



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary APRIL 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	4.5	5.5	-10.1	-4.9	-2.8	0.3	0.0	20.8	0.0	0.0		15	91	53	1005	998
2	-3.8	5.5	-9.0	-5.5	-6.4	0.0	0.0	24.4	0.0	1.1	light snow	13	92	81	1011	998
3	-6.9	5.8	-11.9	-5.8	-9.4	0.0	0.0	27.4	0.0	0.0		13	85	49	1018	1011
4	-0.8	6.3	-19.0	-5.2	-9.9	0.6	0.0	27.9	0.0	0.0		13	84	45	1022	1019
5	-2.6	5.3	-17.3	-4.9	-10.0	0.2	0.0	28.0	0.0	0.0		13	85	42	1020	1017
6	-2.6	6.0	-15.5	-4.1	-9.1	0.9	0.0	27.1	0.0	0.0		13	85	51	1022	1018
7	2.2	7.5	-11.7	-4.1	-4.8	1.7	0.0	22.8	0.0	0.0		13	83	63	1021	1011
8	6.5	8.6	-5.2	-3.7	0.7	2.4	0.0	17.3	0.0	0.0		12	85	61	1011	1005
9	7.8	7.9	-0.4	-3.9	3.7	2.0	0.0	14.3	0.0	0.0		6	86	54	1013	1007
10	10.9	7.8	4.2	-3.4	7.6	2.2	2.6	10.4	0.0	0.0		1	71	32	1013	1005
11	10.9	9.5	0.8	-2.5	5.9	3.5	0.9	12.1	0.0	0.0		0	84	46	1010	1000
12	11.0	10.1	1.1	-1.8	6.1	4.2	1.1	11.9	0.0	0.0		0	89	29	1010	1001
13	10.8	10.2	-2.6	-1.6	4.1	4.3	0.0	13.9	0.0	0.2		0	91	21	1011	1009
14	11.5	9.6	1.6	-1.5	6.6	4.1	1.6	11.4	0.0	0.1		0	86	32	1016	1011
15	13.7	8.7	-2.3	-2.0	5.7	3.4	0.7	12.3	0.0	0.0		0	87	27	1020	1017
16	15.3	10.2	0.4	-2.4	7.9	3.9	2.9	10.1	0.0	0.0		0	77	26	1020	1011
17	16.2	12.4	3.2	-0.3	9.7	6.1	4.7	8.3	0.0	0.0		0	69	26	1018	1003
18	7.1	11.4	-0.2	-1.1	3.5	5.2	0.0	14.5	0.0	6.9	rain/snow	0	95	58	1012	1005
19	-0.1	12.3	-3.7	-0.4	-1.9	6.0	0.0	19.9	0.0	4.6	snow	2	94	79	1021	1012
20	-0.6	13.4	-4.1	-0.5	-2.4	6.5	0.0	20.4	0.0	0.7	snow	3	94	73	1027	1021
21	3.7	14.2	-3.9	-0.3	-0.1	7.0	0.0	18.1	0.0	0.6	snow	2	94	47	1028	1026
22	9.1	15.1	-1.9	0.8	3.6	8.0	0.0	14.4	0.0	0.0		1	82	29	1026	1019
23	11.0	14.3	-3.6	1.1	3.7	7.7	0.0	14.3	0.0	0.0		0	86	26	1019	1016
24	10.6	12.9	-1.3	1.1	4.7	7.0	0.0	13.3	0.0	0.0		0	79	28	1017	1015
25	16.6	12.2	3.3	0.1	10.0	6.1	5.0	8.0	0.0	2.3	rain	0	87	31	1017	1008
26	14.1	13.1	1.3	0.3	7.7	6.7	2.7	10.3	0.0	0.0		0	91	20	1012	1006
27	10.9	14.0	1.7	1.1	6.3	7.6	1.3	11.7	0.0	0.0		0	76	36	1019	1006
28	19.1	14.2	0.9	2.0	10.0	8.1	5.0	8.0	0.0	0.0		0	81	21	1019	1012
29	15.5	14.2	0.8	1.5	8.2	7.9	3.2	9.8	0.0	0.0		0	78	13	1022	1018
30	16.0	14.1	0.2	1.2	8.1	7.7	3.1	9.9	0.0	0.0		0	71	19	1022	1017
Total							34.8	473.0	0.0	16.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	7.9	10.4	-3.5	-1.7	2.2	4.4	1991-2020 Normal			23.3	1991-2020 Normal					
Extreme Date	19.1		-19.0				60.6	414.2	0.2	30.6	Year to date 2023 Cumulative		95	13	1028	998
Date	28		4							56.8	Year to date Cumulative Normal		18	29	21	1

