



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MARCH 2023

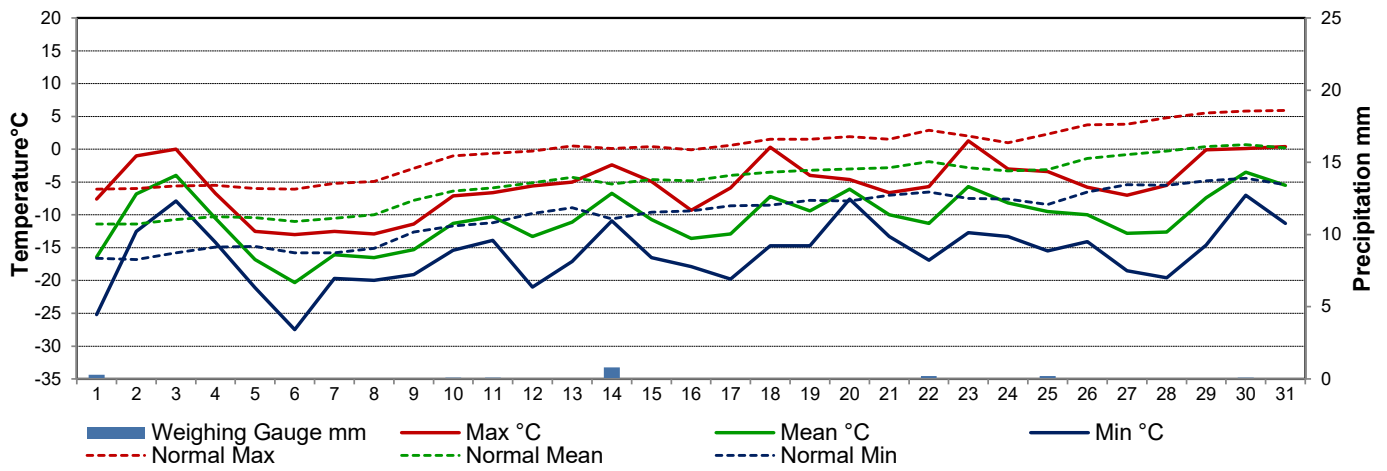
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1991-2020	°C	1991-2020	°C	1991-2020	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-7.6	-6.1	-25.2	-16.6	-16.4	-11.4	0.0	34.4	0.0	0.3	light snow	16	85	64	1015	1003
2	-1.0	-6.0	-12.5	-16.8	-6.8	-11.4	0.0	24.8	0.0	0.0		16	88	62	1003	992
3	0.0	-5.6	-7.9	-15.8	-4.0	-10.7	0.0	22.0	0.0	0.0		16	83	51	1003	993
4	-6.7	-5.5	-14.2	-14.9	-10.5	-10.3	0.0	28.5	0.0	0.0		16	88	67	1016	1003
5	-12.5	-6.0	-21.1	-14.8	-16.8	-10.4	0.0	34.8	0.0	0.0		16	87	60	1030	1016
6	-13.0	-6.1	-27.5	-15.8	-20.3	-11.0	0.0	38.3	0.0	0.0		16	81	54	1034	1030
7	-12.5	-5.2	-19.7	-15.8	-16.1	-10.5	0.0	34.1	0.0	0.0		16	70	60	1034	1033
8	-12.9	-4.9	-20.0	-15.1	-16.5	-10.0	0.0	34.5	0.0	0.0		16	73	57	1036	1034
9	-11.4	-2.9	-19.1	-12.6	-15.3	-7.8	0.0	33.3	0.0	0.0		16	77	64	1036	1026
10	-7.1	-1.0	-15.4	-11.7	-11.3	-6.4	0.0	29.3	0.0	0.1	light snow	16	84	73	1026	1014
11	-6.6	-0.6	-13.9	-11.2	-10.3	-5.9	0.0	28.3	0.0	0.1		16	87	74	1025	1014
12	-5.6	-0.3	-21.0	-9.8	-13.3	-5.1	0.0	31.3	0.0	0.0		15	86	54	1026	1022
13	-5.0	0.5	-17.1	-8.9	-11.1	-4.3	0.0	29.1	0.0	0.0		16	83	69	1021	1001
14	-2.4	0.1	-10.9	-10.6	-6.7	-5.3	0.0	24.7	0.0	0.8	light snow	16	89	70	1006	995
15	-4.9	0.4	-16.5	-9.6	-10.7	-4.6	0.0	28.7	0.0	0.0		16	86	61	1019	1006
16	-9.3	-0.1	-17.9	-9.4	-13.6	-4.8	0.0	31.6	0.0	0.0		16	85	66	1026	1019
