



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary FEBRUARY 2024

Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Geonor all-season ppt Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1991-2020	°C	1991-2020	°C	1991-2020	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	8.7	-7.3	-0.9	-17.4	3.9	-12.4	0.0	14.1	0.0	0.0		3	87	59	1009	1003
2	5.8	-7.5	-0.7	-16.6	2.6	-12.1	0.0	15.4	0.0	0.0		1	94	71	1004	1002
3	3.1	-8.5	-0.5	-17.0	1.3	-12.8	0.0	16.7	0.0	0.1		0	95	90	1016	1002
4	1.1	-7.1	-2.9	-16.8	-0.9	-12.0	0.0	18.9	0.0	1.3	freezing drizzle	-	95	91	1020	1013
5	1.6	-6.7	-5.4	-15.0	-1.9	-10.8	0.0	19.9	0.0	1.1	freezing drizzle	0	95	88	1013	1010
6	-2.3	-7.7	-4.8	-16.9	-3.6	-12.3	0.0	21.6	0.0	0.0		0	94	81	1015	1012
7	-1.2	-9.1	-5.9	-18.9	-3.6	-14.0	0.0	21.6	0.0	5.9	snow	4	95	90	1012	1007
8	-3.4	-9.6	-7.0	-19.1	-5.2	-14.4	0.0	23.2	0.0	1.6	snow	9	92	86	1011	1007
9	-2.7	-9.5	-7.6	-19.9	-5.2	-14.7	0.0	23.2	0.0	1.6	snow	10	93	68	1017	1011
10	-6.0	-9.6	-11.3	-19.3	-8.7	-14.5	0.0	26.7	0.0	0.1		8	86	62	1018	1009
11	0.8	-8.7	-9.6	-18.9	-4.4	-13.8	0.0	22.4	0.0	0.0		7	86	61	1012	1007
12	0.6	-7.8	-13.7	-18.8	-6.6	-13.3	0.0	24.6	0.0	0.0		7	88	44	1013	1009
13	-3.2	-6.0	-11.8	-16.2	-7.5	-11.1	0.0	25.5	0.0	0.1	light snow	7	84	68	1017	1010
14	-7.5	-7.8	-18.5	-17.7	-13.0	-12.7	0.0	31.0	0.0	1.4	snow	7	86	63	1024	1017
15	-10.6	-7.2	-22.7	-18.3	-16.7	-12.7	0.0	34.7	0.0	0.0		9	81	60	1028	1024
16	-5.9	-5.8	-16.9	-14.8	-11.4	-10.3	0.0	29.4	0.0	0.0		8	83	61	1028	1018
17	0.1	-6.2	-10.8	-15.9	-5.4	-11.1	0.0	23.4	0.0	0.0		8	78	49	1025	1013
18	-1.1	-7.2	-17.1	-16.9	-9.1	-12.1	0.0	27.1	0.0	0.0		7	86	54	1013	1006
19	-7.0	-6.2	-20.4	-16.1	-13.7	-11.2	0.0	31.7	0.0	0.0		7	84	66	1012	1008
20	1.0	-7.0	-15.5	-16.2	-7.3	-11.6	0.0	25.3	0.0	0.0		7	83	44	1011	1009
21	0.7	-5.7	-8.1	-16.3	-3.7	-11.0	0.0	21.7	0.0	0.0		7	88	55	1011	1009
22	3.1	-6.1	-9.1	-15.3	-3.0	-10.7	0.0	21.0	0.0	0.0		7	83	59	1011	1009
23	4.0	-6.3	-8.9	-16.4	-2.5	-11.3	0.0	20.5	0.0	0.0		7	90	55	1011	1000
24	1.4	-6.8	-7.6	-16.9	-3.1	-11.9	0.0	21.1	0.0	0.1		6	87	59	1004	999
25	-0.5	-8.0	-12.4	-17.7	-6.5	-12.8	0.0	24.5	0.0	4.4	snow / blowing snow	7	94	61	1005	991
26	-6.1	-7.5	-21.2	-17.9	-13.7	-12.7	0.0	31.7	0.0	3.4	snow / blowing snow	7	92	68	1016	991
27	-20.1	-6.4	-28.4	-17.7	-24.3	-12.0	0.0	42.3	0.0	0.1		8	76	54	1021	1016
28	-16.5	-5.5	-30.1	-15.7	-23.3	-10.6	0.0	41.3	0.0	0.0		8	75	63	1018	1004
29	-0.9	-6.1	-16.8	-15.9	-8.9	-11.0	0.0	26.9	0.0	0.0		7	83	72	1004	990
Total							0.0	727.4	0.0	21.2			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-2.2	-7.3	-12.0	-17.1	-7.1	-12.2	1991-2020 Normal			9.1	1991-2020 Normal					
Extreme Date	8.7		-30.1				0.0	853.6	0.0	36.4	Year to date 2024 Cumulative		95	44	1028	990
	1		28							22.3	Year to date Cumulative Normal		3	12	15	29

