



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MARCH 2022

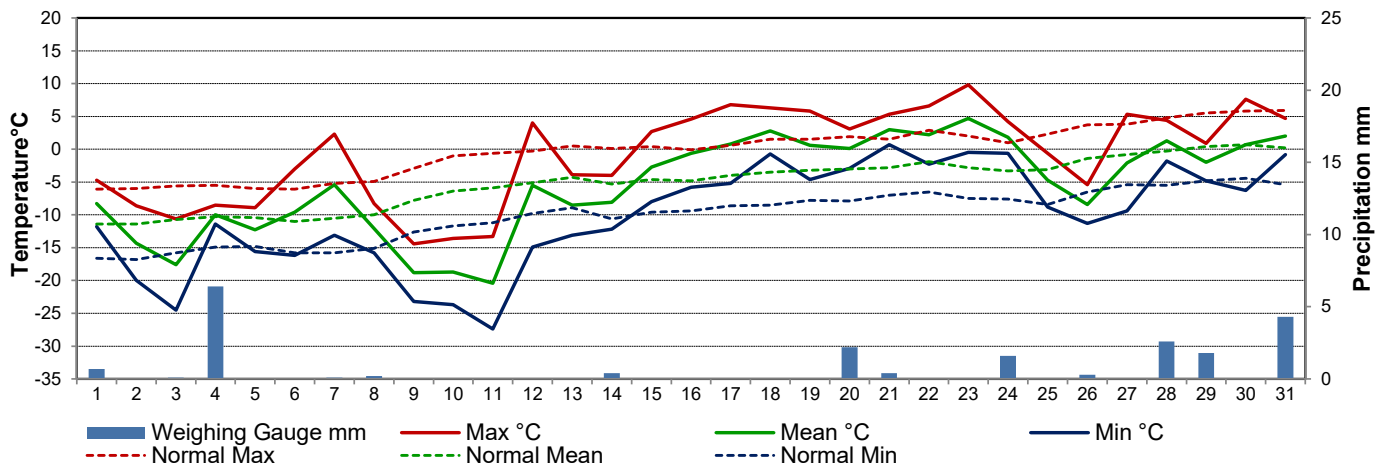
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1991-2020	°C	1991-2020	°C	1991-2020	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-4.7	-6.1	-11.8	-16.6	-8.3	-11.4	0.0	26.3	0.0	0.7	light snow	9	90	69	1021	1015
2	-8.6	-6.0	-20.0	-16.8	-14.3	-11.4	0.0	32.3	0.0	0.0		9	85	62	1029	1021
3	-10.6	-5.6	-24.5	-15.8	-17.6	-10.7	0.0	35.6	0.0	0.1		10	75	52	1029	1021
4	-8.5	-5.5	-11.4	-14.9	-10.0	-10.3	0.0	28.0	0.0	6.4	snow	16	89	54	1020	1016
5	-8.9	-6.0	-15.6	-14.8	-12.3	-10.4	0.0	30.3	0.0	0.0		23	88	66	1020	1017
6	-3.0	-6.1	-16.2	-15.8	-9.6	-11.0	0.0	27.6	0.0	0.0		22	92	73	1024	1020
7	2.3	-5.2	-13.1	-15.8	-5.4	-10.5	0.0	23.4	0.0	0.1	light snow / rain	20	91	60	1020	1006
8	-8.3	-4.9	-15.8	-15.1	-12.1	-10.0	0.0	30.1	0.0	0.2	light snow	18	88	56	1024	1014
9	-14.4	-2.9	-23.2	-12.6	-18.8	-7.8	0.0	36.8	0.0	0.0		17	76	59	1024	1013
10	-13.6	-1.0	-23.7	-11.7	-18.7	-6.4	0.0	36.7	0.0	0.0		17	78	49	1023	1005
11	-13.3	-0.6	-27.4	-11.2	-20.4	-5.9	0.0	38.4	0.0	0.0		19	75	47	1025	1008
12	4.0	-0.3	-14.9	-9.8	-5.5	-5.1	0.0	23.5	0.0	0.0		19	81	58	1008	999
13	-3.9	0.5	-13.1	-8.9	-8.5	-4.3	0.0	26.5	0.0	0.0		18	90	66	1016	1007
14	-4.0	0.1	-12.2	-10.6	-8.1	-5.3	0.0	26.1	0.0	0.4	light snow	18	93	75	1017	1010
15	2.7	0.4	-8.0	-9.6	-2.7	-4.6	0.0	20.7	0.0	0.0	fog	18	93	72	1010	1002
16	4.6	-0.1	-5.8	-9.4	-0.6	-4.8	0.0	18.6	0.0	0.0	fog	17	95	58	1013	1002
17	6.8	0.6	-5.2	-8.6	0.8	-4.0	0.0	17.2	0.0	0.0		13	91	48	1015	1006
18	6.3	1.5	-0.7	-8.5	2.8	-3.5	0.0	15.2	0.0	0.0		9	85	61	1011	1007
19	5.8	1.5	-4.6	-7.8	0.6	-3.2	0.0	17.4	0.0	0.0		7	90	50	1011	1008
20	3.1	1.9	-2.9	-7.9	0.1	-3.0	0.0	17.9	0.0	2.2	rain	5	92	79	1009	1006
21	5.3	1.5	0.7	-7.0	3.0	-2.8	0.0	15.0	0.0	0.4	light snow/rain	2	95	48	1015	1007
22	6.6	2.9	-2.3	-6.5	2.2	-1.9	0.0	15.8	0.0	0.0		0	86	41	1022	1015
23	9.8	2.0	-0.5	-7.5	4.7	-2.8	0.0	13.3	0.0	0.0		0	81	53	1020	1003
24	4.2	1.0	-0.6	-7.6	1.8	-3.3	0.0	16.2	0.0	1.6	light snow / rain	0	93	59	1019	1000
25	-0.6	2.3	-8.8	-8.4	-4.7	-3.1	0.0	22.7	0.0	0.0		0	92	51	1025	1019
26	-5.4	3.7	-11.3	-6.5	-8.4	-1.4	0.0	26.4	0.0	0.3		0	76	50	1027	1022
27	5.3	3.8	-9.4	-5.4	-2.1	-0.8	0.0	20.1	0.0	0.0		0	79	47	1021	1009
28	4.4	4.8	-1.8	-5.5	1.3	-0.3	0.0	16.7	0.0	2.6	light snow /freezing rain	0	92	54	1009	1003
29	0.9	5.5	-4.8	-4.8	-2.0	0.4	0.0	20.0	0.0	1.8	light snow /freezing rain	0	94	58	1016	1006
30	7.6	5.8	-6.3	-4.4	0.7	0.7	0.0	17.3	0.0	0.0		0	89	35	1015	1004
31	4.7	5.9	-0.8	-5.4	2.0	0.2	0.0	16.0	0.0	4.3	light snow	0	95	64	1004	996
Total							0.0	728.1	0.0	21.1			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-0.8	-0.1	-10.2	-10.0	-5.5	-5.1	1991-2020 Normal			11.2	1991-2020 Normal					
Extreme Date	9.8		-27.4				3.5	716.3	0.0	46.2	Year to date 2022 Cumulative		95	35	1029	996
	23		11							33.5	Year to date Cumulative Normal		16	30	2	31

