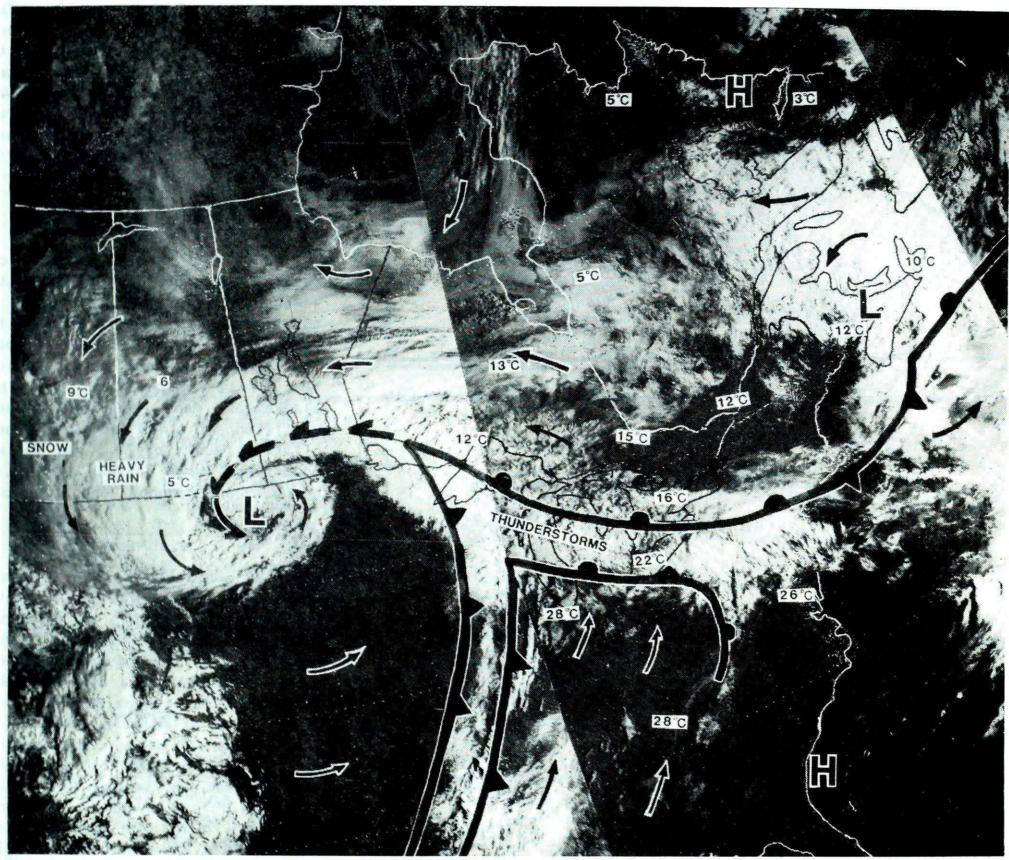
A weekly review of Canadian climate

September 23 to 29, 1986

Vol.8 No.39

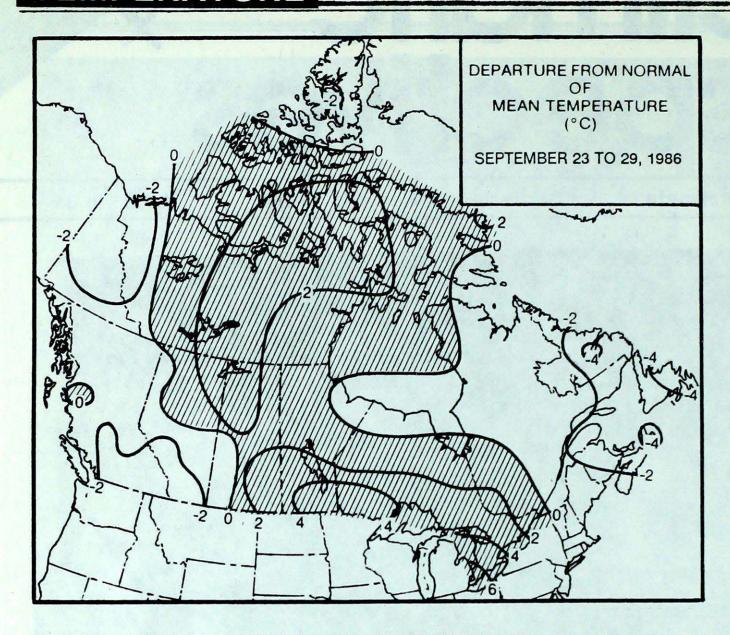


The weather picture across most of the country was unsettled, as seen by this NOAA 10 satellite photo of September 25, 1986. The weather system which gave heavy snow to southern Alberta this week is easily discernible. A very active warm front gave copious amounts of rain in the east.