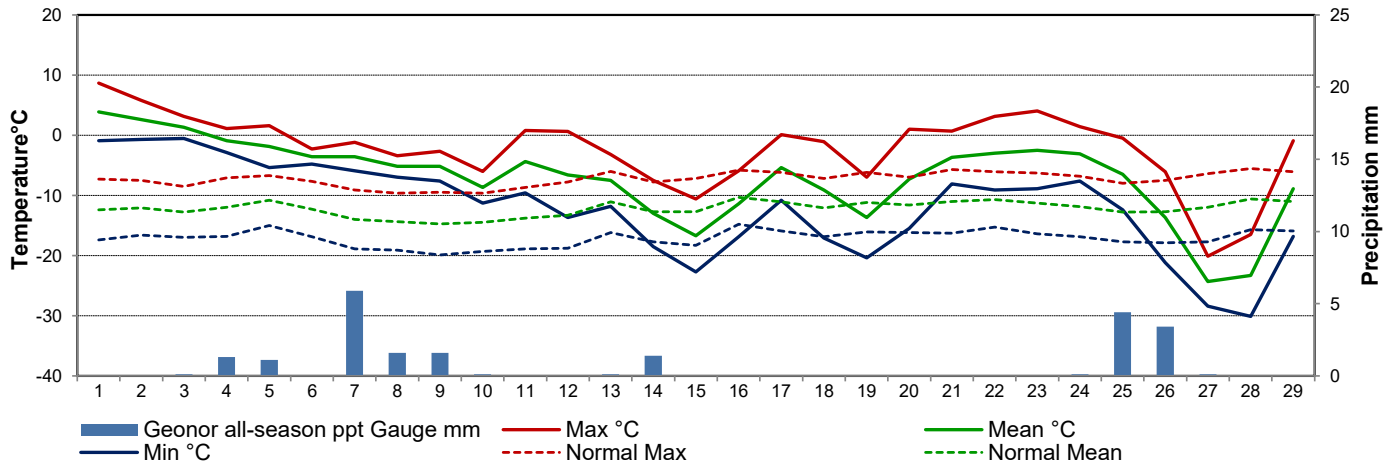
Note: Red numbers indicate manual calculation; Red cell indicate data not available

Precipitation is measured precipitation. It has not been corrected for wind speed.

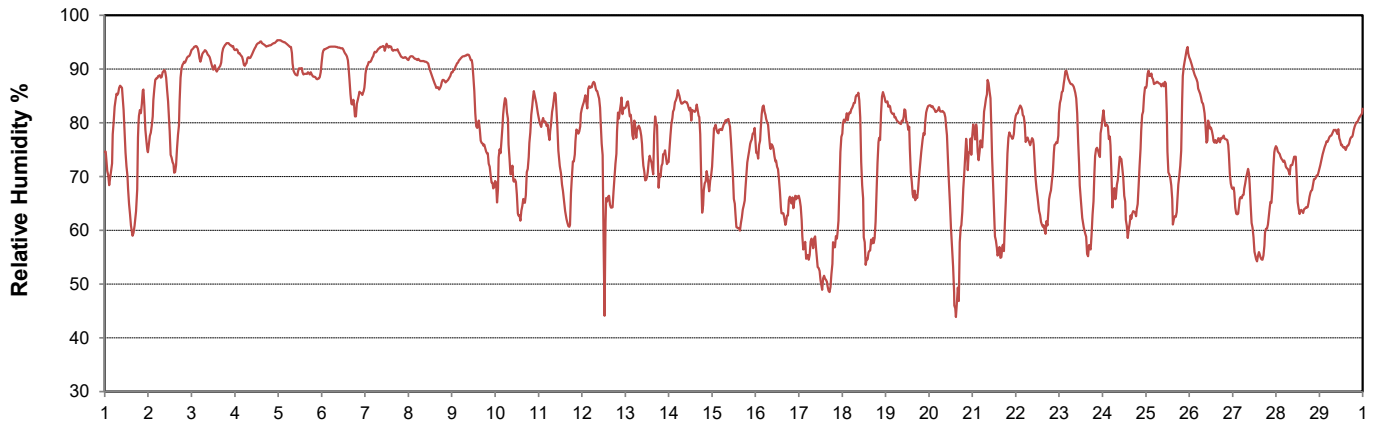
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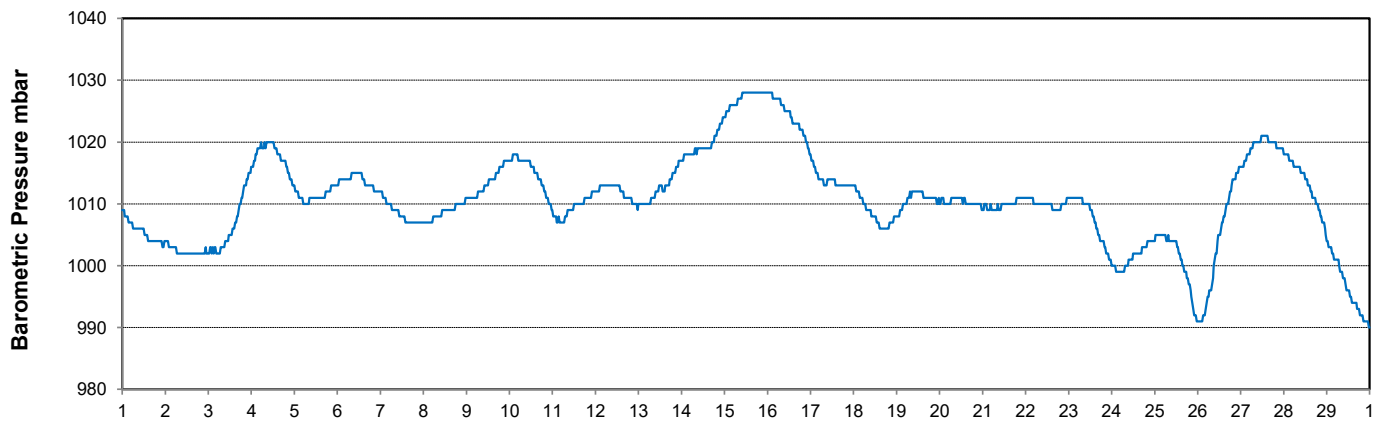
### Temperature and Precipitation for February 2024