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

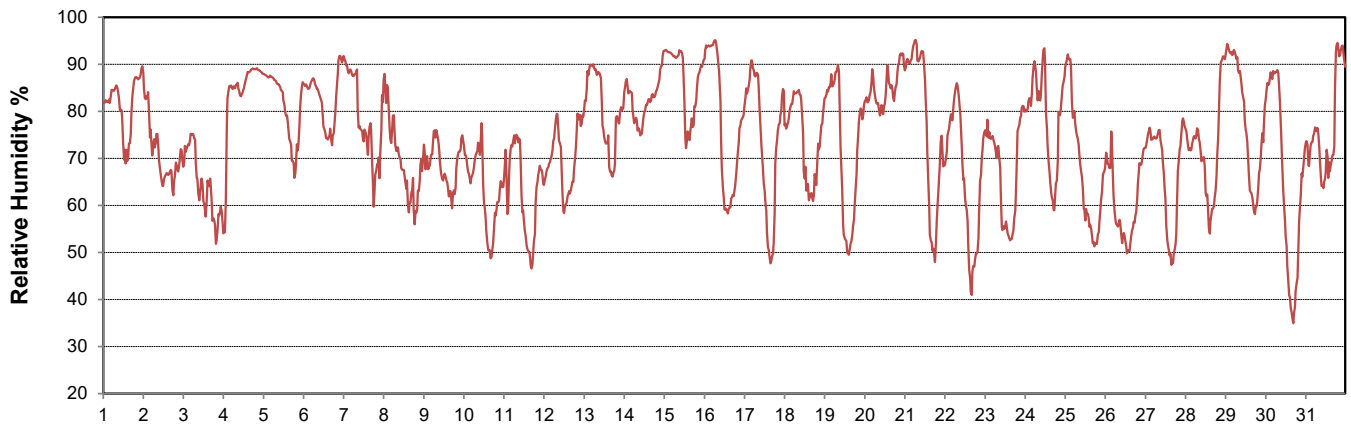
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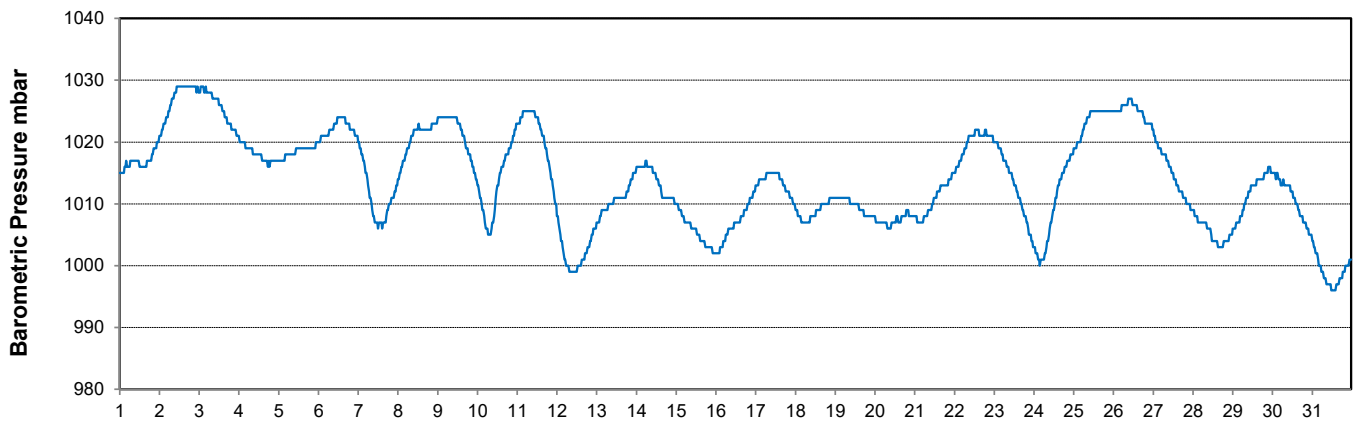
Temperature and Precipitation for March 2022



