



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 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	-2.3	-6.1	-12.3	-16.6	-7.3	-11.4	0.0	25.3	0.0	0.2	light snow	7	86	54	1012	990
2	-11.5	-6.0	-14.7	-16.8	-13.1	-11.4	0.0	31.1	0.0	2.5	snow	7	85	55	1014	1009
3	-11.9	-5.6	-17.2	-15.8	-14.6	-10.7	0.0	32.6	0.0	17.0	snow	24	85	68	1010	1004
4	-17.1	-5.5	-23.5	-14.9	-20.3	-10.3	0.0	38.3	0.0	0.1	light snow	30	82	62	1016	1005
5	-16.3	-6.0	-28.3	-14.8	-22.3	-10.4	0.0	40.3	0.0	0.3	light snow	19	75	50	1020	1016
6	-13.8	-6.1	-21.5	-15.8	-17.7	-11.0	0.0	35.7	0.0	0.8	light snow	19	83	71	1019	1018
7	-12.1	-5.2	-23.0	-15.8	-17.6	-10.5	0.0	35.6	0.0	0.1		20	84	68	1021	1018
8	-3.0	-4.9	-23.5	-15.1	-13.3	-10.0	0.0	31.3	0.0	0.0		19	83	57	1021	1017
9	-0.7	-2.9	-14.3	-12.6	-7.5	-7.8	0.0	25.5	0.0	0.0		19	86	66	1016	1001
10	4.8	-1.0	-1.9	-11.7	1.5	-6.4	0.0	16.5	0.0	0.0		17	87	57	1003	999
11	4.4	-0.6	-4.1	-11.2	0.2	-5.9	0.0	17.8	0.0	0.0		15	89	65	1006	999
12	3.0	-0.3	-12.2	-9.8	-4.6	-5.1	0.0	22.6	0.0	0.0		13	93	74	1009	1006
13	1.2	0.5	-6.1	-8.9	-2.5	-4.3	0.0	20.5	0.0	0.7	light snow	13	91	72	1024	1009
14	1.8	0.1	-8.6	-10.6	-3.4	-5.3	0.0	21.4	0.0	0.0		13	92	79	1027	1018
15	6.1	0.4	-1.9	-9.6	2.1	-4.6	0.0	15.9	0.0	0.0		11	82	59	1021	1011
16	0.2	-0.1	-9.2	-9.4	-4.5	-4.8	0.0	22.5	0.0	0.1		4	78	52	1028	1021
17	-1.5	0.6	-12.6	-8.6	-7.1	-4.0	0.0	25.1	0.0	0.0		1	86	52	1030	1018
18	7.6	1.5	-2.6	-8.5	2.5	-3.5	0.0	15.5	0.0	0.0	discontinuous snow cover	1	79	56	1018	1010
19	2.3	1.5	-11.6	-7.8	-4.7	-3.2	0.0	22.7	0.0	0.2	very light snow	1	78	53	1026	1015
20	-8.3	1.9	-14.9	-7.9	-11.6	-3.0	0.0	29.6	0.0	0.0		1	80	47	1026	1024
21	-6.4	1.5	-17.2	-7.0	-11.8	-2.8	0.0	29.8	0.0	0.0		0	83	36	1027	1023
22	-7.4	2.9	-17.1	-6.5	-12.3	-1.9	0.0	30.3	0.0	0.0		0	71	34	1030	1026
23	-4.2	2.0	-16.8	-7.5	-10.5	-2.8	0.0	28.5	0.0	0.0		0	79	42	1026	1017
24	-3.2	1.0	-16.7	-7.6	-10.0	-3.3	0.0	28.0	0.0	0.0		0	81	36	1019	1017
25	-1.1	2.3	-12.5	-8.4	-6.8	-3.1	0.0	24.8	0.0	0.0		0	73	33	1020	1018
26	-6.0	3.7	-14.4	-6.5	-10.2	-1.4	0.0	28.2	0.0	0.0		0	77	39	1019	1015
27	-0.3	3.8	-14.3	-5.4	-7.3	-0.8	0.0	25.3	0.0	0.0		0	72	33	1016	1012
28	2.4	4.8	-7.7	-5.5	-2.7	-0.3	0.0	20.7	0.0	0.0		0	81	49	1012	1007
29	-1.6	5.5	-5.4	-4.8	-3.5	0.4	0.0	21.5	0.0	0.7	light snow	2	93	73	1016	1009
30	-0.4	5.8	-8.6	-4.4	-4.5	0.7	0.0	22.5	0.0	0.0		1	77	46	1016	1013
31	3.0	5.9	-10.3	-5.4	-3.7	0.2	0.0	21.7	0.0	0.0		0	83	45	1015	1008
Total							0.0	807.1	0.0	22.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-3.0	-0.1	-13.1	-10.0	-8.0	-5.1	1991-2020 Normal			11.2	1991-2020 Normal					
Extreme Date	7.6		-28.3				3.5	716.3	0.0	59.1	Year to date 2024 Cumulative		93	33	1030	990
	18		5							33.5	Year to date Cumulative Normal		12	25	17	1

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

It has not been corrected for wind speed.

