



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL 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	2.2	5.5	-4.1	-4.9	-1.0	0.3	0.0	19.0	0.0	0.0		-	89	58	1014	1001
2	3.4	5.5	-5.9	-5.5	-1.3	0.0	0.0	19.3	0.0	0.7	light snow/rain	-	90	66	1015	1011
3	11.0	5.8	-2.3	-5.8	4.4	0.0	0.0	13.6	0.0	0.0		-	95	33	1014	1005
4	15.1	6.3	1.5	-5.2	8.3	0.6	3.3	9.7	0.0	0.0		-	80	30	1005	986
5	8.1	5.3	1.5	-4.9	4.8	0.2	0.0	13.2	0.0	2.5	light rain	-	92	71	1010	986
6	5.9	6.0	-3.1	-4.1	1.4	0.9	0.0	16.6	0.0	0.5	light rain	-	94	65	1026	1011
7	11.0	7.5	-1.2	-4.1	4.9	1.7	0.0	13.1	0.0	0.0		-	92	34	1031	1025
8	17.7	8.6	0.2	-3.7	9.0	2.4	4.0	9.0	0.0	0.0		-	77	24	1025	996
9	15.0	7.9	2.2	-3.9	8.6	2.0	3.6	9.4	0.0	0.0		-	73	29	1001	995
10	2.8	7.8	-4.5	-3.4	-0.9	2.2	0.0	18.9	0.0	0.2	light snow	-	86	44	1004	1001
11	-4.5	9.5	-9.1	-2.5	-6.8	3.5	0.0	24.8	0.0	0.4	light snow	0	87	56	1013	1005
12	-5.7	10.1	-9.6	-1.8	-7.7	4.2	0.0	25.7	0.0	0.1	light snow	0	74	58	1022	1014
13	-4.2	10.2	-9.9	-1.6	-7.1	4.3	0.0	25.1	0.0	0.1	light snow	0	77	55	1022	1018
14	-0.8	9.6	-7.5	-1.5	-4.2	4.1	0.0	22.2	0.0	0.2	light snow	0	81	37	1018	1015
15	-0.3	8.7	-8.1	-2.0	-4.2	3.4	0.0	22.2	0.0	0.0		0	83	23	1022	1017
16	3.1	10.2	-7.2	-2.4	-2.1	3.9	0.0	20.1	0.0	0.0		0	70	21	1023	1018
17	4.7	12.4	-7.6	-0.3	-1.5	6.1	0.0	19.5	0.0	0.0		0	86	21	1024	1018
18	10.2	11.4	-7.0	-1.1	1.6	5.2	0.0	16.4	0.0	0.0		0	83	22	1024	1015
19	6.1	12.3	-2.0	-0.4	2.1	6.0	0.0	15.9	0.0	2.1	light snow	0	93	33	1014	1000
20	2.7	13.4	-3.3	-0.5	-0.3	6.5	0.0	18.3	0.0	1.7	light snow	3	94	62	1016	998
21	6.2	14.2	-6.6	-0.3	-0.2	7.0	0.0	18.2	0.0	0.1		0	90	40	1019	1016
22	3.5	15.1	-0.7	0.8	1.4	8.0	0.0	16.6	0.0	0.0		0	93	77	1017	1015
23	11.9	14.3	0.7	1.1	6.3	7.7	1.3	11.7	0.0	0.5	light snow/rain	0	93	32	1019	1016
24	10.2	12.9	-1.3	1.1	4.5	7.0	0.0	13.5	0.0	0.0		0	78	25	1025	1019
25	10.1	12.2	-2.4	0.1	3.9	6.1	0.0	14.1	0.0	0.0		0	76	31	1026	1021
26	13.2	13.1	-2.1	0.3	5.6	6.7	0.6	12.4	0.0	0.0		0	67	31	1021	1013
27	15.3	14.0	1.0	1.1	8.2	7.6	3.2	9.8	0.0	1.0	snow/rain/sleet	0	81	38	1014	1010
28	18.2	14.2	2.1	2.0	10.2	8.1	5.2	7.8	0.0	0.0		0	84	18	1011	1007
29	17.4	14.2	2.2	1.5	9.8	7.9	4.8	8.2	0.0	0.0		0	85	19	1019	1010
30	18.1	14.1	2.2	1.2	10.2	7.7	5.2	7.8	0.0	0.0		0	67	16	1020	1018
Total							31.2	472.1	0.0	10.1			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	7.6	10.4	-3.1	-1.7	2.3	4.4	1991-2020 Normal			23.3	1991-2020 Normal					
Extreme Date	18.2		-9.9				60.6	414.2	0.2	56.3	Year to date 2022 Cumulative		95	16	1031	986
Date	28		13							56.8	Year to date Cumulative Normal		3	30	7	4