### Relative Humidity for February 2024



### Barometric Pressure Corrected to Sea Level for February 2024





**SRC CLIMATE REFERENCE STATION DAILY DATA REPORT**

**SASKATOON STATION 4057180**

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

Preliminary **FEBRUARY 2024**

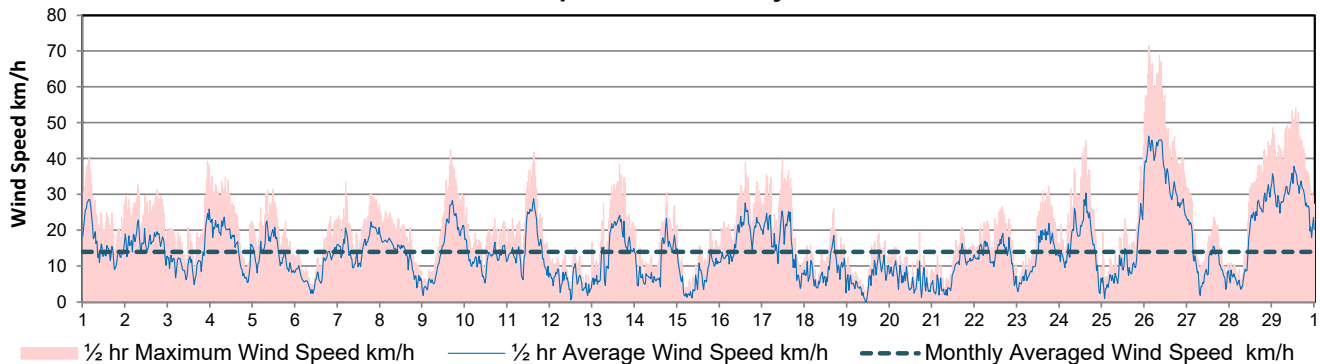
Day	Wind Gust			Wind Speed (10 meters) Daily Average	Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time		Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	40.0	SE	3:21	16.7	-1.0	-1.0	-1.0	-1.5	-1.5	1.0	2.5	5.0	8.8	9.1	96.7	5.4	1.1
2	32.8	SSE	6:36	16.8	-1.0	-0.5	-0.5	-1.0	-1.0	1.0	2.5	5.0	8.3	9.2	90.6	5.6	1.2
3	39.2	N	22:09	12.0	2.0	-0.5	0.0	-1.5	-1.0	1.0	2.5	5.0	0.0	9.2	0.0	1.4	1.4
4	35.0	N	0:36	16.3	-2.5	0.0	0.0	-1.0	-0.5	1.0	2.5	5.0	0.0	9.3	0.0	0.8	0.8
5	31.5	WSW	11:26	13.8	-3.0	0.0	0.0	-1.5	-0.5	1.0	2.5	5.0	0.0	9.3	0.0	2.0	2.0
6	24.0	SE	19:36	8.7	-4.0	-0.5	0.0	-0.5	0.0	1.5	2.5	5.0	0.0	9.4	0.0	1.5	1.5
7	33.3	ESE	4:15	15.9	-3.0	-1.0	-0.5	-0.5	0.0	1.5	2.5	5.0	0.0	9.5	0.0	2.9	2.9
8	25.1	NNE	2:31	13.0	-7.0	-1.0	-0.5	-0.5	0.0	1.5	2.5	5.0	0.1	9.5	1.1	3.8	3.8
9	42.6	WNW	15:39	15.0	-4.5	-1.0	-0.5	-0.5	0.0	1.5	2.5	5.0	1.1	9.6	11.5	3.4	3.1
10	26.4	WNW	0:35	12.1	-8.5	-1.0	-0.5	-0.5	0.5	1.5	2.5	5.0	5.4	9.6	56.0	6.8	3.1
11	41.7	WNW	14:44	15.7	-12.0	-1.0	-1.0	-0.5	0.5	1.5	2.5	4.5	9.3	9.7	95.9	8.2	1.7
12	16.7	NW	15:01	5.8	-14.5	-1.5	-1.0	-0.5	0.5	1.5	2.5	4.5	8.2	9.8	83.9	8.5	3.7
13	38.4	NW	23:54	14.8	-8.0	-2.0	-1.0	-1.0	0.5	1.5	2.5	4.5	0.8	9.8	8.1	4.2	4.1
14	30.6	NE	17:54	10.7	-13.0	-2.5	-1.5	-1.0	0.5	1.5	2.5	4.5	0.5	9.9	5.1	5.0	4.9
15	20.3	WSW	18:32	6.9	-17.5	-2.5	-2.0	-1.5	0.0	2.0	2.5	4.5	1.0	10.0	10.0	6.1	5.7
16	38.7	WSW	14:15	18.1	-13.5	-3.0	-2.0	-1.5	0.0	2.0	2.5	4.5	6.2	10.0	61.9	7.7	3.1
17	39.9	WNW	11:07	16.4	-9.0	-3.0	-2.5	-2.0	0.0	2.0	2.5	4.5	9.8	10.1	97.1	9.3	1.6
18	26.2	E	16:23	8.7	-17.0	-3.0	-2.5	-2.0	0.0	2.0	2.5	4.5	9.8	10.2	96.6	10.8	1.8
19	19.2	SSW	17:55	6.6	-22.0	-3.5	-3.0	-2.0	0.0	2.0	2.5	4.5	9.8	10.2	95.9	11.2	2.4
20	19.3	N	16:44	6.2	-16.0	-4.0	-3.5	-2.5	-0.5	1.5	2.5	4.5	7.2	10.3	70.0	10.2	3.0
21	20.9	WSW	16:46	8.1	-9.0	-3.5	-2.5	-2.5	-0.5	1.5	2.5	4.5	8.8	10.4	85.0	9.2	2.4
22	26.5	WSW	15:12	13.3	-7.5	-3.0	-2.5	-2.0	-0.5	1.5	2.5	4.5	9.4	10.4	90.3	9.4	2.2
23	32.4	SW	17:36	12.6	-9.5	-3.0	-2.5	-2.0	-0.5	1.5	2.5	4.5	8.9	10.5	84.9	9.9	3.7
24	45.0	NW	14:33	16.8	-0.5	-2.0	-2.0	-1.5	-0.5	1.5	2.5	4.5	4.5	10.5	42.7	6.7	4.5
25	52.6	NE	23:54	11.2	-12.5	-3.5	-2.5	-1.5	-0.5	1.5	2.5	4.5	7.6	10.6	71.6	9.9	3.4
26	71.6	NE	2:22	35.8	-16.5	-2.0	-2.0	-1.5	-0.5	1.5	2.5	4.5	0.0	10.7	0.0	5.1	5.1
27	31.7	NNE	0:50	11.0	-29.0	-3.5	-3.0	-2.0	-0.5	1.5	2.5	4.5	8.2	10.7	76.4	10.7	4.5
28	45.3	SE	23:31	18.0	-28.0	-4.5	-3.5	-2.5	-0.5	1.5	2.5	4.5	9.5	10.8	87.9	10.7	5.3
29	54.1	SE	13:11	29.6	-13.5	-5.0	-4.0	-3.5	-0.5	1.5	2.5	4.5	6.1	10.9	56.1	9.8	6.3
Total													149.3	289.1	51.6	196.2	90.3
Mean				14.0	-10.4	-2.2	-1.7	-1.5	-0.2	1.5	2.5	4.7	1991-2020 Normal				
Extreme	71.6	NE	2:22		1971- 2000 Normal for Soil Temperatures								139.6	281.6	49.6	209.1	100.9
Date	26				-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4	No. of Bright Sunshine days = 23					

