



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary DECEMBER 2024

Table with columns: Day, Temperature (Max, Normal Max, Min, Normal Min, Mean, Normal Mean), Degree-days (Growing, Heating, Cooling), Precipitation (Geonor all-season ppt Gauge, Comments, Snow-on-Ground 0900h), Relative Humidity (Max 1/2 hr Avg, Min 1/2 hr Avg), Station Pressure (Max 1/2 hr Avg, Min 1/2 hr Avg). Rows include daily data from 1 to 31 and summary rows for Total, Avg, Extreme, and Date.

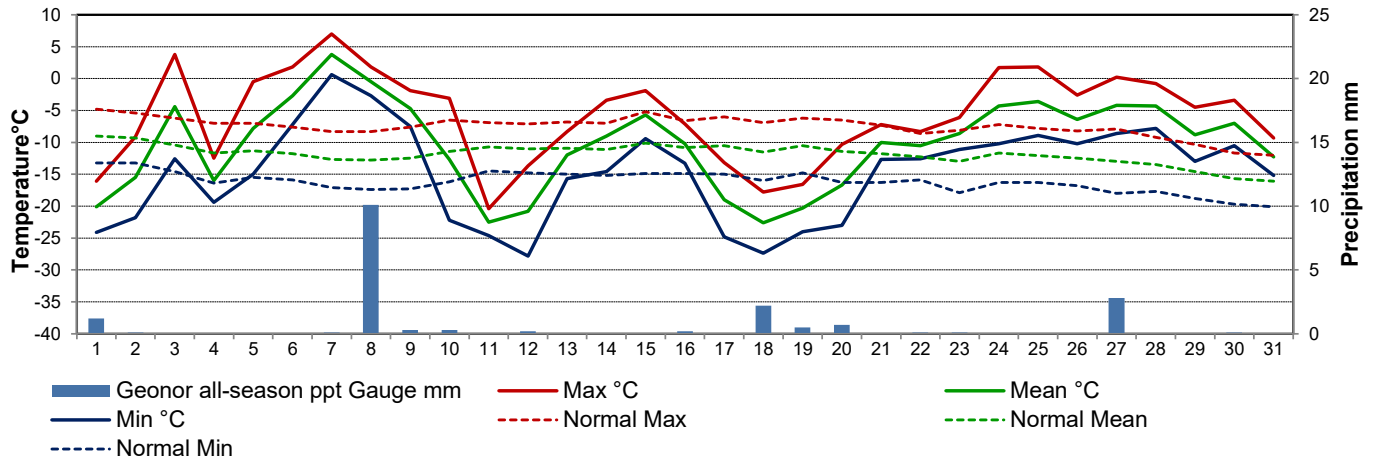
Note: Red numbers indicate manual calculation; Red cell indicate data not available

It has not been corrected for wind speed.

SRC proudly recognizes the following CRS supporters:



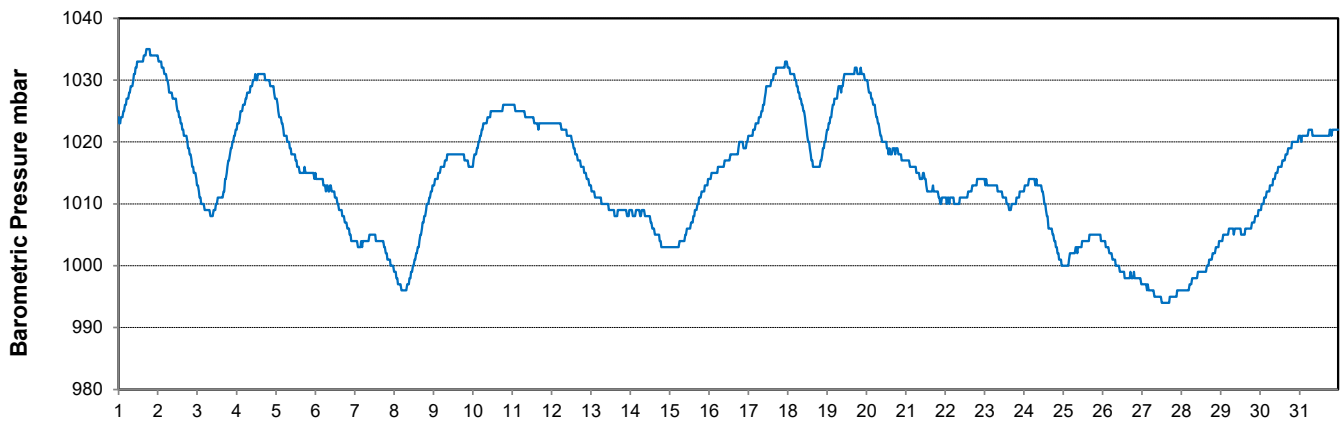
Temperature and Precipitation for December 2024