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

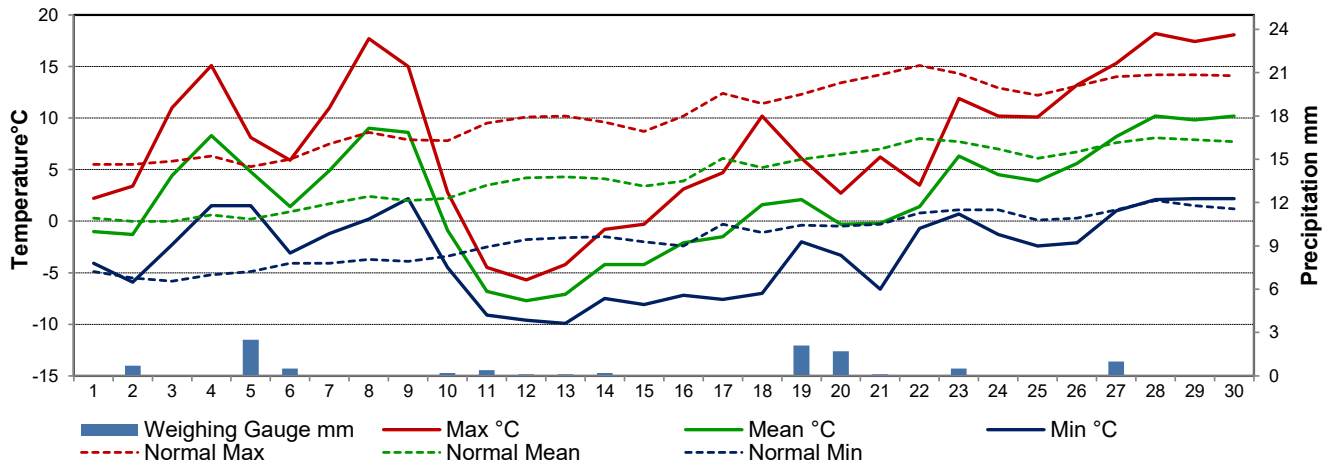
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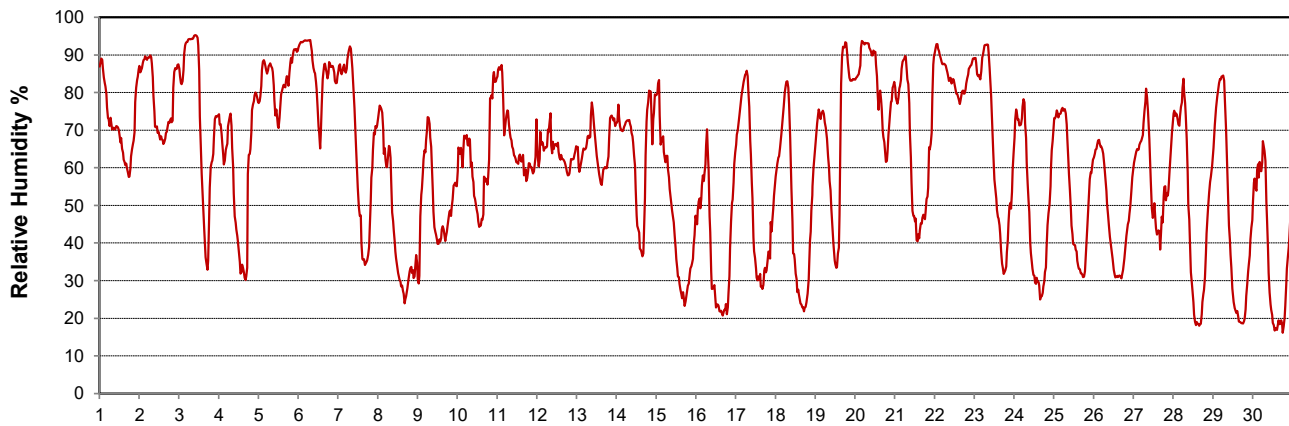
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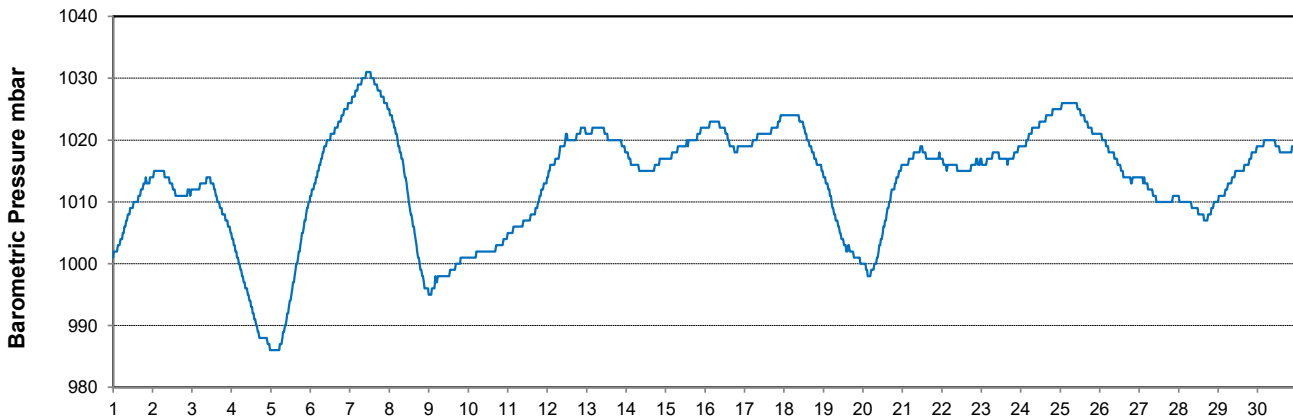
Temperature and Precipitation for April 2022