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

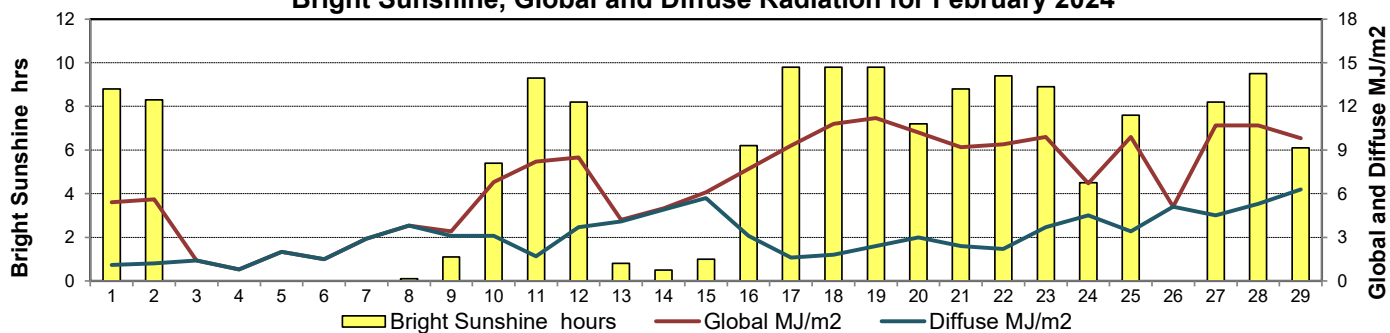
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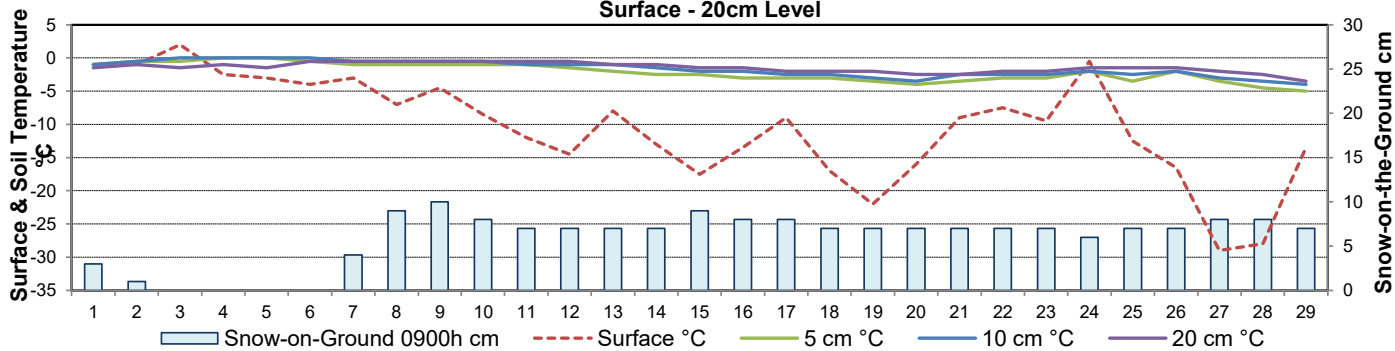
### Wind Speed for February 2024