Relative Humidity for December 2024



Barometric Pressure Corrected to Sea Level for December 2024





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary **DECEMBER 2024**

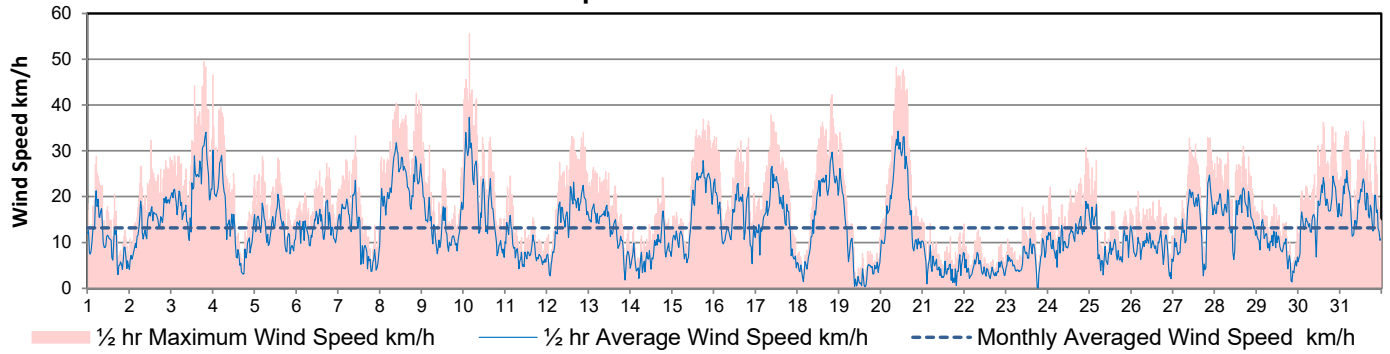
Day	Wind Gust (10 meter)			Wind Speed (10 meters) Daily Average	Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time		Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	28.8	NNE	5:20	10.4	-20.0	-1.0	-0.5	0.5	3.0	6.0	7.5	9.0	7.5	8.1	93.1	6.5	1.4
2	32.3	SSE	12:49	14.0	-16.5	-1.0	-0.5	0.5	3.0	6.0	7.5	9.0	3.6	8.0	44.8	3.4	2.3
3	49.5	NNE	19:17	21.5	-5.0	-0.5	0.0	0.0	3.0	6.0	7.5	9.0	3.0	8.0	37.5	2.9	2.0
4	46.5	NNW	0:16	14.2	-19.5	0.0	0.0	0.5	3.0	6.0	7.5	9.0	4.8	8.0	60.2	3.7	2.3
5	28.7	S	4:48	13.1	-9.0	0.0	0.0	0.0	3.0	6.0	7.5	8.5	4.0	7.9	50.4	3.1	2.2
6	27.2	SSW	17:59	13.4	-5.0	0.0	0.5	0.5	3.0	6.0	7.0	8.5	1.0	7.9	12.6	2.8	2.6
7	33.3	NW	10:09	12.0	2.5	0.0	0.5	1.0	3.0	6.0	7.0	8.5	3.2	7.9	40.6	3.3	2.4
8	42.6	N	21:01	23.3	0.0	0.5	0.5	1.0	3.0	5.5	7.0	8.5	0.0	7.9	0.0	1.2	1.2
9	39.9	NNW	0:00	13.2	-7.5	0.5	1.0	0.0	3.0	5.5	7.0	8.5	1.7	7.8	21.7	2.6	2.1
10	55.5	N	3:38	19.2	-16.0	0.5	1.0	1.0	3.0	5.5	7.0	8.5	6.0	7.8	76.7	3.8	1.1
11	24.5	N	3:15	8.2	-21.5	0.5	1.0	1.5	3.0	5.5	7.0	8.5	1.4	7.8	17.9	2.7	2.4
12	33.9	SE	3:06	15.1	-27.5	0.0	0.5	1.0	3.0	5.5	7.0	8.5	2.1	7.8	27.0	2.8	2.3
13	26.4	SSE	21:05	12.9	-15.5	0.0	0.0	1.0	3.0	5.5	7.0	8.5	2.2	7.8	28.3	2.6	2.3
14	24.2	SE	18:42	7.7	-14.5	-0.5	0.0	0.5	3.0	5.5	7.0	8.5	0.3	7.8	3.9	2.5	2.2
15	36.9	N	18:07	16.7	-6.5	-0.5	0.0	0.5	2.5	5.5	6.5	8.0	0.0	7.8	0.0	2.2	2.1
16	33.1	NNW	0:52	15.6	-8.5	-0.5	0.0	0.0	2.5	5.5	6.5	8.0	0.0	7.7	0.0	1.2	1.3
17	37.8	NW	9:25	15.9	-16.0	-0.5	-0.5	0.0	2.5	5.5	6.5	8.0	5.6	7.7	72.4	3.4	1.2
18	42.2	NE	20:28	16.0	-25.5	-1.5	-1.0	0.0	2.5	5.0	6.5	8.0	0.0	7.7	0.0	1.5	1.5
19	33.9	NNE	0:37	7.3	-22.5	-2.0	-1.5	-0.5	2.0	5.0	6.5	8.0	1.1	7.7	14.2	2.1	2.0
20	48.3	SE	9:23	19.2	-16.0	-2.0	-1.5	-1.0	2.0	5.0	6.5	8.0	0.2	7.7	2.6	2.1	2.1
21	14.5	SW	0:08	4.6	-9.0	-1.5	-1.0	-1.5	2.0	5.0	6.5	8.0	0.8	7.7	10.4	1.8	1.7
22	14.0	SSE	0:08	4.2	-9.0	-1.5	-1.0	-1.0	2.0	5.0	6.5	8.0	0.0	7.7	0.0	1.7	1.7
23	17.9	WSW	21:30	6.3	-10.0	-1.0	-1.0	-1.0	2.0	5.0	6.0	8.0	0.0	7.7	0.0	1.9	1.8
24	30.7	S	22:28	11.5	-9.5	-1.0	-0.5	-1.0	2.0	4.5	6.0	8.0	0.8	7.7	10.3	2.0	1.4
25	27.9	WSW	4:03	9.4	-4.5	-1.0	-0.5	-0.5	2.0	4.5	6.0	8.0	5.8	7.7	75.0	3.3	1.4
26	21.1	SSE	4:25	8.9	-9.0	-1.0	-0.5	-0.5	2.0	4.5	6.0	7.5	6.0	7.7	77.5	3.4	1.1
27	32.9	WNW	20:21	14.4	-1.0	-1.0	-0.5	-1.0	2.0	4.5	6.0	7.5	0.0	7.8	0.0	1.7	1.7
28	30.9	SW	16:47	16.7	-5.5	-0.5	-0.5	0.0	2.0	4.5	6.0	7.5	0.5	7.8	6.4	1.9	1.9
29	19.2	SSW	3:49	9.0	-10.0	-0.5	0.0	-1.5	2.0	4.5	6.0	7.5	7.2	7.8	92.5	3.9	1.0
30	36.2	NW	14:45	16.4	-4.5	-0.5	0.0	-0.5	2.0	4.5	6.0	7.5	0.0	7.8	0.0	2.0	2.0
31	36.4	NNW	13:56	17.6	-12.5	-0.5	0.0	0.0	2.0	4.5	5.5	7.5	0.0	7.8	0.0	2.1	2.1
Total													68.8	242.1	28.4	82.1	56.8
Mean				13.2	-11.4	-0.6	-0.2	0.0	2.5	5.3	6.6	8.2	1991-2020 Normal				
Extreme	55.5	N	3:38		1971- 2000 Normal for Soil Temperatures								85.7	242.3	35.4	92.1	47.6
Date	10					-7.1	-6.6	-5.6	-1.7	2.0	3.8	6.4	No. of Bright Sunshine days = 22				