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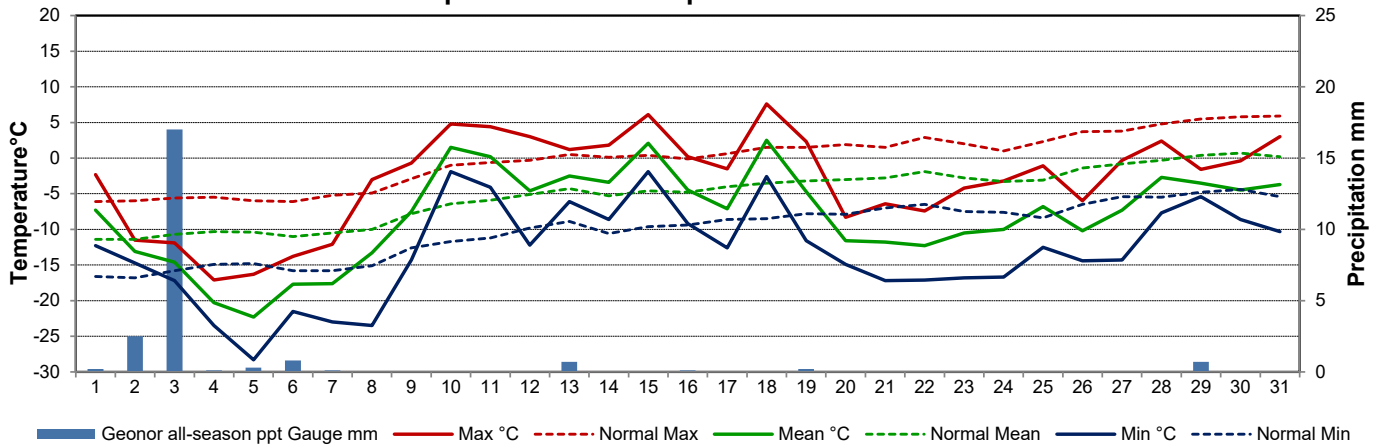
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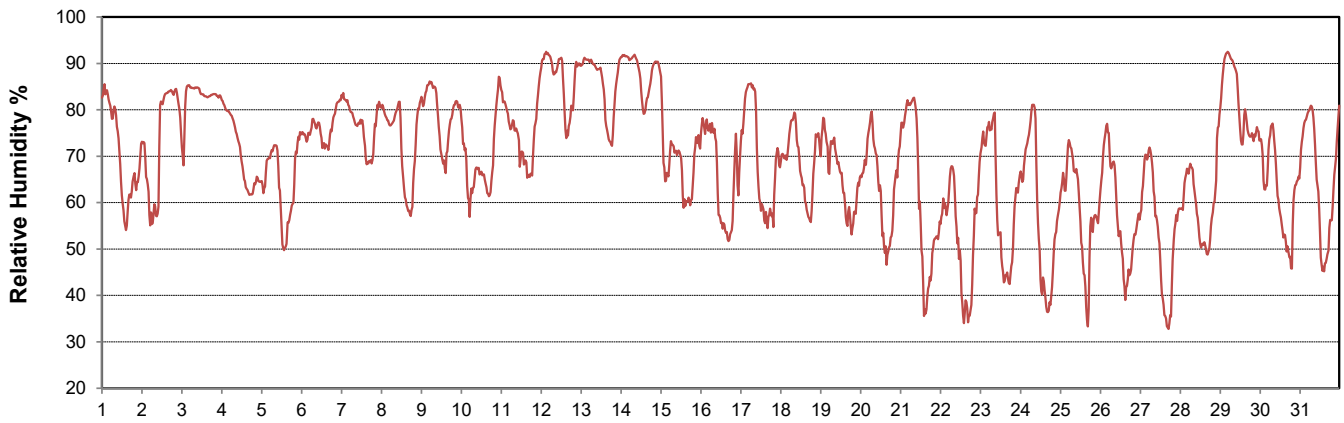
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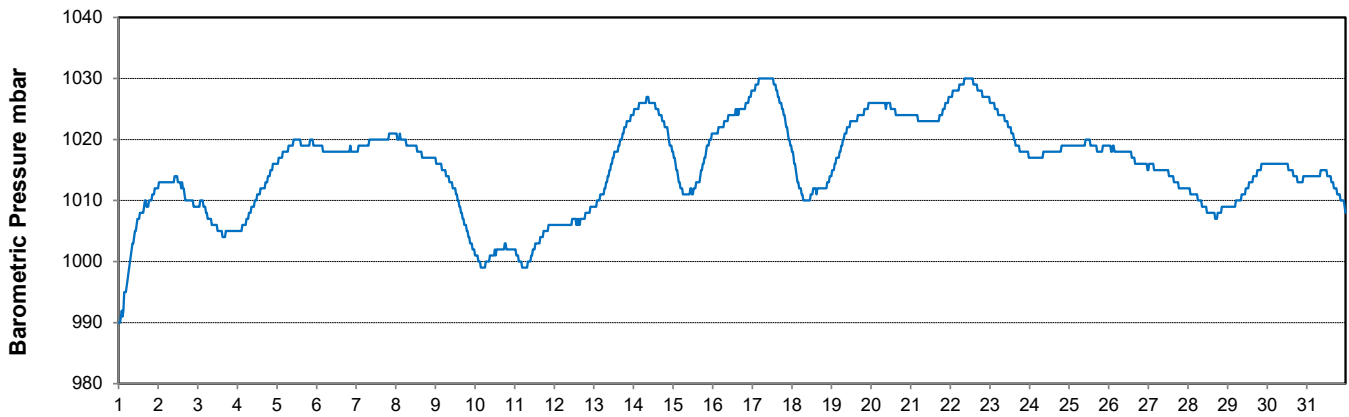
Temperature and Precipitation for March 2024



