



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## SASKATOON STATION 4057180

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

Preliminary **APRIL 2021**

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	16.2	5.5	1.1	-4.9	8.7	0.3	3.7	9.3	0.0	0.0		0	63	25	1014	997
2	12.1	5.5	0.4	-5.5	6.3	0.0	1.3	11.7	0.0	0.0		0	67	18	1015	998
3	13.4	5.8	-0.8	-5.8	6.3	0.0	1.3	11.7	0.0	0.0		0	70	21	1017	1015
4	17.2	6.3	2.2	-5.2	9.7	0.6	4.7	8.3	0.0	0.0		-	70	24	1016	1004
5	12.1	5.3	-1.3	-4.9	5.4	0.2	0.4	12.6	0.0	0.0		0	88	23	1011	1008
6	16.4	6.0	-0.3	-4.1	8.1	0.9	3.1	9.9	0.0	0.0		0	66	20	1012	1010
7	21.8	7.5	1.8	-4.1	11.8	1.7	6.8	6.2	0.0	0.0		0	63	12	1012	1002
8	15.2	8.6	1.6	-3.7	8.4	2.4	3.4	9.6	0.0	3.3	light rain	0	91	38	1013	1002
9	10.7	7.9	-4.3	-3.9	3.2	2.0	0.0	14.8	0.0	0.0		0	89	23	1015	1003
10	13.3	7.8	1.4	-3.4	7.4	2.2	2.4	10.6	0.0	0.0		0	63	23	1008	999
11	4.0	9.5	-1.8	-2.5	1.1	3.5	0.0	16.9	0.0	1.5	light snow	1	95	57	1023	1008
12	6.0	10.1	-3.0	-1.8	1.5	4.2	0.0	16.5	0.0	0.2	light snow	3	94	28	1031	1023
13	5.7	10.2	-2.2	-1.6	1.8	4.3	0.0	16.2	0.0	0.0		0	56	27	1032	1031
14	10.5	9.6	-1.1	-1.5	4.7	4.1	0.0	13.3	0.0	0.0		0	68	21	1032	1027
15	15.9	8.7	-2.7	-2.0	6.6	3.4	1.6	11.4	0.0	0.0		0	80	16	1027	1022
16	15.9	10.2	-3.5	-2.4	6.2	3.9	1.2	11.8	0.0	0.0		0	86	16	1025	1021
17	19.9	12.4	2.5	-0.3	11.2	6.1	6.2	6.8	0.0	0.0		0	52	16	1025	1015
18	7.1	11.4	-0.5	-1.1	3.3	5.2	0.0	14.7	0.0	0.0		0	67	24	1027	1020
19	4.5	12.3	-4.7	-0.4	-0.1	6.0	0.0	18.1	0.0	0.2	light snow	1	91	36	1026	1023
20	10.4	13.4	-7.1	-0.5	1.7	6.5	0.0	16.3	0.0	0.0		0	90	18	1027	1020
21	19.0	14.2	-0.2	-0.3	9.4	7.0	4.4	8.6	0.0	0.0		0	49	10	1019	1002
22	8.7	15.1	-5.9	0.8	1.4	8.0	0.0	16.6	0.0	0.2	light snow	0	72	25	1018	1001
23	5.0	14.3	-9.6	1.1	-2.3	7.7	0.0	20.3	0.0	0.0		0	72	20	1020	1015
24	7.2	12.9	-8.3	1.1	-0.6	7.0	0.0	18.6	0.0	0.0		0	80	19	1016	1011
25	11.7	12.2	-2.6	0.1	4.6	6.1	0.0	13.4	0.0	0.0		0	49	18	1011	1004
26	15.4	13.1	-0.5	0.3	7.5	6.7	2.5	10.5	0.0	0.0		0	85	21	1005	1000
27	8.9	14.0	-3.6	1.1	2.7	7.6	0.0	15.3	0.0	0.0		0	84	25	1017	1005
28	14.1	14.2	-2.4	2.0	5.9	8.1	0.9	12.1	0.0	0.0		0	70	29	1018	1013
29	11.3	14.2	-1.8	1.5	4.8	7.9	0.0	13.2	0.0	0.0		0	79	23	1022	1017
30	25.5	14.1	4.7	1.2	15.1	7.7	10.1	2.9	0.0	0.0		0	43	20	1018	1001
Total							54.0	378.2	0.0	5.4			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	12.5	10.4	-1.8	-1.7	5.4	4.4	1991-2020 Normal			23.3	1991-2020 Normal					
Extreme Date	25.5		-9.6				60.6	414.2	0.2	21.6	Cumulative		95	10	1032	997
Date	30		23							56.8	Cumulative Normal		11	21	13	1