17	-5.9	0.6	-19.8	-8.6	-12.9	-4.0	0.0	30.9	0.0	0.0		15	86	50	1029	1023
18	0.3	1.5	-14.7	-8.5	-7.2	-3.5	0.0	25.2	0.0	0.0		16	86	53	1027	1013
19	-4.0	1.5	-14.7	-7.8	-9.4	-3.2	0.0	27.4	0.0	0.0		15	86	69	1017	1013
20	-4.6	1.9	-7.6	-7.9	-6.1	-3.0	0.0	24.1	0.0	0.0	very light snow	16	91	74	1017	1014
21	-6.6	1.5	-13.3	-7.0	-10.0	-2.8	0.0	28.0	0.0	0.0	very light snow	15	86	70	1014	1012
22	-5.7	2.9	-16.9	-6.5	-11.3	-1.9	0.0	29.3	0.0	0.2	very light snow	15	87	67	1014	1010
23	1.3	2.0	-12.7	-7.5	-5.7	-2.8	0.0	23.7	0.0	0.0		16	86	51	1010	1005
24	-3.0	1.0	-13.3	-7.6	-8.2	-3.3	0.0	26.2	0.0	0.0		15	91	60	1015	1006
25	-3.4	2.3	-15.5	-8.4	-9.5	-3.1	0.0	27.5	0.0	0.2	very light snow	15	88	63	1016	1015
26	-5.8	3.7	-14.1	-6.5	-10.0	-1.4	0.0	28.0	0.0	0.0		15	90	60	1027	1015
27	-7.0	3.8	-18.5	-5.4	-12.8	-0.8	0.0	30.8	0.0	0.0		15	76	49	1028	1025
28	-5.5	4.8	-19.6	-5.5	-12.6	-0.3	0.0	30.6	0.0	0.0		15	87	63	1025	1020
29	-0.1	5.5	-14.6	-4.8	-7.4	0.4	0.0	25.4	0.0	0.0		15	88	54	1020	1011
30	0.1	5.8	-7.0	-4.4	-3.5	0.7	0.0	21.5	0.0	0.1	very light snow	15	87	67	1012	1011
31	0.4	5.9	-11.3	-5.4	-5.5	0.2	0.0	23.5	0.0	0.0		15	88	61	1011	1005
Total							0.0	889.8	0.0	1.8			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-5.4	-0.1	-15.9	-10.0	-10.7	-5.1	1991-2020 Normal			11.2	1991-2020 Normal					
Extreme Date	1.3		-27.5				3.5	716.3	0.0	14.1	Year to date 2023 Cumulative		91	49	1036	992
	23		6							33.5	Year to date Cumulative Normal		20	27	8	2