Relative Humidity for March 2024



Barometric Pressure Corrected to Sea Level for March 2024





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 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				°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	46.8	WNW	8:08	19.4	-12.0	-4.0	-3.5	-3.0	-1.0	1.5	2.5	4.5	7.2	10.9	65.8	11.2	3.4
2	54.8	NE	16:32	27.0	-13.5	-4.0	-3.5	-3.0	-1.0	1.5	2.5	4.5	0.0	11.0	0.0	3.7	3.7
3	50.9	ENE	6:18	20.8	-12.5	-4.0	-3.5	-3.0	-1.0	1.5	2.5	4.5	0.0	11.1	0.0	4.4	4.4
4	47.3	WNW	8:18	24.9	-17.0	-3.5	-3.5	-3.0	-1.0	1.5	2.5	4.5	9.5	11.1	85.3	12.3	3.8
5	22.3	W	0:28	10.9	-18.0	-4.0	-3.5	-3.0	-1.0	1.0	2.5	4.5	6.2	11.2	55.3	12.1	4.7
6	15.4	NE	2:14	7.8	-12.0	-4.0	-3.5	-3.0	-1.0	1.0	2.5	4.5	0.0	11.3	0.0	8.4	8.2
7	16.0	WSW	10:46	4.8	-12.0	-3.5	-3.5	-3.0	-1.0	1.0	2.5	4.5	10.5	11.4	92.5	13.0	4.2
8	23.1	SSW	10:54	10.2	-12.5	-3.5	-3.0	-3.0	-1.0	1.0	2.5	4.5	10.5	11.4	92.0	13.3	3.2
9	29.0	SE	21:16	11.9	-9.5	-3.5	-3.0	-3.0	-1.0	1.0	2.0	4.5	10.1	11.5	88.0	13.9	5.3
10	45.9	SW	7:07	19.9	-3.0	-3.5	-3.0	-3.0	-1.0	1.0	2.0	4.0	11.2	11.6	97.0	14.1	2.8
11	33.3	W	15:02	13.2	-1.0	-2.5	-2.5	-2.5	-1.0	1.0	2.0	4.0	9.8	11.6	84.3	13.1	3.4
12	18.8	ENE	6:01	7.9	-9.5	-2.5	-2.0	-2.0	-1.0	1.0	2.0	4.0	1.6	11.7	13.7	8.3	7.5
13	32.9	NNE	23:11	14.9	-3.5	-2.0	-1.5	-2.0	-1.0	1.0	2.0	4.0	5.1	11.8	43.4	9.0	5.7
14	39.4	WSW	16:11	14.4	-5.5	-2.0	-1.5	-1.5	-1.0	1.0	2.0	4.0	0.0	11.8	0.0	6.1	6.0
15	52.8	WNW	13:49	24.0	1.5	-2.0	-1.5	-1.5	-0.5	1.0	2.0	4.0	8.5	11.9	71.5	12.5	4.3
16	31.5	NNE	11:53	15.8	-4.0	-0.5	-0.5	-1.0	-0.5	1.0	2.0	4.0	9.2	12.0	76.9	13.7	3.8
17	25.3	SSW	18:54	9.2	-9.0	-0.5	-0.5	-0.5	-0.5	1.0	2.0	4.0	7.5	12.0	62.4	12.3	7.4
18	38.0	NW	10:54	18.2	-0.5	-1.0	-0.5	-0.5	-0.5	1.0	2.0	4.0	11.5	12.1	95.1	14.9	2.6
19	42.8	N	4:29	20.6	-7.0	-0.5	-0.5	-0.5	0.0	1.0	2.0	4.0	7.5	12.2	61.7	12.3	8.3
20	22.2	NNE	13:49	8.5	-13.0	-1.0	-0.5	-0.5	0.0	1.0	2.0	4.0	9.3	12.2	76.0	13.8	8.0
21	23.4	NNE	15:33	6.8	-14.5	-3.5	-2.5	-1.0	0.0	1.0	2.0	4.0	10.4	12.3	84.6	14.1	7.2
22	20.0	N	12:09	7.7	-15.0	-4.5	-3.5	-2.5	0.0	1.0	2.0	4.0	12.0	12.4	97.1	16.6	2.4
23	24.8	ESE	13:07	10.2	-12.5	-6.0	-5.0	-3.5	-0.5	1.0	2.0	4.0	11.9	12.4	95.7	17.2	3.0
24	25.5	E	12:31	11.2	-13.0	-6.0	-5.0	-4.0	-1.0	1.0	2.0	4.0	11.6	12.5	92.8	16.8	3.4
25	38.2	E	17:59	18.7	-10.5	-6.0	-5.5	-4.0	-1.0	1.0	2.0	4.0	11.1	12.6	88.3	16.6	5.3
26	28.6	SE	1:33	16.2	-12.5	-6.0	-5.0	-4.0	-1.0	1.0	2.0	4.0	11.8	12.6	93.4	17.4	2.9
27	42.8	ESE	21:18	20.1	-10.5	-6.5	-5.5	-4.5	-1.5	1.0	2.0	4.0	10.0	12.7	78.7	16.8	4.0
28	50.3	SE	12:32	22.7	-6.0	-5.0	-4.5	-4.0	-1.5	1.0	2.0	4.0	0.0	12.8	0.0	6.5	6.1
29	35.1	WNW	15:23	17.4	-4.5	-3.5	-3.5	-3.5	-1.5	1.0	2.0	4.0	0.0	12.8	0.0	6.6	6.3
30	33.9	WNW	0:52	13.8	-7.5	-3.5	-3.0	-3.0	-1.5	1.0	2.0	4.0	12.0	12.9	93.0	18.0	3.1
31	31.7	S	14:09	14.0	-7.5	-4.0	-3.5	-3.0	-1.5	0.5	2.0	4.0	9.3	13.0	71.7	17.0	5.0
Total													235.3	370.65	63.5	386.0	149.4
Mean				14.9	-9.3	-3.4	-3.0	-2.6	-0.9	1.0	2.1	4.1	1991-2020 Normal				
Extreme	54.8	NE	16:32		1971- 2000 Normal for Soil Temperatures								204.0	369.6	55.2	378.7	156.3
Date	2					-3.1	-2.8	-2.4	-1.5	-0.4	0.6	2.7	No. of Bright Sunshine days = 25				

