



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **FEBRUARY 2021**

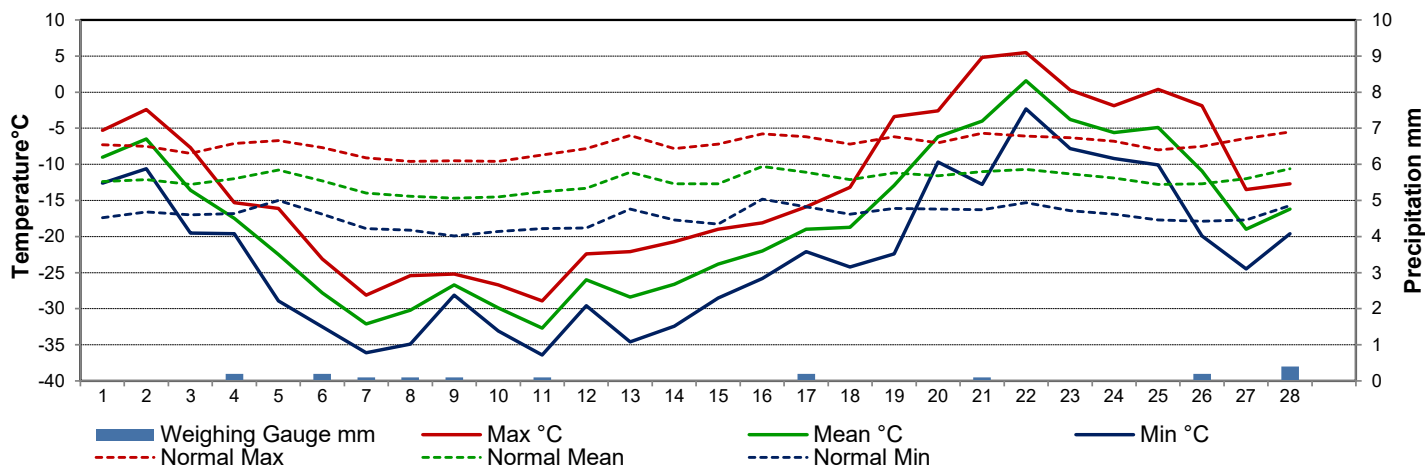
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1991-2020	°C	1991-2020	°C	1991-2020	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-5.3	-7.3	-12.6	-17.4	-9.0	-12.4	0.0	27.0	0.0	0.0		13	87	75	1019	1010
2	-2.4	-7.5	-10.6	-16.6	-6.5	-12.1	0.0	24.5	0.0	0.0		13	92	70	1010	1002
3	-7.7	-8.5	-19.5	-17.0	-13.6	-12.8	0.0	31.6	0.0	0.0	very light snow	13	88	68	1014	1006
4	-15.3	-7.1	-19.6	-16.8	-17.5	-12.0	0.0	35.5	0.0	0.2	light snow	13	78	69	1014	1012
5	-16.1	-6.7	-28.9	-15.0	-22.5	-10.8	0.0	40.5	0.0	0.0		13	78	54	1025	1012
6	-23.1	-7.7	-32.5	-16.9	-27.8	-12.3	0.0	45.8	0.0	0.2	ice crystals	12	73	57	1026	1023
7	-28.1	-9.1	-36.1	-18.9	-32.1	-14.0	0.0	50.1	0.0	0.1	ice crystals	12	70	59	1025	1022
8	-25.4	-9.6	-34.9	-19.1	-30.2	-14.4	0.0	48.2	0.0	0.1	ice crystals	13	72	63	1022	1019
9	-25.2	-9.5	-28.1	-19.9	-26.7	-14.7	0.0	44.7	0.0	0.1	ice crystals	13	72	64	1023	1019
10	-26.7	-9.6	-33.1	-19.3	-29.9	-14.5	0.0	47.9	0.0	0.0		13	70	54	1032	1023
11	-28.9	-8.7	-36.4	-18.9	-32.7	-13.8	0.0	50.7	0.0	0.1	light snow	13	70	55	1034	1027
12	-22.4	-7.8	-29.6	-18.8	-26.0	-13.3	0.0	44.0	0.0	0.0		13	74	63	1032	1025
13	-22.1	-6.0	-34.6	-16.2	-28.4	-11.1	0.0	46.4	0.0	0.0		12	74	66	1034	1032
14	-20.7	-7.8	-32.4	-17.7	-26.6	-12.7	0.0	44.6	0.0	0.0		12	74	54	1034	1026