Relative Humidity for March 2022



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 2022

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	19.1	ENE	17:17	6.5	-8.0	-5.0	-4.5	-4.5	-2.0	1.0	2.0	4.0	0.4	10.9	3.7	6.2	5.9
2	26.9	ENE	5:08	11.0	-8.5	-4.5	-4.5	-4.0	-2.0	1.0	2.0	4.0	10.4	11.0	94.7	11.8	3.8
3	29.5	E	23:44	11.2	-13.0	-4.5	-4.0	-4.0	-2.0	1.0	2.0	4.0	6.5	11.0	58.9	9.3	7.7
4	42.6	E	11:11	19.5	-8.5	-5.0	-4.5	-4.0	-2.0	0.5	2.0	4.0	0.0	11.1	0.0	4.6	4.5
5	27.9	N	5:40	14.1	-8.0	-4.5	-4.5	-4.0	-2.0	0.5	2.0	4.0	6.5	11.2	58.1	10.1	6.9
6	25.3	WSW	22:06	10.9	-8.5	-4.5	-4.0	-3.5	-2.0	0.5	2.0	4.0	7.9	11.3	70.2	11.6	5.0
7	69.3	WNW	15:26	26.6	-8.0	-4.0	-4.0	-3.5	-2.0	0.5	2.0	4.0	2.0	11.3	17.7	8.4	7.3
8	66.2	NNW	3:56	25.4	-7.5	-4.0	-3.5	-3.5	-1.5	0.5	2.0	4.0	4.2	11.4	36.9	10.8	8.4
9	38.5	WNW	15:08	18.5	-10.5	-3.5	-3.5	-3.0	-1.5	0.5	2.0	4.0	11.2	11.5	97.8	14.2	2.5
10	68.3	NNW	11:20	24.8	-11.5	-4.0	-3.5	-3.0	-1.5	0.5	2.0	4.0	9.1	11.5	79.0	13.8	3.4
11	31.6	SW	15:58	12.6	-13.0	-4.0	-3.5	-3.0	-1.5	0.5	2.0	4.0	10.6	11.6	91.5	14.7	6.2
12	49.5	NW	23:38	19.7	-10.0	-4.5	-4.0	-3.5	-1.5	0.5	2.0	4.0	8.2	11.7	70.4	13.6	3.8
13	25.7	NE	14:30	8.1	-7.5	-3.5	-3.5	-3.0	-1.5	0.5	2.0	4.0	6.8	11.7	58.0	10.8	8.6
14	34.8	ENE	5:46	15.1	-8.0	-3.5	-3.0	-3.0	-1.5	0.5	2.0	4.0	0.0	11.8	0.0	7.7	7.6
15	18.5	SE	21:47	6.8	-5.5	-3.5	-3.0	-3.0	-1.5	0.5	2.0	4.0	1.1	11.9	9.3	9.8	9.3
16	42.6	W	15:19	16.9	-4.5	-3.0	-3.0	-2.5	-1.5	0.5	2.0	4.0	11.3	11.9	94.8	16.1	3.0
17	23.9	S	17:16	9.9	-3.5	-2.0	-1.5	-2.0	-1.0	0.5	2.0	4.0	10.8	12.0	90.1	16.2	2.6
18	29.6	W	15:47	10.7	-0.5	-1.5	-1.5	-1.5	-1.0	1.0	2.0	3.5	9.7	12.1	80.4	14.0	4.0
19	28.2	ESE	14:37	10.5	-3.0	-0.5	-0.5	-1.0	-1.0	1.0	2.0	3.5	11.3	12.1	93.2	16.0	3.4
20	33.2	E	10:05	13.0	0.5	-0.5	-0.5	-0.5	-0.5	1.0	2.0	3.5	0.0	12.2	0.0	4.1	3.9
21	49.1	WNW	11:27	21.4	0.5	0.0	0.0	-0.5	0.0	1.0	2.0	3.5	7.0	12.3	57.1	12.9	4.1
22	30.1	WNW	9:32	13.5	-2.0	0.0	0.0	0.0	0.0	1.0	2.0	3.5	12.0	12.3	97.3	17.4	2.2
23	30.6	SSE	14:13	14.2	1.5	0.0	0.0	0.0	0.0	1.0	2.0	3.5	7.3	12.4	58.9	13.1	8.2
24	69.7	NW	11:24	23.8	2.5	0.0	0.0	0.0	0.5	1.0	2.0	3.5	6.3	12.5	50.6	11.0	3.8
25	32.7	N	10:57	14.9	-7.5	0.0	0.0	0.0	0.5	1.0	2.0	3.5	12.1	12.5	96.6	18.1	2.3
26	33.5	ESE	18:13	17.3	-9.5	0.0	0.0	0.0	0.5	1.5	2.0	3.5	10.8	12.6	85.7	14.6	7.4
27	42.0	SE	10:43	22.7	-5.5	0.0	0.0	0.0	0.5	1.5	2.0	3.5	9.9	12.7	78.1	16.9	4.1
28	38.5	SE	11:34	18.8	-1.0	0.0	0.0	-0.5	0.5	1.5	2.0	3.5	3.9	12.7	30.6	9.3	7.4
29	43.7	N	11:08	20.0	-4.0	0.0	0.0	-1.0	0.5	1.5	2.0	3.5	9.3	12.8	72.7	16.8	5.3
30	35.3	SE	22:30	13.2	-2.5	0.0	0.5	0.0	0.5	1.5	2.0	3.5	12.2	12.9	94.8	19.7	3.2
31	47.8	W	23:20	23.6	4.0	0.0	0.5	0.0	1.0	1.5	2.0	3.5	5.2	12.9	40.2	9.9	5.5
Total													224.0	369.60	60.6	383.5	161.3
Mean				16.0	-5.5	-2.3	-2.0	-2.0	-0.9	0.9	2.0	3.8	1991-2020 Normal				
Extreme	69.7	NW	11:24		1971- 2000 Normal for Soil Temperatures								204.0	369.6	55.2	378.7	156.3
Date	24				-3.1	-2.8	-2.4	-1.5	-0.4	0.6	2.7	No. of Bright Sunshine days = 28					