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

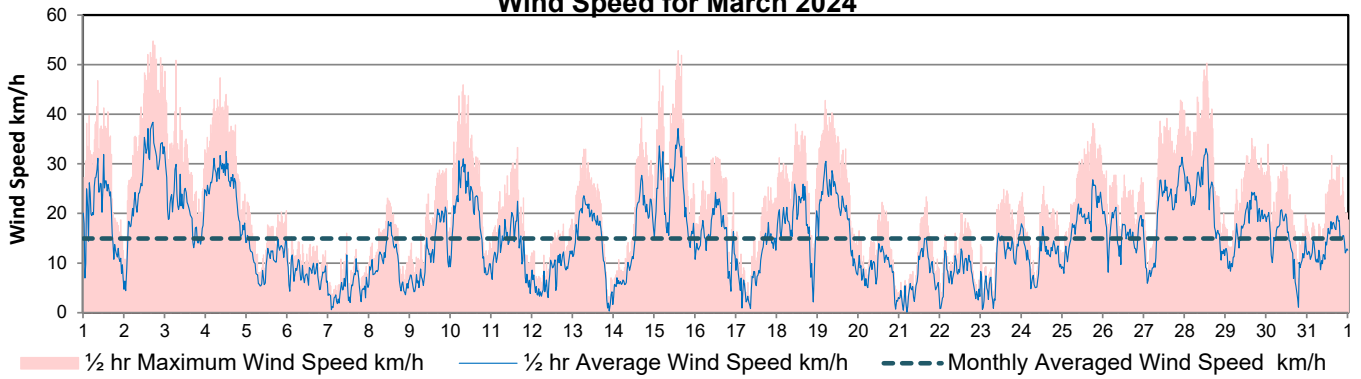
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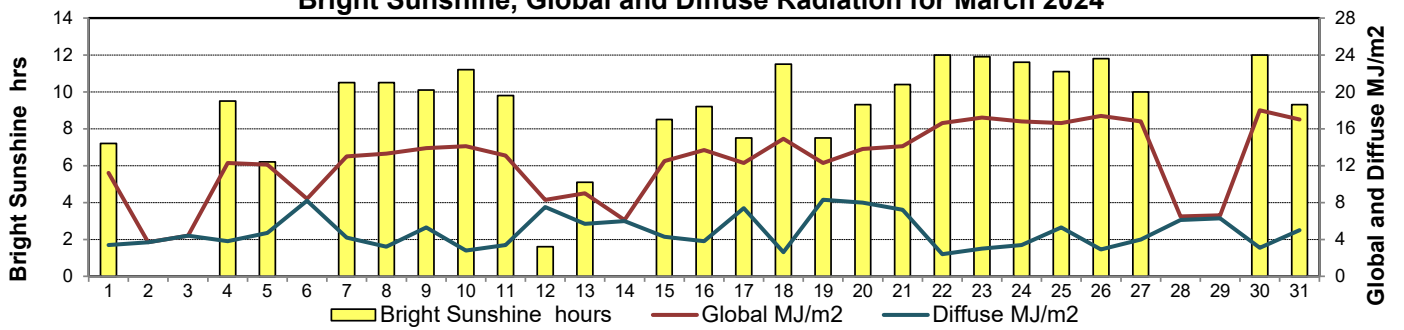