- Major fall storm drenches the Prairies
- Record rains continue over Southern Ontario
- Heavy gales lash coastal Newfoundland



OCT 20 1986



WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	LYTTON	19	PRINCE GEORGE	-3
	DRURY CREEK	15	BEAVER CREEK	-15
	FORT SMITH	14	EUREKA	-28
	MEDICINE HAT	21	ROCKY MTN. HOUSE	-3
SASKATCHEWAN	ESTEVAN	25	MEADOW LAKE	-1
MANITOBA	WINNIPEG	24	GILLAM	-2
ONTARIO	WINDSOR	30	MOOSONEE	-2
QUEBEC	SHERBROOKE	22	SCHEFFERVILLE	-5
NEW BRUNSWICK	FREDERICTON	19	CHARLO	-3
NOVA SCOTIA	GREENWOOD	20	TRURO	-1
PRINCE EDWARD ISLAND C	HARLOTTETOWN	16	CHARLOTTETOWN	2
NEWFOUNDLAND	ARGENTIA	13	WABUSH LAKE	-4

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	22	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	-16	EUREKA	NWT

ACROSS THE COUNTRY...

Yukon and Northwest Territories

Winter-like weather arrived in the Yukon at the beginning of the period. By mid-week, daytime temperatures didn't climb above freezing. Copious amounts of rain and snow fell in the south. Whitehorse received 30 cm of snow, a new snowfall record for the month of September. Wind warnings were posted for the Mackenzie District. In the eastern Arctic it was very windy. Winds were gusting to 100 km/h on Baffin Island on the 26th and 27th. Temperatures in the high Arctic failed to rise above the freezing.

British Columbia

Southern areas experienced their first week of typical autumn weather - cool, dull and damp. In the north, fall colours are off the trees. Most areas received at least double their normal precipitation. The first significant snowfall blanketted many mountain passes. Penticton set a new September precipitation record of 62.2 mm. The wet conditions have delayed harvesting operations throughout the province.

Prairies

The week began on a pleasant note, but the weather deteriorated thereafter. A major storm curved northward out of Colorado, giving heavy rain to the southwestern portions of the prairies from September 24 to 26. The system produced more than 150 mm of rain in southwestern while southeastern Saskatchewan. Alberta received over 100 mm. Consul Saskatchewan was swamped with 157.5 mm of rain in a 48-hour period ending on the 26th. This week, Medicine Hat received 116 mm of rain, making this the wettest month ever recorded, 194 mm. Records date back to the 1880s. Thunderstorms developed along a warm front stretching eastwards. On September 26, a cloudburst deluged Vogar, Manitoba, with 71 mm of rain in one hour. In Calgary more than 20 cm of snow fell during the evening of the 25th. In the foothills, snow depths were more than one metre. Two more week's of good weather is needed to complete this year's harvest.

Ontario

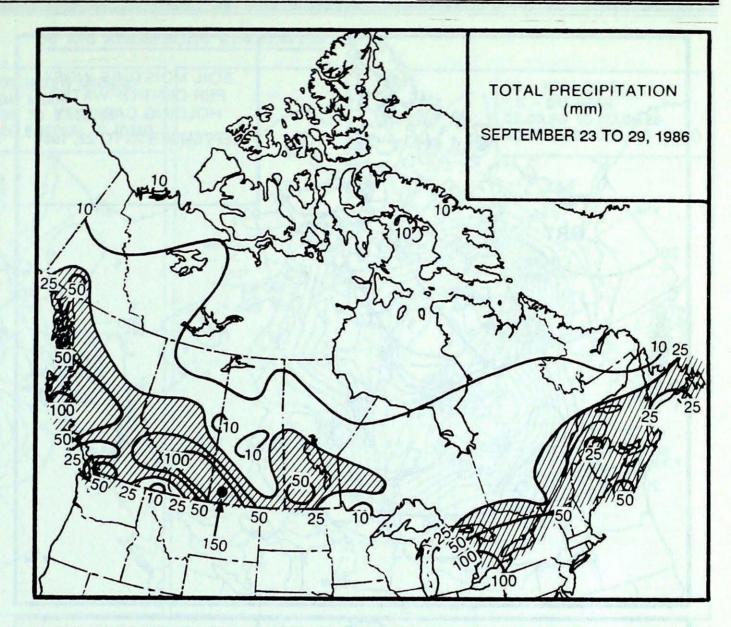
Although is was mild, disturbances continued to affect the province, producing substantial and unwanted rainfalls. The August-September period is the wettest on record at Toronto. Heavy thunderstorms occurred on a number of days. On September 23, Windsor was deluged with 69 mm of rain. On Friday the 26th, thunderstorms generating frequent lightning strikes, power outages in parts of southern Ontario. Severe thunderstorms on September 29 produced torrential downpours and hail. During the evening hours of the same day, storms redeveloped and a possible tornado touched down just west of Toronto. London was deluged with 89 mm of rain. Several weeks of dry weather are urgently needed if any crops are to be harvesting this fall. More details on this page.

