



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MAY 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	Tipping Bucket	Notes	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	mm		%	%	mbar	mbar
1	20.5	14.4	6.5	1.1	13.5	7.8	8.5	4.5	0.0	0.0	0.0		70	17	1005	1002
2	11.2	16.4	0.5	1.8	5.9	9.1	0.9	12.1	0.0	0.9	0.6	light rain	88	32	1019	1005
3	10.1	16.4	-5.2	1.8	2.5	9.1	0.0	15.5	0.0	0.0	0.0		84	14	1022	1018
4	13.8	17.2	-7.5	2.3	3.2	9.8	0.0	14.8	0.0	0.0	0.0		74	14	1019	1017
5	17.2	18.7	-1.3	2.9	8.0	10.8	3.0	10.0	0.0	0.0	0.0		56	13	1022	1020
6	16.3	17.9	1.0	3.4	8.7	10.6	3.7	9.3	0.0	0.0	0.0		66	15	1025	1022
7	16.5	15.8	3.2	2.6	9.9	9.2	4.9	8.1	0.0	0.0	0.0		46	14	1022	1016
8	16.0	16.0	5.4	2.0	10.7	9.1	5.7	7.3	0.0	0.0	0.0		45	16	1021	1017
9	16.3	16.0	2.0	1.9	9.2	9.0	4.2	8.8	0.0	0.0	0.0		50	13	1024	1022
10	19.4	14.7	1.4	1.6	10.4	8.2	5.4	7.6	0.0	0.0	0.0		45	14	1023	1020
11	20.5	15.9	4.0	2.0	12.3	9.0	7.3	5.7	0.0	0.0	0.0		54	18	1022	1019
12	20.5	18.1	6.1	3.2	13.3	10.7	8.3	4.7	0.0	0.0	0.0		63	22	1019	1017
13	23.1	18.4	3.7	3.9	13.4	11.2	8.4	4.6	0.0	0.0	0.0		78	17	1018	1016
14	23.3	18.3	7.5	3.9	15.4	11.1	10.4	2.6	0.0	0.0	0.0		79	20	1018	1015
15	24.7	18.5	5.2	4.4	15.0	11.5	10.0	3.0	0.0	0.0	0.0		91	21	1016	1009
16	24.4	20.0	11.3	4.8	17.9	12.4	12.9	0.1	0.0	0.0	0.0		52	23	1011	1009
17	33.0	19.4	11.4	5.7	22.2	12.6	17.2	0.0	4.2	0.0	0.0		65	11	1011	1000
18	28.8	19.0	13.6	6.1	21.2	12.6	16.2	0.0	3.2	0.0	0.0		47	12	1003	1000
19	14.3	19.5	-0.2	5.8	7.1	12.7	2.1	10.9	0.0	0.0	0.0		66	32	1022	1004
20	4.3	18.6	-1.0	5.4	1.7	12.0	0.0	16.3	0.0	0.0	0.0		64	41	1023	1022
21	7.3	19.8	-1.6	6.9	2.9	13.4	0.0	15.1	0.0	0.3	0.0	light snow	90	48	1026	1023
22	13.8	19.7	-0.6	6.4	6.6	13.1	1.6	11.4	0.0	0.0	0.0		85	43	1028	1024
23	19.5	19.5	8.3	6.3	13.9	12.9	8.9	4.1	0.0	0.0	0.0		75	43	1024	1008
24	11.8	19.6	9.6	7.5	10.7	13.5	5.7	7.3	0.0	31.1	25.0	rain	94	81	1008	989
25	10.4	19.3	3.4	6.7	6.9	13.1	1.9	11.1	0.0	1.6	1.6	rain	91	58	1022	995
26	13.9	20.5	1.3	6.9	7.6	13.8	2.6	10.4	0.0	0.0	0.0		86	30	1024	1021
27	19.2	21.5	3.1	7.1	11.2	14.3	6.2	6.8	0.0	0.0	0.0		80	31	1022	1010
28	22.4	20.8	8.4	7.7	15.4	14.2	10.4	2.6	0.0	0.9	0.6	showers	79	24	1010	1004
29	20.9	20.7	9.2	7.4	15.1	14.1	10.1	2.9	0.0	0.8	0.6	showers	79	26	1016	1008
30	23.7	21.4	4.3	7.3	14.0	14.4	9.0	4.0	0.0	0.0	0.0		80	11	1021	1017
31	27.3	22.2	12.2	7.6	19.8	14.9	14.8	0.0	1.8	0.0	0.0		53	15	1017	1013
Total							200.3	221.6	9.2	35.6	28.4		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	18.2	18.5	4.0	4.7	11.1	11.6	1991-2020 Normal			37.6	1991-2020 Normal					
Extreme Date	33.0		-7.5				211.0	204.0	6.1	57.2	Cumulative		94	11	1028	989
	17		4							94.4	Cumulative Normal		24	17	22	24