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

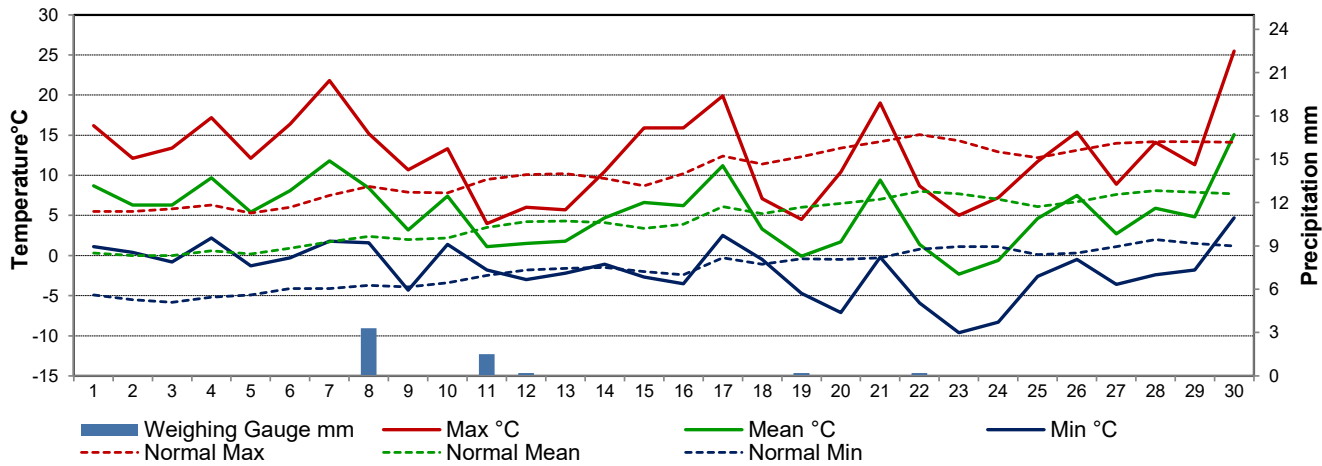
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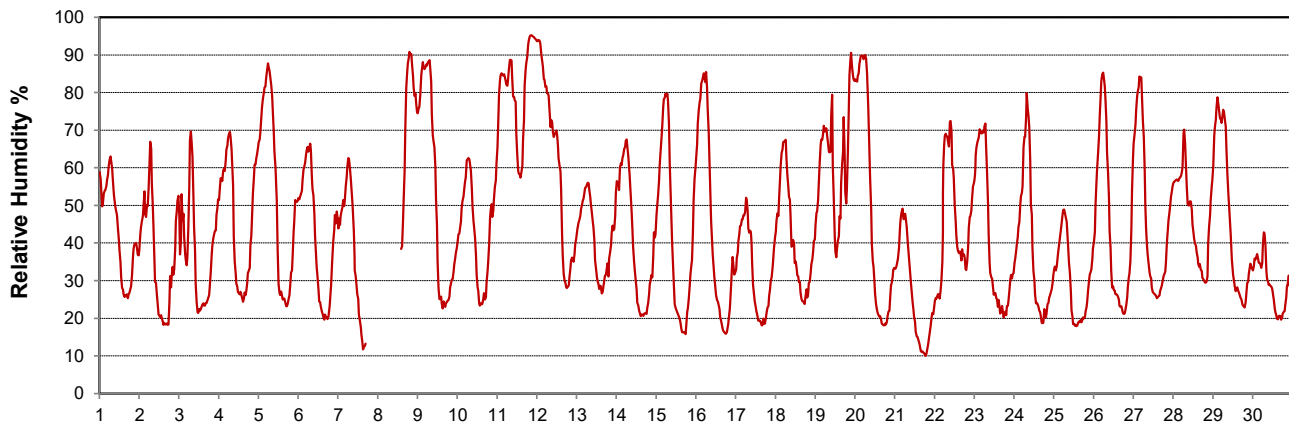
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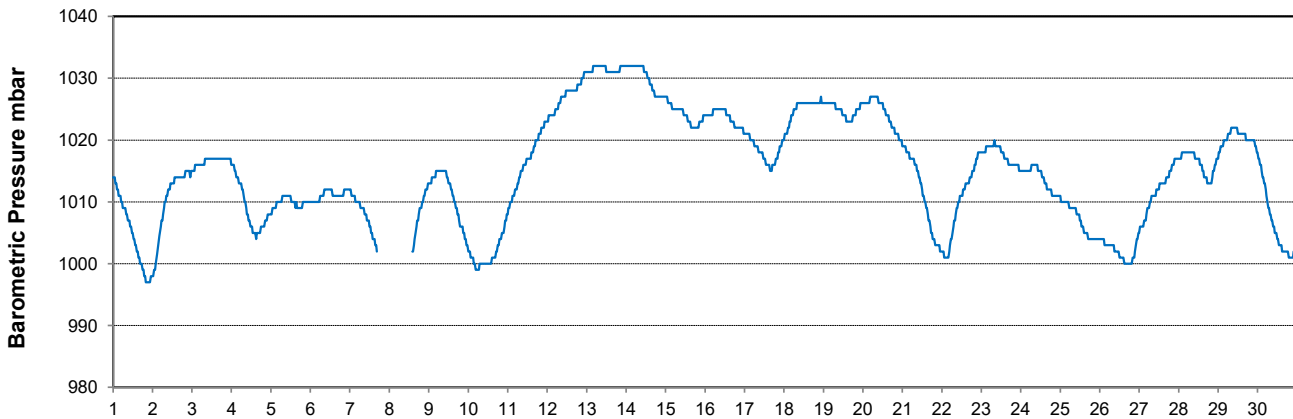
### Temperature and Precipitation for April 2021