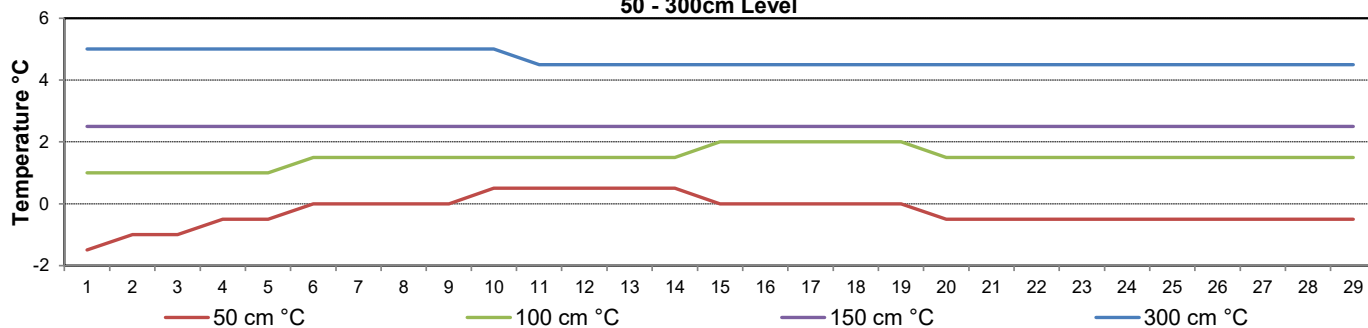
### Bright Sunshine, Global and Diffuse Radiation for February 2024



### Soil Temperatures for February 2024 Surface - 20cm Level



### Soil Temperatures for February 2024 50 - 300cm Level





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**Extreme Records for February**

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
12.8	19/1931	SE	9.0 16/2017	43.7	1924	SE	40.2 1979	106 <sup>N</sup>	22/1988	82.3 <sup>NNW</sup>	10/2004	191.5	2021	29	2020
-50.0	01/1893	SM	-41.1 06/1972	0.0 multiply sites			1.7	2021				57.6	1983	17	1983/1998

\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Term	Definition	
Temperature	Lowest Maximum Daily	27	-20.1	-20.0	1972	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
	Highest Maximum Daily	1	8.7	6.0	1991	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
	Highest Minimum Daily		1	-0.9	-1.5	1993	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
			4	-2.9	-3.6	2011	S	Saskatoon	1941-1942	na	not available
	Lowest Mean Daily		28	-23.3	-23.3	2014	SA	Saskatoon A	1942 -	<b>Degree-days</b>	
			1	3.9	1.0	1993	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
	Highest Mean Daily		1	3.9	1.0	1993	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
			1	3.9	1.0	1993	SWT	S'toon Water Treatment Plant	1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0
	Winter 2023-2024	Highest Seasonal Average Minimum		-12.5	-12.6	2012, 2016	SC	S'toon Central Ave	1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0
				-12.5	-12.6	2012, 2016	S1	Saskatoon 1	1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0
					S2	Saskatoon 2	1977-1990				

**Temperature**

February 2024

- 5th highest average monthly maximum temperature
- 6th highest average monthly minimum temperature
- 5th highest average mean monthly temperature

Winter 2023-2024 (period of record 1963-2024)

- 2nd highest maximum average temperature at -3.5C. Highest is 2012 (-1.9C)
- Highest minimum average temperature -12.5C. Previous was 2012 (-12.6C)
- 2nd highest mean average temperature at -8.0C. Highest is 2012 (-7.3C)

**Precipitation**

February 2024

9th highest amount of precipitation

Winter 2023-2024 (period of record 1963-2024)

28 out of 61 wettest (41.5mm)