Québec

Although there were sunny days, weather conditions were quite variable. Heaviest rainfalls were confined to the Ottawa and St. Lawrence Valleys, with amounts ranging between 20 and 30 millimetres. Temperatures in the south manage to reach the twenties, but were only in the single digits in the north and east. The Montréal International Marathon was held on Sunday September 28 under mainly cloudy skies, with a few showers along the route.

Atlantic Provinces

The weather continued to be cool and wet, as a progression of a storm funnelled through the region. Heaviest rains occurred during the first half of the period in the Maritimes, but during the latter part in Newfoundland. Daily record low temperatures were also reported. An intensifying disturbance hit Newfoundland over the weekend. In addition to heavy rains, winds in the wake of the system gusted to 120 km/h at Port-aux-Basques; offshore drilling rigs on the Grand Banks were buffetted by winds reaching 157 km/h. As the system progressed eastwards, cooler and more settled weather conditions returned.

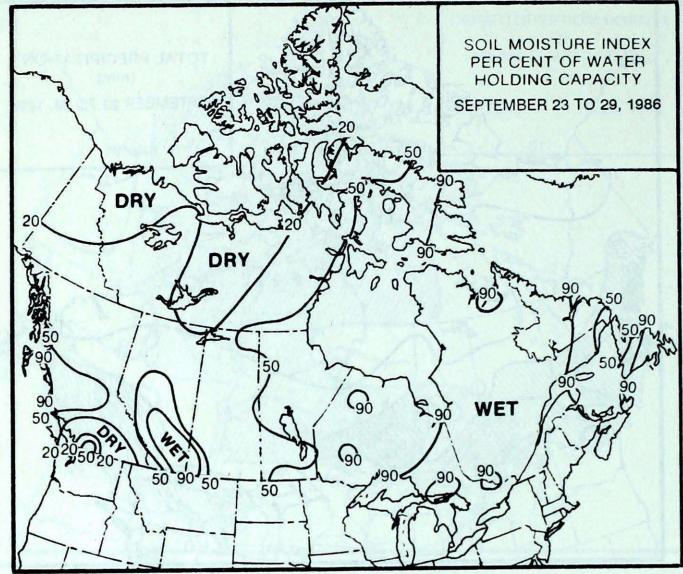


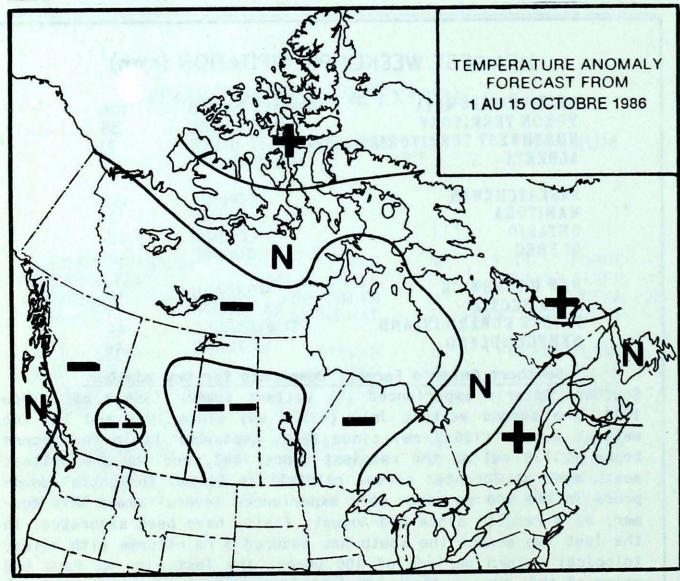
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	MCINNES ISLAND QUEIT LAKE LONGSTAFF BLUFF MEDICINE HAT	106 55 21 116
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	CONSUL VOGAR LONDON QUEBEC	158 71 115 31
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	MONCTON YARMOUTH SUMMERSIDE ST JOHNS	40 57 44 46