Relative Humidity for April 2022



Barometric Pressure Corrected to Sea Level for April 2022





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SASKATOON STATION 4057180

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

Preliminary **APRIL 2022**

Day	Wind Gust			Wind Speed (10 meters)	Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time		Daily Average	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global
	km/h			km/h		°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²
1	50.6	NW	9:57	24.5	-0.5	0.0	0.5	0.0	1.0	2.0	2.0	3.5	3.9	13.0	30.0	9.5	7.6
2	35.9	SE	14:31	14.8	-3.0	0.0	0.5	-0.5	1.0	2.0	2.0	3.5	6.8	13.1	52.0	13.9	9.0
3	35.9	SE	22:57	10.9	-1.5	0.0	0.5	-0.5	1.0	2.0	2.0	3.5	6.9	13.1	52.5	15.7	4.7
4	48.3	ESE	18:19	21.9	4.5	0.0	0.5	0.0	1.0	2.0	2.0	3.5	9.2	13.2	69.6	17.6	4.2
5	39.1	ESE	0:16	19.4	4.0	0.5	1.0	0.5	1.0	2.0	2.0	3.5	2.7	13.3	20.3	8.0	5.9
6	30.4	WNW	14:23	10.3	0.0	1.0	1.5	1.5	1.5	2.0	2.0	3.5	3.0	13.3	22.5	7.8	6.1
7	34.4	SE	22:22	9.8	3.0	1.5	2.0	2.0	1.5	2.0	2.0	3.5	12.7	13.4	94.7	19.9	3.9
8	54.6	SSE	13:23	23.4	6.5	2.5	3.0	3.5	2.5	2.0	2.0	3.5	8.9	13.5	66.1	16.3	6.4
9	56.0	WNW	13:10	26.7	6.5	5.0	5.0	5.0	3.0	2.5	2.0	3.5	5.8	13.5	42.8	14.4	7.1
10	52.6	WNW	11:38	27.5	1.0	2.5	3.5	4.0	3.5	2.5	2.0	3.5	1.6	13.6	11.8	9.3	8.4
11	45.7	NW	10:44	20.6	-7.0	1.5	2.0	2.5	3.0	3.0	2.5	3.5	0.3	13.7	2.2	8.1	7.6
12	39.8	N	13:59	23.9	-9.0	0.5	1.0	1.5	2.5	3.0	2.5	3.5	0.0	13.7	0.0	8.7	8.2
13	45.3	N	11:33	27.7	-9.0	0.0	0.5	1.0	2.0	3.0	2.5	3.5	1.9	13.8	13.8	11.1	9.7
14	44.6	NNE	15:36	26.1	-7.0	0.0	0.5	0.5	2.0	3.0	2.5	3.5	2.1	13.9	15.1	10.6	9.0
15	32.7	NNE	0:19	13.1	-5.5	0.0	0.5	0.0	1.5	3.0	2.5	3.5	10.1	13.9	72.5	16.5	9.7
16	32.9	SSE	13:56	9.7	-2.0	0.0	0.5	0.5	1.5	2.5	2.5	3.5	12.3	14.0	87.9	21.6	5.7
17	35.3	N	14:40	9.0	-2.0	0.0	0.5	0.5	1.5	2.5	2.5	3.5	11.1	14.1	78.9	17.8	7.8
18	32.9	SW	13:07	9.0	0.0	0.5	1.0	1.0	1.5	2.5	2.5	3.5	11.2	14.1	79.3	20.7	5.5
19	65.1	ESE	13:46	29.7	1.0	1.5	2.0	1.5	2.0	2.5	2.5	3.5	1.2	14.2	8.5	8.2	7.4
20	51.7	NE	8:29	24.0	-2.5	2.0	2.5	2.0	2.0	2.5	2.5	3.5	1.8	14.3	12.6	11.2	10.0
21	38.2	SE	12:35	15.2	-0.5	0.5	1.0	1.5	2.0	2.5	2.5	3.5	10.2	14.3	71.2	21.5	7.0
22	29.1	ESE	11:15	13.9	2.0	2.5	2.5	2.5	2.5	3.0	2.5	3.5	0.0	14.4	0.0	4.5	4.2
23	47.1	N	16:12	20.7	2.5	2.5	3.0	3.0	2.5	3.0	2.5	3.5	8.9	14.5	61.6	16.9	9.8
24	39.5	NE	13:47	14.1	5.5	2.5	3.0	4.0	3.0	3.0	2.5	3.5	13.3	14.5	91.7	24.1	5.3
25	44.1	SE	14:22	21.9	3.0	3.0	3.5	4.5	3.5	3.0	2.5	3.5	13.5	14.6	92.7	23.7	7.6
26	67.8	SE	20:33	35.0	2.5	3.0	3.5	4.5	4.0	3.0	3.0	3.5	13.3	14.6	90.8	23.5	6.7
27	54.0	SSE	0:25	24.2	2.5	4.0	5.0	5.0	4.0	3.5	3.0	3.5	5.7	14.7	38.8	14.6	7.9
28	41.8	SW	13:25	13.5	8.0	5.0	5.5	5.5	4.5	3.5	3.0	3.5	13.1	14.8	88.8	23.4	6.5
29	44.5	N	12:06	14.7	11.0	6.5	7.0	5.5	5.0	3.5	3.0	3.5	11.2	14.8	75.6	21.2	9.3
30	32.9	NNE	14:41	11.1	10.0	7.0	7.5	8.0	5.5	4.0	3.0	3.5	11.8	14.9	79.3	22.1	6.1
Total													214.5	418.7	51.2	462.4	214.3
Mean				18.9	0.8	1.9	2.4	2.4	2.4	2.7	2.4	3.5	1991-2020 Normal				
Extreme	67.8	SE	20:33		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 = 28					