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

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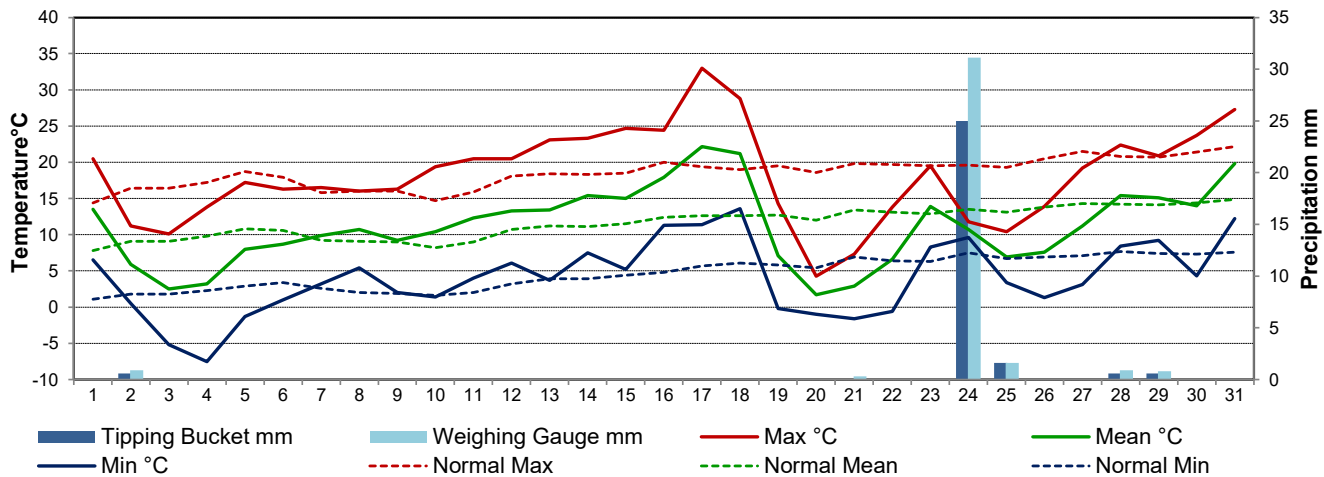


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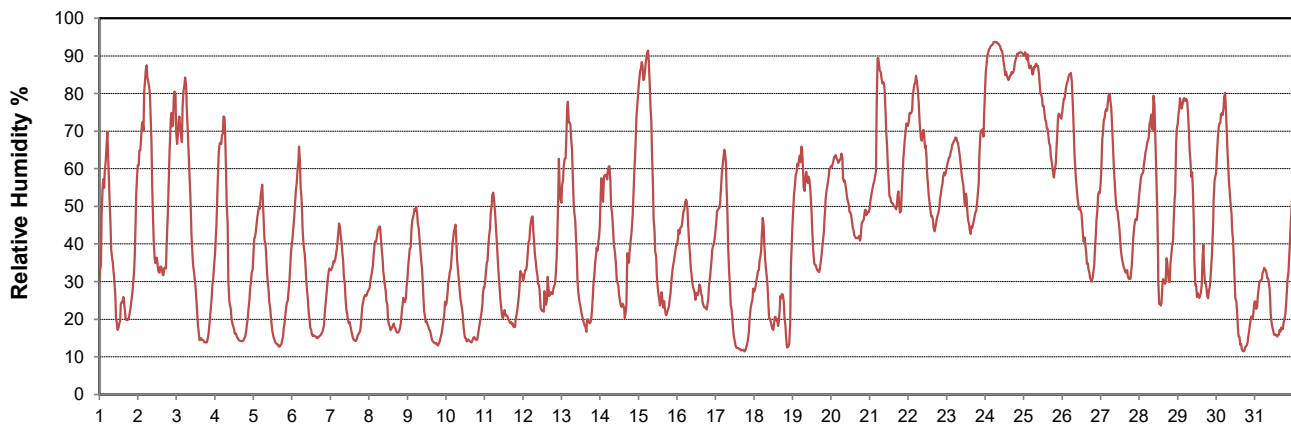
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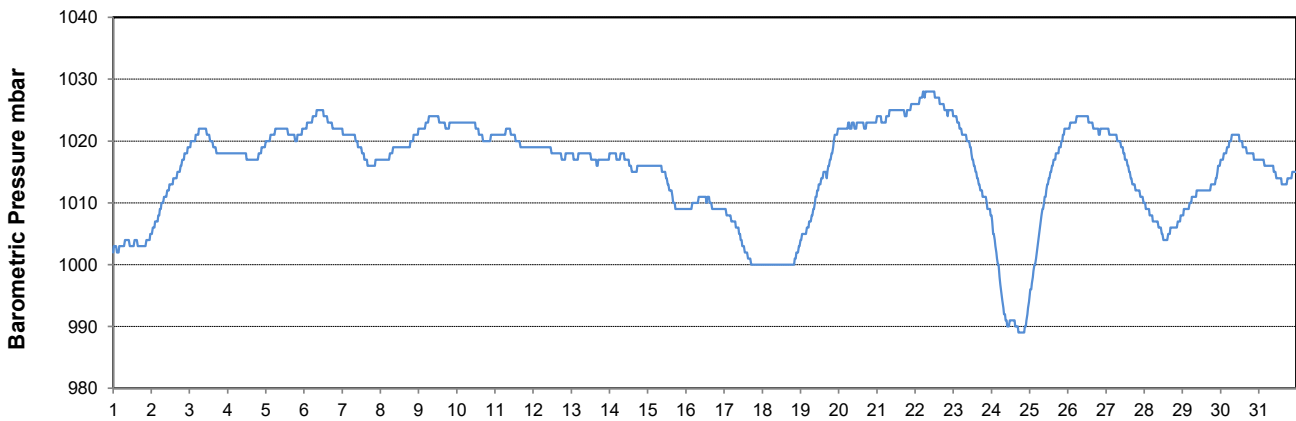
**Temperature and Precipitation for May 2021**