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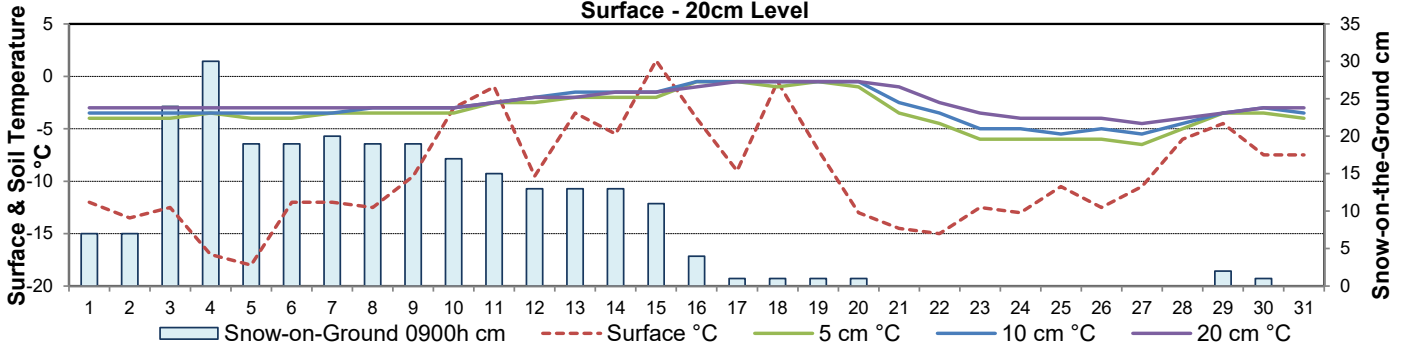
Wind Speed for March 2024



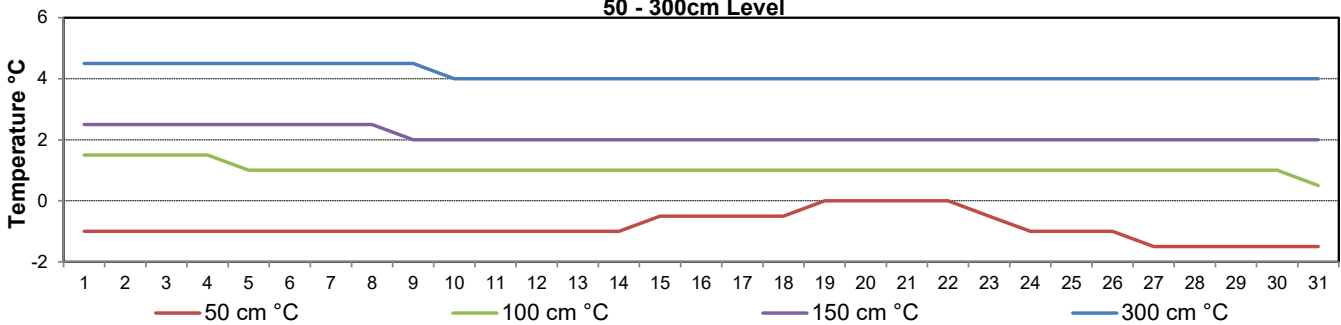
Bright Sunshine, Global and Diffuse Radiation for March 2024