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

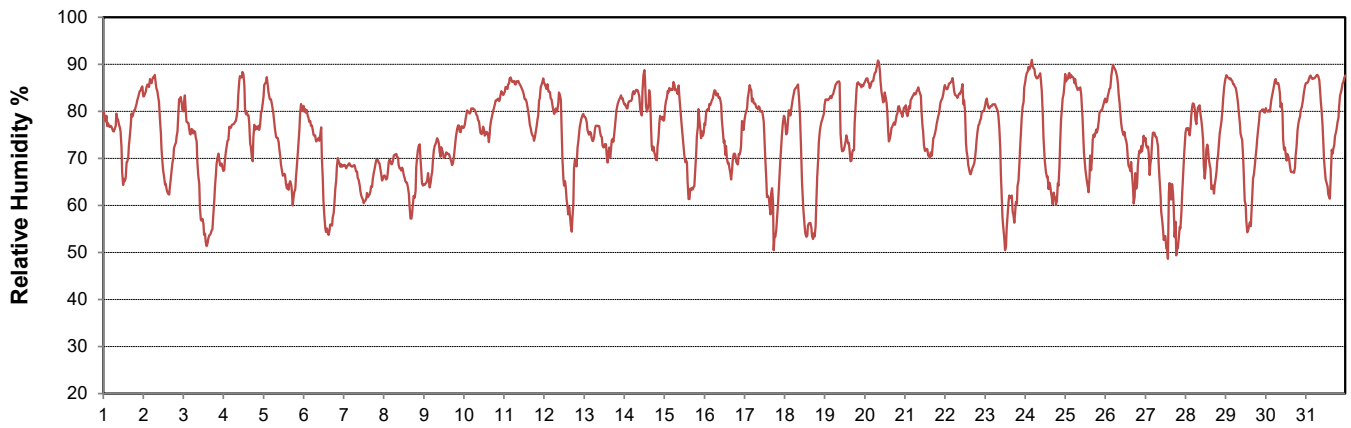
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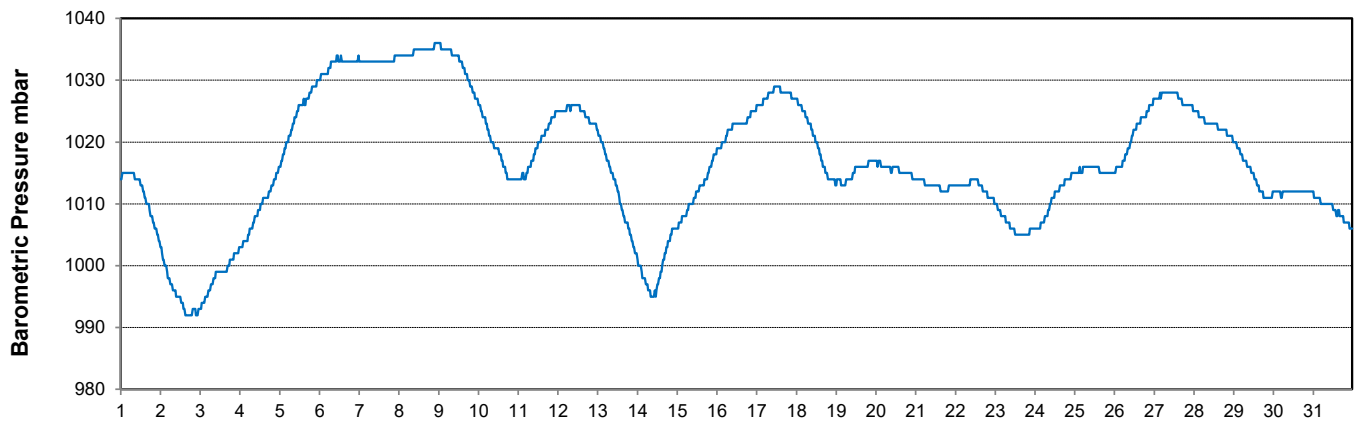
Temperature and Precipitation for March 2023