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

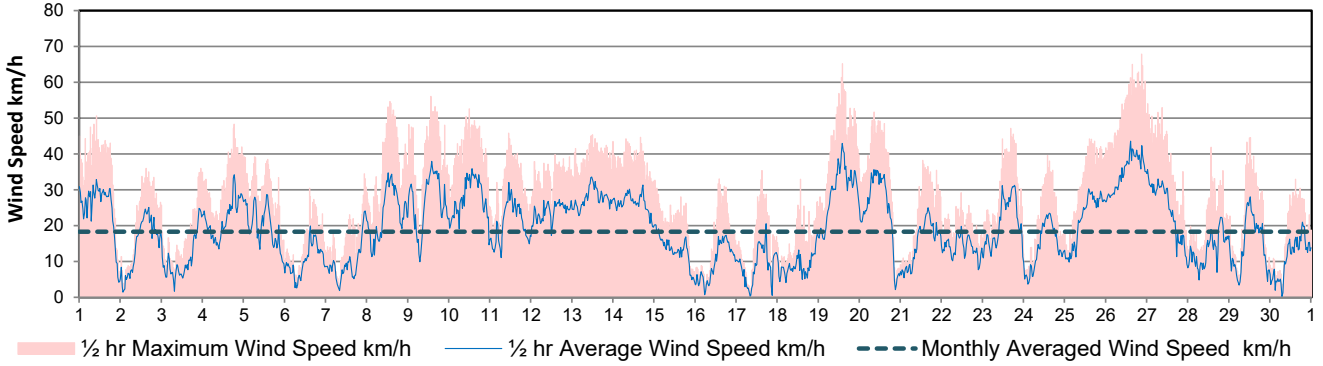
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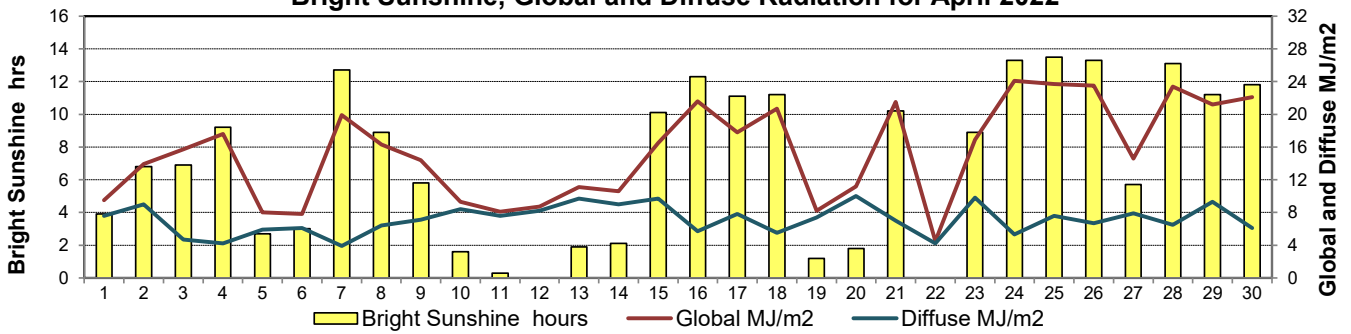
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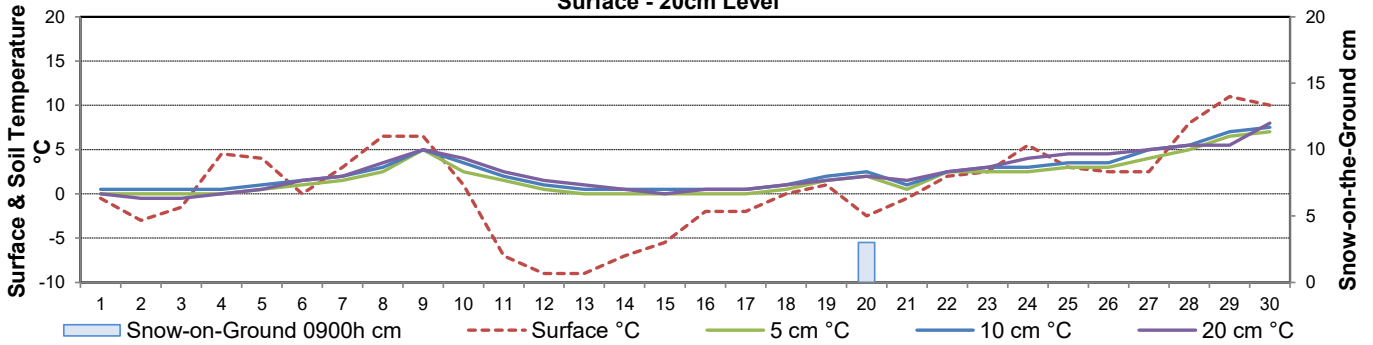
Wind Speed for April 2022



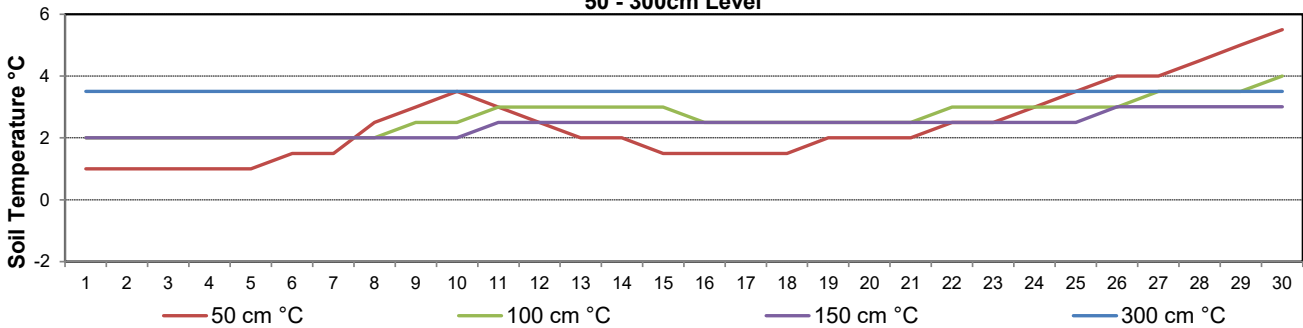
Bright Sunshine, Global and Diffuse Radiation for April 2022



Soil Temperatures for April 2022
Surface - 20cm Level



Soil Temperatures for April 2022
50 - 300cm Level





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Preliminary APRIL 2022

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	Operational Period	Code	Description	
Temperature	Lowest Daily	12	-5.7	-5.0	1986	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Maximum	15	-0.3	-0.3	2001	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
Heating Degree-Days	Highest Daily	12	25.7	25.4	2020	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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Preliminary April 2022