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

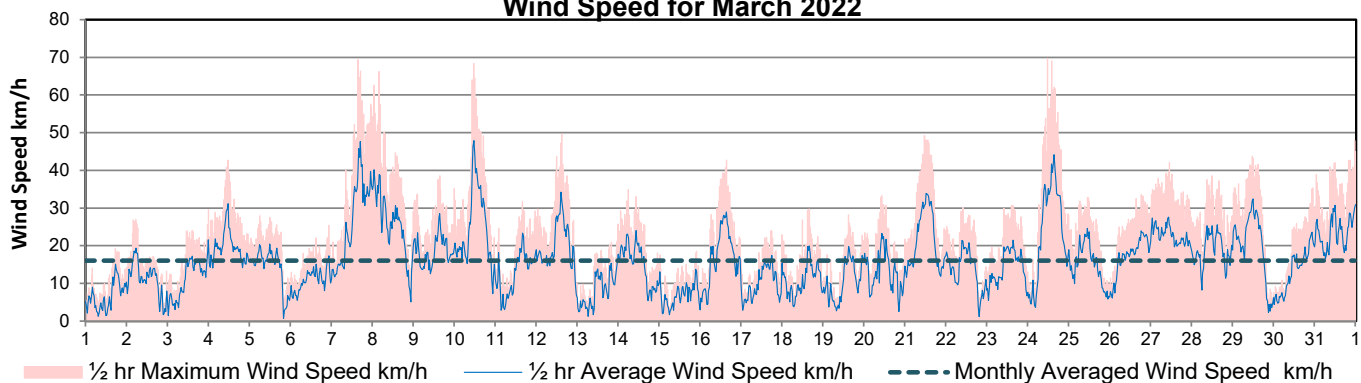
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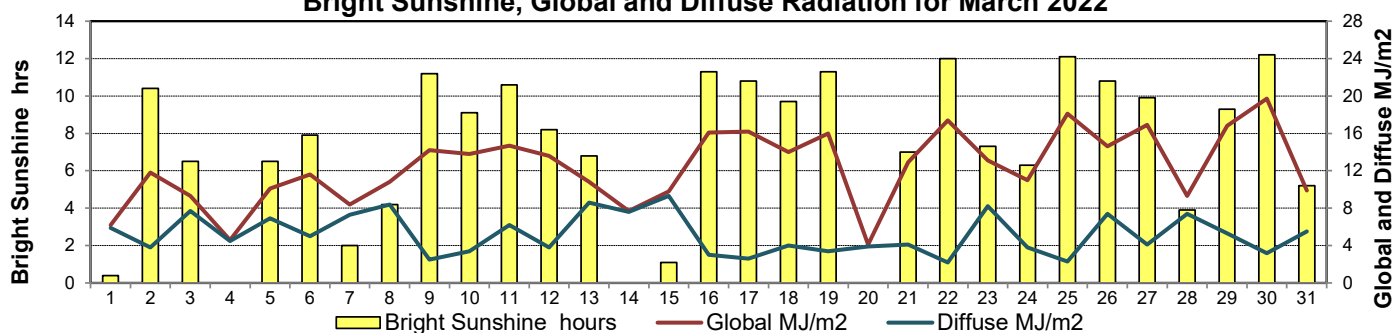
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