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

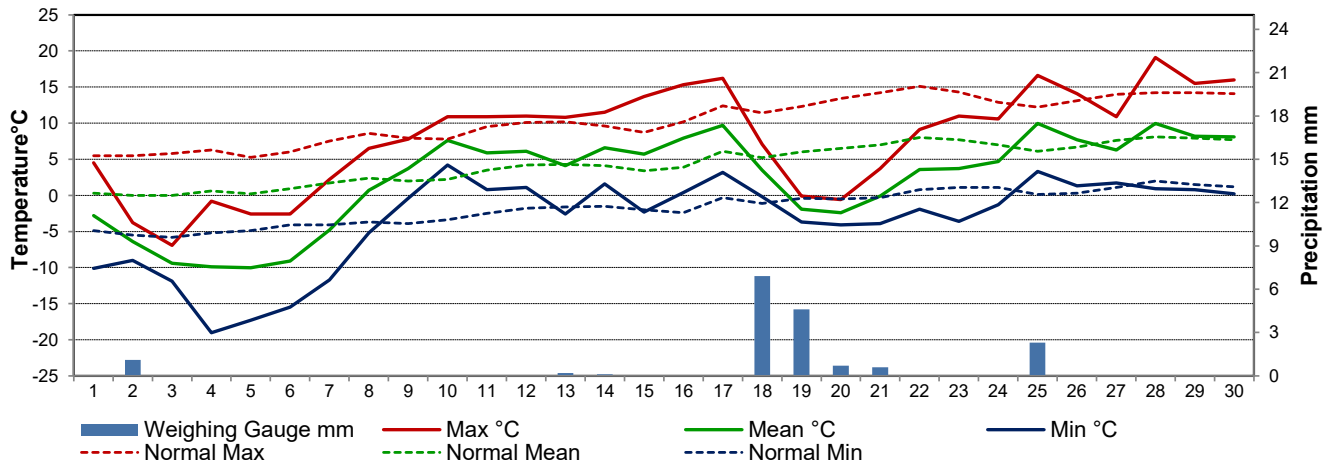
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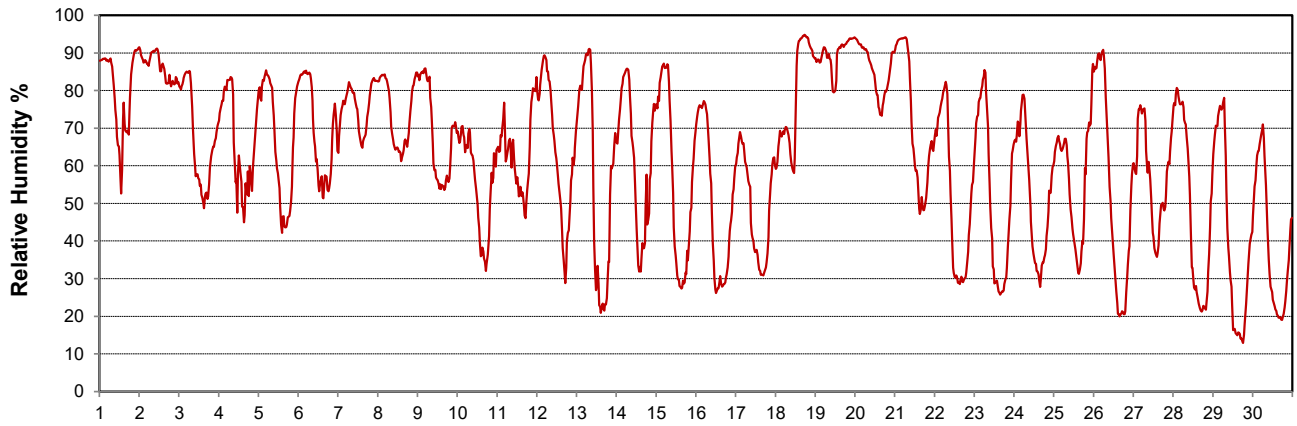
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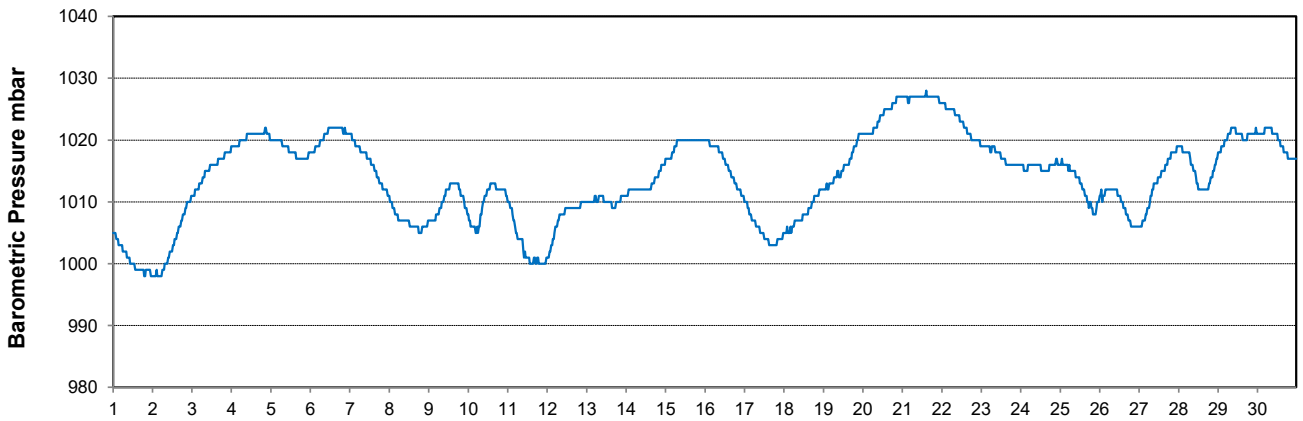
Temperature and Precipitation for April 2023