Note: Red numbers indicate manual calculation; Red cell indicate data not available

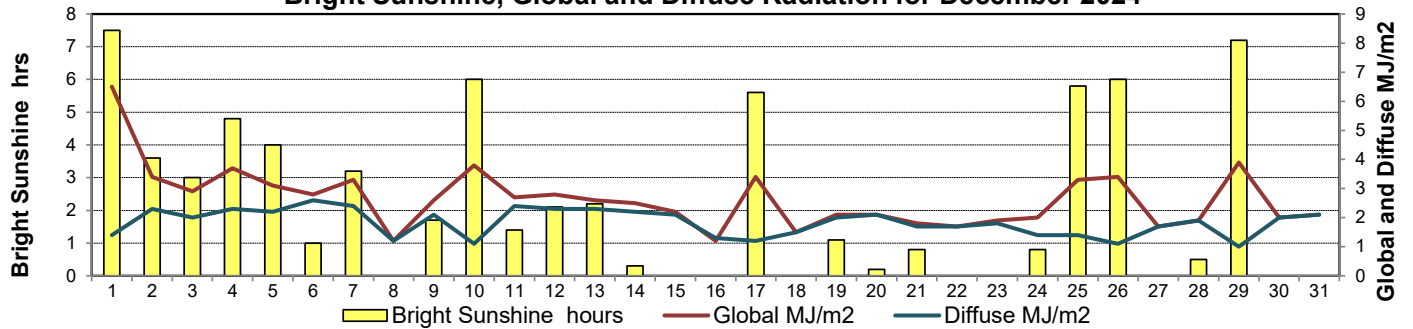
SRC proudly recognizes the following CRS supporters:



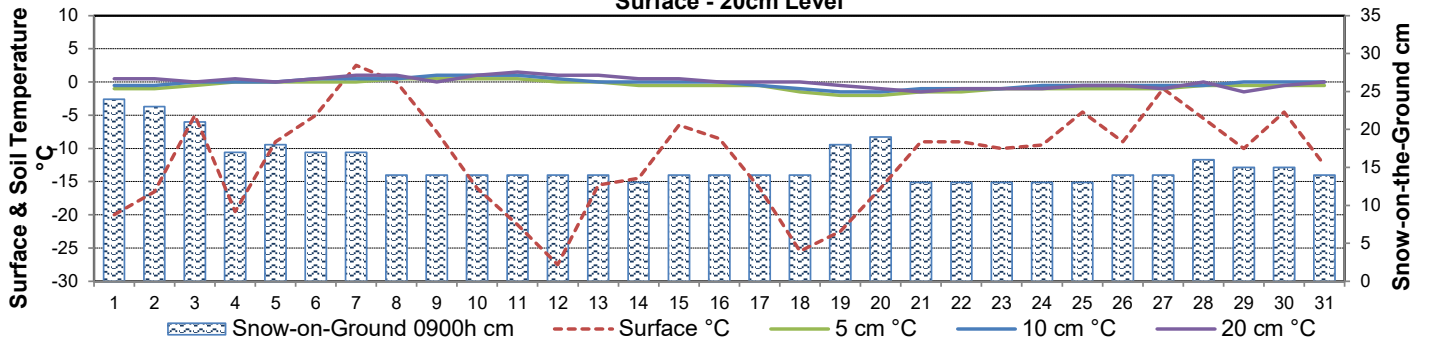
Wind Speed for December 2024



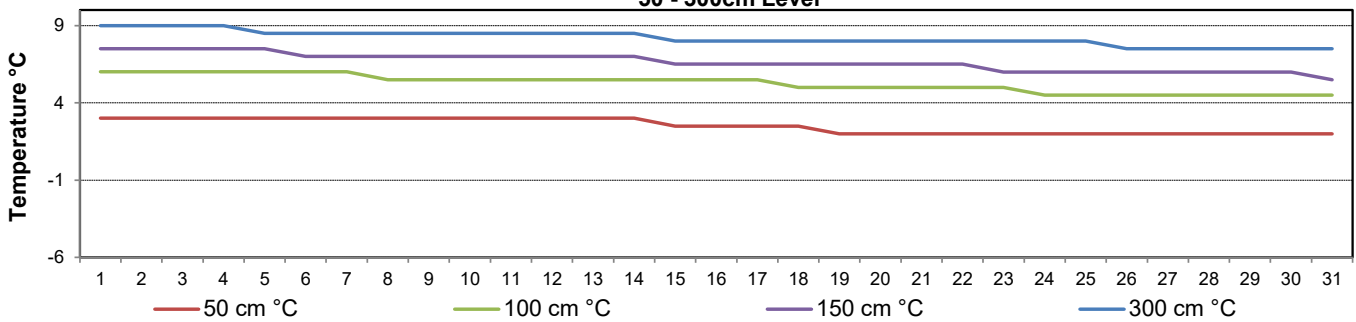
Bright Sunshine, Global and Diffuse Radiation for December 2024



Soil Temperatures for December 2024
Surface - 20cm Level



Soil Temperatures for December 2024
50 - 300cm Level





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary **DECEMBER 2024**

Extreme Records for December

Max/Min Temperature °C				Precipitation - Monthly mm				Wind Monthly km/h				CRS Bright Sunshine - Monthly					
S'toon Area	Date	Site	S'toon CRS	Date	S'toon Area	Date	Site	S'toon CRS	Date	S'toon Airport	Date	S'toon CRS**	Date	Hours	Year	No. of Days	Year
14.4	05/1939	SE	11.2	14/1997	59.2	1956	SA	43.0	1977	121 ^W	12/1955	89.4	1992	123.3	2006	27	1994*
-43.9	22/1892	SM	-42.2	31/1973	0.0	1906,'30	SE	1.2	1997					49.1	1973	17	1966*

**1975 forward * more than one year

Notable Events for CRS Saskatoon - December						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c.	1892-1901	T	Trace of precipitation
Precipitation	Highest Daily Maximum	8	10.1	9.9	1976	SE	Eby	1901-1941		Normal	30 year average beginning with the decade
<p>An interesting item is when the shallow ground (5 and 10 cm) went above 0C, the 10 cm soil moisture amount increased. (the melting water / rain soaked in)</p>						US	Univ. of Sask.	1915-1964		SOG	Depth of snow-on-the-ground in cm
						S	Saskatoon	1941-1942		na	not available
						SA	Saskatoon A	1942 -		Degree-days	
						NRC	Nat. Res. Council	1952-1966		Tm	Mean Temperature
						SRC	Sask. Res. Council	1963-		Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
						SWT	S'toon Water Treatment Plant	1974 -		Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0
						SC	S'toon Central Ave	1974-1989		Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0
						S1	Saskatoon 1	1976-1978		Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0
						S2	Saskatoon 2	1977-1990			
						K	S'toon Kernen Farm	1993-2004			
KCS	S'toon Kernen Farm CS	1996-									
RCS	Environment Canada	2008-									
SF	Sutherland Forestry	1943-1970									

SRC proudly recognizes the following CRS supporters:





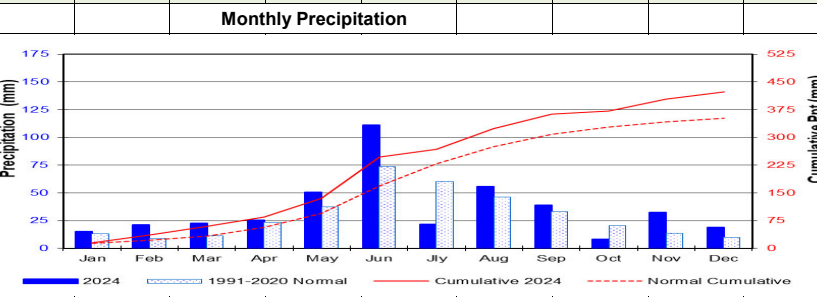
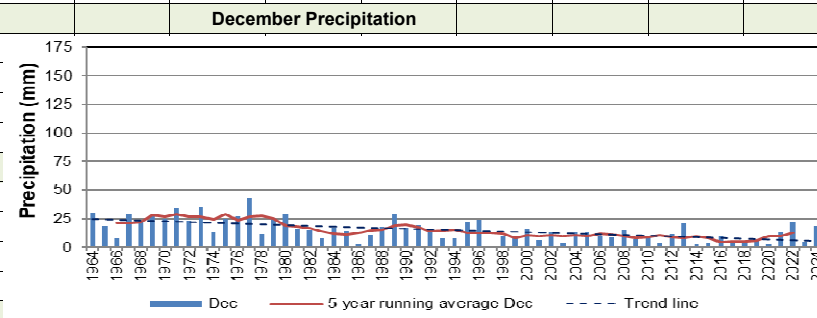
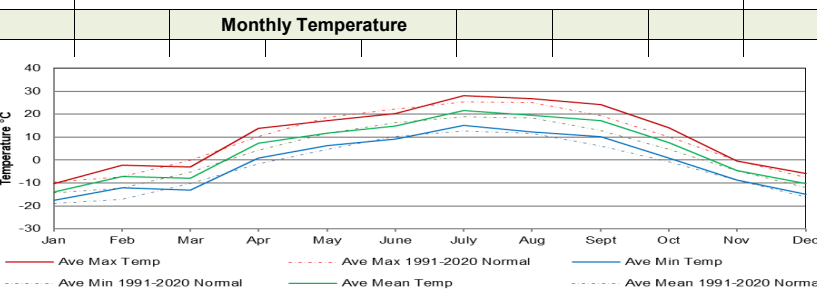
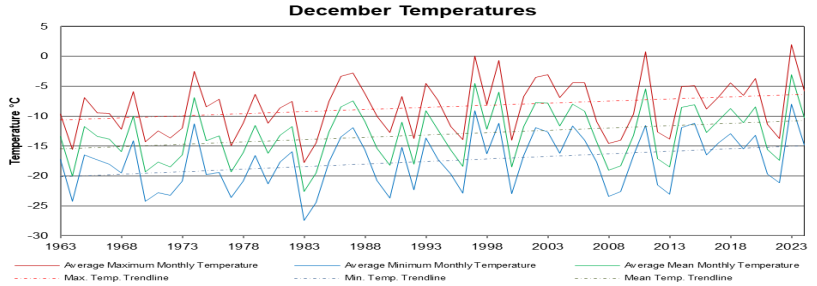
SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary **December** 2024

Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)		
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))		
1	8.0	14.6	19.5	3.5	1.5	9.0
2	10.0	17.4	25.8	3.5	1.5	8.5
3	17.0	25.0	40.2	3.5	1.5	9.0
4	11.0	22.9	35.6	19.5	1.5	8.5
5	10.0	18.0	27.0	16.0	1.5	8.5
6	11.0	15.9	22.4	10.5	1.5	8.5
7	10.0	18.5	27.5	24.0	1.5	9.0
8	18.0	23.6	32.7	26.5	1.5	9.0
9	11.0	18.5	29.8	21.0	1.5	9.5
10	15.0	27.3	40.8	20.0	1.5	9.5
11	7.0	12.7	19.5	19.0	1.5	9.5
12	11.0	18.0	30.4	16.5	1.5	9.0
13	9.0	13.3	22.9	8.0	1.5	9.0
14	5.0	11.3	20.6	7.0	1.5	9.0
15	12.0	21.0	30.4	7.0	1.5	9.0
16	13.0	18.8	28.1	7.0	1.5	9.0
17	13.0	21.2	33.3	6.5	1.5	9.0
18	13.0	23.5	35.6	6.5	1.5	8.5
19	5.0	20.1	28.1	6.0	1.5	9.0
20	15.0	27.7	40.8	6.0	1.5	8.5
21	4.0	9.8	14.3	6.0	1.5	8.5
22	2.0	6.4	12.6	5.5	1.5	8.5
23	2.0	5.1	7.4	5.5	1.5	8.5
24	5.0	11.8	24.7	5.5	1.5	8.5
25	5.0	15.8	25.2	6.0	1.5	9.0
26	5.0	9.4	15.4	6.0	1.5	8.5
27	12.0	19.8	28.7	6.0	1.5	8.5
28	14.0	19.7	28.1	6.5	1.5	8.5
29	7.0	11.0	17.7	6.5	1.5	9.0
30	14.0	20.1	30.4	6.0	1.5	9.0
31	15.0	33.0	33.0	6.0	1.5	9.0
Total						
Mean				10	2	8.8
Extreme	18.0	33.0	40.8	26.5	1.5	9.5
Date	8	31	10	8	1	9