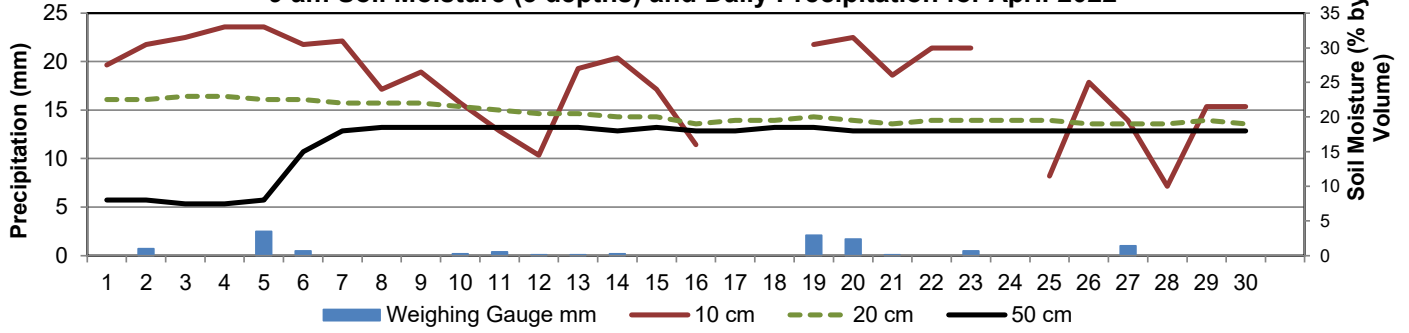
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))														
1	18.0	24.7	38.5	27.5	22.5	8.0												
2	11.0	19.7	30.4	30.5	22.5	8.0												
3	8.0	18.3	28.1	31.5	23.0	7.5	NOTE: the 10 cm soil moisture is sill a bit weird											
4	15.0	26.5	39.6	33.0	23.0	7.5												
5	15.0	21.8	34.4	33.0	22.5	8.0												
6	7.0	15.4	24.7	30.5	22.5	15.0												
7	8.0	17.6	27.5	31.0	22.0	18.0												
8	14.0	21.9	44.8	24.0	22.0	18.5												
9	20.0	28.5	45.4	26.5	22.0	18.5												
10	21.0	27.4	41.9	22.0	21.5	18.5												
11	16.0	24.2	37.9	18.0	21.0	18.5												
12	18.0	20.8	30.4	14.5	20.5	18.5												
13	21.0	25.4	36.2	27.0	20.5	18.5												
14	19.0	22.9	35.0	28.5	20.0	18.0												
15	10.0	15.0	23.5	24.0	20.0	18.5												
16	7.0	13.4	32.1	16.0	19.0	18.0												
17	7.0	15.6	27.5		19.5	18.0												
18	7.0	11.5	23.5		19.5	18.5												
19	23.0	32.3	51.7	30.5	20.0	18.5												
20	18.0	27.0	44.8	31.5	19.5	18.0												
21	10.0	19.4	33.3	26.0	19.0	18.0												
22	11.0	15.6	24.1	30.0	19.5	18.0												
23	15.0	22.8	37.9	30.0	19.5	18.0												
24	10.0	18.8	32.1		19.5	18.0												
25	17.0	23.9	36.8	11.5	19.5	18.0												
26	25.0	32.6	54.6	25.0	19.0	18.0												
27	17.0	25.3	41.9	19.5	19.0	18.0												
28	10.0	17.2	40.8	10.0	19.0	18.0												
29	10.0	21.0	36.2	21.5	19.5	18.0												
30	7.0	15.6	29.8	21.5	19.0	18.0												
Total																		
Mean				25	21	16.4												
Extreme	25.0	32.6	54.6	33	23	18.5												
Date	26	26	26	4	3	8												