Relative Humidity for March 2023



Barometric Pressure Corrected to Sea Level for March 2022





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SASKATOON STATION 4057180

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

Preliminary MARCH 2023

Day	Wind Gust			Wind Speed (10 meters) Daily Average km/h	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	29.8	SE	17:42	10.9	-17.0	-5.0	-4.5	-4.0	-1.5	2.0	3.0	5.0	4.8	10.9	44.1	10.2	6.6
2	24.0	S	13:34	11.0	-10.5	-5.5	-4.5	-4.0	-1.5	1.5	3.0	5.0	4.6	11.0	42.0	11.0	6.2
3	36.3	WNW	14:00	15.7	-8.0	-5.0	-4.5	-4.0	-1.5	1.5	3.0	5.0	10.0	11.0	90.7	12.3	2.2
4	19.5	NE	14:53	7.9	-12.0	-4.5	-4.0	-3.5	-1.5	1.5	3.0	5.0	1.1	11.1	9.9	7.6	7.2
5	27.6	NNE	8:27	10.1	-16.0	-4.5	-4.0	-3.5	-1.5	1.5	3.0	5.0	10.2	11.2	91.4	12.1	4.7
6	24.2	E	15:32	9.1	-19.5	-4.5	-4.0	-3.5	-1.5	1.5	3.0	5.0	10.6	11.2	94.4	13.4	3.7
7	38.4	ESE	13:14	19.0	-15.0	-5.0	-4.5	-3.5	-1.5	1.5	2.5	4.5	8.8	11.3	77.9	12.2	7.6
8	32.5	ESE	10:33	18.8	-13.0	-5.0	-4.5	-4.0	-1.5	1.5	2.5	4.5	10.2	11.4	89.8	12.9	4.3
9	34.4	SE	21:42	16.9	-13.5	-5.0	-4.5	-4.0	-1.5	1.5	2.5	4.5	9.7	11.4	84.9	11.7	6.2
10	52.8	E	22:38	27.7	-10.5	-5.0	-4.5	-4.0	-1.5	1.5	2.5	4.5	5.9	11.5	51.3	10.9	6.4
11	43.1	E	1:13	20.8	-8.0	-5.0	-4.5	-4.5	-1.5	1.5	2.5	4.5	7.1	11.6	61.4	11.2	8.2
12	22.0	SE	15:41	8.2	-15.0	-4.5	-4.0	-3.5	-1.5	1.5	2.5	4.5	11.3	11.6	97.2	15.3	3.6
13	34.6	SE	23:31	18.5	-11.5	-4.5	-4.0	-3.5	-1.5	1.5	2.5	4.5	5.5	11.7	47.0	11.7	9.7
14	53.0	WNW	17:09	19.9	-7.0	-4.5	-4.0	-3.5	-1.5	1.0	2.5	4.5	2.5	11.8	21.2	7.2	6.3
15	21.8	WNW	17:07	8.4	-11.0	-4.0	-3.5	-3.5	-1.5	1.0	2.5	4.5	11.0	11.8	92.9	14.8	6.6
16	18.6	NE	18:24	7.8	-11.0	-4.0	-3.5	-3.5	-1.5	1.0	2.5	4.5	6.9	11.9	57.9	12.9	7.2
17	17.8	S	22:25	6.8	-14.0	-4.0	-4.0	-3.5	-1.5	1.0	2.5	4.5	11.5	12.0	96.1	16.7	3.6
18	31.5	WSW	18:07	13.9	-10.5	-4.5	-4.0	-3.5	-1.5	1.0	2.5	4.5	11.3	12.0	93.9	16.6	3.7
19	26.1	NE	16:35	12.0	-11.5	-4.5	-4.0	-3.5	-1.5	1.0	2.5	4.5	10.5	12.1	86.7	17.6	3.5
20	29.8	SE	12:16	13.9	-5.5	-4.0	-4.0	-3.5	-1.5	1.0	2.5	4.5	0.2	12.2	1.6	7.6	7.3
21	27.5	S	0:32	12.5	-7.5	-4.0	-3.5	-4.5	-1.5	1.0	2.5	4.5	9.3	12.2	76.0	15.1	7.9
22	26.0	SW	18:05	8.3	-10.5	-3.5	-3.0	-3.5	-1.5	1.0	2.5	4.5	9.7	12.3	78.8	16.9	5.4
23	35.5	SW	12:17	13.4	-8.5	-3.5	-3.0	-3.5	-1.0	1.0	2.0	4.5	12.0	12.4	96.9	17.2	2.9
24	34.8	NE	12:40	12.0	-9.5	-3.5	-3.0	-3.5	-1.0	1.0	2.0	4.0	11.1	12.5	89.2	16.6	6.6
25	26.8	W	14:46	10.2	-13.0	-3.0	-3.0	-3.0	-1.0	1.0	2.0	4.0	10.0	12.5	79.9	17.0	5.8
26	21.7	NE	10:28	10.7	-10.0	-3.5	-3.0	-3.0	-1.0	1.0	2.0	4.0	12.0	12.6	95.4	19.9	4.3
27	16.4	NW	17:16	6.8	-13.5	-3.0	-3.0	-2.5	-1.0	1.0	2.0	4.0	10.7	12.7	84.6	16.2	7.8
28	23.4	WNW	11:26	9.5	-15.0	-3.5	-3.0	-2.5	-1.0	1.0	2.0	4.0	10.1	12.7	79.4	16.7	5.8
29	37.3	SW	13:14	16.7	-11.5	-3.5	-3.0	-2.5	-1.0	1.0	2.0	4.0	11.7	12.8	91.5	18.5	6.0
30	30.1	E	11:08	12.3	-6.0	-3.5	-3.0	-2.5	-1.0	1.0	2.0	4.0	11.1	12.9	86.4	18.0	4.3
31	33.8	SSW	15:03	15.6	-6.0	-3.0	-2.5	-3.0	-1.0	1.0	2.0	4.0	12.2	12.9	94.4	19.2	4.5
Total													273.6	369.08	74.1	437.2	176.1
Mean				13.1	-11.3	-4.2	-3.7	-3.5	-1.4	1.2	2.5	4.5	1991-2020 Normal				
Extreme	53.0	WNW	17:09		1971- 2000 Normal for Soil Temperatures								204.0	369.6	55.2	378.7	156.3
Date	14				-3.1	-2.8	-2.4	-1.5	-0.4	0.6	2.7	No. of Bright Sunshine days = 31					