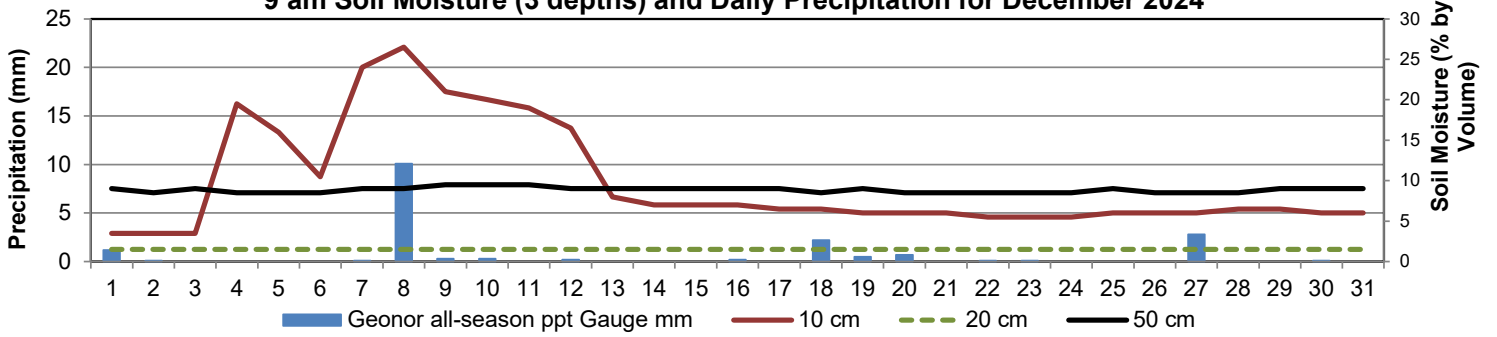


Note: Red numbers indicate manual calculation; Red cell indicate data not available

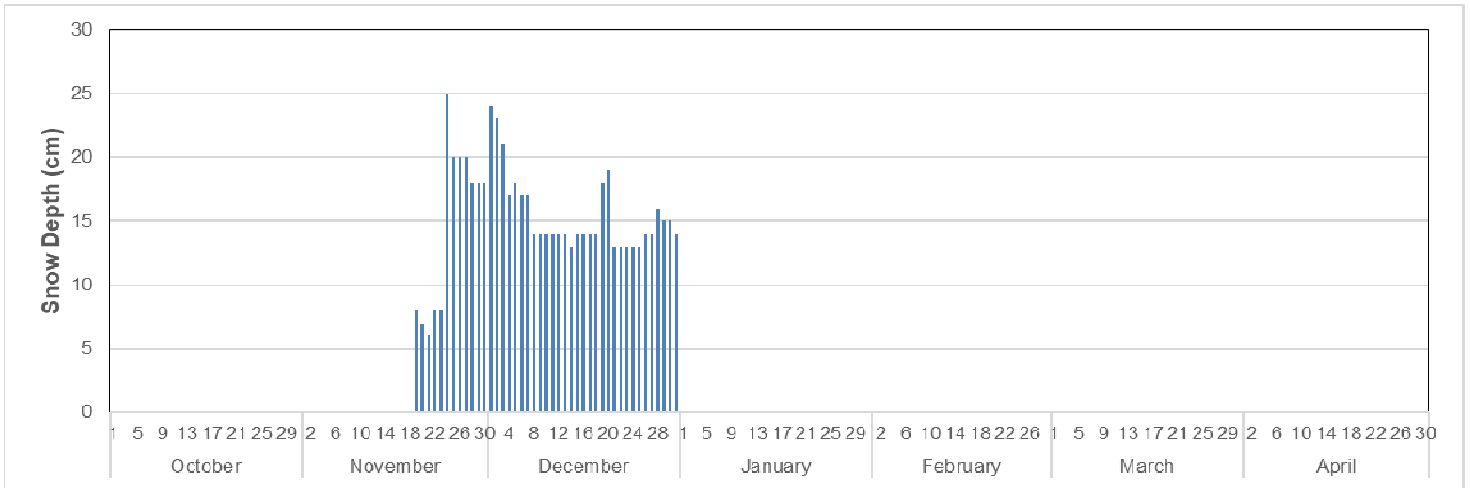
SRC proudly recognizes the following CRS supporters:



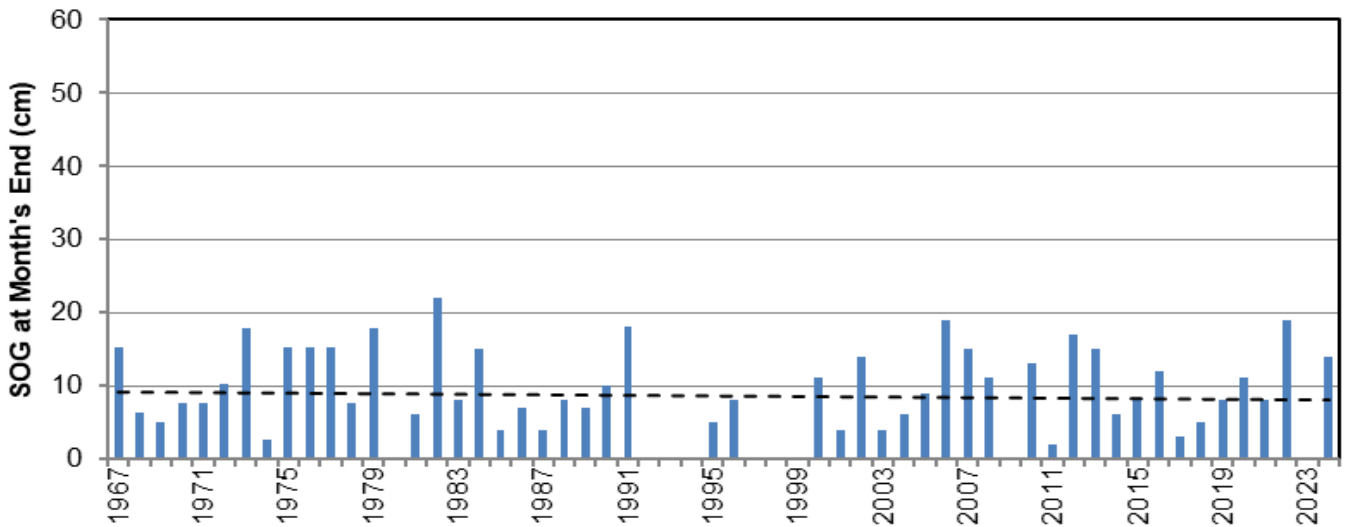
9 am Soil Moisture (3 depths) and Daily Precipitation for December 2024



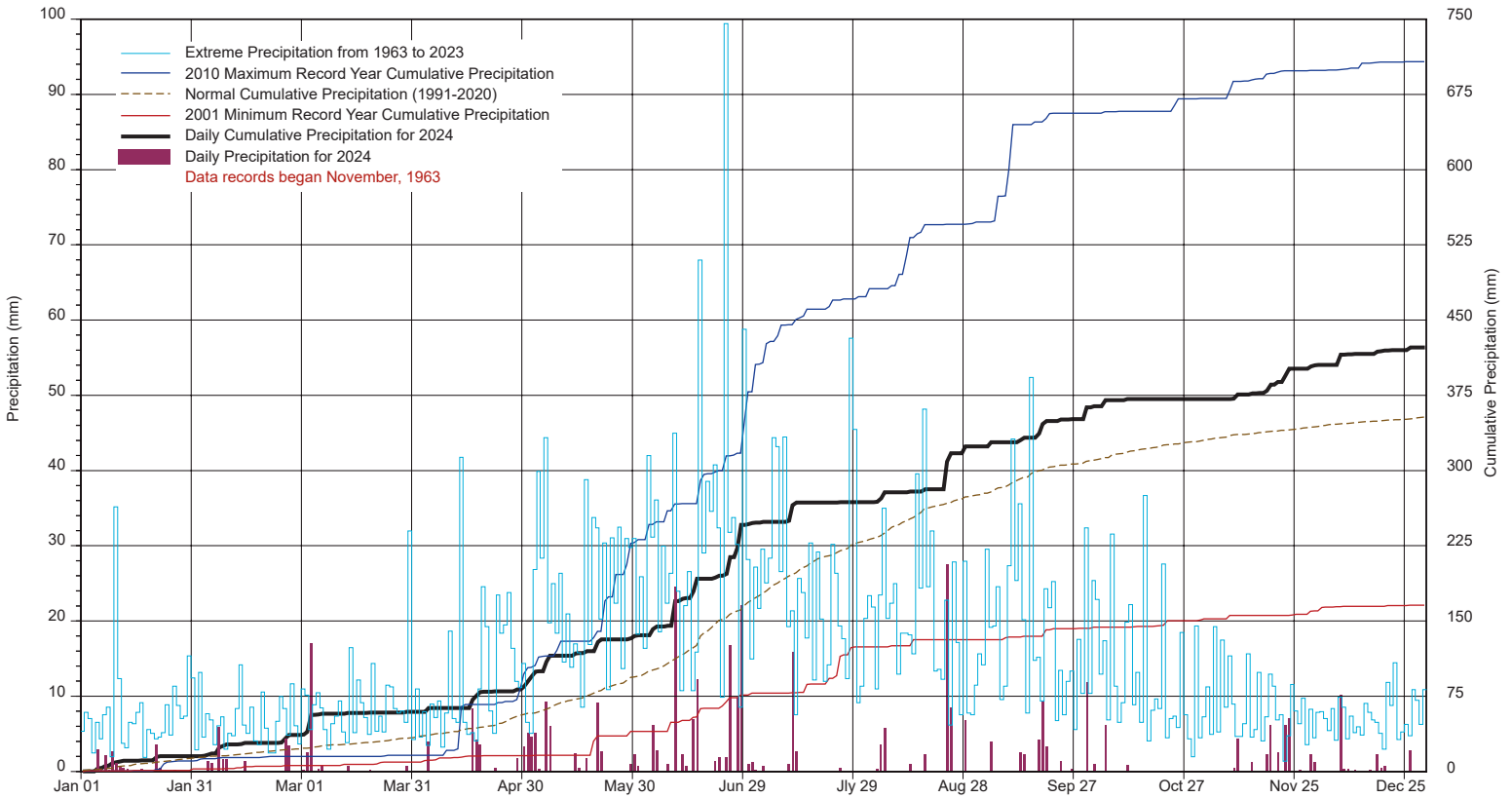
2024-2025 9 am Daily Snow Depth (Oct to April)