Relative Humidity for April 2023



Barometric Pressure Corrected to Sea Level for April 2023





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL 2023**

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 ²	MJ/m ²
1	24.7	NNE	14:44	10.2	-4.5	-2.5	-2.0	-2.0	-1.0	1.0	2.0	4.0	11.8	13.0	90.8	19.0	7.0
2	48.2	NE	10:14	24.1	-4.5	-1.5	-1.5	-2.5	-0.5	1.0	2.0	4.0	0.0	13.1	0.0	5.3	5.1
3	27.4	ENE	0:56	11.5	-9.5	-1.5	-1.0	-1.0	-0.5	1.0	2.0	4.0	9.6	13.1	73.2	16.9	11.1
4	17.8	NE	16:16	6.2	-12.5	-1.0	-0.5	-3.0	0.0	1.0	2.0	4.0	12.5	13.2	94.8	19.6	4.5
5	16.3	SW	14:53	7.5	-14.5	-1.5	-1.0	-2.0	0.0	1.5	2.0	4.0	12.6	13.3	95.0	20.5	3.7
6	31.3	SE	21:09	12.7	-12.0	-2.0	-1.5	-1.0	0.0	1.5	2.0	4.0	12.8	13.3	96.1	21.1	3.6
7	49.2	SSE	16:03	25.2	-9.5	-2.0	-1.5	-1.5	0.0	1.5	2.0	4.0	12.8	13.4	95.6	20.3	3.7
8	39.8	SE	0:37	18.7	0.0	-1.5	-1.0	-1.0	0.0	1.5	2.0	4.0	10.2	13.5	75.8	16.3	9.4
9	30.4	S	23:55	13.5	1.5	-0.5	0.0	-0.5	0.0	1.5	2.0	4.0	12.6	13.5	93.2	19.4	5.9
10	40.8	W	12:20	16.7	5.0	0.0	0.0	0.0	0.5	1.5	2.0	4.0	10.1	13.6	74.3	19.6	3.2
11	47.7	ENE	10:14	13.7	5.0	0.0	0.0	0.0	0.5	1.5	2.0	4.0	8.8	13.7	64.4	15.0	7.1
12	42.2	WNW	2:29	16.9	3.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	12.9	13.7	94.0	20.0	3.8
13	31.1	SSW	23:34	7.3	1.0	0.0	0.5	0.5	0.5	1.5	2.0	4.0	8.0	13.8	58.0	14.5	9.5
14	34.6	SW	17:51	11.3	4.0	2.0	2.5	2.0	1.0	1.5	2.0	4.0	6.4	13.9	46.2	13.9	7.1
15	48.4	WSW	18:37	10.7	7.5	1.5	2.5	2.5	2.0	1.5	2.0	4.0	11.2	13.9	80.5	19.7	5.4
16	42.5	SSE	12:50	18.3	6.5	2.5	3.5	4.0	2.5	2.0	2.5	3.5	13.4	14.0	95.9	20.5	5.5
17	56.5	SSE	9:38	29.1	5.5	4.5	5.0	4.5	3.0	2.0	2.5	3.5	10.2	14.1	72.6	19.8	4.9
18	41.4	ESE	21:24	19.0	4.5	5.0	5.5	5.5	3.5	2.5	2.5	3.5	0.0	14.1	0.0	5.0	4.7
19	48.4	NE	16:56	25.0	-2.0	2.5	3.5	4.0	3.5	2.5	2.5	3.5	0.0	14.2	0.0	7.7	7.3
20	43.5	NNE	8:11	24.5	-3.0	2.5	2.5	2.5	3.5	3.0	2.5	3.5	0.1	14.2	0.7	9.3	8.8
21	25.9	NE	10:32	11.9	-2.0	1.5	2.0	2.0	3.0	3.0	3.0	3.5	7.5	14.3	52.4	17.8	13.3
22	23.1	ENE	13:45	7.2	1.5	1.5	2.0	2.5	3.0	3.0	3.0	3.5	12.2	14.4	84.9	22.1	6.8
23	33.0	ESE	16:21	11.2	3.5	2.5	3.0	4.0	3.5	3.0	3.0	3.5	13.7	14.4	94.9	24.0	4.9
24	50.0	ESE	12:34	23.6	2.5	3.5	4.0	4.5	3.5	3.0	3.0	4.0	12.0	14.5	82.8	19.7	9.5
25	44.8	SSW	15:31	22.1	5.5	5.0	5.0	5.0	4.0	3.0	3.0	4.0	7.0	14.6	48.1	16.8	9.4
26	56.7	WNW	13:37	21.2	6.5	5.5	6.0	6.0	4.5	3.5	3.0	4.0	13.2	14.6	90.3	25.0	3.4
27	37.4	N	13:57	14.8	7.5	6.0	6.5	6.5	5.0	3.5	3.5	4.0	5.1	14.7	34.7	13.6	9.1
28	51.1	WNW	13:16	17.5	6.5	5.0	5.5	6.0	5.0	3.5	3.5	4.0	8.0	14.7	54.3	19.5	6.5
29	45.6	N	13:18	14.7	10.5	5.0	5.5	6.5	5.5	4.0	3.5	4.0	14.3	14.8	96.6	25.9	3.2
30	27.9	E	16:51	12.2	8.5	5.5	6.0	7.0	5.5	4.0	3.5	4.0	14.4	14.9	96.8	25.5	3.5
Total													283.4	418.3	67.8	533.3	190.9
Mean				16.0	0.8	1.6	2.0	2.0	2.1	2.2	2.5	3.9	1991-2020 Normal				
Extreme	56.7	WNW	13:37		1971- 2000 Normal for Soil Temperatures								231.4	418.7		487.2	180.1
Date	26				3.1	3.6	4.0	3.0	1.6	1.5	2.4	No. of Bright Sunshine days = 27					