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

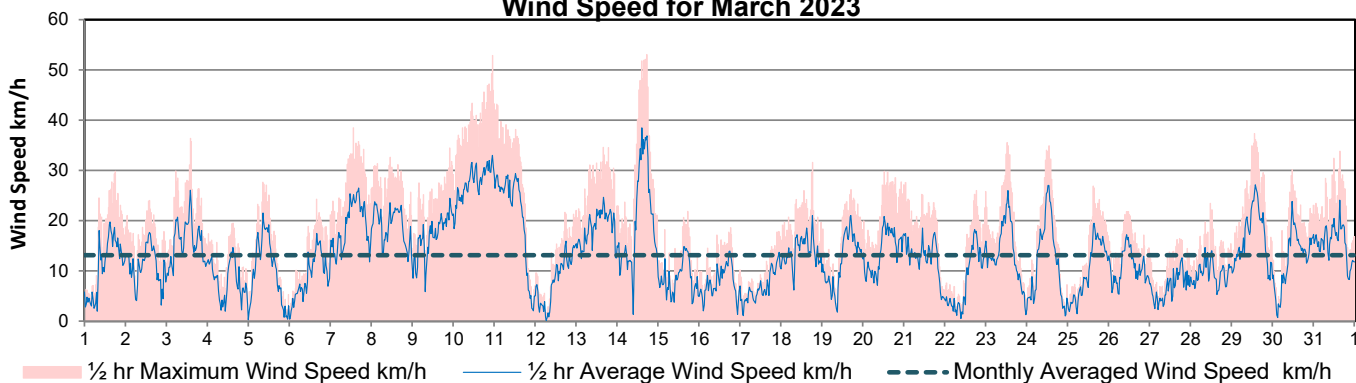
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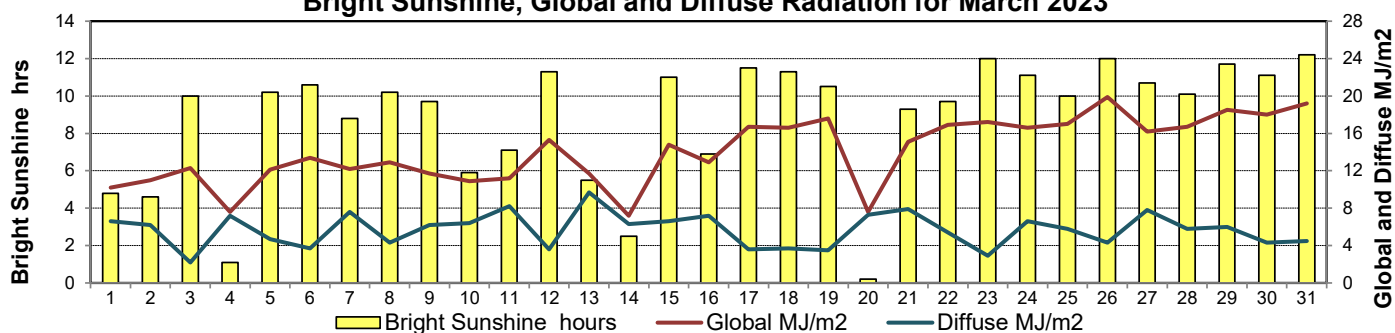
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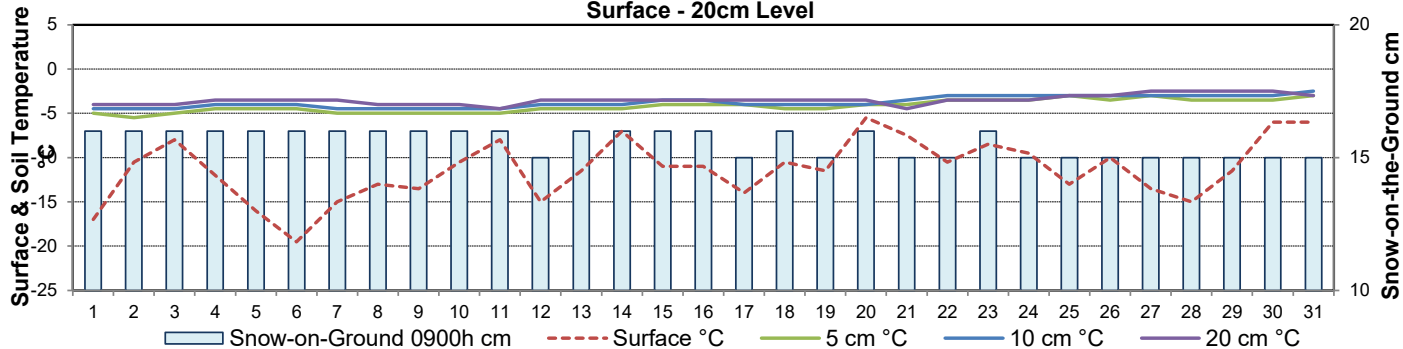
Wind Speed for March 2023



