana, Ohio					
Dorset	13	4.1	14(r)	Illinois, Indiana, Ohio, Southern Ontario					
Chalk River	13	4.1	13(r)	Illinois, Indiana, Ohio, Southern Ontario					
Montmorency	7 8 9 10 11	5.5 5.3 5.4 4.8 5.4	12(r) 1(r) 5(r) 6(r) 12(r)	Atlantic Ocean, Maine Eastern Quebec Northern and Southern Quebec Central Ontario, Central Quebec Central Ontario, Central Quebec					
Kejimkujik	7 10	4.8	4(r) 6(r)	Atlantic Ocean Atlantic Ocean					

STATISTICS

TEMPERATURE, PRECIPITATION AND BRIGHT SUNSHINE DATA FOR THE WEEK ENDING 0600 GHT JULY 16, 1985

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by set ited the ere et-

Av = weekly mean temperature (°C)
Mx = weekly extreme maximum temperature (°C)
Mn = weekly extreme minimum temperature (°C)
Tp = weekly total precipitation (mm)
Dp = Departure of mean temperature from normal (°C)

SOG = snow depth on ground (cm), last day of the period
H = weekly total bright sunshine (hrs)

X = not observed
P = extreme value based on less than 7 days
* = missing