15	-19.0	-7.2	-28.5	-18.3	-23.8	-12.7	0.0	41.8	0.0	0.0		13	70	56	1026	1012
16	-18.1	-5.8	-25.8	-14.8	-22.0	-10.3	0.0	40.0	0.0	0.0		13	79	61	1012	1010
17	-15.9	-6.2	-22.1	-15.9	-19.0	-11.1	0.0	37.0	0.0	0.2	light snow	13	81	61	1022	1010
18	-13.2	-7.2	-24.2	-16.9	-18.7	-12.1	0.0	36.7	0.0	0.0		12	81	57	1023	1016
19	-3.4	-6.2	-22.4	-16.1	-12.9	-11.2	0.0	30.9	0.0	0.0		13	84	61	1015	1003
20	-2.6	-7.0	-9.7	-16.2	-6.2	-11.6	0.0	24.2	0.0	0.0		12	92	55	1005	1003
21	4.8	-5.7	-12.8	-16.3	-4.0	-11.0	0.0	22.0	0.0	0.1	light freezing rain	13	83	58	1005	991
22	5.5	-6.1	-2.3	-15.3	1.6	-10.7	0.0	16.4	0.0	0.0		12	82	56	1002	990
23	0.3	-6.3	-7.8	-16.4	-3.8	-11.3	0.0	21.8	0.0	0.0		10	91	73	1012	1000
24	-1.9	-6.8	-9.2	-16.9	-5.6	-11.9	0.0	23.6	0.0	0.0		10	92	73	1019	1012
25	0.4	-8.0	-10.1	-17.7	-4.9	-12.8	0.0	22.9	0.0	0.0		10	87	63	1016	993
26	-1.9	-7.5	-19.9	-17.9	-10.9	-12.7	0.0	28.9	0.0	0.2	light snow	10	88	70	1013	993
27	-13.5	-6.4	-24.5	-17.7	-19.0	-12.0	0.0	37.0	0.0	0.0		10	78	63	1017	1013
28	-12.7	-5.5	-19.6	-15.7	-16.2	-10.6	0.0	34.2	0.0	0.4	light snow	10	83	66	1019	1014
Total							0.0	998.9	0.0	1.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-12.9	-7.3	-22.4	-17.2	-17.7	-12.2	1991-2020 Normal			9.1	1991-2020 Normal					
Extreme Date	5.5		-36.4				0.0	853.6	0.0	12.5	Cumulative		92	54	1034	990
	22		11							22.3	Cum. Normal		2	5	11	22