Wind Speed for March 2022

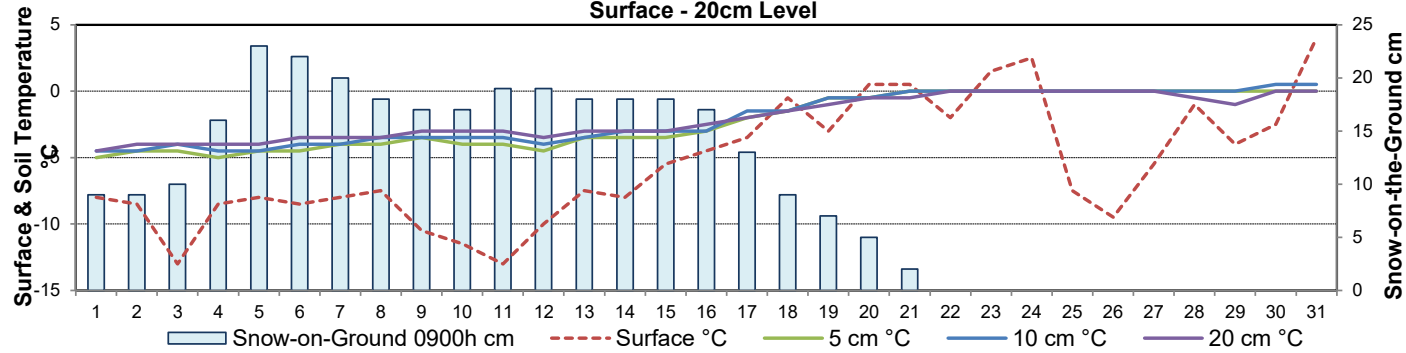


Bright Sunshine, Global and Diffuse Radiation for March 2022



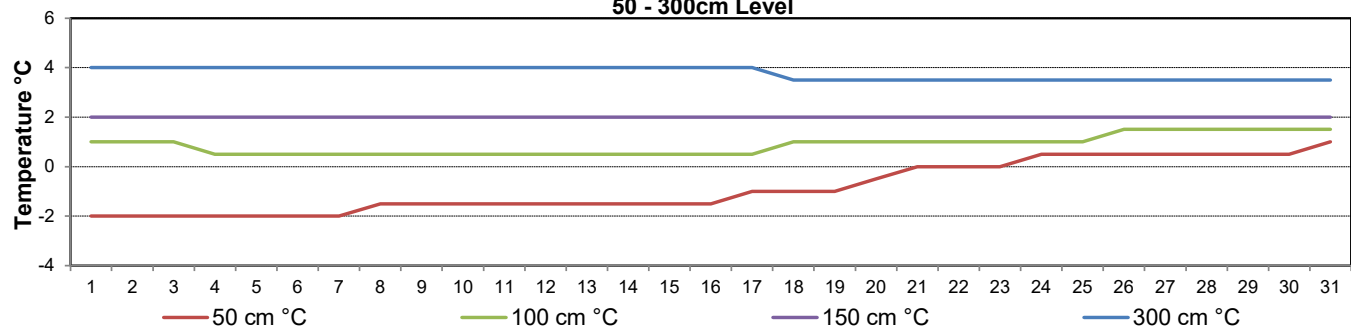
Soil Temperatures for March 2022

Surface - 20cm Level



Soil Temperatures for March 2022

50 - 300cm Level





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Preliminary **MARCH 2022**

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	Period	Code	Description	
Precipitation	Highest Daily Maximum	31	4.3	3.2	2020	SM	NWMP c. 1892-1901	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	March 20 - intermittent snow pack, March 22 no snow under sensor, still snow in other locations		
						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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Preliminary March 2022