Soil Temperatures for March 2024
Surface - 20cm Level



Soil Temperatures for March 2024
50 - 300cm Level





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

Preliminary **MARCH 2024**

Extreme Records for March

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
22.8	23/1910	SE	20.0 23/1993	59.0	1927	SE	57.1 1967	93 ^W	18/1959	89 ^W	08/1977	273.9	2019	31	1996/83/ 2010/19/23
-43.3	14/1897	SM	-38.9 02/1972	0.0	1915*	SE*	0.8 2010					102.8	1983	21	1983/87

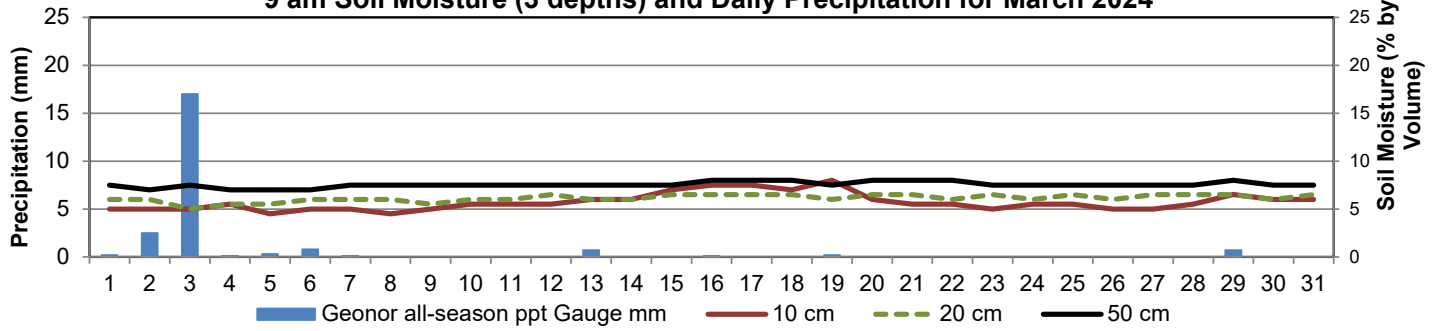
**1975 forward * more than one

Notable Events for CRS Saskatoon - March						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year				T	
Precipitation	Highest Daily Maximum	3	17.0	5.6	1968	SM	NWMP	c. 1892-1901	Normal	Trace of precipitation
<p>March 3 2024 ranked second in total snowfall moisture. The highest amount occurred on March 30, 1967 with 32.0mm</p> <p>March 2024 ranked 12th in greatest precipitation amounts in the last 60 years</p>						SE	Eby	1901-1941	Normal	30 year average beginning with the decade
						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		

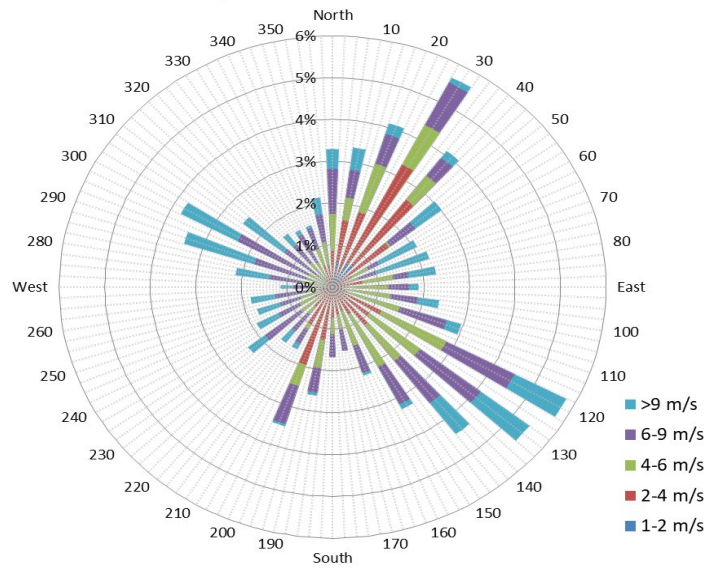
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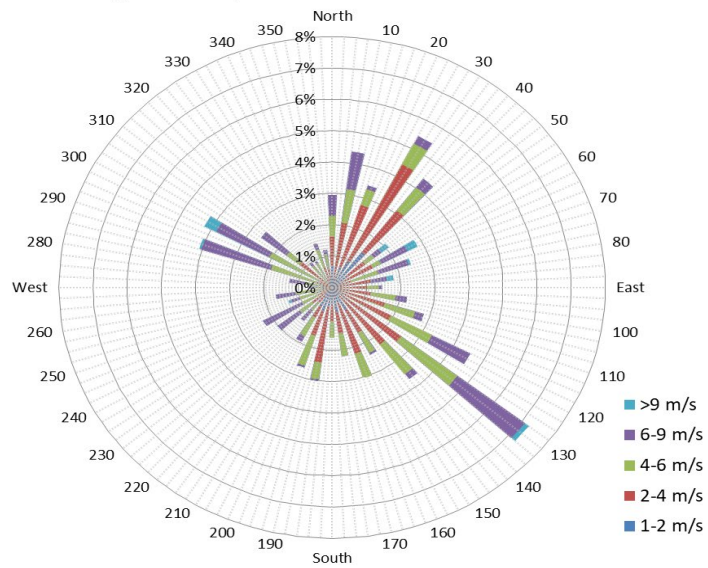
9 am Soil Moisture (3 depths) and Daily Precipitation for March 2024