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

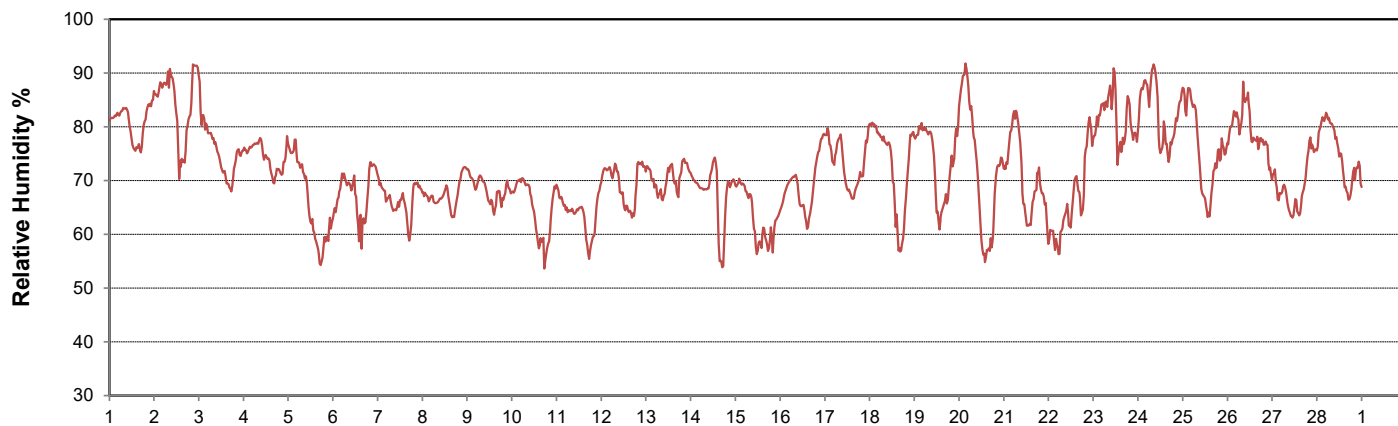
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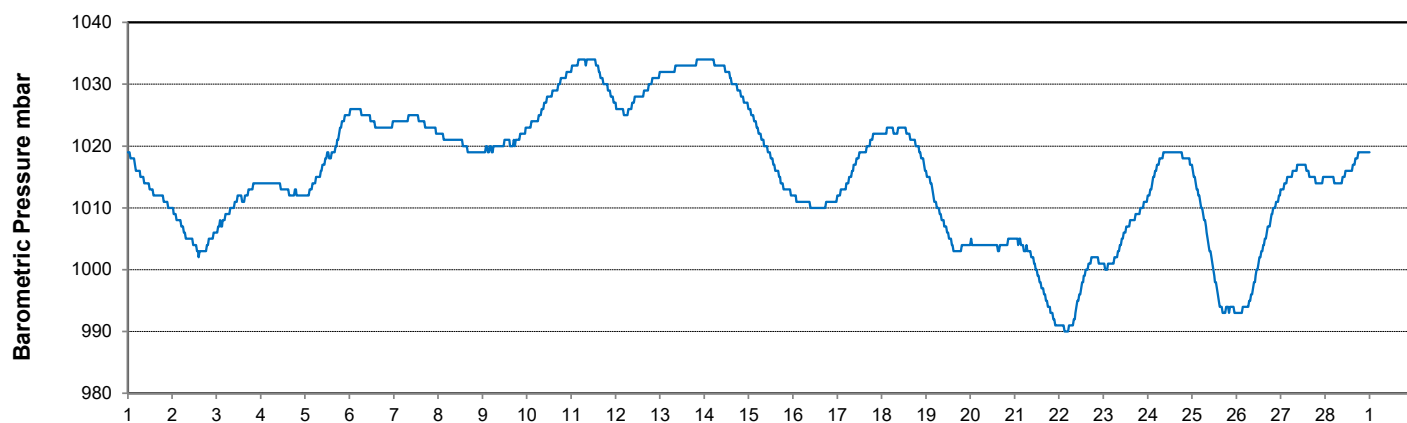
Temperature and Precipitation for February 2021



