



# Saskatchewan Research Council Monthly Weather Summary

latitude 52°09'N Longitude 106°36'W asl 497 m Saskatoon



CRS estab. 1963

December 2009		2009	2008	NORMAL OR EXTREME FOR CRS	EXTREME FOR SASKATOON STATIONS
<i>Preliminary</i>		VALUE	VALUE	1971-2000	
TEMPERATURE	Average monthly <b>maximum</b> (°C)	-14.0	-14.6	-9.0	
	Extreme monthly maximum (°C/date)	-0.6/01	6.0/01	11.2/1997/14	14.4/1939/05 <sub>SE</sub>
	Average monthly <b>minimum</b> (°C)	-22.6	-23.4	-18.6	
	Extreme monthly minimum (°C/date)	-33.9/13	-36.9/22	-42.2/1973/31	-43.9/1892/22 <sub>SM</sub>
	Monthly <b>average</b> (°C)	-18.3	-19.0	-13.9	
	No. of Frost-free days (Temp. > 0°C)	0	0	0.2	
DEGREE-DAYS	Monthly growing (5°C base)	0.0	0.0	0.1	
	Yearly total-to-date growing	1646.3	1741.3	1672.9	
	Monthly heating (18°C base)	1125.6	1147.5	987.7	
	Yearly total-to-date heating	5948.4	5745.8	5809.0	
	Monthly cooling (18°C base)	0.0	0.0	0.0	
	Yearly total-to-date cooling	122.3	134.2	119.1	
PRECIPITATION	Monthly total (mm)	7.2	15.0	18.3	59.2/1956 <sub>SA</sub>
	Yearly total-to-date (mm)	319.3	313.8	348.2	
	Greatest daily (mm/date)	3.1/23	2.0/08	14.5/1973/23	28.4/1936/02 <sub>SE</sub>
	Measurable precipitation days (≥ 0.2mm)	11	18	11.4	
WIND	Average monthly speed (km/h)	11.6	13.5	16.0	
	Peak gust (speed/direction/date)	42.3 <sup>N</sup> 06	79.2 <sup>NW</sup> 02		121 <sup>W</sup> 1955/12 <sub>SA</sub>
RADIATION	Monthly bright sunshine (hours)	108.8	85.9	85.4	
	% possible bright sunshine	44.9	35.5	35.2	
	% normal bright sunshine	127.4	100.6		
	Bright Sunshine days	26	23	22.8	
	Monthly global radiation(MJ/m <sup>2</sup> )	100.6	92.4	95.2	
	Monthly diffuse radiation (MJ/m <sup>2</sup> )	48.2	53.2	54.3	
SOIL	Average grass level	-11.8	-7.9		
	temperature (°C) 10 cm/20 cm	-8.5/-6.3	-7.0/-4.7	-6.6/-5.6	
	@ 9:00am 50 cm/100cm	-3.3/1.4	-2.3/2.3	-1.7/2.0	
	150 cm/300cm	3.6/6.3	4.2/6.5	3.8/6.4	

**Saskatoon Stations**  
 SM=interrupted readings (NWMP) about 1892-1900  
 SE= Eby (pioneer) 1901-41  
 SA= S'toon Airport 1942-

**Normals**  
 Global and diffuse radiation = 1961-1990  
 Soil Temp. = 1971-2000  
 calculated by Env. Canada  
 Wind Normal and Extreme are from Saskatoon Airport

## For Your Information

The year finished on a rollercoaster ride with temperatures plunging to depths well below normal in the first part of the month, rising, then descending again into glacial temperatures only to bounce back one more time before once again heading to the bottom of the temperature scale. With seven days below -30°C, including a five day cold snap from December 11<sup>th</sup> to 15<sup>th</sup>, it is astonishing that only one extreme daily minimum temperature record was broken. On December 13<sup>th</sup>, -33.9°C was observed squeaking by the old 1972 daily record of -32.8°C. Luckily, strong winds were absent for practically all of the month lowering the wind chill concern to bearable. Snow shoveling was at a minimum with 7.2 cm accumulating over 11 days. Accompanying the cold weather came a 27% increase in bright sunshine hours.

### Temperature Records: (since 1963)

#### Lowest daily maximum

Dec 12 = -28.4°C; old record = -23.0°C/1993  
 Dec 13 = -27.7°C; old record = -23.9°C/1986

#### Lowest daily minimum

Dec 13 = -33.9°C; old record = -32.8°C/1972

#### Lowest daily mean

Dec 12 = -30.7°C; old record = -27.0°C/1971  
 Dec 13 = -30.8°C; old record = -27.3°C/1975

### Weather Words for the Weatherwise

*One kind word can warm three winter months* Japanese Proverb



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