Southern Ontario Farmers Desperate for Dry Weather

Southern Ontario experienced the wettest summer (354.9 mm) since 1928, the second wettest July (122.3 mm) since 1938 and the 2nd wettest August (186.9 mm) since 1840. September is in the record books (217.8 mm) as the rainiest since 1843, and the 3rd wettest month ever at Toronto; normal rainfall is 66 mm. Torrential downpours in the 100 mm range were experienced several times this summer; as a result, since mid-August, fields have been saturated. In the last two months the south has endured 3 rainstorms with climatological return periods of 100 years. The last time we have had rains of this magnitude was during hurricane Hazel in 1954. Most of Ontario's bumper harvest still remains in the fields, the quality deteriorating as the weeks go by. Many low lying fields have been underwater for weeks, while others are too soggy to support any farm machinery. Crop losses are now running into the millions. Niagara grapes remain unharvested. Corn is starting to mold. Holland Marsh field crops are rotting in the soil. Half of Ontario's bean harvest has been destroyed after anticipated record yields.





Temperature Anomaly Forecast

- ++ much above normal
- + above normal
- N 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.

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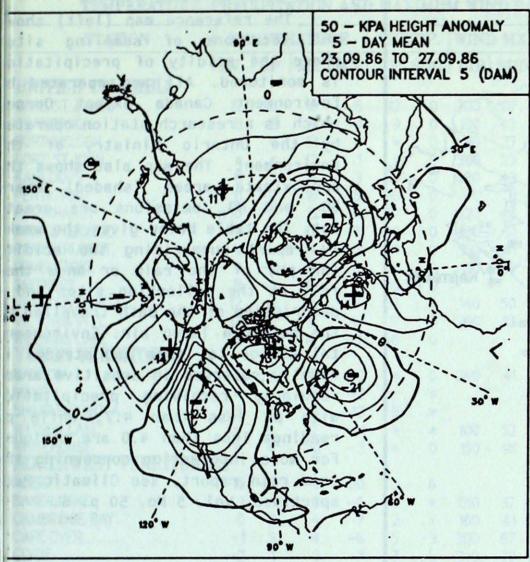
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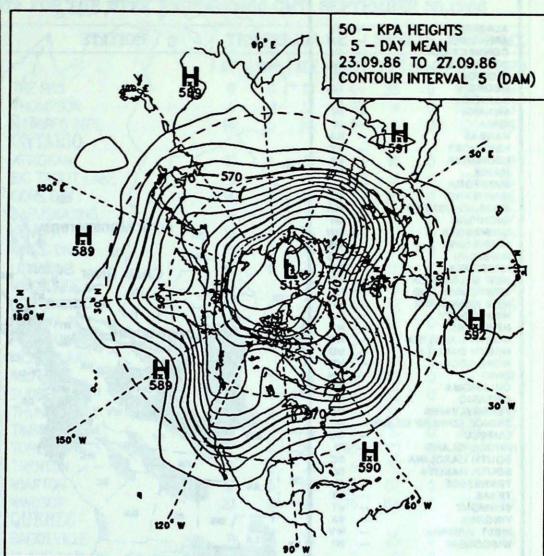
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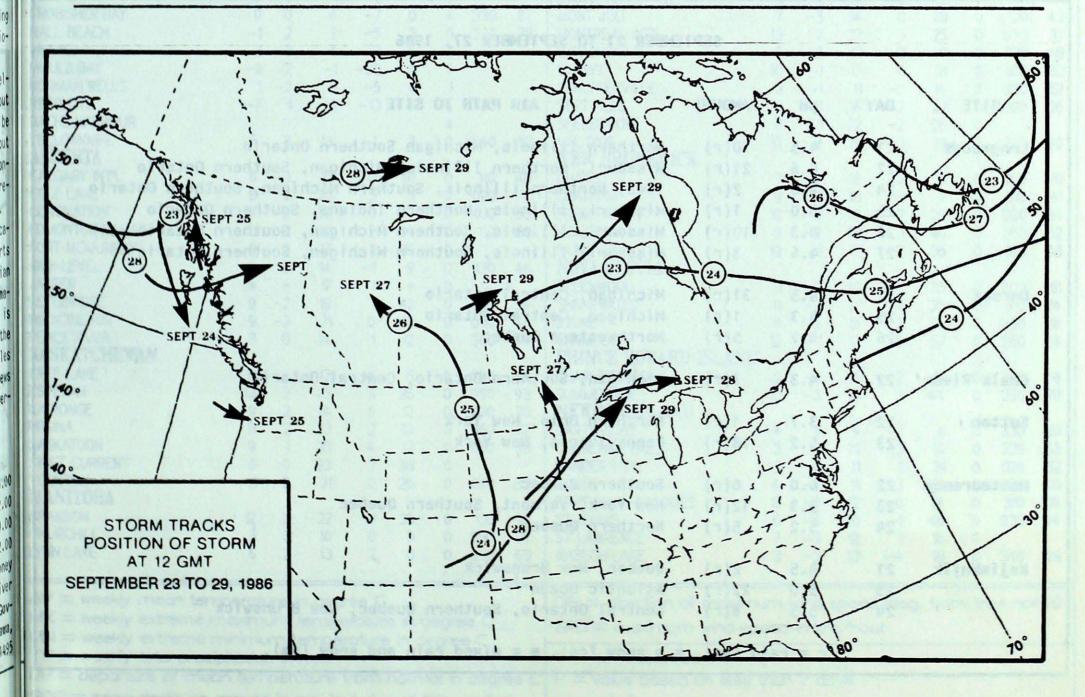
50 KPa ATMOSPHERIC CIRCULATION