Relative Humidity for February 2021



Barometric Pressure Corrected to Sea Level for February 2021





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SASKATOON STATION 4057180

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Preliminary

FEBRUARY 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 ²	MJ/m ²
1	33.4	SE	2:28	13.4	-9.5	-4.5	-4.0	-3.5	-1.0	2.5	3.5	5.5	6.6	9.1	72.2	6.3	2.2
2	34.2	WNW	20:35	10.0	-8.0	-4.5	-4.0	-3.5	-1.0	2.5	3.5	5.5	2.6	9.2	28.3	5.1	3.4
3	42.6	WNW	12:29	23.3	-10.5	-4.0	-3.5	-3.0	-1.0	2.0	3.5	5.5	6.7	9.3	72.4	6.8	1.6
4	28.5	NW	23:15	13.6	-15.0	-4.0	-3.5	-3.0	-1.0	2.0	3.5	5.5	5.4	9.3	57.9	6.4	2.9
5	43.6	N	4:46	18.5	-17.5	-4.5	-4.0	-3.0	-1.0	2.0	3.5	5.5	8.5	9.4	90.6	7.8	1.8
6	22.6	NNW	0:57	6.3	-27.0	-5.5	-4.5	-3.5	-1.0	2.0	3.5	5.5	8.9	9.4	94.3	8.7	2.1
7	19.8	WSW	19:20	7.7	-29.5	-6.5	-5.5	-4.5	-1.0	2.0	3.5	5.5	8.9	9.5	93.7	9.6	2.0
8	51.6	WSW	15:20	24.4	-29.5	-8.0	-7.0	-5.5	-1.5	2.0	3.5	5.5	8.4	9.6	87.9	9.4	2.1
9	48.7	NW	0:24	27.7	-23.0	-9.0	-8.0	-6.0	-2.0	2.0	3.0	5.5	4.3	9.6	44.7	6.1	3.6
10	28.8	WNW	16:56	16.8	-24.5	-9.0	-8.0	-6.5	-2.5	2.0	3.0	5.0	8.3	9.7	85.7	8.1	2.8
11	37.5	W	16:38	13.8	-30.5	-9.5	-8.5	-7.0	-2.5	1.5	3.0	5.0	8.7	9.8	89.2	9.7	2.1
12	25.8	NW	13:22	11.5	-22.5	-10.5	-9.0	-7.5	-3.0	1.5	3.0	5.0	9.1	9.8	92.8	9.5	2.6
13	15.1	WSW	11:57	5.2	-28.5	-10.5	-9.5	-8.0	-3.5	1.5	3.0	5.0	8.7	9.9	88.1	9.6	2.3
14	20.3	SSW	15:59	8.9	-27.5	-10.5	-9.5	-8.0	-3.5	1.0	3.0	5.0	8.7	9.9	87.5	9.4	2.2
15	40.4	SE	19:43	20.4	-25.0	-11.0	-10.0	-8.5	-4.0	1.0	2.5	5.0	9.7	10.0	97.0	10.9	2.0
16	32.7	ESE	3:32	14.0	-23.5	-11.0	-10.0	-8.5	-4.0	1.0	2.5	5.0	9.3	10.1	92.4	9.4	2.2
17	24.0	WNW	16:42	9.5	-18.5	-10.5	-9.5	-8.5	-4.0	1.0	2.5	5.0	9.7	10.1	95.8	10.1	1.8
18	18.3	SE	23:48	8.8	-22.5	-10.0	-9.5	-8.0	-4.5	0.5	2.5	5.0	9.6	10.2	94.1	11.1	1.9
19	36.1	W	17:25	17.7	-19.5	-10.0	-9.0	-8.0	-4.5	0.5	2.5	5.0	9.1	10.3	88.7	10.3	3.4
20	29.8	WSW	15:26	15.0	-11.5	-9.5	-9.0	-8.0	-4.5	0.5	2.0	5.0	10.0	10.3	96.8	10.5	1.7
21	47.4	W	23:06	19.4	-11.5	-8.5	-8.0	-7.5	-4.5	0.5	2.0	4.5	1.5	10.4	14.4	6.9	5.0
22	57.5	WNW	12:10	25.4	-1.5	-7.5	-7.5	-7.0	-4.0	0.0	2.0	4.5	9.1	10.5	87.0	10.5	1.7
23	28.7	NNW	23:48	8.4	-8.0	-6.5	-6.0	-6.0	-4.0	0.0	2.0	4.5	8.3	10.5	78.8	10.4	3.3
24	32.3	N	1:11	14.1	-9.5	-6.0	-5.5	-5.5	-3.5	0.0	2.0	4.5	4.8	10.6	45.3	8.9	4.4
25	41.5	SW	14:23	16.8	-10.0	-5.5	-5.0	-5.0	-3.5	0.0	2.0	4.5	0.2	10.7	1.9	6.4	5.1
26	39.2	NNE	11:27	16.9	-8.5	-5.5	-5.0	-5.0	-3.0	0.0	2.0	4.5	1.0	10.7	9.3	6.6	5.0
27	29.4	W	22:25	11.9	-20.0	-5.0	-4.5	-4.5	-3.0	0.0	1.5	4.5	1.3	10.8	12.0	7.9	5.7
28	31.2	SE	21:59	11.3	-16.5	-5.5	-5.0	-4.5	-3.0	0.0	1.5	4.5	4.1	10.9	37.8	8.5	5.8
Total													191.5	279.5	68.5	240.9	82.7
Mean				14.7	-18.2	-7.6	-6.9	-6.0	-2.8	1.1	2.7	5.0	1991-2020 Normal				
Extreme	57.5	WNW	12:10		1971-2000 Normal for Soil Temperatures								139.6	281.6	49.6	209.1	100.9
Date	22				-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4	No. of Bright Sunshine days = 28					