**Relative Humidity for May 2021**



**Barometric Pressure Corrected to Sea Level for May 2021**





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MAY 2021

Day	10 m tower Wind Gust			Wind Speed (10 meters) Daily Average km/h	Soil Temperatures at 0900hrs (rounded to the nearest 0.5C)								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 <sup>2</sup>	MJ/m <sup>2</sup>
1	55.0	NNW	13:42	14.2	16.0	10.0	10.0	10.0	7.0	5.0	4.5	4.5	11.9	15.0	79.5	21.0	6.2
2	47.8	N	10:59	21.1	7.5	9.5	10.0	10.0	8.0	5.5	4.5	4.5	5.9	15.0	39.3	17.2	7.0
3	33.5	N	0:42	11.6	2.5	6.5	7.5	8.5	8.0	5.5	5.0	4.5	14.6	15.1	96.9	26.9	2.8
4	31.2	NE	15:51	10.3	7.5	6.0	7.0	8.5	8.0	6.0	5.0	4.5	13.8	15.1	91.2	26.5	3.5
5	32.8	WNW	18:04	9.5	8.0	7.5	8.0	9.0	8.0	6.0	5.0	5.0	12.0	15.2	79.0	23.1	5.9
6	35.7	NE	16:24	11.5	8.5	8.0	9.0	9.5	8.5	6.0	5.0	5.0	14.6	15.3	95.7	26.0	6.6
7	48.1	SE	14:56	24.7	9.5	9.5	10.0	10.5	8.5	6.5	5.5	5.0	9.6	15.3	62.7	21.3	9.4
8	54.6	E	13:39	24.5	9.5	10.0	10.5	10.5	9.0	6.5	5.5	5.0	12.8	15.4	83.3	23.9	8.6
9	33.2	E	13:18	14.2	8.0	9.0	9.5	10.5	9.0	6.5	5.5	5.0	14.8	15.4	96.0	27.3	5.9
10	29.2	WSW	13:53	8.8	9.5	9.0	10.0	11.0	9.5	7.0	5.5	5.0	14.4	15.5	93.1	26.3	6.4
11	40.2	SW	12:00	11.6	13.5	10.5	11.0	11.5	9.5	7.0	5.5	5.0	11.1	15.5	71.5	22.9	7.3
12	45.7	W	16:09	9.4	13.5	11.0	11.5	11.5	10.0	7.0	6.0	5.0	9.4	15.6	60.3	20.4	7.6
13	35.5	N	13:36	7.2	14.5	11.0	11.0	11.5	10.0	7.5	6.0	5.0	13.0	15.6	83.2	24.1	9.4
14	62.9	W	16:28	9.7	15.0	12.5	13.0	13.0	10.5	7.5	6.0	5.0	9.0	15.7	57.4	19.8	7.5
15	40.6	WSW	14:28	10.5	14.5	12.0	12.5	13.0	11.0	8.0	6.5	5.0	9.9	15.7	62.9	20.5	7.2
16	38.1	ESE	23:56	12.4	18.0	14.0	14.0	13.5	11.0	8.0	6.5	5.5	8.9	15.8	56.4	19.5	9.4
17	57.2	SSW	14:57	21.4	20.5	14.5	14.5	14.5	11.5	8.0	6.5	5.5	14.8	15.8	93.4	24.8	8.4
18	54.0	W	20:37	23.2	22.5	15.5	16.0	15.5	12.0	8.5	6.5	5.5	12.2	15.9	76.8	23.1	8.2
19	56.2	W	7:03	27.8	6.0	14.0	15.0	15.5	12.5	8.5	7.0	5.5	9.6	15.9	60.3	21.1	7.1
20	36.8	ENE	11:13	20.7	1.0	10.5	11.5	13.0	12.5	9.0	7.0	5.5	0.0	16.0	0.0	9.6	7.2
21	30.4	NE	13:55	12.5	0.0	8.5	9.5	11.0	11.5	9.0	7.0	5.5	3.3	16.0	20.6	14.0	9.5
22	29.2	E	9:26	10.6	5.0	8.0	9.0	10.0	10.5	9.0	7.5	5.5	8.1	16.1	50.4	20.2	9.8
23	34.0	S	17:51	13.9	11.0	11.5	11.5	11.5	10.5	9.0	7.5	6.0	5.5	16.1	34.1	19.1	9.6
24	52.1	SSW	14:05	19.1	10.5	13.0	13.0	13.0	11.0	9.0	7.5	6.0	0.0	16.2	0.0	6.5	4.8
25	60.5	N	5:07	26.2	5.0	10.5	11.5	11.5	11.0	9.0	7.5	6.0	1.0	16.2	6.2	9.3	6.9
26	33.1	ESE	14:57	12.3	7.0	8.0	8.5	9.5	10.5	9.0	7.5	6.0	15.2	16.2	93.7	27.4	8.8
27	61.1	SSE	16:25	25.5	11.0	9.0	9.5	10.5	10.5	9.0	7.5	6.0	14.3	16.3	87.9	29.3	5.9
28	58.1	S	0:43	26.2	9.5	11.0	11.0	11.5	10.5	9.0	7.5	6.0	5.7	16.3	34.9	19.1	6.4
29	75.1	WNW	15:42	27.4	15.0	12.0	12.0	12.0	11.0	9.0	7.5	6.0	12.5	16.4	76.5	24.1	8.8
30	26.7	SSW	18:45	7.7	12.0	10.5	11.0	11.5	11.0	9.0	7.5	6.5	15.0	16.4	91.6	30.2	5.1
31	35.8	SSW	11:57	17.0	18.5	13.0	13.5	13.5	11.5	9.0	7.5	6.5	11.2	16.4	68.2	21.0	11.3
Total													314.1	488.3	64.3	665.5	228.5
Mean				16.2	10.6	10.5	11.0	11.5	10.1	7.7	6.3	5.4	1991-2020 Normal				
Extreme	75.1	WNW	15:42		1971- 2000 Normal for Soil Temperatures								274.7	487.8	56.3	634.1	214.0
Date	29				10.3	10.8	11.3	9.3	6.4	4.8	3.4	No. of Bright Sunshine days = 29					