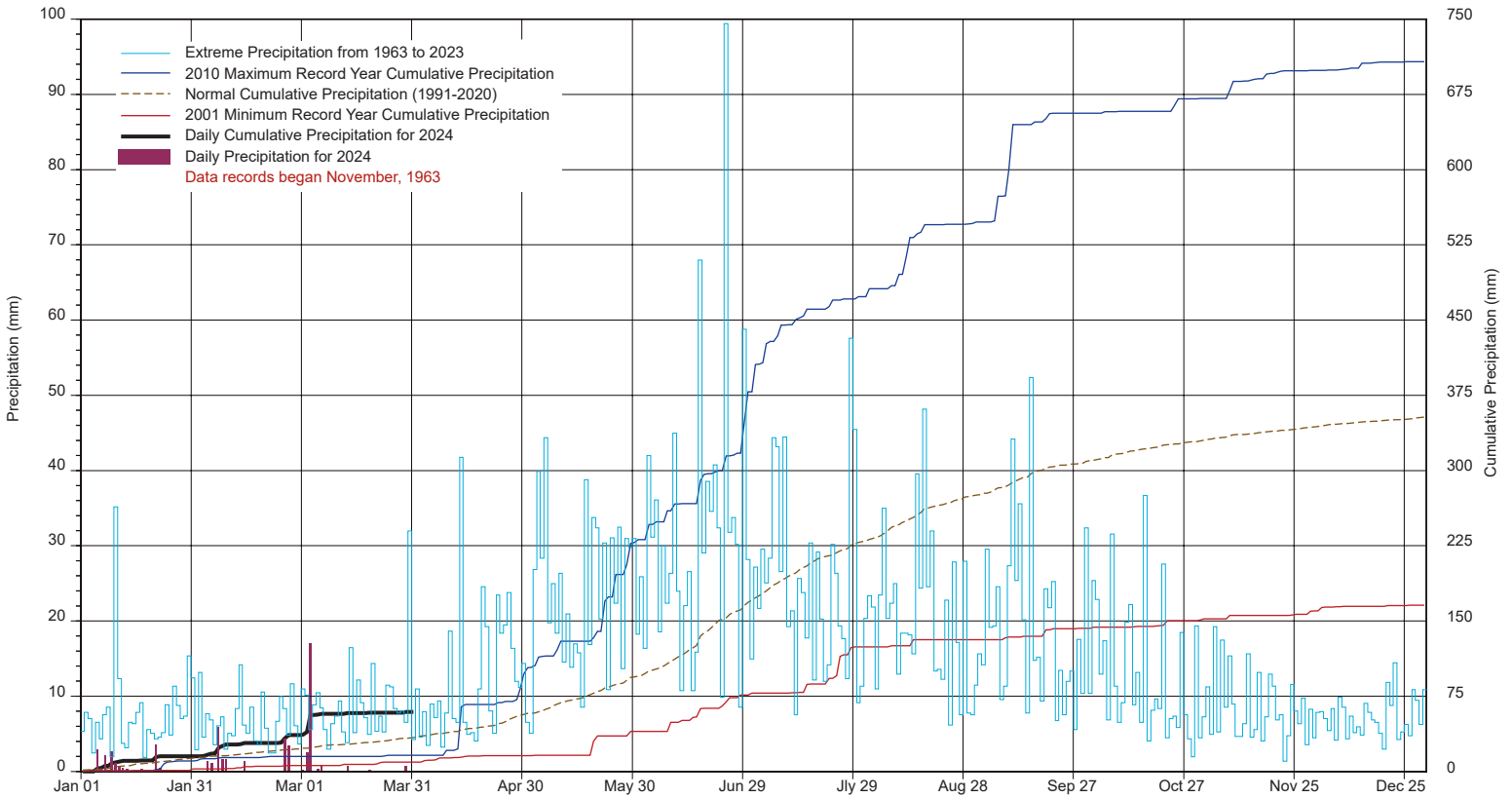
1/2 hr Maximum Wind Speed and Direction Saskatoon March 2024