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

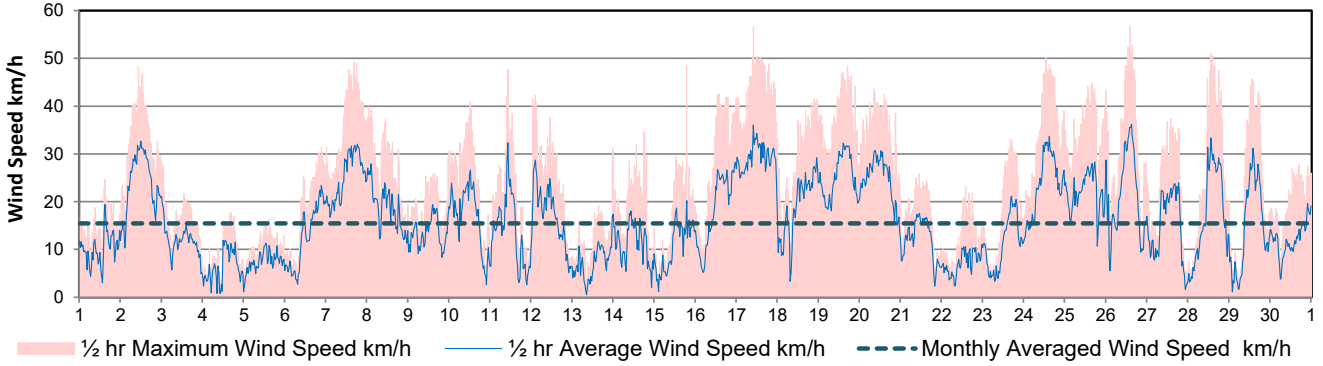
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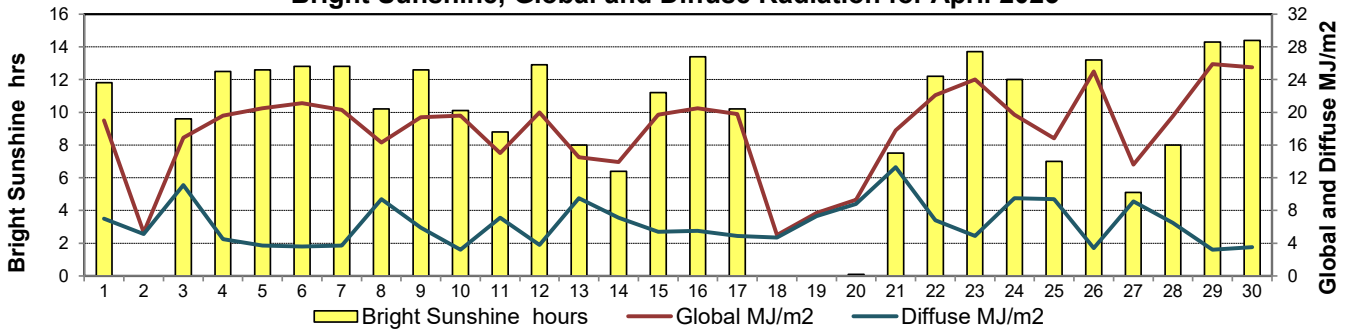
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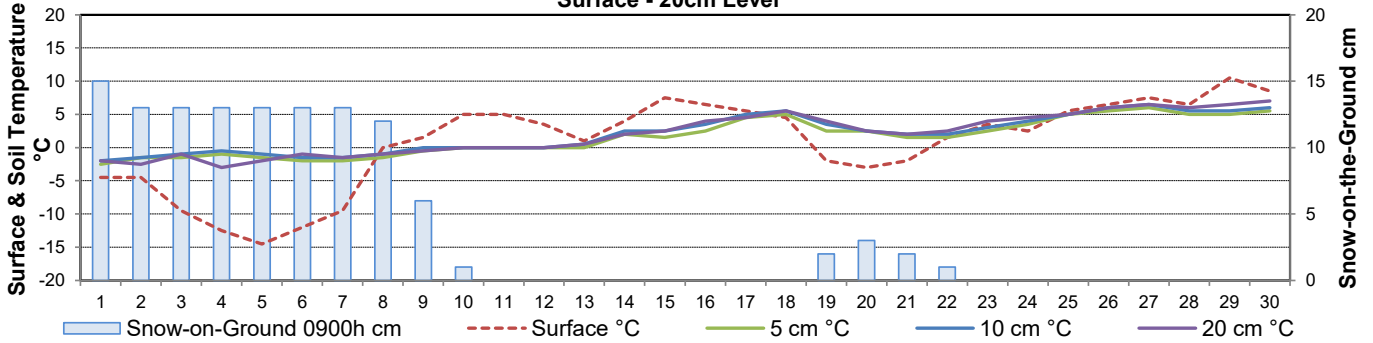
Wind Speed for April 2023