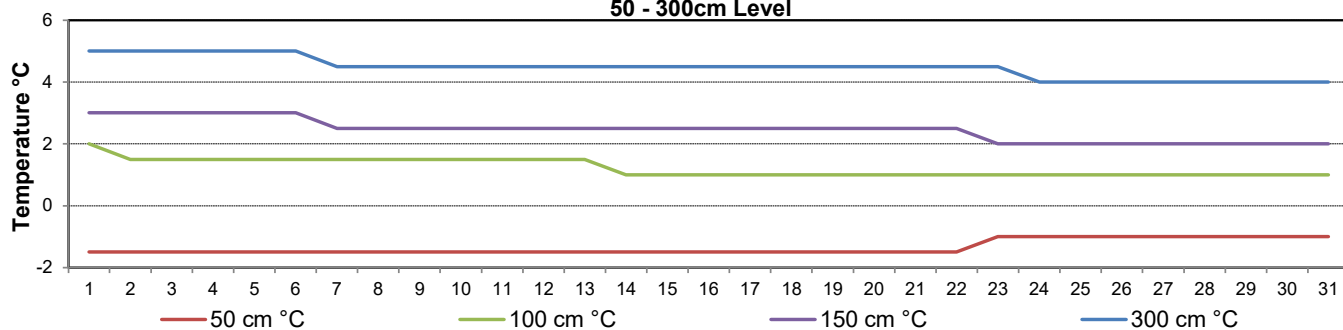
Bright Sunshine, Global and Diffuse Radiation for March 2023



Soil Temperatures for March 2023
Surface - 20cm Level



Soil Temperatures for March 2022
50 - 300cm Level





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

Preliminary **MARCH 2023**

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*
-43.3	14/1897	SM	-38.9	02/1972	0.0	1915*	SE*	0.8	2010					102.8	1983	21	1983*

**1975 forward * more than one

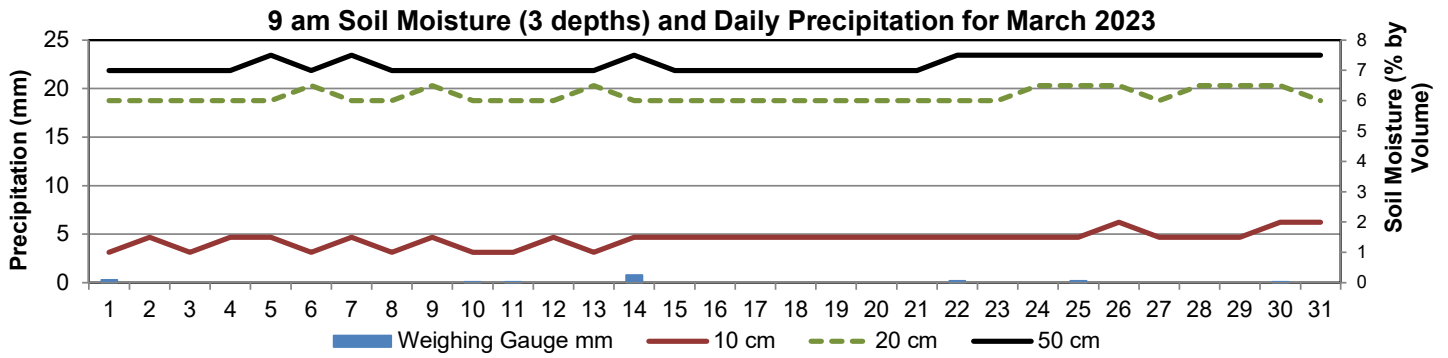
Notable Events for CRS Saskatoon - March						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Code	Description
Temperature 10th lowest average maximum monthly temperature 9th lowest average minimum monthly temperature 8th lowest average mean monthly temperature Maximum Daily Temperature went above 0C on four occasions in March 2023. The last time with fewer 0C occurrences was in 1975 with two.	Precipitation 2nd driest March in the past 60 years. March 2010 was drier with 0.8mm	Sunshine No. of days with measurable Bright Sunshine: 31 (2019, 2010, 1996) No. of days >=10 hours: 18 (2014)	SM	NWMP	c. 1892-1901	US	Univ. of Sask.	1915-1964	T	Trace of precipitation
			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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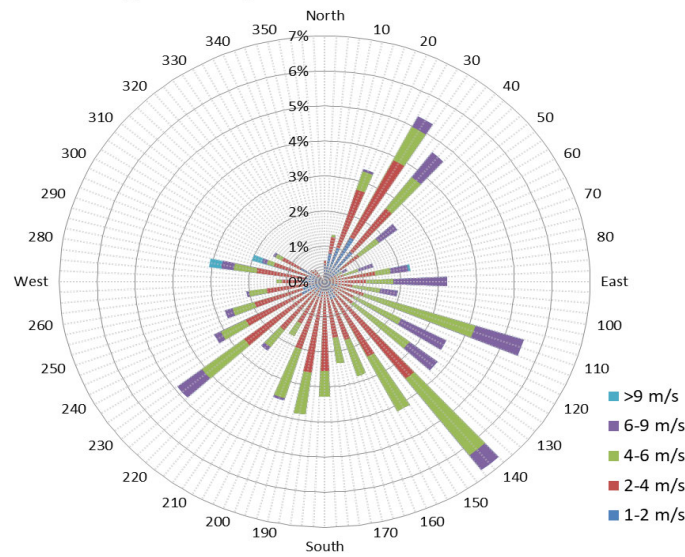