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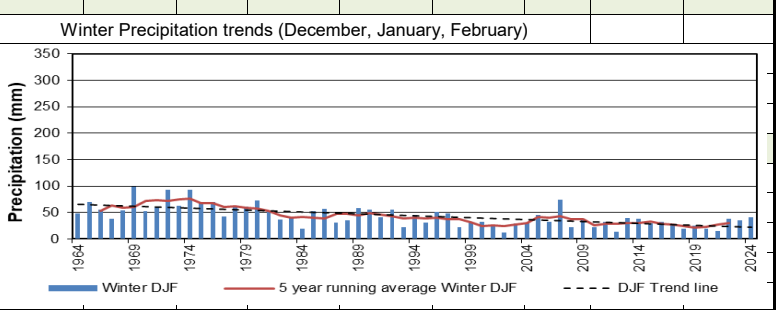
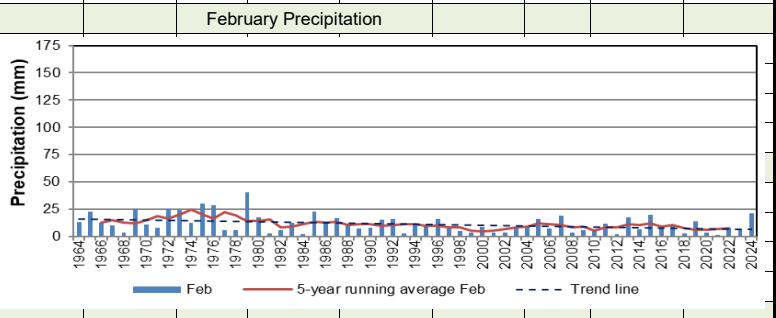
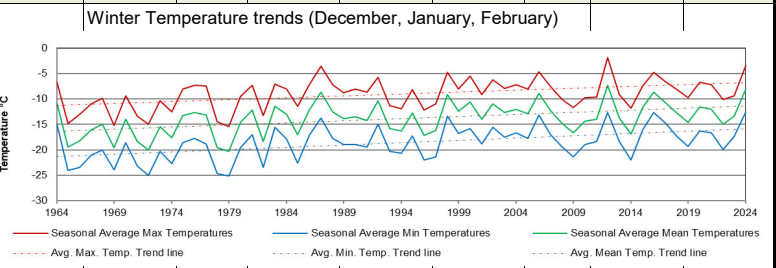
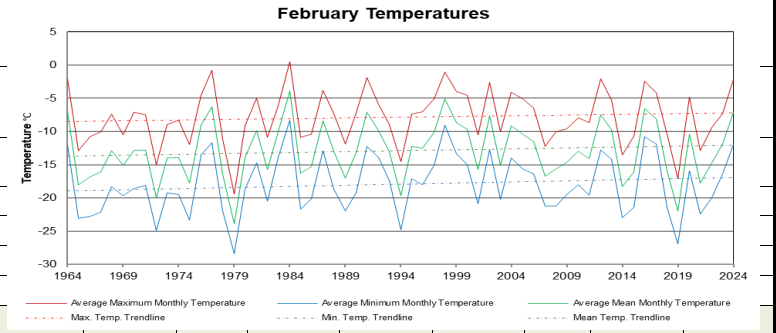
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52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary February 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	11.0	21.7	32.1	5.5	6.5	8.0
2	11.0	14.7	25.8	7.5	6.5	7.5
3	8.0	17.7	27.5	19.0	6.5	7.5
4	13.0	16.8	25.2	22.5	6.5	7.5
5	11.0	17.1	24.7	22.5	6.5	8.0
6	7.0	12.8	20.0	19.0	6.5	8.0
7	12.0	16.0	27.0	15.5	6.0	8.0
8	9.0	13.7	19.5	12.5	6.0	7.5
9	11.0	21.5	35.6	10.5	6.0	8.0
10	10.0	13.6	20.6	9.5	6.0	8.0
11	12.0	21.9	35.0	8.5	6.5	8.0
12	4.0	9.6	13.1	7.5	6.5	8.0
13	11.0	17.5	27.5	7.5	6.5	8.0
14	8.0	16.2	24.1	7.0	6.5	7.5
15	6.0	11.9	18.3	6.0	7.0	7.5
16	15.0	22.9	33.9	6.0	6.0	8.0
17	13.0	20.1	31.0	6.0	6.0	8.0
18	6.0	15.0	21.8	5.5	6.0	8.0
19	5.0	11.7	17.2	6.0	6.5	7.5
20	5.0	8.4	14.9	5.5	6.0	7.5
21	7.0	13.9	19.5	5.5	6.0	7.5
22	11.0	15.8	23.5	5.5	6.0	7.5
23	10.0	18.1	28.1	6.0	6.0	7.5
24	12.0	22.0	31.6	6.0	6.0	7.5
25	9.0	27.4	45.4	5.5	6.5	8.0
26	26.0	34.3	60.9	5.5	6.5	8.0
27	8.0	15.8	24.7	5.5	6.0	7.5
28	13.0	27.0	40.2	5.0	6.0	7.5
29	23.0	29.6	44.2	4.5	5.5	7.5
Total						
Mean				9	6	7.7
Extreme	26.0	34.3	60.9	22.5	7	8
Date	26	26	26	4	15	1

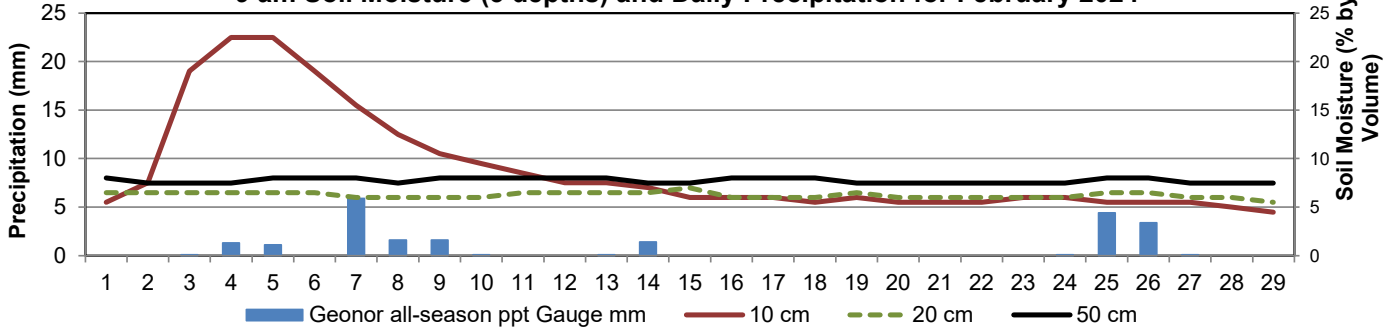


Note: Red numbers indicate manual calculation; Red cell indicate data not available