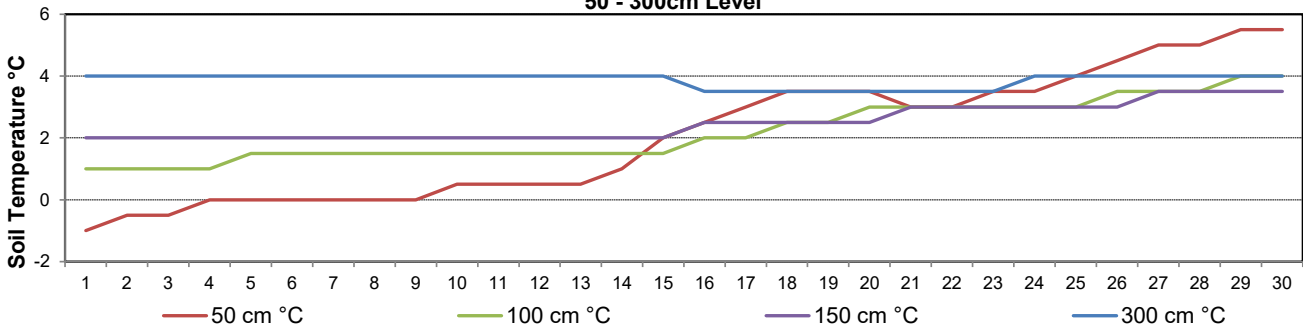
Bright Sunshine, Global and Diffuse Radiation for April 2023



**Soil Temperatures for April 2023
Surface - 20cm Level**



**Soil Temperatures for April 2023
50 - 300cm Level**





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Preliminary **APRIL 2023**

Extreme Records for April

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
33.3	28/1952	SA US SF	31.5	28/2001	93.9	1955	SF	83.5	2014	108 ^W	06/1959	91.2 ^W	09/2010	312.5	2018	30	1968*
-30.5	01/1979	SWT	-27.8	01/1979	0.0	1897	SM	2.4	2007					165.7	1996	19	2003

**1975 forward * more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Symbol	Description
Temperature	Highest Minimum Daily	10	4.2	2.8	1970	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		
						K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
						RCS	Environment Canada	2008-		
						SF	Sutherland Forestry	1943-1970		

April 2023 was a chilly and dry month. Out of the last 60 years:

- *was the 15 coolest Average Maximum monthly temperature
- *was the 12 coolest Average Minimum monthly temperature
- *was the 12 coolest Average Mean monthly temperature
- *was the 34th driest April in the last 60 years
- *four consecutive month with below average precipitation

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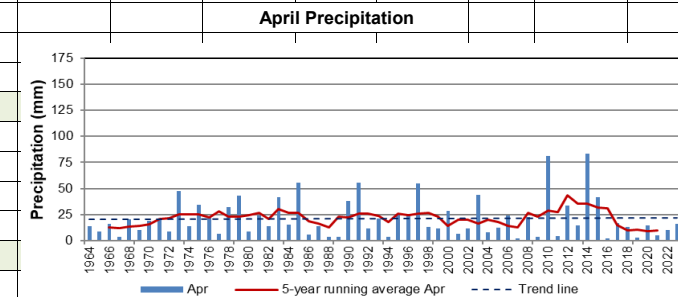
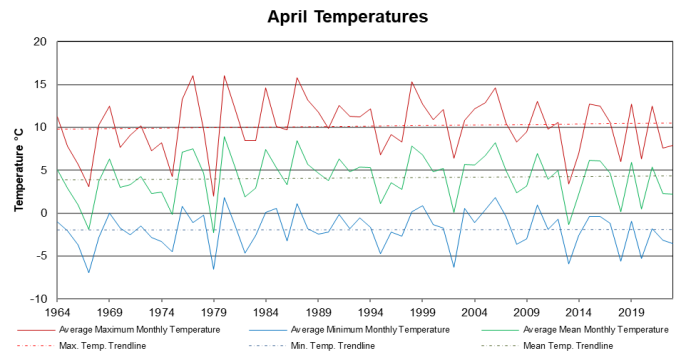
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Preliminary April 2023