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

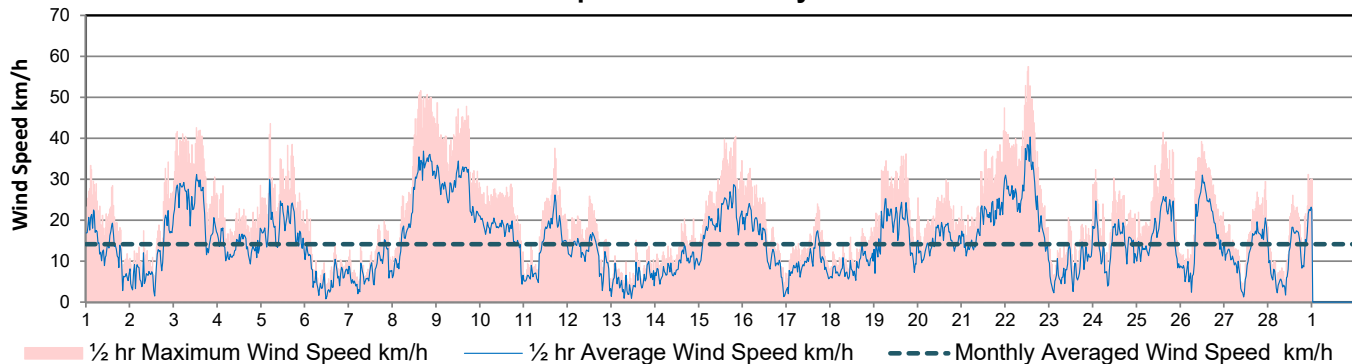
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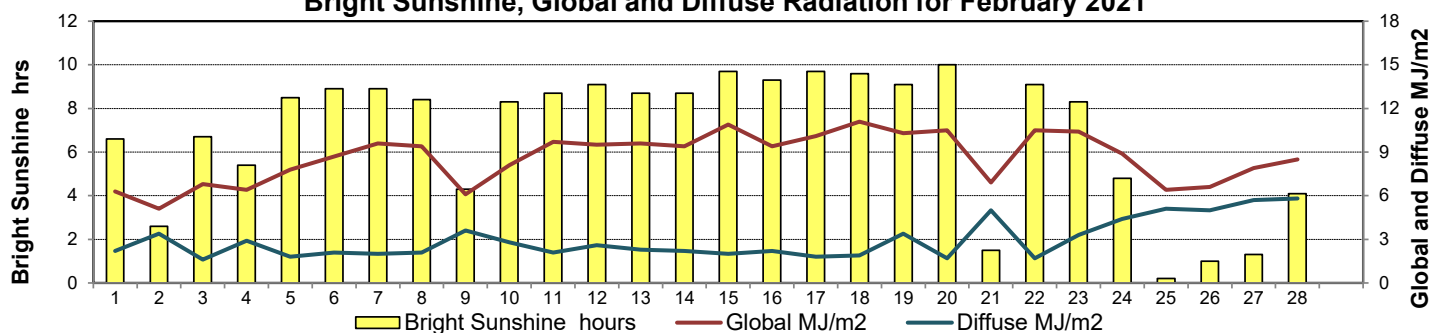
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