MEAN 50 KPa HEIGHT ANOMALY (dam) September 23 to September 27, 1986

MEAN 50 KPa HEIGHTS (dam) September 23 to September 27, 1986



0 ALABAMA ARKANSAS AR CONNECTICUT CO DELAWARE FL GA FLORIDA GEORGIA ILLINOIS INDIANA IN IA IOWA KA KANSAS KENTUCKY KY LOUISIANA LA ME MAINE MANITOBA MD MA MI MN MARYLAND MASSACHUSETTS MICHIGAN Forêt Montmorency MINNESOTA MS MO NE NB NF NH NJ NY NC MISSISSIPPI MISSOURI Chalk River Sutton NEBRASKA Kejimkujik NEW BRUNSWICK NEWFOUNDLAND NEW HAMPSHIRE NEW JERSEY NEW YORK Dorset Longwoods NORTH CAROLINA NORTH DAKOTA MI ND NS NOVA SCOTIA OH OHIO OKLAHOMA ONTARIO OK ON PENNSYLVANIA PA VA PRINCE EDWARD ISLAND-QU QUÉBEC RHODE ISLAND RI SOUTH CAROLINA SOUTH DAKOTA SC SD OK SC TN TENNESSEE TEXAS TX VERMONT VT VIRGINIA VA WEST VIRGINIA WV WISCONSIN TX

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 SO_2 and NO_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.

SEPTEMBER 21 TO SEPTEMBER 27, 1986

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	21	4.5	10(r)	Northern Illinois, Michigan Southern Ontario
	22	4.6	21(r)	Missouri, Northern Illinois, Michigan, Southern Ontario
	24	4.0	2(r)	Iowa, Northern Illinois, Southern Michigan, Southern Ontario
	25	5.0	1(r)	Missouri, Illinois, Northern Indiana, Southern Ontario
	26	4.3	10(r)	Missouri, Illinois, Southern Michigan, Southern Ontario
	27	4.6	3(r)	Missouri, Illinois, Southern Michigan, Southern Ontario
Dorset	22	4.5	31(r)	Michigan, Central Ontario
	25	4.3	1(r)	Michigan, Central Ontario
	26	4.2	5(r)	Northwestern Quebec
Chalk River	22	4.3	7(r)	Michigan, Southern Ontario, Central Ontario
Sutton	22	3.7	1(r)	Northern Ohio, New York
	23	5.2	18(r)	Pennsylvania, New York
Montmorency	22	6.0	8(r)	Southern Quebec
	23	5.3	12(r)	New York, Vermont, Southern Quebec
	24	5.2	5(r)	Northern Quebec
Kejimkujik	21	4.5	2(r)	Quebec, New Brunswick
	23	5.0	22(r)	Atlantic Ocean
	24	5.5	8(r)	Central Ontario, Southern Quebec, New Brunswick

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* = missing

SOG = snow depth on ground in cm, last day of the period