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	15.5	20.6	1.5	6.5	7.5
2	20.0	26.2	37.9	2.5	6.0	7.5
3	10.0	16.5	24.7	1.5	6.5	8.0
4	5.0	10.7	16.6	1.5	6.0	8.0
5	7.0	11.3	16.0	1.5	6.0	8.0
6	9.0	17.5	27.5	2.0	6.0	8.0
7	18.0	23.6	41.4	1.5	6.0	7.5
8	12.0	19.3	32.7	2.5	6.0	7.5
9	10.0	16.4	24.1	18.0	7.5	8.0
10	12.0	20.1	32.1	27.0	29.0	8.0
11	10.0	24.7	37.3	23.0	27.0	17.5
12	13.0	20.7	33.3	20.0	25.0	19.5
13	4.0	13.7	22.9	18.0	23.5	19.0
14	8.0	14.1	28.7	17.5	23.0	19.5
15	7.0	15.3	36.2	17.0	22.5	19.5
16	12.0	21.2	35.0	17.0	22.0	19.5
17	20.0	23.8	43.1	17.0	21.5	19.5
18	14.0	21.9	37.3	16.5	21.5	19.5
19	19.0	24.4	37.9	19.0	21.5	19.0
20	18.0	23.4	35.6	20.5	21.5	19.0
21	9.0	13.5	21.2	21.0	22.0	18.5
22	5.0	9.8	18.9	22.0	22.5	19.0
23	8.0	15.6	28.7	20.0	22.5	18.5
24	17.0	24.0	41.4	18.5	22.0	19.0
25	15.0	20.6	38.5	18.5	22.0	19.0
26	16.0	27.2	44.8	18.0	22.0	19.0
27	11.0	17.7	29.3	17.5	22.0	19.0
28	13.0	25.5	41.9	17.0	21.5	19.5
29	11.0	22.8	39.6	16.5	21.5	19.5
30	9.0	14.9	27.0	16.5	21.0	19.0
Total						
Mean				14	18	15.3
Extreme	20.0	27.2	44.8	27	29	19.5
Date	2	26	26	10	10	12

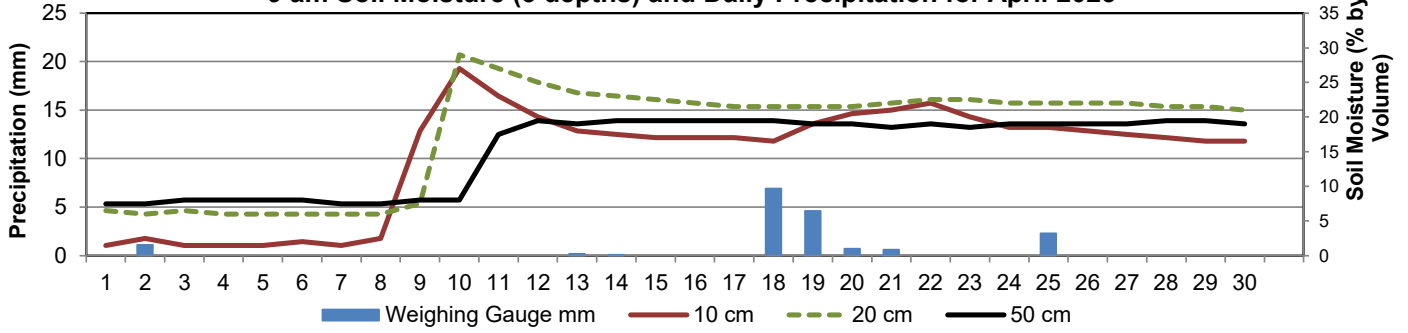


Note: Red numbers indicate manual calculation; Red cell indicate data not available