### Relative Humidity for April 2021



### Barometric Pressure Corrected to Sea Level for April 2021





**SRC CLIMATE REFERENCE STATION DAILY DATA REPORT**

**SASKATOON STATION 4057180**

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

Preliminary **APRIL 2021**

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	42.0	SSW	13:53	20.0	4.5	0.5	1.0	1.0	1.5	2.0	2.5	4.0	10.3	13.0	79.1	16.1	5.4
2	42.2	N	3:43	14.1	4.5	2.0	2.5	2.5	2.0	2.0	2.5	4.0	10.2	13.1	77.9	16.9	3.8
3	27.4	NNE	12:09	11.8	4.0	2.5	3.0	3.5	2.5	2.0	2.5	4.0	12.0	13.2	91.2	18.9	3.0
4	50.4	SSE	10:36	23.8	5.5	3.5	4.0	4.5	3.0	2.5	2.5	4.0	6.8	13.2	51.4	13.1	7.5
5	43.3	WNW	12:40	16.8	3.0	3.5	4.0	4.5	3.5	2.5	2.5	4.0	12.3	13.3	92.6	19.8	2.6
6	28.3	WNW	14:36	10.2	4.0	3.0	4.0	4.5	4.0	2.5	2.5	4.0	11.5	13.4	86.1	18.7	4.0
7	57.2	SSW	14:46	13.4	7.0	4.5	5.0	5.5	4.0	3.0	2.5	4.0		13.4			
8	57.0	NNW	16:47	10.3										13.5			
9	41.2	SE	21:42	13.1	0.0	3.5	5.0	6.0	5.0	3.5	3.0	4.0	12.6	13.6	92.9	20.9	3.5
10	45.3	NE	21:59	17.4	4.0	4.5	5.0	6.0	5.0	3.5	3.0	4.0	6.5	13.6	47.7	15.5	3.6
11	57.0	NNE	12:53	30.0	0.0	4.5	5.0	6.0	5.0	4.0	3.0	4.0	0.0	13.7	0.0	6.9	5.3
12	51.1	NNE	16:58	24.2	-3.0	3.0	4.0	4.5	5.0	4.0	3.5	4.0	7.2	13.8	52.4	16.1	8.0
13	46.7	NE	16:00	23.3	-0.5	2.0	3.0	3.5	4.5	4.0	3.5	4.0	1.6	13.8	11.6	10.9	8.0
14	20.7	ENE	16:20	7.8	1.0	2.5	3.0	3.5	4.0	4.0	3.5	4.0	6.8	13.9	49.0	16.4	6.9
15	31.6	N	16:46	8.1	8.5	3.5	4.0	4.5	4.5	4.0	3.5	4.0	12.5	14.0	89.6	22.0	2.6
16	35.4	N	11:42	9.5	5.5	3.5	4.5	5.5	5.0	4.0	3.5	4.0	13.5	14.0	96.4	22.8	2.5
17	47.0	NNE	22:34	16.2	6.5	5.5	6.0	6.5	5.0	4.0	3.5	4.0	10.0	14.1	71.0	19.1	5.1
18	45.8	NNE	13:00	21.1	1.5	7.0	7.5	7.5	5.5	4.0	3.5	4.0	8.3	14.1	58.7	17.8	7.1
19	48.1	NNW	13:10	15.0	0.5	4.5	5.5	6.5	6.0	4.5	4.0	4.0	4.3	14.2	30.3	13.4	7.9
20	31.1	WNW	14:47	9.3	-0.5	2.5	3.5	5.0	5.5	4.5	4.0	4.0	12.9	14.3	90.4	23.3	4.0
21	48.9	SW	16:20	19.2	6.0	4.0	4.5	5.5	5.5	4.5	4.0	4.5	13.7	14.3	95.5	23.9	2.9
22	56.4	N	8:25	29.0	1.0	6.5	7.0	7.0	5.5	4.5	4.0	4.5	7.9	14.4	54.9	17.5	5.4
23	33.5	W	15:19	10.8	-1.0	2.0	3.5	5.0	6.0	5.0	4.0	4.5	10.1	14.5	69.8	18.5	5.7
24	26.7	N	15:04	8.8	-0.5	2.0	3.0	4.5	5.5	5.0	4.0	4.5	11.1	14.5	76.4	19.9	5.1
25	43.4	WNW	14:18	15.4	3.5	3.0	4.0	5.0	5.0	5.0	4.5	4.5	8.1	14.6	55.5	17.5	8.0
26	41.6	WSW	12:46	17.0	7.0	4.5	5.0	5.5	5.5	5.0	4.5	4.5	8.4	14.7	57.3	17.4	5.9
27	41.9	NE	17:19	20.1	2.5	4.5	5.5	6.0	5.5	5.0	4.5	4.5	12.5	14.7	85.0	23.9	4.3
28	35.9	NNW	19:40	14.2	2.0	5.0	6.0	6.5	6.0	5.0	4.5	4.5	9.7	14.8	65.7	21.3	6.5
29	24.4	NW	11:55	8.1	3.5	7.0	7.0	7.5	6.0	5.0	4.5	4.5	6.1	14.8	41.1	15.8	7.6
30	40.2	NW	16:32	15.7	13.0	7.5	7.5	7.5	6.5	5.0	4.5	4.5	11.5	14.9	77.2	21.9	5.3
Total													258.4	419.2	61.6	506.2	147.5
Mean				15.8	3.2	3.9	4.6	5.2	4.7	3.9	3.5	4.2	1991-2020 Normal				
Extreme	57.2	SSW	14:46		1971- 2000 Normal for Soil Temperatures								231.4	418.7		487.2	180.1
Date	7				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