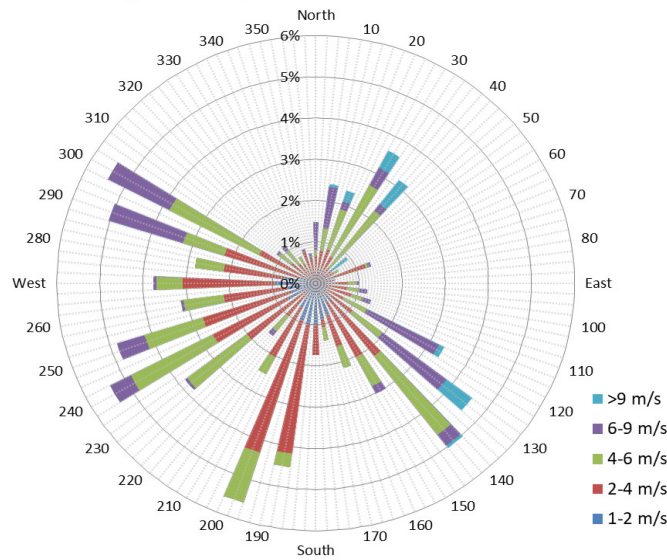
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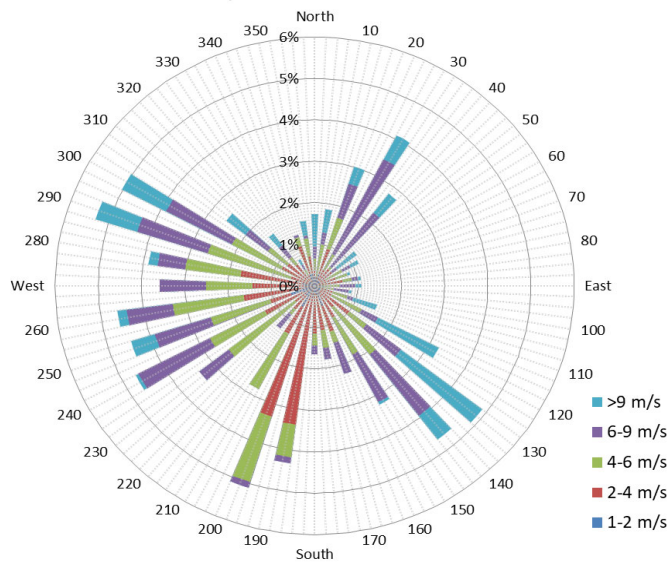
### 9 am Soil Moisture (3 depths) and Daily Precipitation for February 2024