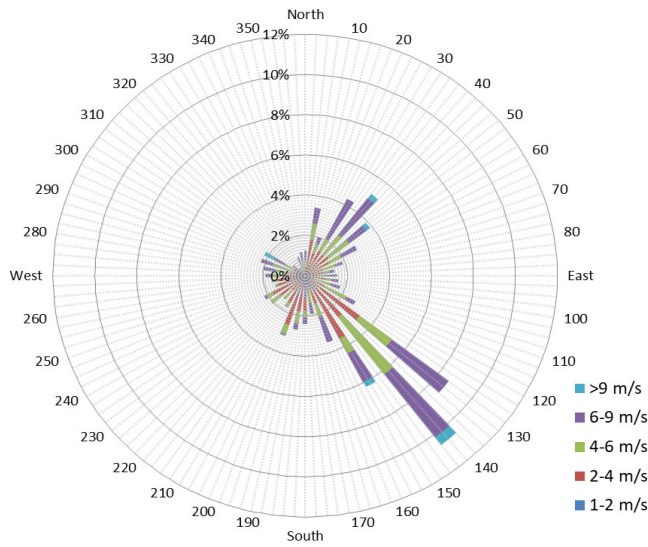
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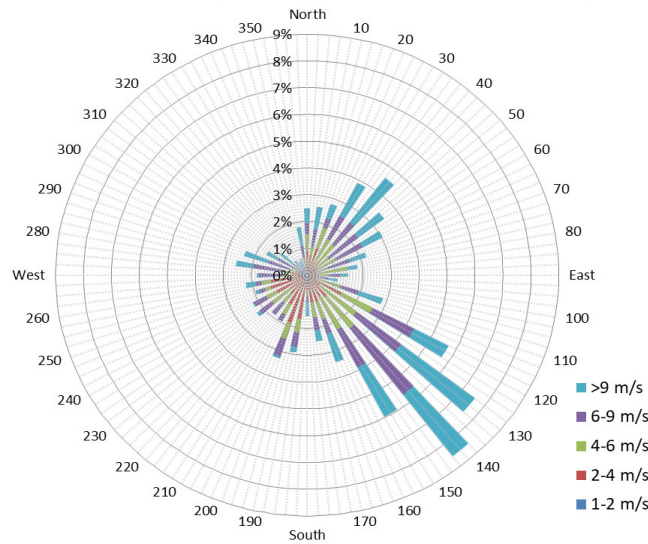
9 am Soil Moisture (3 depths) and Daily Precipitation for April 2023



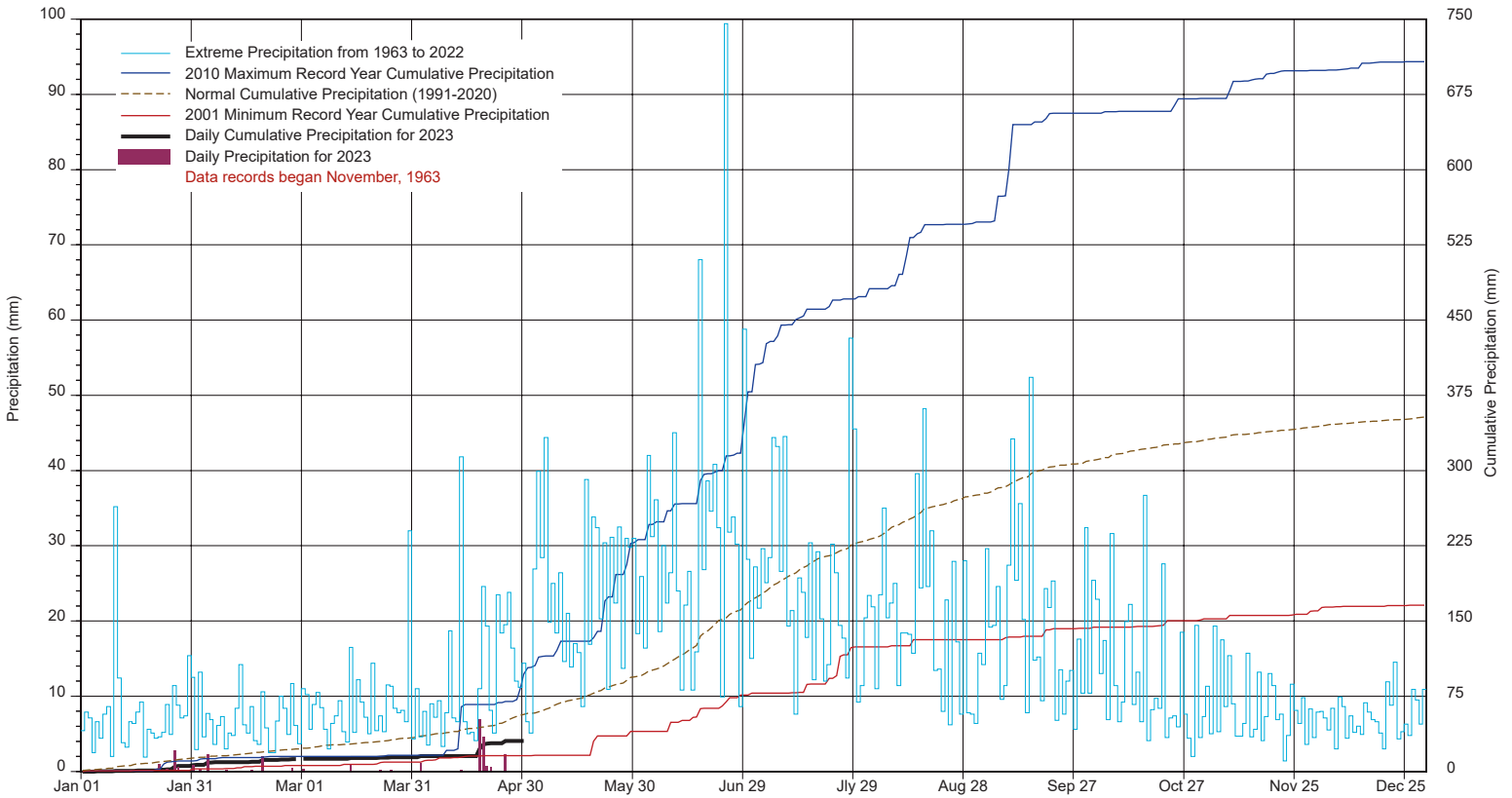
10 minute Average Wind Speed and Direction Saskatoon Apr 2023