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

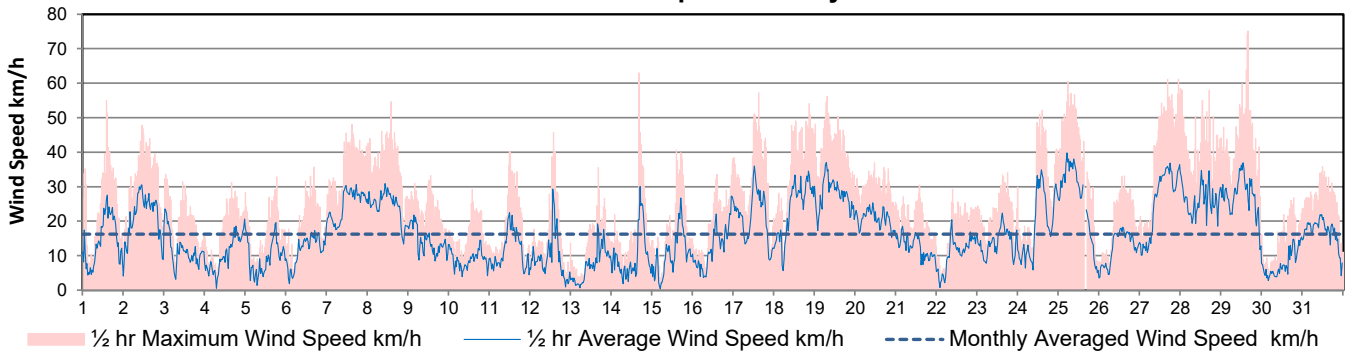
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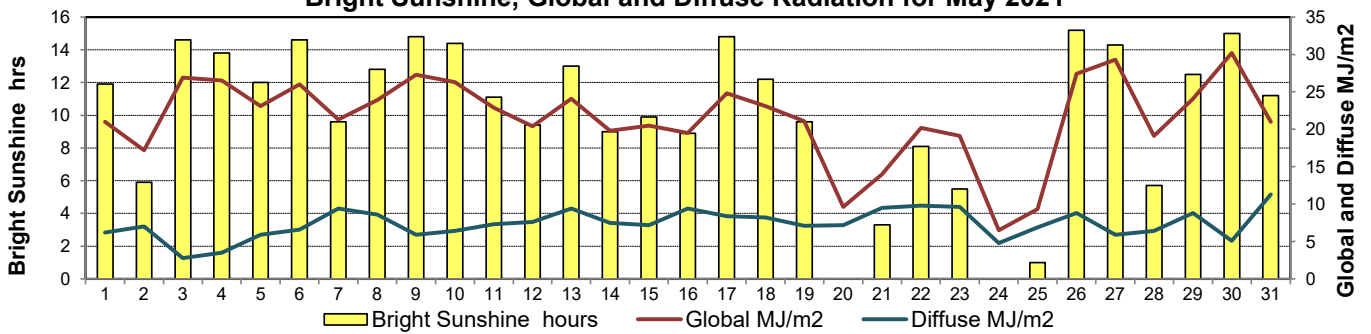
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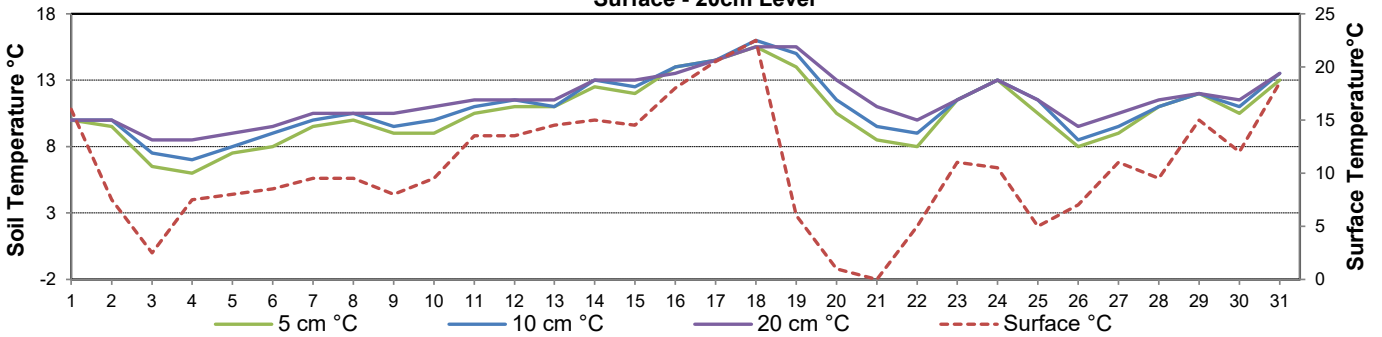
**10 m tower Wind Speed for May 2021**