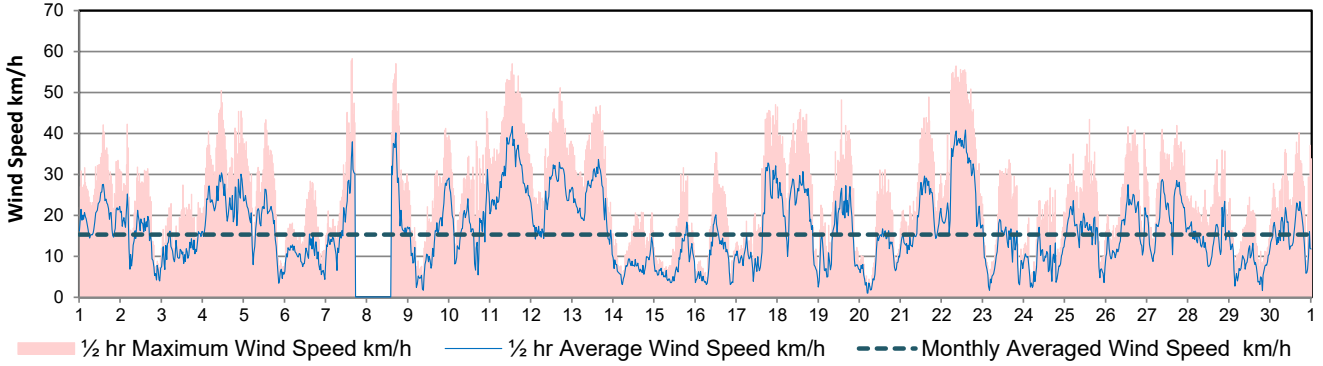
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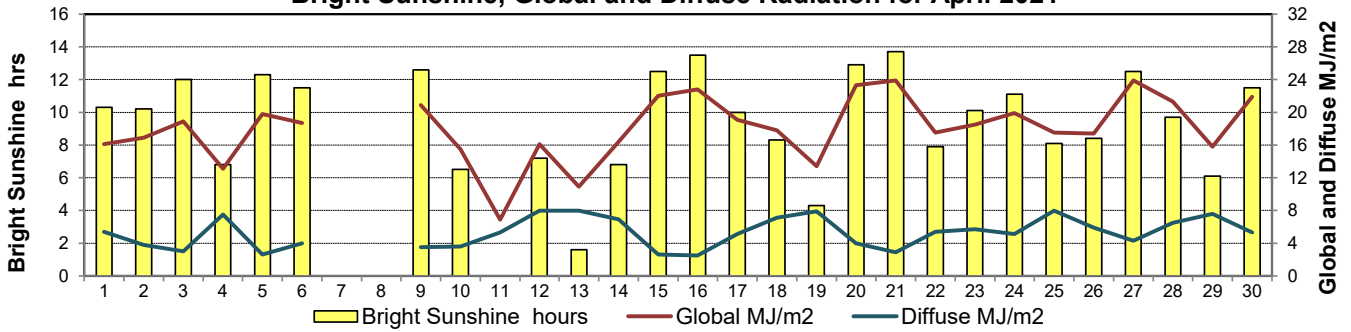
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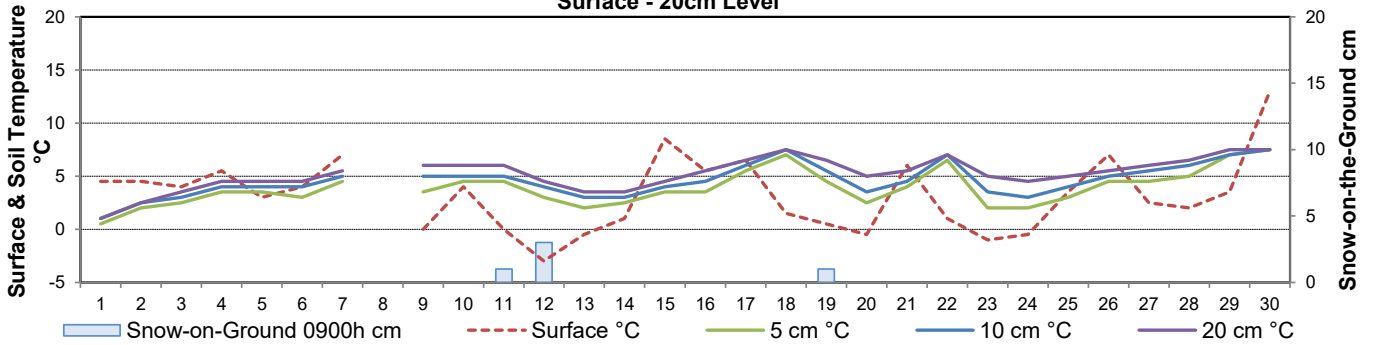
**Wind Speed for April 2021**