Wind Speed for February 2021

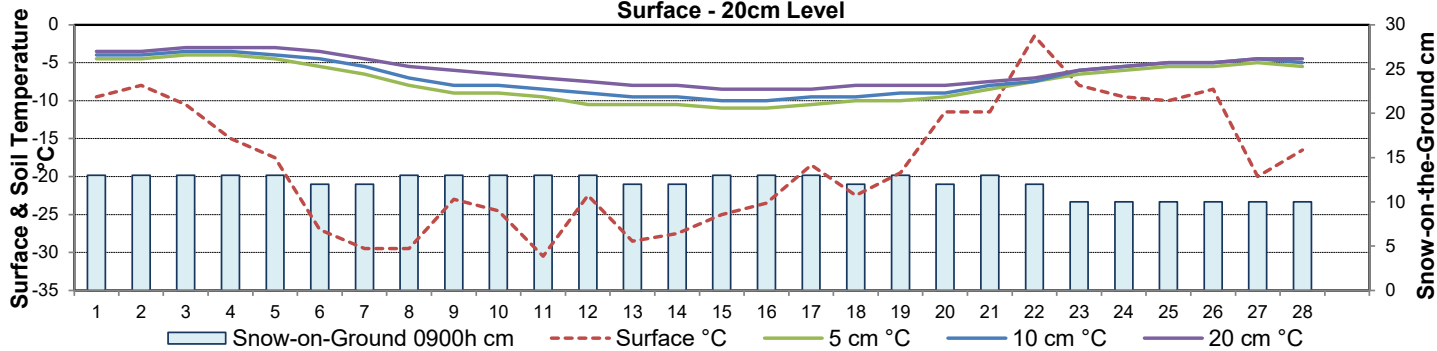


Bright Sunshine, Global and Diffuse Radiation for February 2021



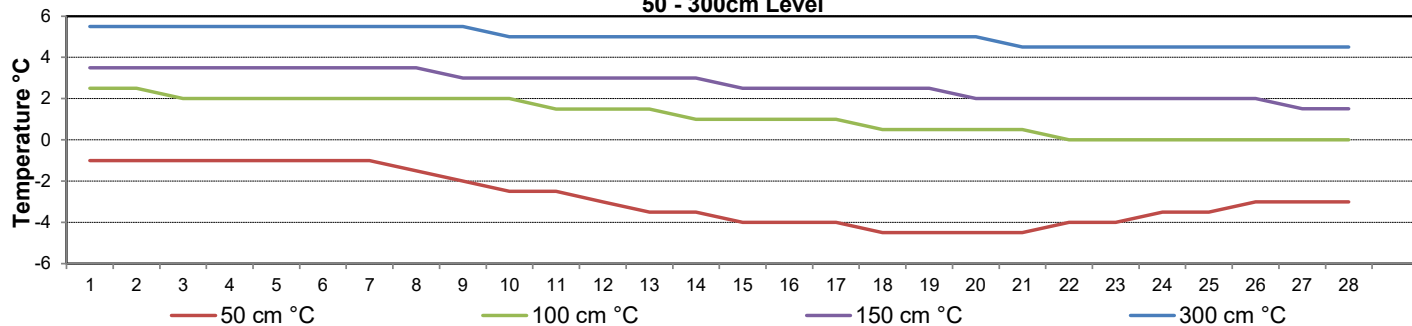
Soil Temperatures for February 2021

Surface - 20cm Level



Soil Temperatures for February 2021

50 - 300cm Level





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Extreme Records for February

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
12.8	19/1931	SE	9.0 16/2017	43.7	1924	SE	40.2 1979	106 ^N	22/1988	82.3 ^{NNW}	10/2004	190.8	2018	28	1978&84
-50.0	01/1893	SM	-41.1 06/1972	0.0	multiply sites		1.9 2012					57.6	1983	17	1983&98