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

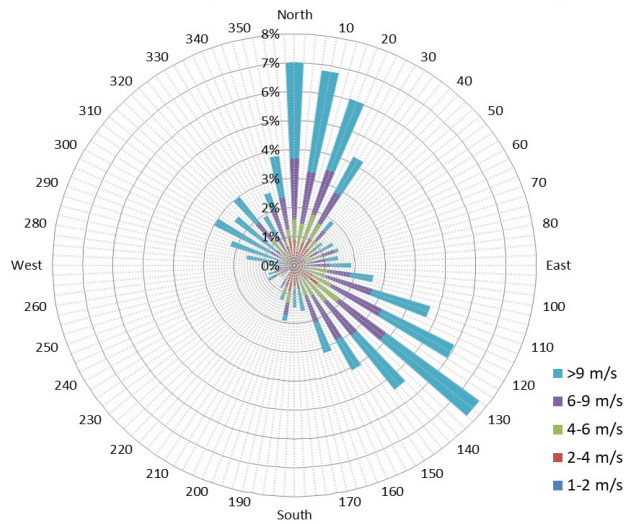
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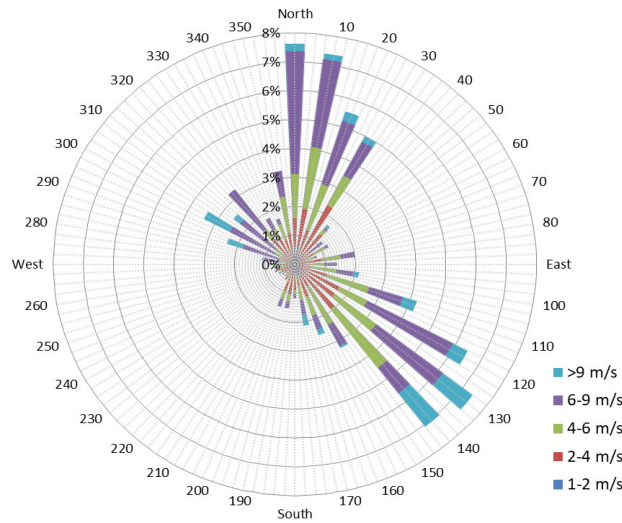
9 am Soil Moisture (3 depths) and Daily Precipitation for April 2022



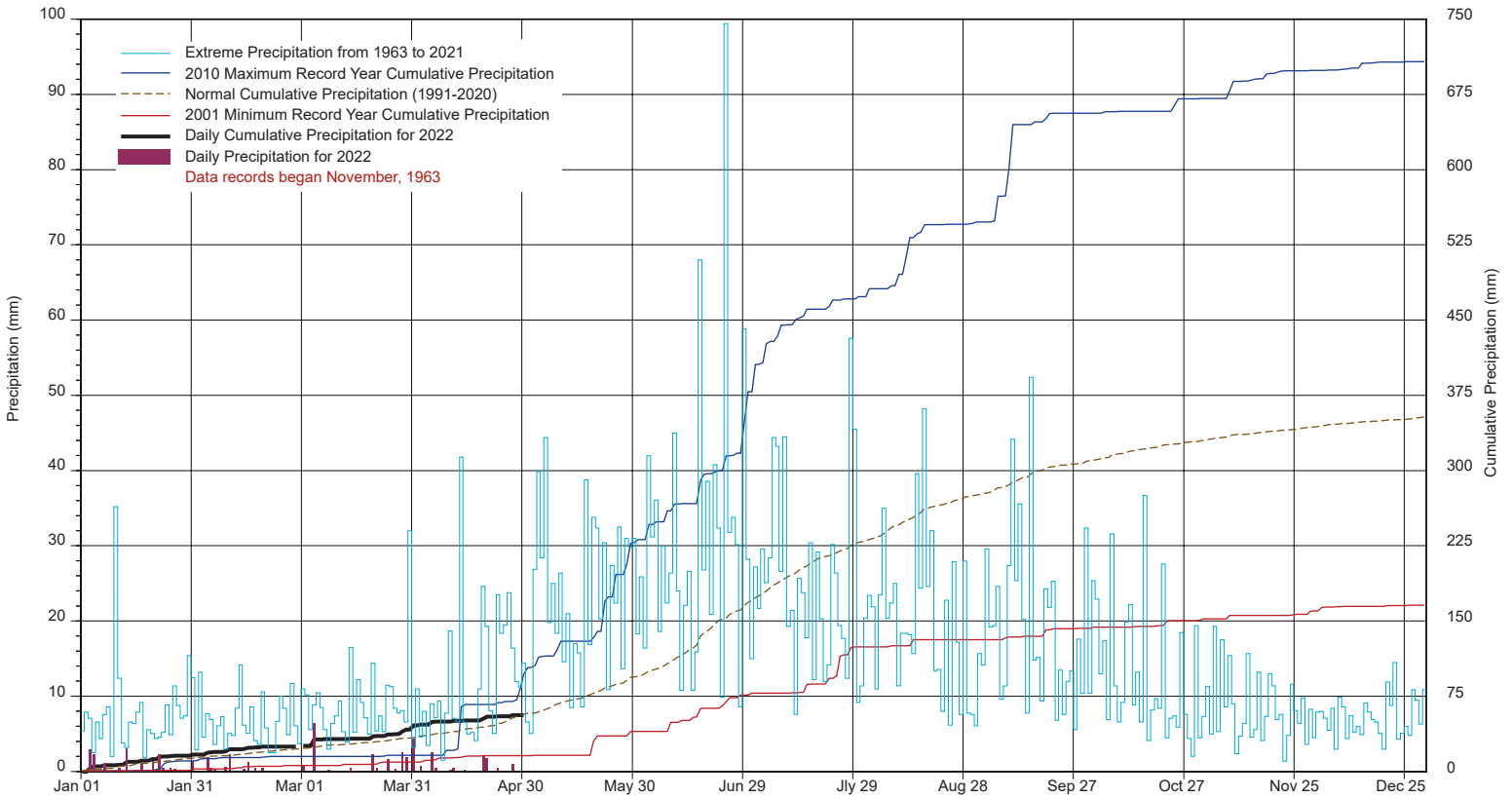
1/2 hr Maximum Wind Speed and Direction Saskatoon April 2022