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	5.0	12.5	16.6		5.5	6.5															
2	9.0	16.4	24.7		6.0	7.0															
3	10.0	16.9	22.4		5.5	6.5															
4	16.0	26.1	36.2		5.5	6.5															
5	11.0	16.8	24.1		6.0	7.0															
6	9.0	15.2	21.2		6.0	7.0															
7	22.0	39.3	62.1		6.0	6.5															
8	21.0	33.2	57.5	0.0	6.0	6.5															
9	16.0	23.8	35.0	0.0	6.5	7.5															
10	20.0	38.6	59.8		6.5	7.5															
11	10.0	20.7	28.1		6.0	7.0															
12	15.0	27.6	43.1		6.0	6.5															
13	6.0	14.8	21.8	0.0	6.0	7.0															
14	13.0	20.8	29.8	0.0	6.0	7.0															
15	5.0	11.3	17.7	0.0	6.0	7.0															
16	13.0	23.4	35.6	0.0	6.0	7.5															
17	7.0	13.7	22.9	0.0	6.5	7.0															
18	8.0	16.0	25.2	0.0	6.5	7.0															
19	7.0	16.1	23.5		6.5	7.0															
20	10.0	18.8	29.3		6.5	7.5															
21	17.0	26.6	42.5	0.0	7.0	7.0															
22	10.0	17.4	24.1	31.5	20.5	7.5															
23	9.0	14.0	27.5	30.0	22.0	7.5															
24	17.0	33.7	56.3	32.5	23.0	8.0															
25	12.0	18.8	27.5	25.0	23.0	7.5															
26	14.0	19.2	29.3	29.0	22.0	7.5															
27	17.0	22.3	36.8	25.5	21.0	7.5															
28	15.0	20.5	30.4	22.0	20.0	8.0															
29	14.0	24.6	36.8	22.0	19.5	7.5															
30	8.0	16.4	28.1	21.5	19.0	7.5															
31	17.0	0.0	36.0	22.0	19.0	8.0															
Total																					
Mean					10.9	7.2															
Extreme	22.0	39.3	62.1	32.5	23	8															
Date	7	7	7	24	24	24															

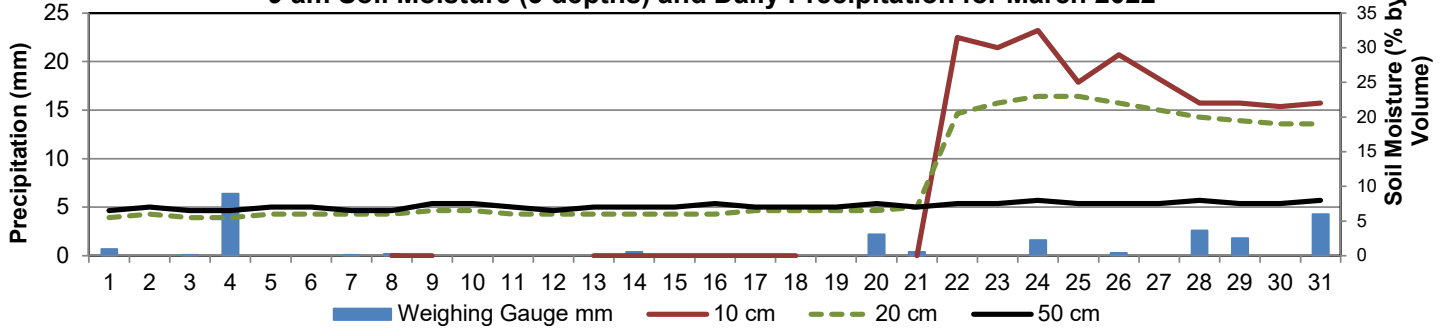
Soil Moisture probes do not accurately measure soil moisture when soil temperature is near zero hence the missing data for the 10 cm probe.