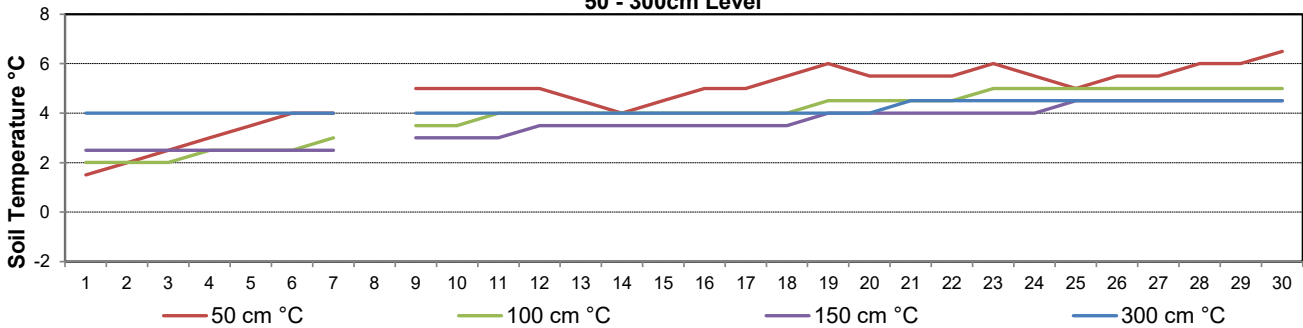
**Bright Sunshine, Global and Diffuse Radiation for April 2021**



**Soil Temperatures for April 2021  
Surface - 20cm Level**



**Soil Temperatures for April 2021  
50 - 300cm Level**





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SASKATOON STATION 4057180

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Preliminary APRIL 2021

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 <sup>W</sup>	06/1959	91.2 <sup>W</sup>	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	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Lowest Daily Minimum	24	-8.3	-7.2	2002	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
Precipitation	Highest Daily Maximum	8	3.3	1.5	1975	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 -	<b>Degree-days</b>	
						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		

Power outage at site from 07/04/2021 5:30:00 PM to 08/04/2021 2:00:00 PM

Temperature and Wind Speeds were obtained from an adjacent weather station at the site

27 April 2021 Spring maintenance: uncapped tipping bucket, replaced dessicant in radiation sensors, replaced bearings in RM Young (wind direction / speed sensor on 10 m tower), installed additional site camera, buried cable from auto shield on diffuse sensor, installed recalibrated pyranometers, refreshed the geonor precipitation bucket.

