

Heavy thunderstorms, some accompanied by funnel clouds or tornados, occurred in many areas across the country. Funnel clouds were reported at Fort St. John, British Columbia and in the Saint-Lawrence south of BaieComeau, Quebec. Tornados were reported at Winterburn on the western edge of Edmonton, Alberta and in southeastern New Burnswick. No significant damage was reported at any location.

Sixty-four fires were burning at week's end in northwestern Ontario as thunderstorm activity, combined with the hot yet dry conditons of the past week, started a rash of fires.

The highest temperature in the country was 37° at Estevan, Saskatchewan and the lowest was -3° at Broughton and Pond Inlet, Northwest Territories. Argentia, Newfoundland recorded the highest precipitation total, 79 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 cool wet weather that plagued the Yukon through June and early July finally broke on July 9th. The week began with temperatures 4° to 7° below normal. On July 9th warmer and drier air moved into the Yukon bringing temperatures into the mid twenties; by the llth Watson Lake reached 29°. The last time the mercury rose to these levels in the southern Yukon was May 25th.

Most precipitation occurred at the beginning of the period. Komakuk Beach recorded 21 mm.

Rivers in the southern Yukon are very high and there is some concern that the warm weather may increase snow and glacier melt. Forest fire incidence continues very low.

NORTHWEST TERRITORIES

Mean temperatures were above normal over most of the territories with the exception of the southeastern and northeastern Mackenzie District. Temperatures varied from 32° at Fort Simpson on July 11th to -3° at Broughton Point and Pond Inlet on the 7th and 5th respectively.

Precipitation was generally light except in the southern Mackenzie District and in the central Keewatin District where Baker Lake recorded 37.1 mm.

Hudson Bay and Hudson Strait are improving steadily and are 2 to 3 weeks ahead of normal. Lancaster Sound is mostly open water and Barrow Strait is breaking up. The route to Resolute is almost all open water. The Beaufort Sea is close to normal and some ships are at the drill sites.

BRITISH COLUMBIA

Cool wet weather returned to southern areas while most central and northern areas experienced warm dry conditions. Mean temperatures varied from 5° below normal at Penticton to 1.5° above normal at Terrace. Fort Nelson reached 32° on July 11th while Mackenzie fell to the freezing point on July 7th.

Weekly precipitation totals exceeded normal at most southern stations



with Castlegar recording 37.6 mm.

Heavy thunderstorms occurred in some northeastern areas on July 13th. Funnel clouds were reported at Fort St. John and a plane crash was attributed to the thunderstorms.

Hay is rotting in the fields in some southern areas. Many fruit tree diseases are in evidence and there will be few appricots this year.

PRAIRIE PROVINCES

The week began and ended with a barrage of thunderstorms. A tornado touched down in Winterburn on the western edge of Edmonton on the 13th but damage was limited to two farms. Precipitation totaled 48.9 mm at Fort Mc-Murray and 47.4 mm at Uranium City.

Cool weather invaded Alberta and western Saskatchewan and pushed mean temperatures almost 6° below those of the preceeding week. Warm weather remained in the rest of Saskatchewan and in Manitoba. The mercury reached 37° at Estevan.

Although mean temperatures may be below normal it is the sun that predominates and crops are reported to be doing well. The Peace River area is still short of moisture but crops in southern Alberta are doing exceptionally well.

ONTARIO

Hot, hazy and humid conditions prevailed across Ontario this week as July continued its near perfect vacation weather. In northern Ontario, Kapuskasing soared to 34° on the 7th breaking the old record of 32° set in 1936.

Precipitation totals exceeded nor-

ple scab. The forest fire situation has quickly gone from a low hazard rating to a high hazard one. Sixty-four fires were burning at week's end as thunderstorm activity during the hot yet mainly dry week in northwestern regions has created the worst picture in many weeks.

QUÉBEC

Precipitation was light but showers and thundershowers touched all regions. Funnel clouds were sighted in the Saint-Lawrence south of Baie-Comeau. Hail was reported in the Sherbrooke region on the 13th; precipitation of more than 40 mm on the same day at Sherbrooke and at Vald'or pushed the weekly accumulations to 61.7 mm and 51.4 mm respectively.

The airmass cooled in the northeast of the province resulting in below normal mean temperatures. Mean temperatures over most of the province were more than 3° above normal. The mercury reached 34° at Maniwaki.

ATLANTIC PROVINCES

Heavy thunderstorms struck southeastern New Brunswick on July 8th and there were unconfirmed reports of Tornadoes. Most damage was limited to a wooded area which was cleared by the storms. Precipitation was light over most of the Maritimes but weekly totals were much above normal in southern Newfoundland. Argentia reported 79 mm.