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

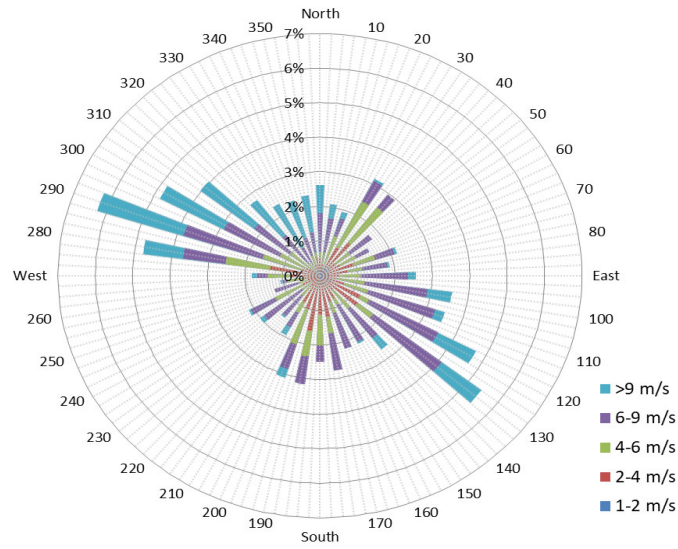
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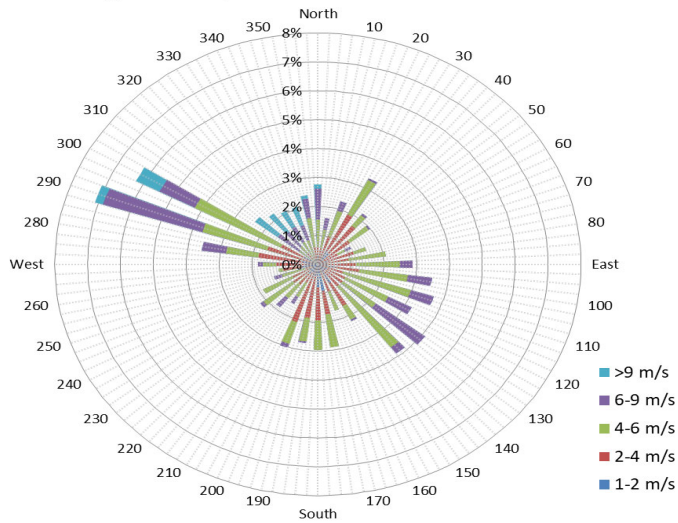
9 am Soil Moisture (3 depths) and Daily Precipitation for March 2022



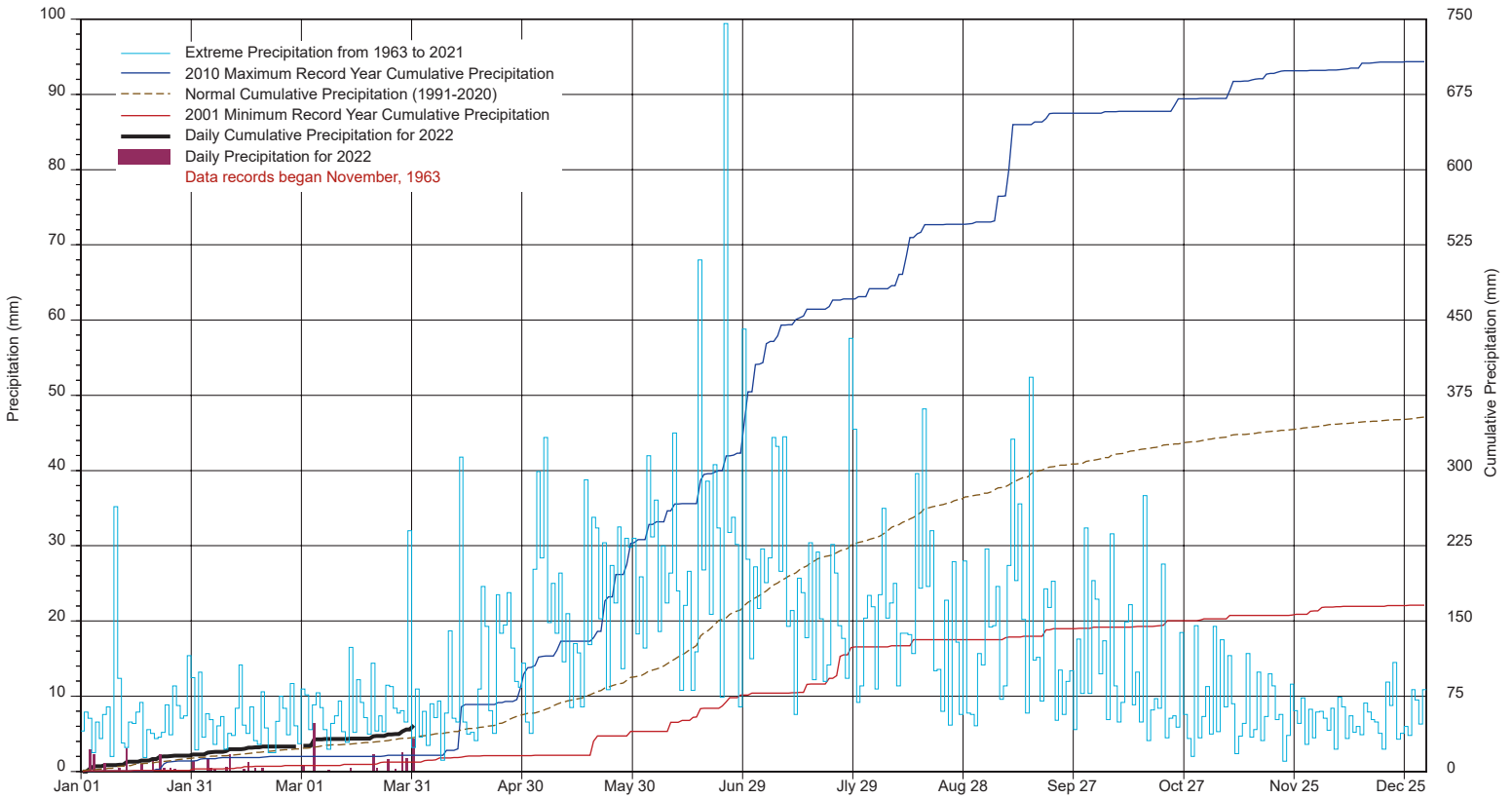
1/2 hr Maximum Wind Speed and Direction Saskatoon March 2022