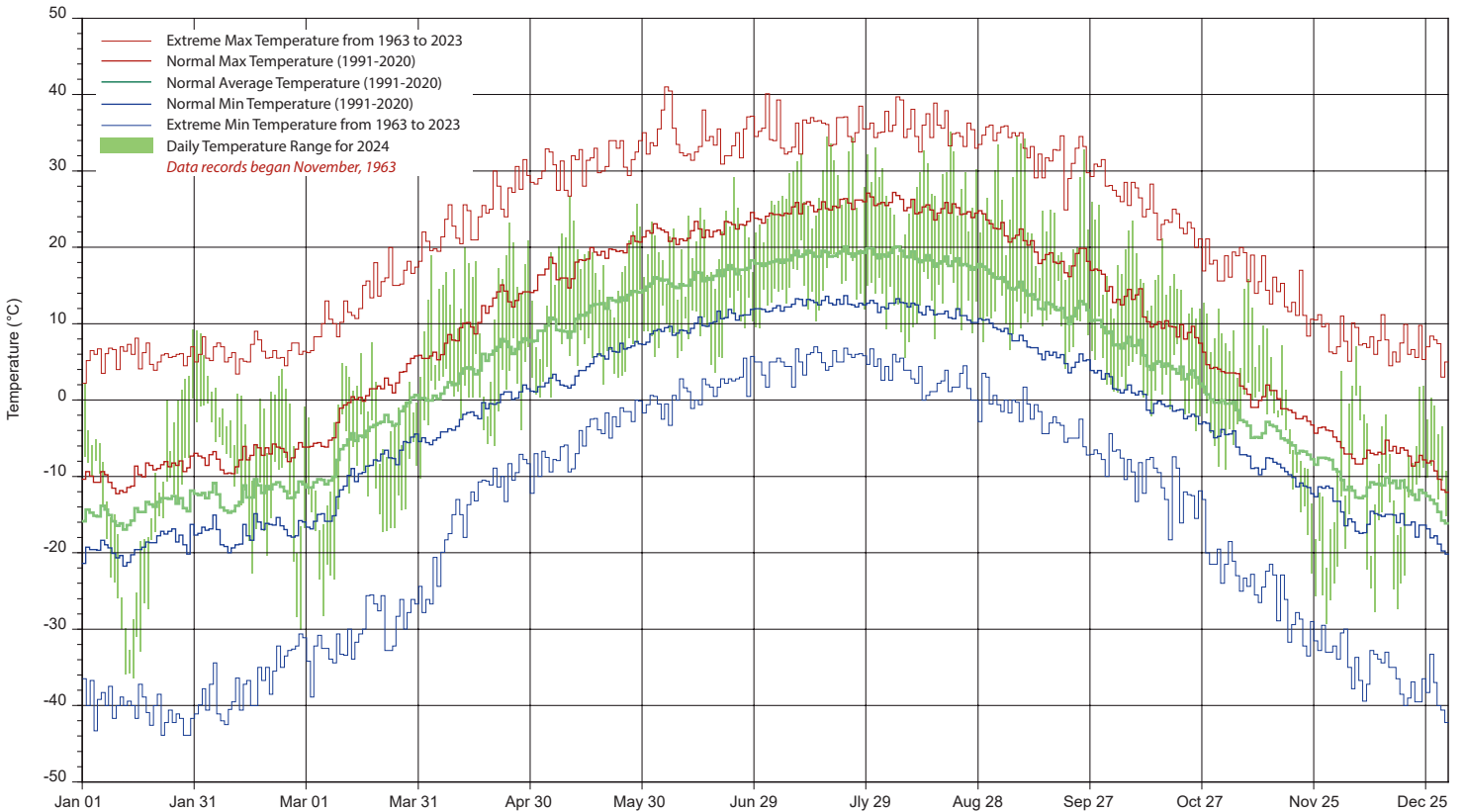
December End of Month Snow Depth (1967 to 2024)



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2024 PRECIPITATION AND NORMALS



2024 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