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SASKATOON STATION 4057180

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

Preliminary April 2021

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	14.0	21.7	31.6	10.0	19.0	8.5												
2	11.0	18.6	32.1	10.0	19.0	8.5												
3	9.0	12.0	24.7	10.5	19.0	8.5												
4	18.0	22.4	40.2	11.0	19.0	9.0												
5	13.0	20.8	33.3	11.0	19.0	8.5												
6	8.0	13.6	23.5	11.0	19.5	9.5												
7	13.0	29.2	46.0	11.5	19.0	9.0												
8	19.0	29.3	44.8															
9	10.0	22.0	34.4	12.0	18.5	10.0												
10	13.0	23.2	35.0	12.0	18.5	10.0												
11	22.0	30.5	43.7	12.0	18.5	10.0												
12	18.0	24.2	37.9	12.0	18.0	10.0												
13	17.0	26.1	39.1	11.5	18.0	10.0												
14	6.0	10.5	21.8	11.5	18.0	10.0												
15	6.0	13.8	27.0	12.0	18.0	10.5												
16	7.0	16.6	27.5	12.0	18.0	10.5												
17	12.0	24.1	36.2	12.0	17.5	10.5												
18	16.0	23.3	37.3	12.5	17.5	10.5												
19	11.0	20.4	35.6	12.0	17.0	11.0												
20	7.0	14.1	26.4	12.0	17.0	10.5												
21	15.0	23.6	38.5	12.0	17.0	11.0												
22	21.0	30.3	45.4	12.0	17.0	10.5												
23	8.0	15.7	28.1	11.5	16.5	11.0												
24	7.0	14.1	21.8	11.5	16.5	11.0												
25	12.0	17.5	39.6	12.0	16.0	11.0												
26	13.0	22.0	36.8	11.5	16.0	11.0												
27	16.0	22.5	37.3	12.0	16.0	10.5												
28	12.0	17.1	28.1	12.0	15.5	11.0												
29	7.0	11.5	21.8	12.0	16.0	11.0												
30	12.0	18.5	33.3	12.0	15.5	11.5												
Total																		
Mean				12	18	10.2												
Extreme	22.0	30.5	46.0	12.5	19.5	11.5												
Date	11	11	7	18	6	30												

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

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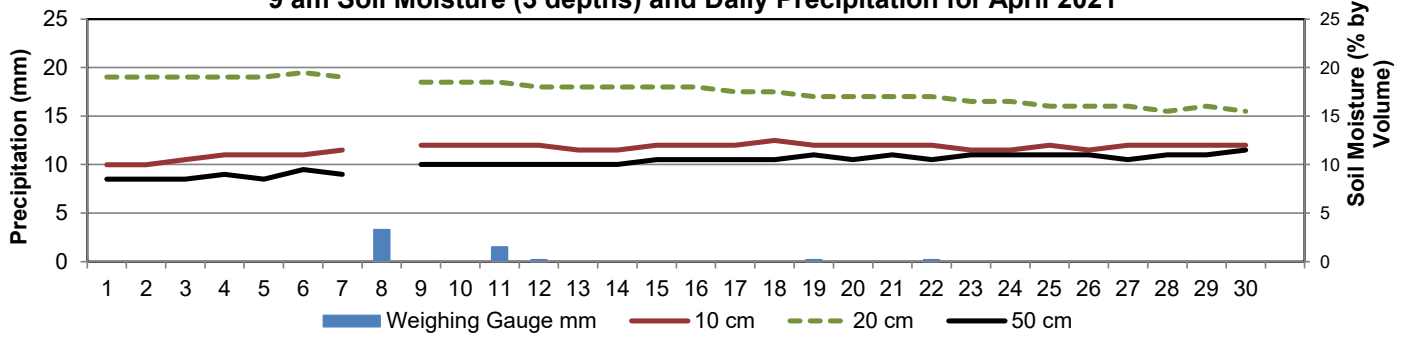