### 10 minute Average Wind Speed and Direction Saskatoon Feb 2024

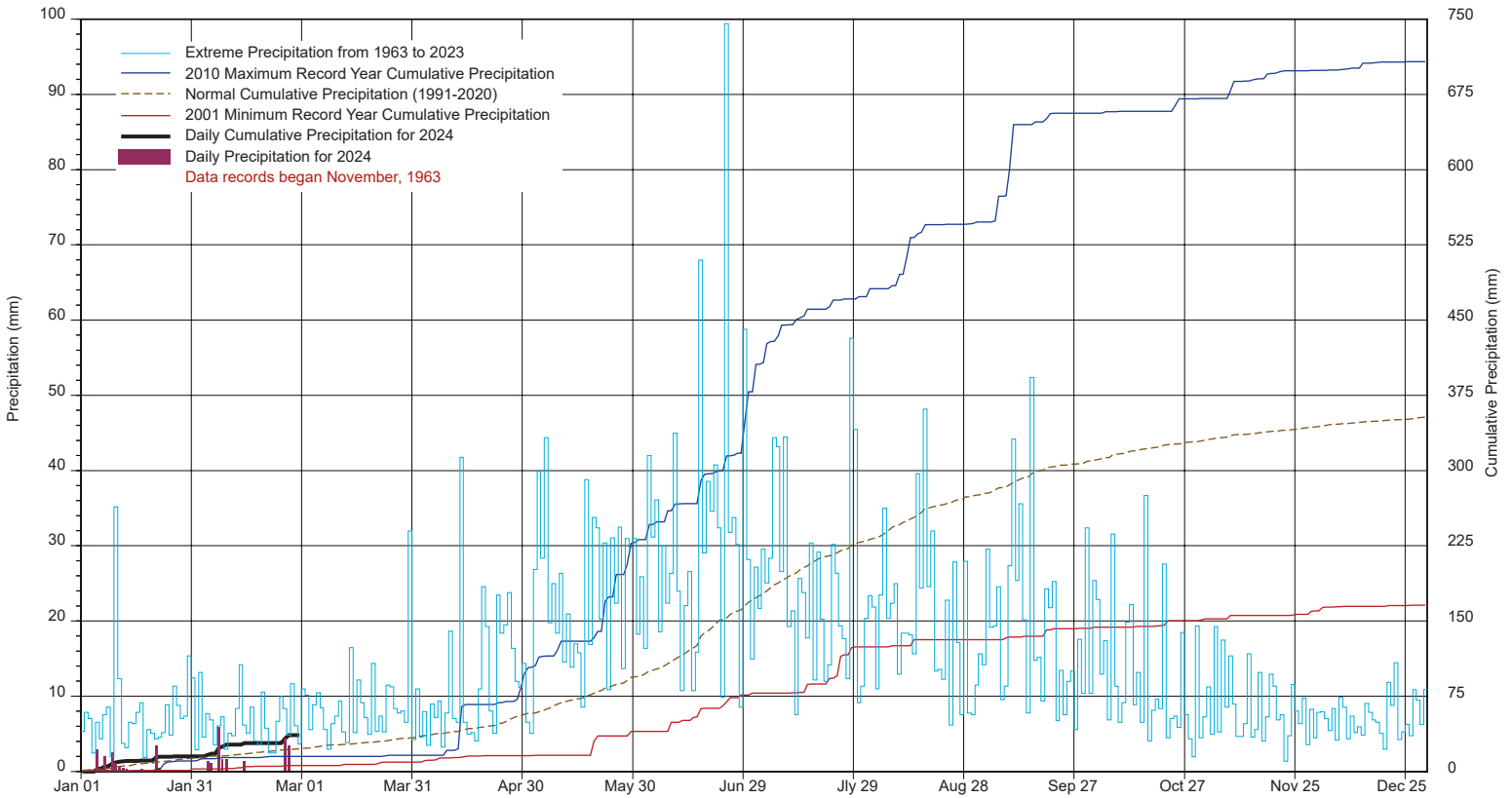


### 1/2 hr Maximum Wind Speed and Direction Saskatoon Feb 2024

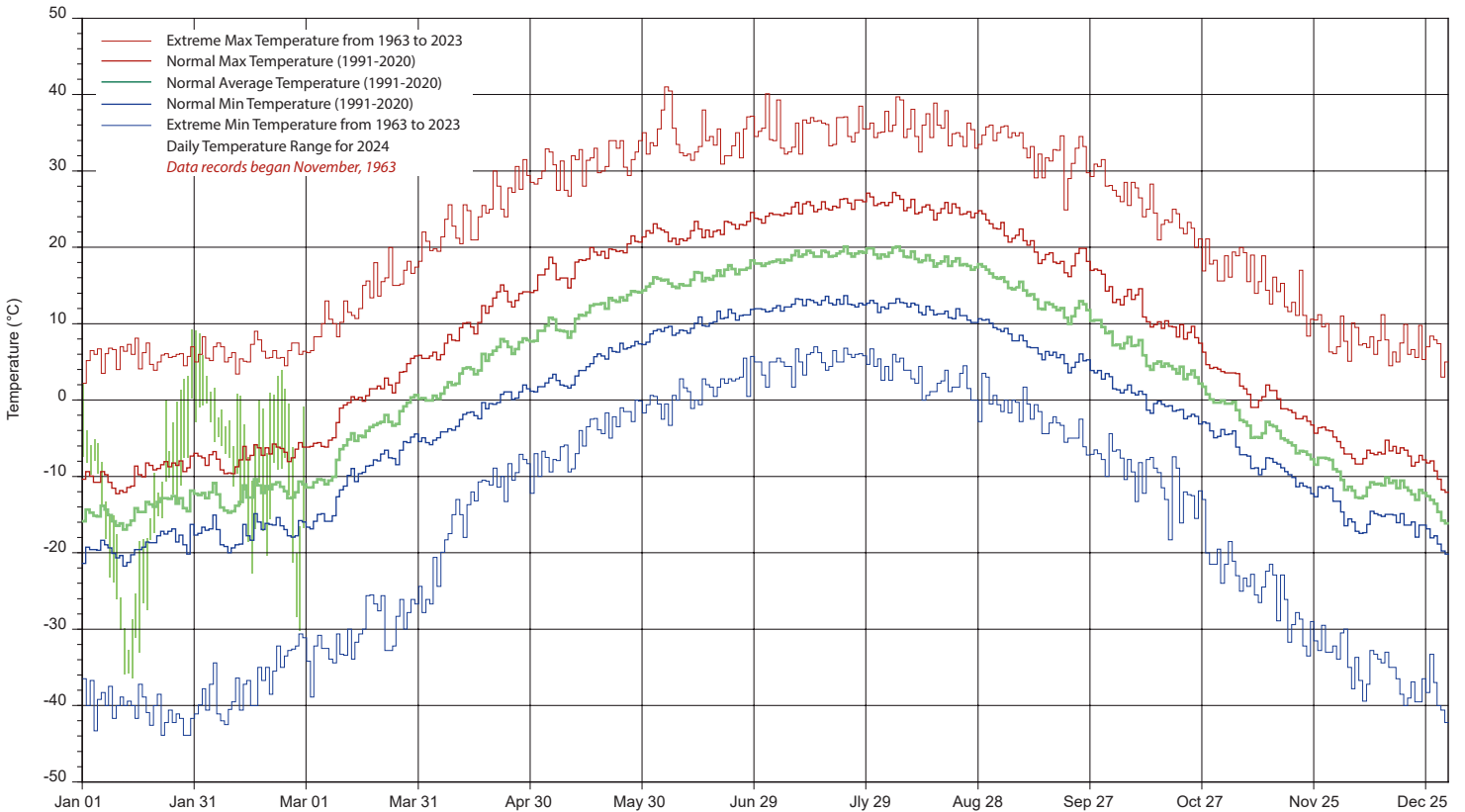




# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2024 PRECIPITATION AND NORMALS



## 2024 TEMPERATURES AND NORMALS



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