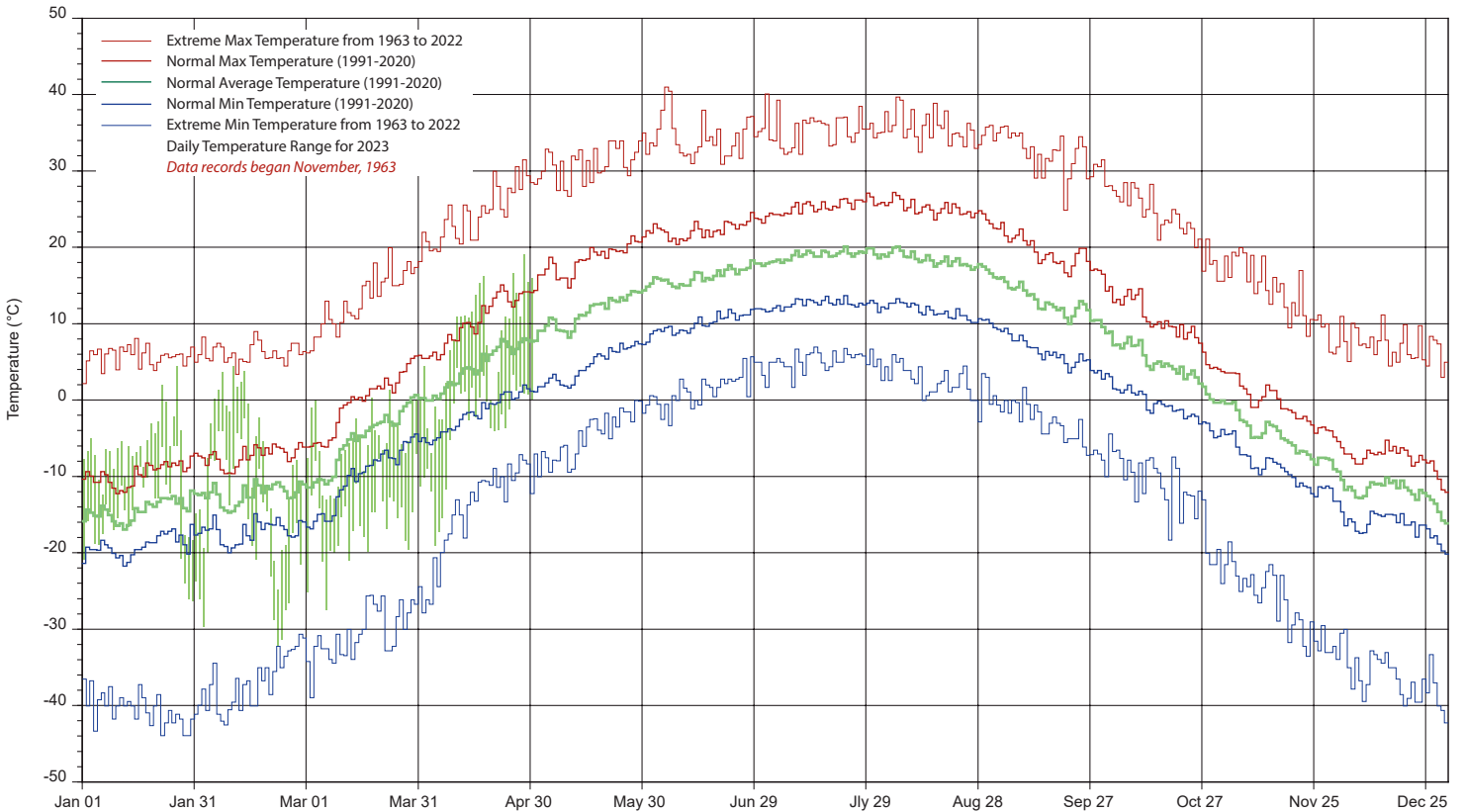
1/2 hr Maximum Wind Speed and Direction Saskatoon April 2023



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2023 PRECIPITATION AND NORMALS



2023 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