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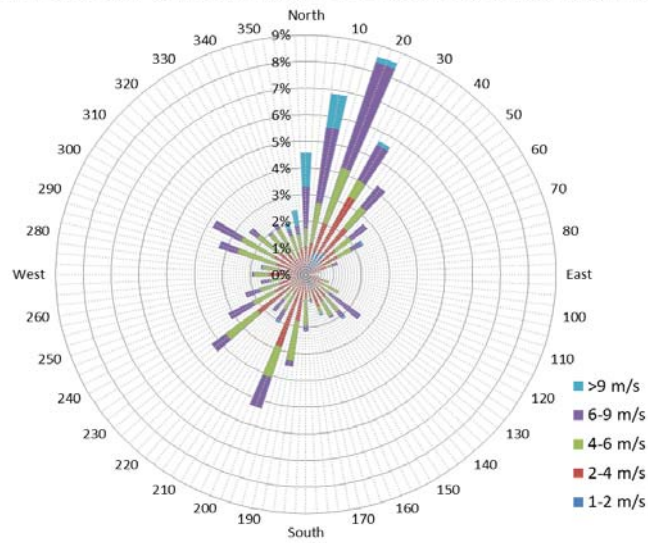
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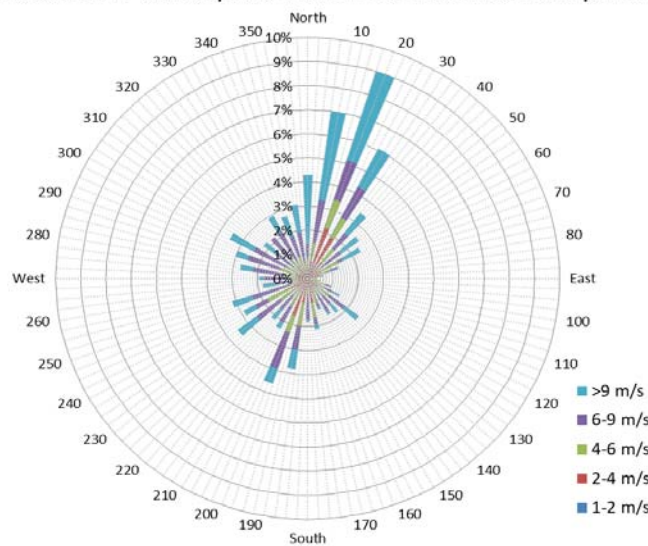
9 am Soil Moisture (3 depths) and Daily Precipitation for April 2021



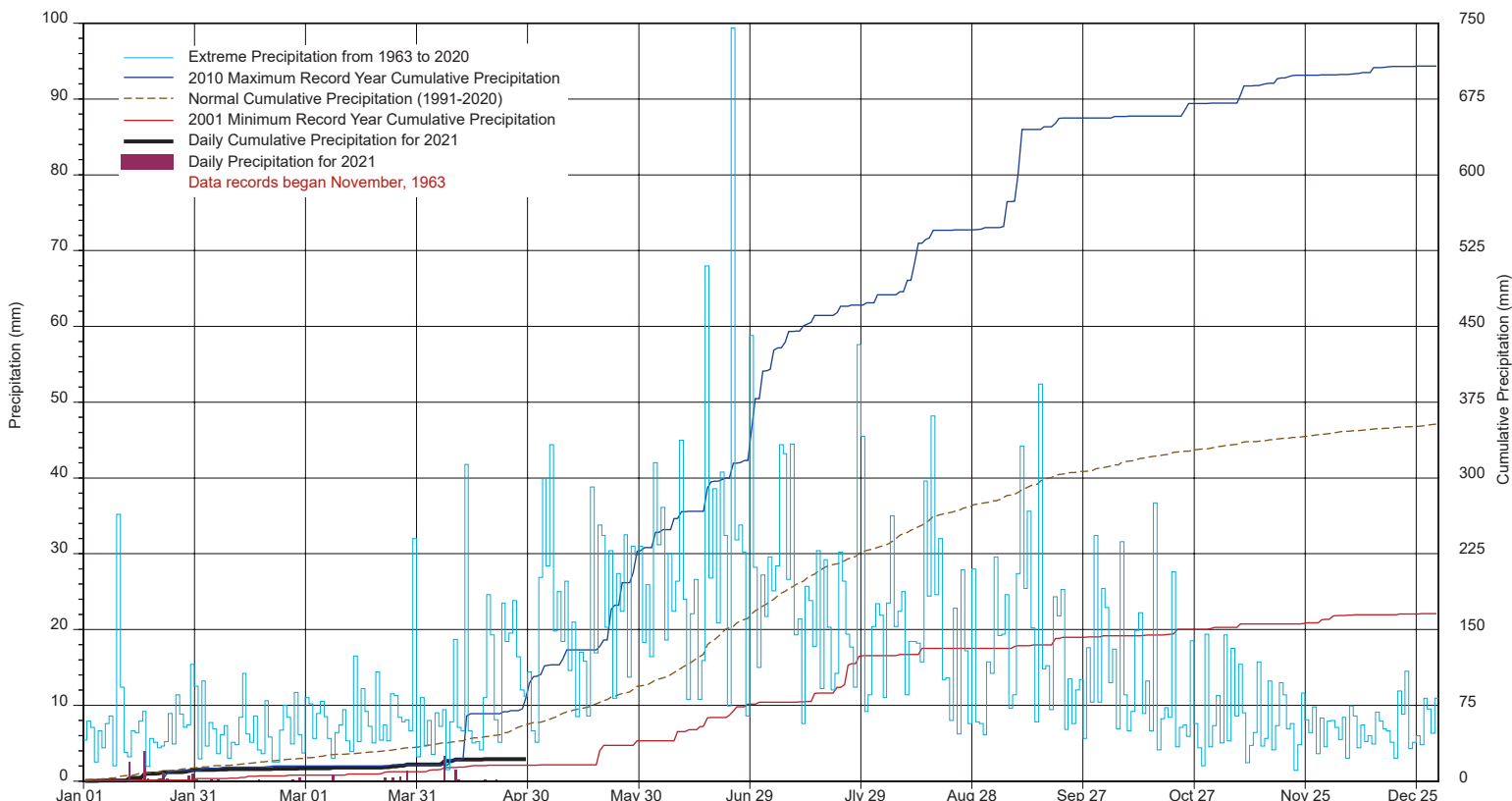
10 minute Average Wind Speed and Direction Saskatoon April 2021