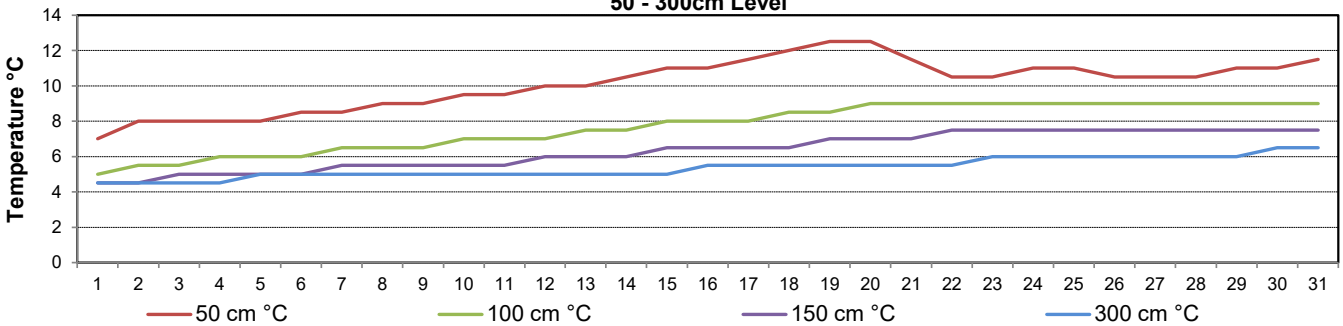
**Bright Sunshine, Global and Diffuse Radiation for May 2021**