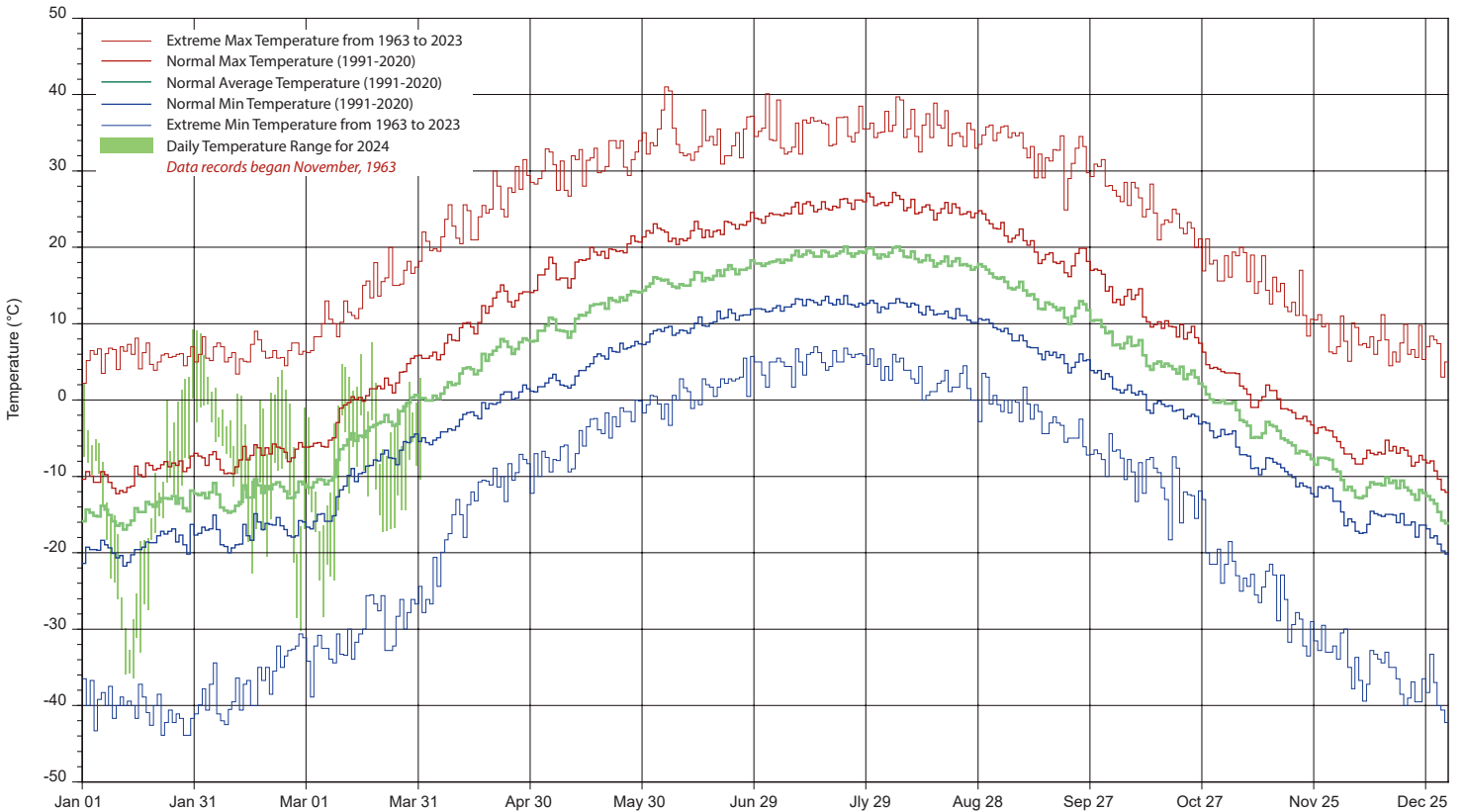
10 minute Average Wind Speed and Direction Saskatoon March 2024



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2024 PRECIPITATION AND NORMALS



2024 TEMPERATURES AND NORMALS



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