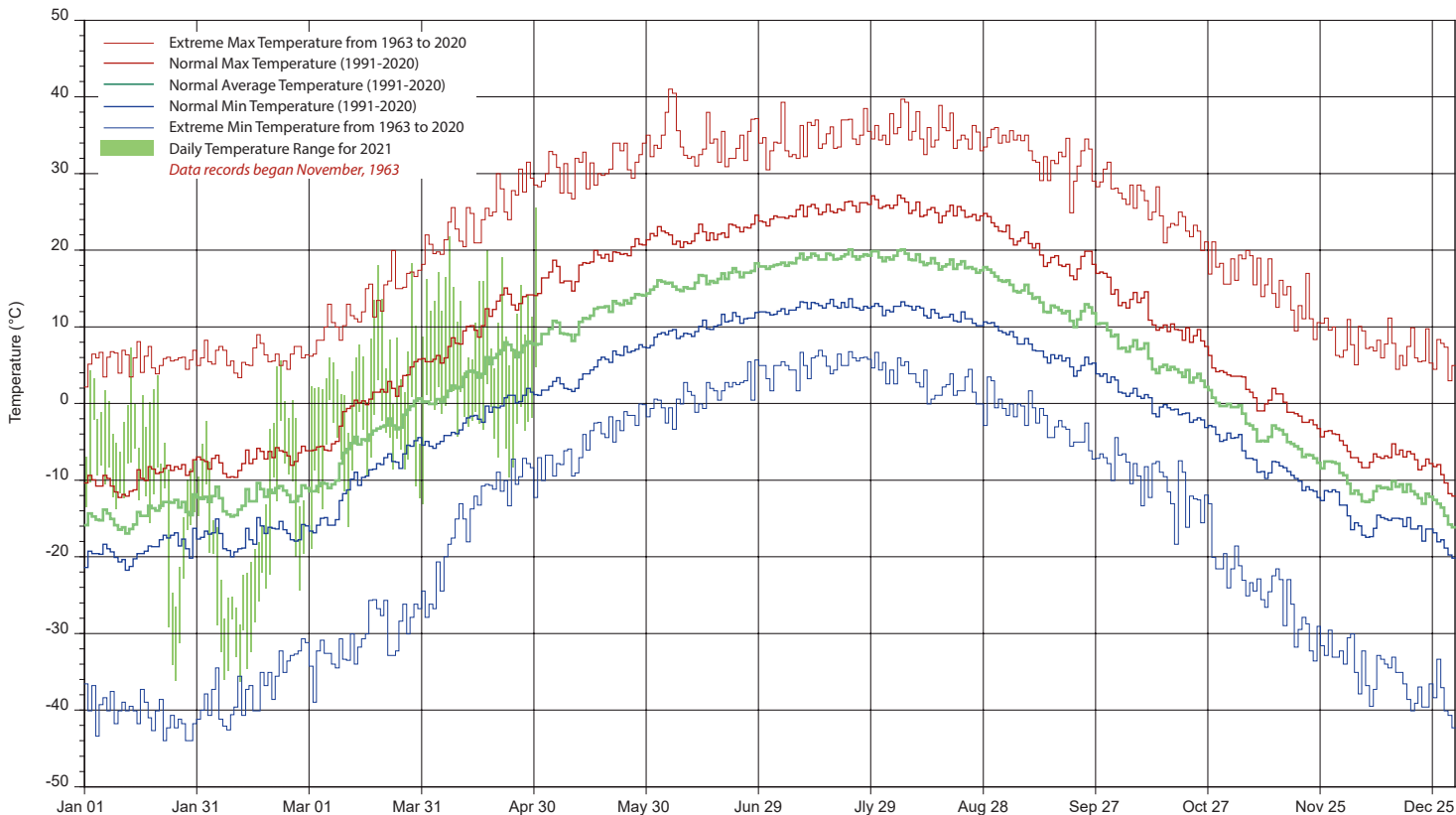
1/2 hr Maximum Wind Speed and Direction Saskatoon April 2021



# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2021 PRECIPITATION AND NORMALS



## 2021 TEMPERATURES AND NORMALS



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