**9 am Soil Temperatures for May 2021**  
Surface - 20cm Level



**9 am Soil Temperatures for May 2021**  
50 - 300cm Level





**SRC CLIMATE REFERENCE STATION DAILY DATA REPORT**

**SASKATOON STATION 4057180**

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

Preliminary

**MAY**

**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	11.0	21.9	39.6	12.5	15.5	11.5						
2	16.0	23.2	38.5	12.0	15.5	11.0						
3	10.0	17.0	26.4	11.5	14.5	11.5						
4	8.0	15.4	27.0	11.0	14.5	11.5						
5	8.0	15.6	28.1	11.5	13.5	11.5						
6	9.0	14.0	33.9	11.5	13.5	11.0						
7	19.0	23.8	36.8	11.5	13.0	11.5						
8	19.0	24.1	37.9	11.5	12.5	11.5						
9	11.0	16.5	30.4	11.0	12.0	11.5						
10	7.0	11.8	27.5	11.0	12.0	11.5						
11	9.0	17.4	31.0	11.5	11.5	11.5						
12	7.0	22.4	34.4	11.5	11.5	11.0						
13	6.0	15.2	29.8	11.0	11.0	11.0						
14	8.0	22.6	51.2	11.0	11.0	11.0						
15	8.0	21.2	36.8	11.0	10.5	11.0						
16	10.0	20.9	30.4	11.0	11.0	11.0						
17	16.0	27.3	44.2	11.0	10.0	11.0						
18	18.0	26.6	42.5	10.5	10.0	10.5						
19	21.0	29.1	47.7	10.5	10.0	10.5						
20	16.0	19.6	31.6	10.5	10.0	10.5						
21	10.0	14.7	28.1	10.0	9.5	10.0						
22	8.0	16.3	22.4	9.5	9.5	10.5						
23	10.0	15.6	28.7	10.0	9.0	9.5						
24	14.0	26.9	43.7	10.0	10.0	10.0						
25	20.0	29.6	45.4	24.5	9.0	10.0						
26	9.0	14.3	28.7	24.5	9.0	10.0						
27	16.0	22.5	46.0	24.0	9.5	9.5						
28	19.0	27.9	45.4	23.5	9.5	10.0						
29	21.0	28.8	60.9	23.0	10.0	10.0						
30	6.0	11.4	24.7	22.0	10.0	10.0						
31	13.0	0.0	30.0	21.5	11.0	10.0						
Total												
Mean				14	11	10.7						
Extreme	21.0	29.6	60.9	24.5	15.5	11.5						
Date	19	25	29	25	1	1						

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

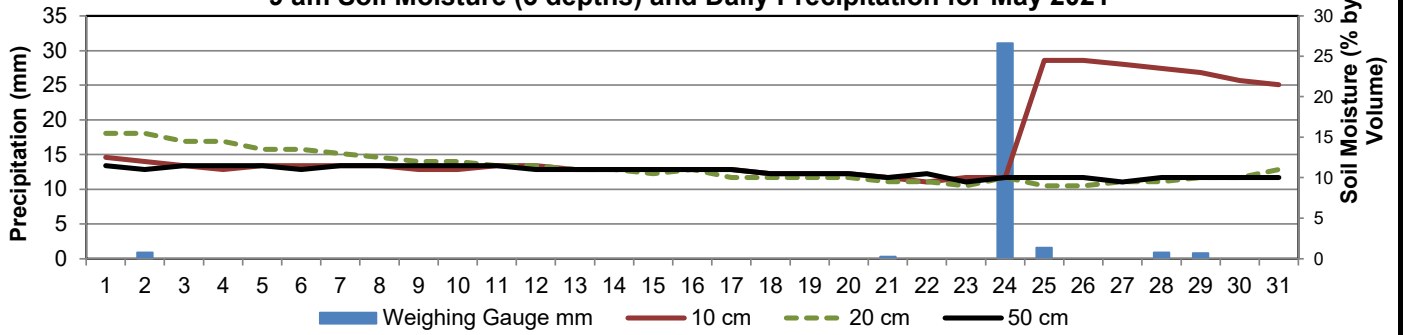
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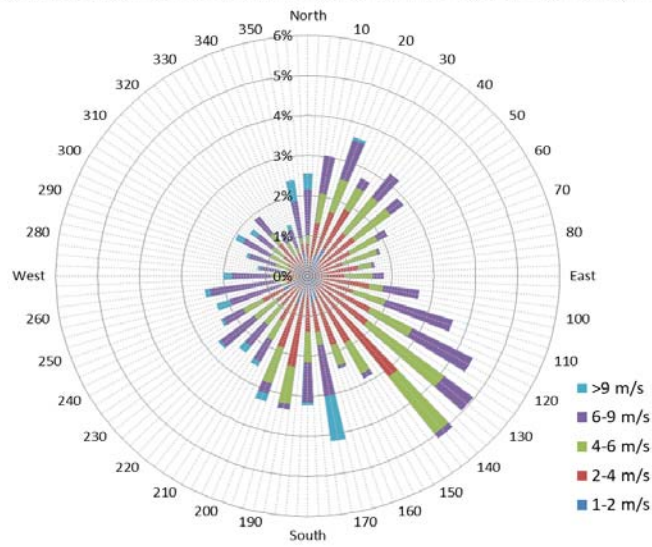
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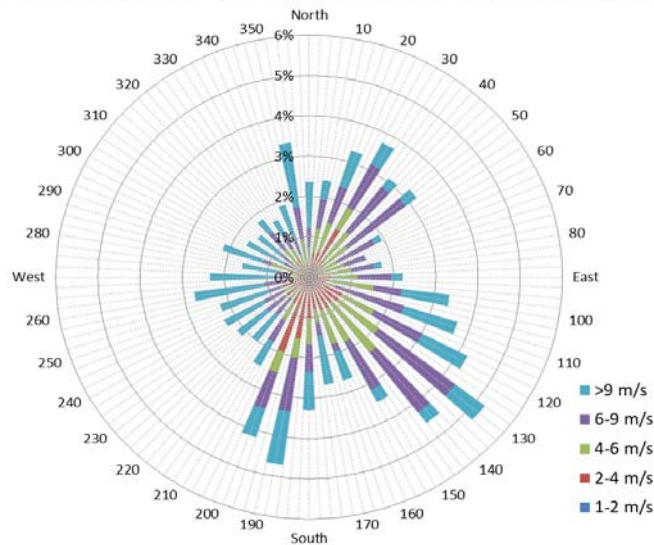
9 am Soil Moisture (3 depths) and Daily Precipitation for May 2021