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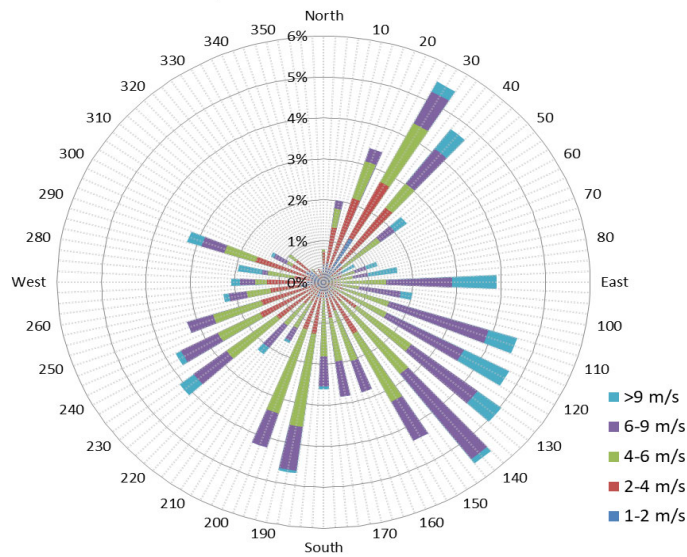




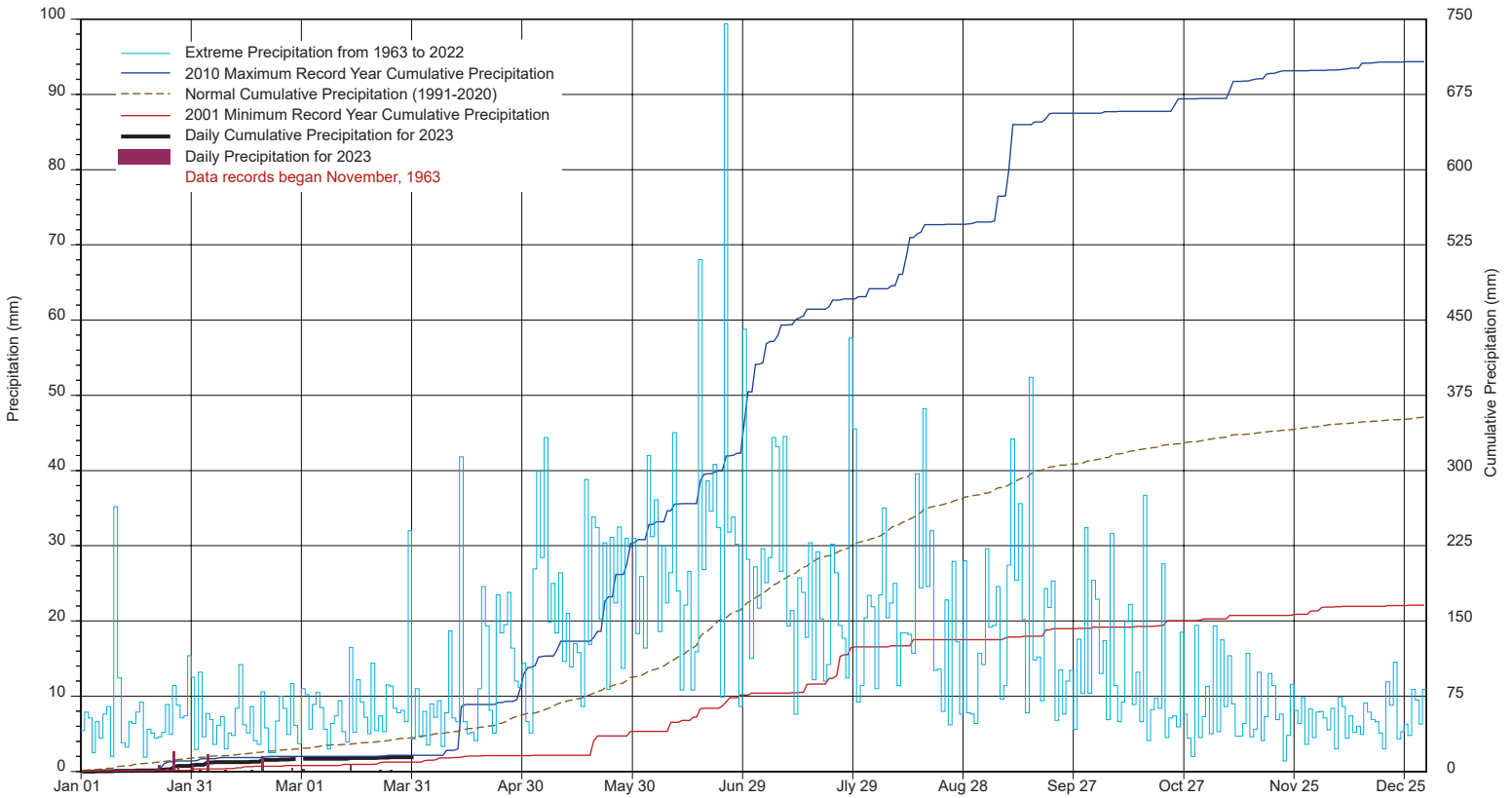
10 minute Average Wind Speed and Direction Saskatoon Mar 2023