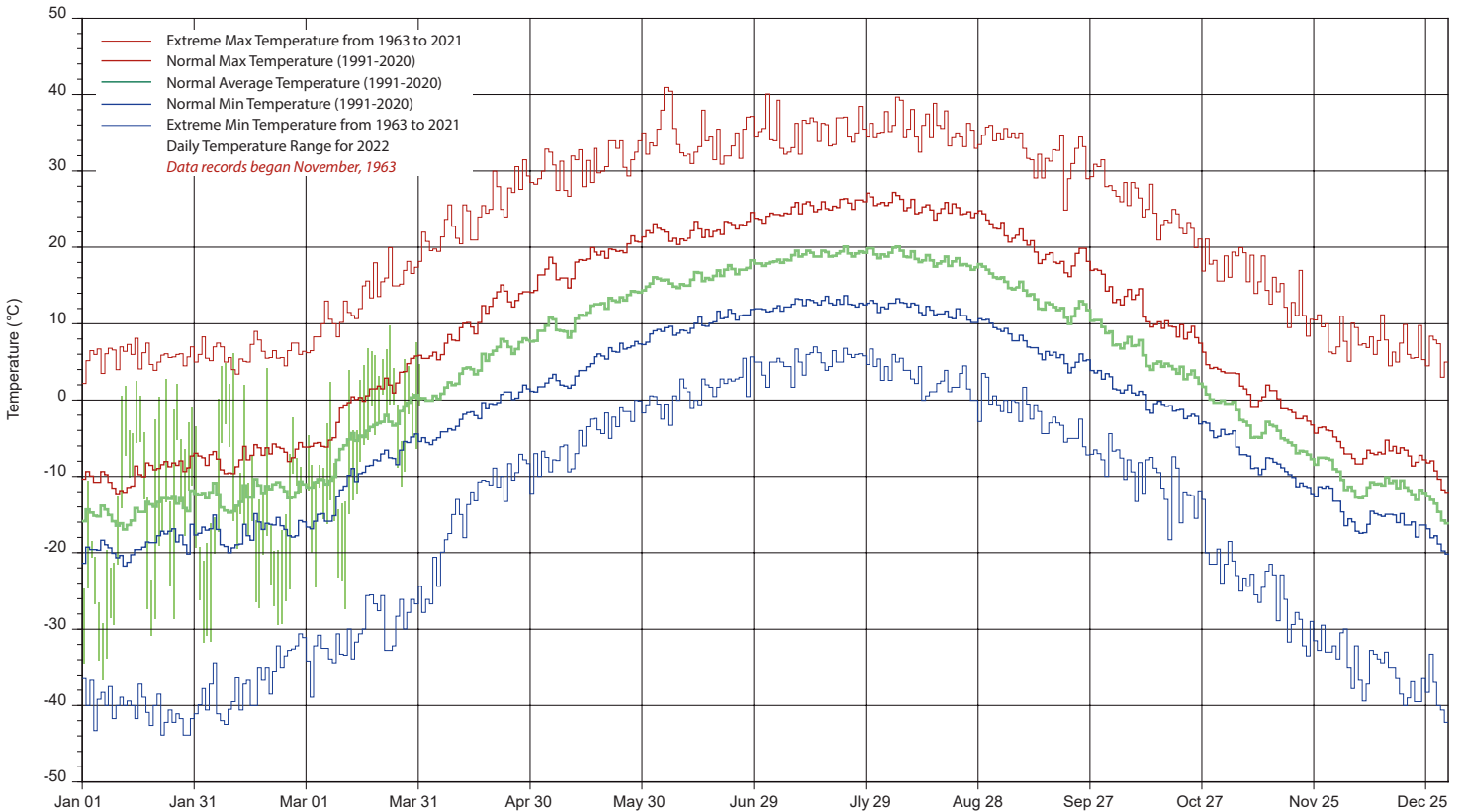
10 minute Average Wind Speed and Direction Saskatoon March 2022



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2022 PRECIPITATION AND NORMALS



2022 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