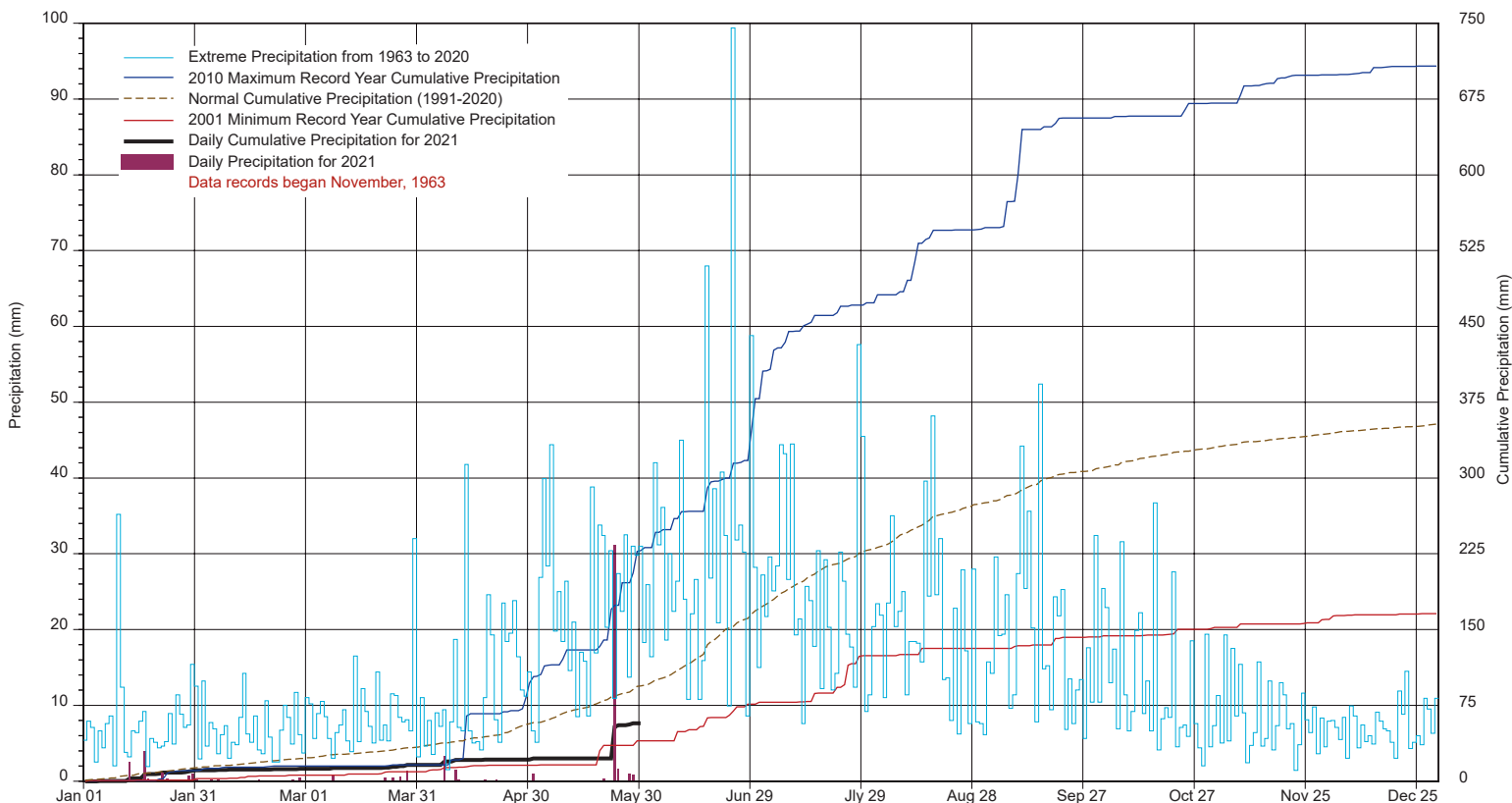
10 minute Average Wind Speed and Direction Saskatoon May 2021