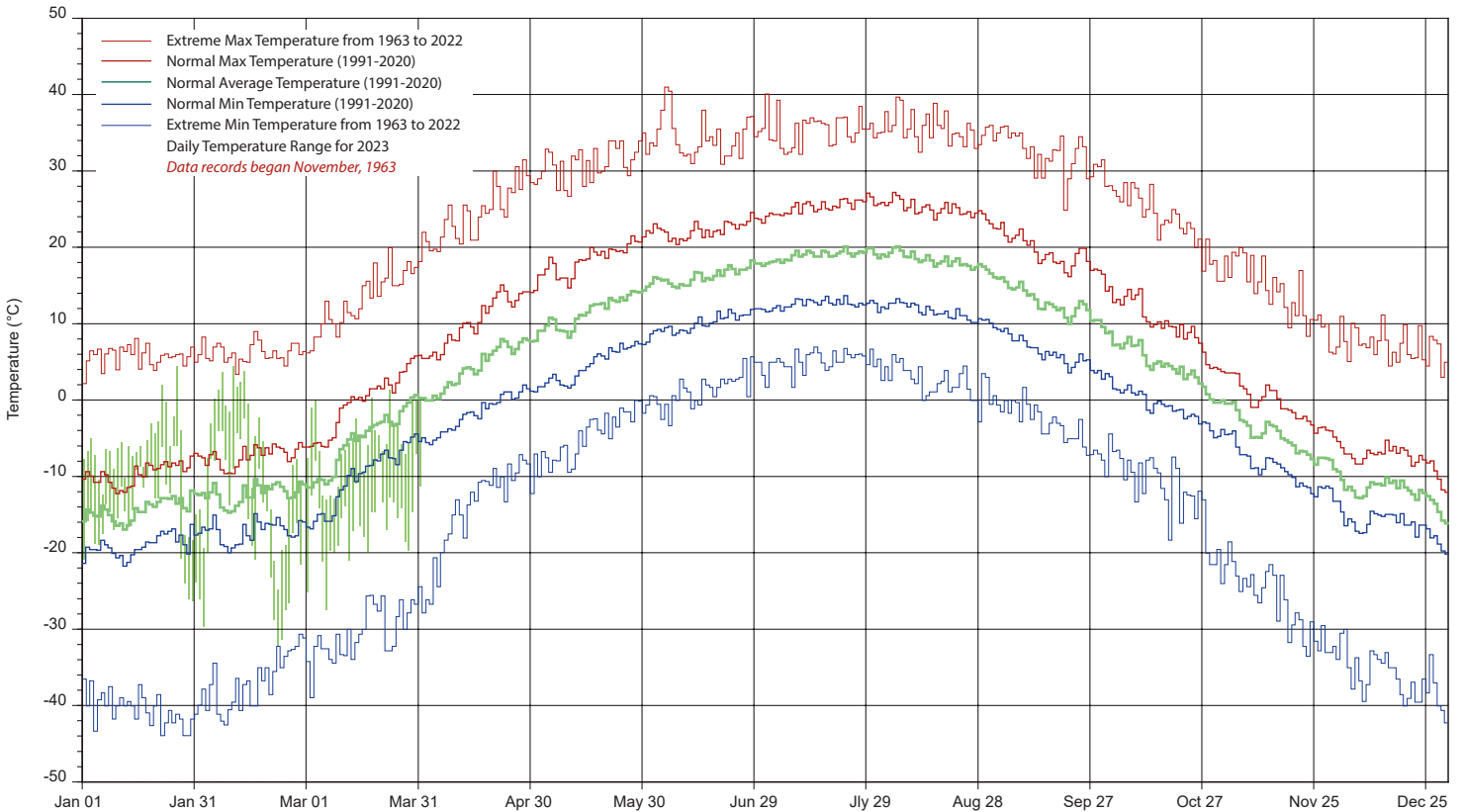
1/2 hr Maximum Wind Speed and Direction Saskatoon March 2023



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2023 PRECIPITATION AND NORMALS



2023 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:



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