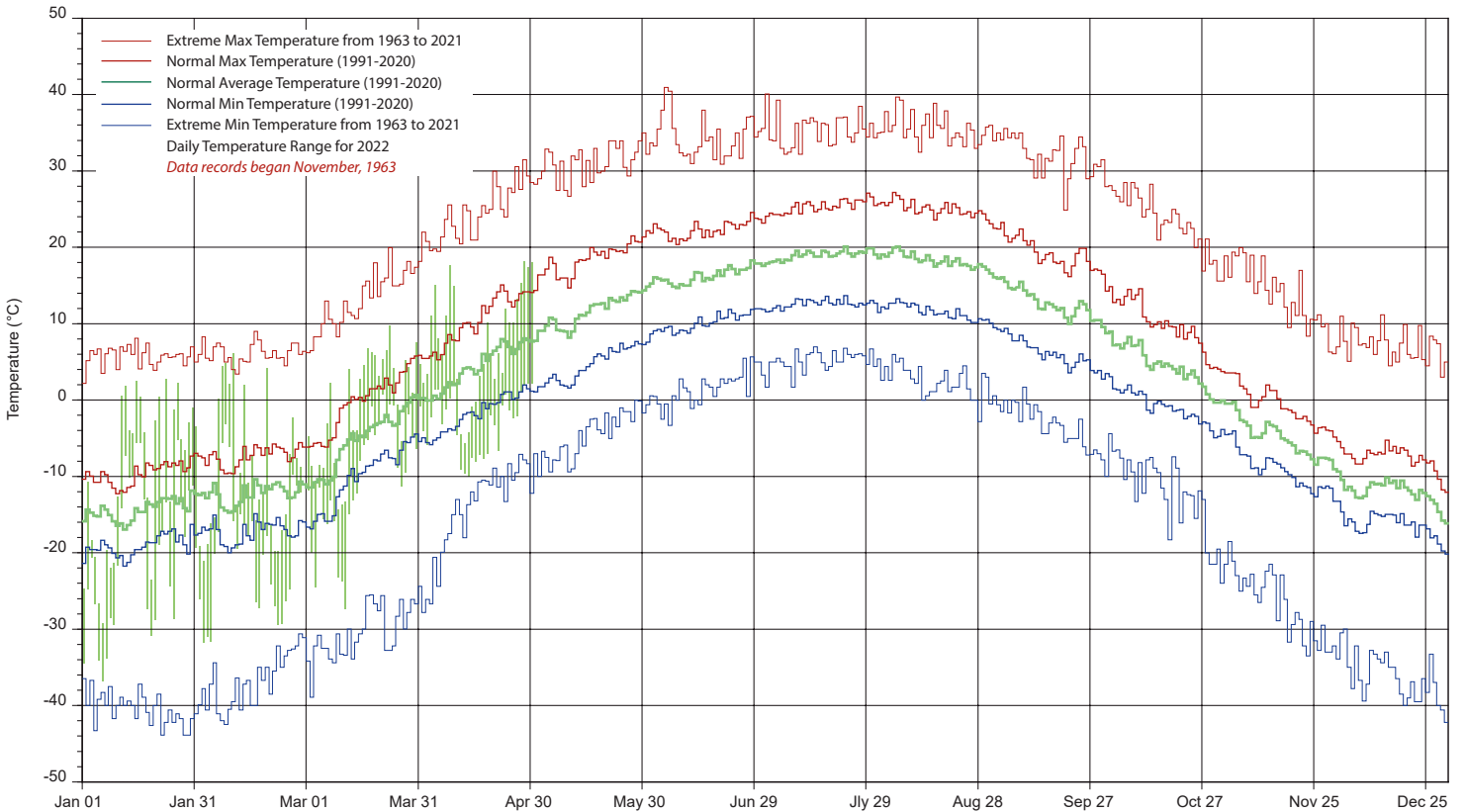
10 minute Average Wind Speed and Direction Saskatoon April 2022



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2022 PRECIPITATION AND NORMALS



2022 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:



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