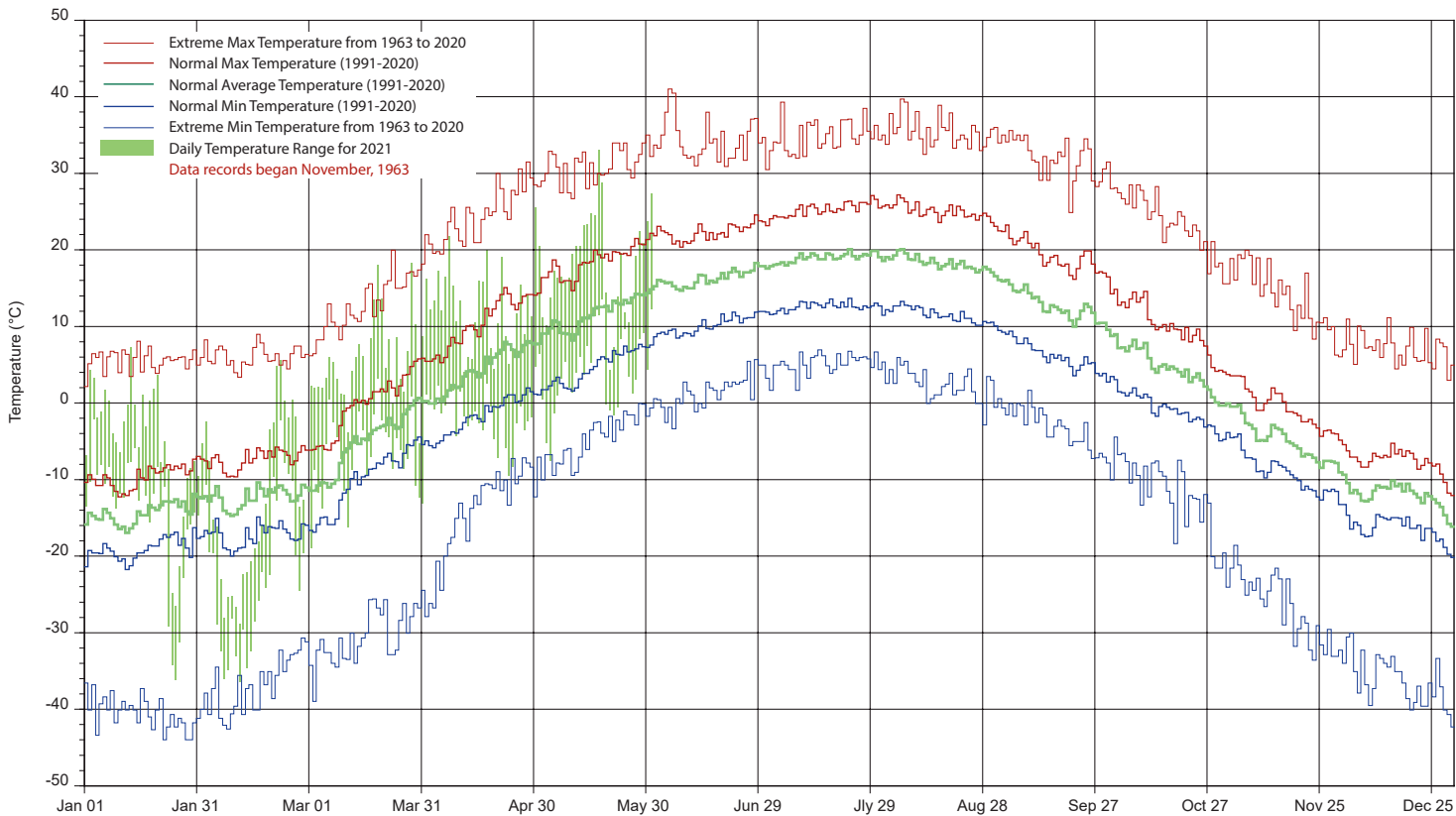
1/2 hr Maximum Wind Speed and Direction Saskatoon May 2021



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



## 2021 TEMPERATURES AND NORMALS



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SASKATOON STATION 4057180

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

Preliminary MAY 2021

Extreme Records for May

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	
37.2	27/1936	SE	35.0	30/1988	178.0	1977	SWT	145.3	1977	132	17 <sup>SW</sup>	1965	108	1991	389.3	1980	31	1966*
-12.8	06/1907	SE	-10.0	02/1967	0.0	02, '02, 1988	SWT, K, CSC	0.2	2002						153.0	1996	24	2006

\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - May						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Lowest Maximum Daily	20	4.3	6.9	2009	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Highest Maximum Daily	17	33	30	1964	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Lowest Minimum Daily	4	-7.5	-6.7	2002	S	Saskatoon	1941-1942	na	not available
	Lowest Mean Daily	20	1.7	3.2	2009	SA	Saskatoon A	1942 -	<b>Degree-days</b>	
	Highest Mean Daily	21	2.9	3.5	1992	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
Cooling Degree-day	Highest Daily	17	4.2	3.8	1988	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
		24	31.1	27.4	1978	SWT	S'toon Water Treatment Plant	1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0
Precipitation	Highest Daily Maximum	24	31.1	27.4	1978	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	Power outage May 6 12:30 am to 10:30 am Battery backup replaced May 6 at 15:00	
						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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