Mean temperatures were below normal over most of Newfoundland. The mercury fell to 3° at Hopedale and Cartwright on July 9th and 13th respectively. The airmass over most of the Maritimes remained warm and Fredricton

mal at only three stations. Trout Lake led with 29.4 mm.

Vegetable and fruit crops are doing very well although the heat and humidity caused some problems with apreached 33° on July 8th. Newfoundland is starting its first hay cut but the cool wet weather has forced farmers to wait for drier conditions.





CITY	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL		
Lad bally villigger adds (see	72 0	-26.0	368 5	-14 5	96		
whitehorse	1/2.0	-20.0	827.0	-82 0	91		
Penticton	141.0	-11.0	862 0	-02.0	104		
Vancouver	118.0	-14.0	725.0	162.0	128		
Edmonton	136.0	14.0	733.0	102.0	120		
Calgary	113.0	-4.0	557.0	41.0	100		
Regina	188.5	41.5	/93.5	140.5	122		
Saskatoon	161.0	16.0	757.5	105.5	116		
Winnipeg	194.0	34.0	755.0	51.0	107		
Thunder Bay	161.0	31.0	562.5	46.5	109		
Windsor	214.0	27.0	1124.5	91.5	109		
Toronto	194.0	31.0	793.5	-56.5	93		
Ottawa	204.5	37.5	866.5	30.5	104		
Montreal	202.5	30.5	871.5	17.5	102		
Ouebec	183.5	35.5	717.5	43.5	106		
Fredericton	191.0	47.0	757.5	92.5	114		
Halifax	159.5	21.5	588.0	36.0	107		
Charlottetown	151.0	10.0	636.0	125.0	124		
St John's	102.0	-3.0	425.0	127.0	143		

15 DAY TEMPERATURE ANOMALY FORECAST



Forecast Method

Analogue technique based on point prediction at 70 Canadian stations.

Temperature Scale

Each temperature class is designed to contain 20% of the historically observed 15 day means pertinent to specific location and time of year:

Station	Current Tempera	ature Anomaly Forecast
Whitehorse	Above Normal	From 0.4° to 1.4° above Normal
Victoria	Above Normal	From 0.3° to 1.0° above Normal
Vancouver	Near Normal	Within 0.3° Normal
Edmonton	Much Above Normal	More than 1.4° above Normal
Regina	Near Normal	Within 0.4° of Normal
Winnipeg	Below Normal	From 0.4° to 1.5° below Normal
Thunder Bay	Below Normal	From 0.4° to 1.2° below Normal

Toronto Ottawa Montreal Quebec Fredericton Halifax Charlottetown St. John's Goose Bay Frobisher Bay Inuvik Below Normal Much Below Normal Much Below Normal Below Normal Much Below Normal Much Below Normal Below Normal Below Normal Below Normal Below Normal Nuch Above Normal Near Normal

From 0.4° to 1.2° below Normal More than 1.4° below Normal More than 1.4° below Normal From 0.4° to 1.3° below Normal More than 1.3° below Normal More than 1.3° below Normal From 0.3° to 1.0° below Normal From 0.4° to 1.2° below Normal From 0.5° to 1.6° below Normal From 0.5° to 1.6° below Normal More than 1.2° above Normal More than 1.2° above Normal

Note: Anomaly denotes departure from the 1949-73 mean.

Atmospheric Circulation



July 6 to 12, 1981

7-day Mean 50 kPa Height Anomaly (in 5 dam intervals)July 6 to 12, 1981

A warm upper ridge was the predominant feature over central North America controlling the weather pattern across Canada. The surface storm track was displaced well north of its position of just a few weeks ago and as a result very warm air continued to infiltrate northward. At the surface, frontal waves and their associated low Two mean upper troughs plaqued both the west and east coasts; 50 KPa heights were well below normal. The southern half of British Columbia and Alberta endured cool unsettled weather conditions. Severe thunderstorm activity and tornados were reported in many areas of Alberta and British Columbia.

The Atlantic provinces reverted

pressure areas weakened as they approached the upper ridge position, or were deflected northeastwards across the prairies and Hudson Bay. Rainfall amounts varied widely; a common characteristic of the showery nature of summer precipitation.

back to the rapidly changing weather pattern of previous weeks. A series of low pressure systems approached from Hudson Bay and increased in strength as they phased with the mean upper trough. With the exception of Western Newfoundland and the Labrador coast, overall precipitation amounts were light. Heavy thunderstorms with hail and high winds were reported by some Maritime communities.

Andy Radomski



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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JULY 14, 1981

			Temperature (°C)			Precip. (mm)		an a		Temperature (°C)			Precip). (mm)		Temperature (°C)				Precip. (mm)		
-	Station		Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal	Station	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal	Station	Averoge	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
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P = extreme value based on less than 7 days

X - no normal due to short period

M = not available at press time

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