Environment Canada Imaging Cover Page

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JULY CLIMATIC DATA FOR TORONTO, CANADA

1. The urban area of greater Toronto extends for some thirty miles along the north shore of Lake Ontario, and is about twenty miles wide in the central portion. Toronto is largely built upon a plain sloping back from the lake where the elevation is 245 feet above mean sea level, while at the northern limits of urban development it is about 700 feet above MSL.

2. The University of Toronto is located near the heart of the urban area, about two miles north of the lake front. Meteorological observations have been taken on or near the University campus since 1840. Since 1909 the location of the observatory has been the northwest corner of the campus at the Headquarters of the Meteorological Branch, 315 Bloor Street West.

3. Toronto has a continental type climate which is moderated by the presence of the Great Lakes. Being in the latitude zone of the westerlies, it has an extremely variable climate from year to year, and even from day to day, as weather disturbances and different air masses move across the area usually from the western sector.

4. The normal July temperature in Toronto is 71°F, which is about 3 degrees lower than normal temperatures in places at the same latitude with purely continental conditions. The average daily maximum temperature is 81°F, but in one month, July 1936, the temperature reached 105°. Frequently the lake breeze from Lake Ontario holds the afternoon downtown temperatures somewhat lower than those in the northern suburbs. The mean daily minimum temperature in July is 62 degrees, and the all time July minimum was 39 degrees.

5. Toronto has a fairly uniform rainfall regime from month to month throughout the year, and the standard normal for July is 2.92 inches. Most summer rainfall results from afternoon or evening showers and thunderstorms. The humidity index is higher in July than for any other month of the year, but the hot, humid spells are usually of short duration.

Meteorological Branch,
Department of Transport,
Toronto, Ontario.

MKT/ap
28 February, 1962.

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Temperature	Normal		Highest		Lowest	
Mean	71°F	21.7°C	77°F	25.0°C	64°F	17.8°C
Mean daily max.	81	27.2	88	31.1	72	22.2
Mean daily min.	62	16.7	66	18.9	53	11.7
Extreme max.	-	-	105	40.6	-	-
Extreme min.	-	-	-	-	39	3.9

Considering all hours of the day and night in July a temperature of -

88°F is equalled or exceeded 1% of the time
86°F " " " " 2½ " " "
83°F " " " " 5 " " "
81°F " " " " 10 " " "

Rainfall	Normal	Highest	Lowest
Total	2.90 in. 74 mm	8.15 in. 207 mm	0.32 in. 8 mm.
Days with rain	10	16	3
Hours with rain	28	-	-
Thunderstorm days	6	10	3
Bright Sunshine			
Mean daily	9.2 hrs.	11.4 hrs.	7.2 hrs.
Percent of possible	62%	76%	48%
Relative Humidity			
Mean at 1300 EST	55%	58%	45%
Monthly mean	67	69	59
Wind			
Mean speed	8.2 mph	10.1 mph	6.4 mph
Prevailing direction	SW	-	-