**1975 forward * more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations		Glossary		
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Code	Description	
Temperature	Lowest Maximum Daily	10	-26.7	-24.2	2008	SM	NWMP c. 1892-1901	T	Trace of precipitation	
		11	-28.9	-23.9	1979	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
	Highest Maximum Daily	22	5.5	5.0	1981	US	Univ. of Sask. 1915-1964	SOG	Depth of snow-on-the-ground in cm	
		11	-36.4	-35.5	1981	S	Saskatoon 1941-1942	na	not available	
	Lowest Minimum Daily	11	-36.4	-35.5	1981	SA	Saskatoon A 1942 -	Degree-days		
		22	-2.3	-3.5	1984	NRC	Nat. Res. Council 1952-1966	Tm	Mean Temperature	
	Highest Minimum Daily	10	-29.9	-29.8	1988	SRC	Sask. Res. Council 1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
		11	-32.7	-28.8	1981	SWT	S'toon Water Treatment Plant 1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0	
Precipitation	Lowest Monthly Total	10	-29.9	-29.8	1988	SC	S'toon Central Ave 1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0	
		11	-32.7	-28.8	1981	S1	Saskatoon 1 1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0	
		22	1.6	0.5	1981	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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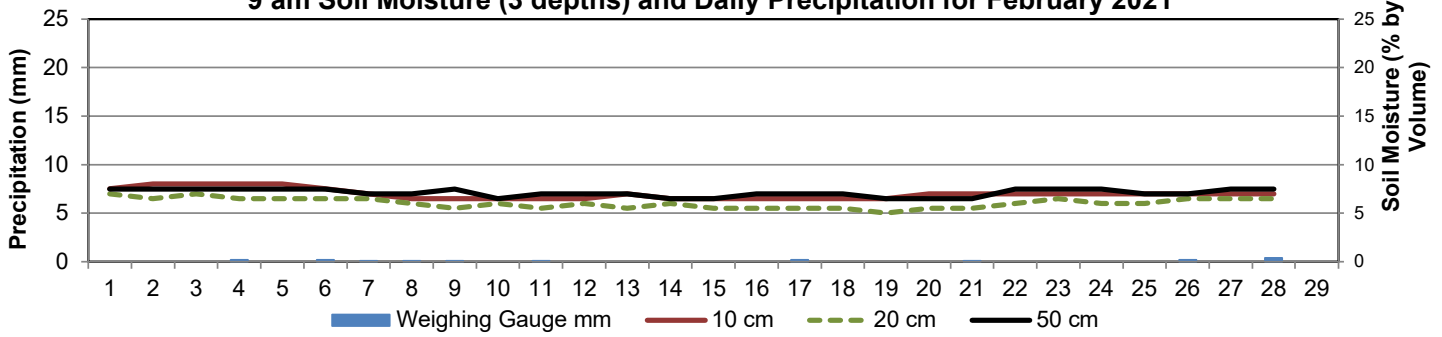
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))														
1	10.0	18.8	27.5	7.5	7.0	7.5												
2	8.0	18.2	29.8	8.0	6.5	7.5												
3	19.0	25.2	37.3	8.0	7.0	7.5												
4	12.0	15.2	25.2	8.0	6.5	7.5												
5	15.0	23.5	36.8	8.0	6.5	7.5												
6	5.0	11.7	17.2	7.5	6.5	7.5												
7	6.0	12.9	17.7	7.0	6.5	7.0												
8	20.0	29.3	43.7	6.5	6.0	7.0												
9	23.0	28.1	41.9	6.5	5.5	7.5												
10	14.0	17.2	25.2	6.5	6.0	6.5												
11	12.0	20.7	31.0	6.5	5.5	7.0												
12	9.0	14.1	22.9	6.5	6.0	7.0												
13	4.0	9.2	16.0	7.0	5.5	7.0												
14	7.0	11.8	18.3	6.5	6.0	6.5												
15	17.0	24.9	35.6	6.5	5.5	6.5												
16	11.0	19.9	31.6	6.5	5.5	7.0												
17	8.0	14.6	20.0	6.5	5.5	7.0												
18	7.0	12.3	17.2	6.5	5.5	7.0												
19	12.0	21.2	33.3	6.5	5.0	6.5												
20	13.0	17.5	28.1	7.0	5.5	6.5												
21	16.0	25.9	41.4	7.0	5.5	6.5												
22	21.0	32.8	47.1	7.0	6.0	7.5												
23	7.0	15.0	24.7	7.0	6.5	7.5												
24	12.0	19.4	29.3	7.0	6.0	7.5												
25	13.0	22.3	35.6	7.0	6.0	7.0												
26	14.0	23.8	31.6	7.0	6.5	7.0												
27	11.0	17.8	24.7	7.0	6.5	7.5												
28	10.0	19.9	29.3	7.0	6.5	7.5												
29																		
30																		
31																		
Total																		
Mean				7	6	7.1												
Extreme	23.0	32.8	47.1	8	7	7.5												
Date	9	22	22	2	1	1												

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

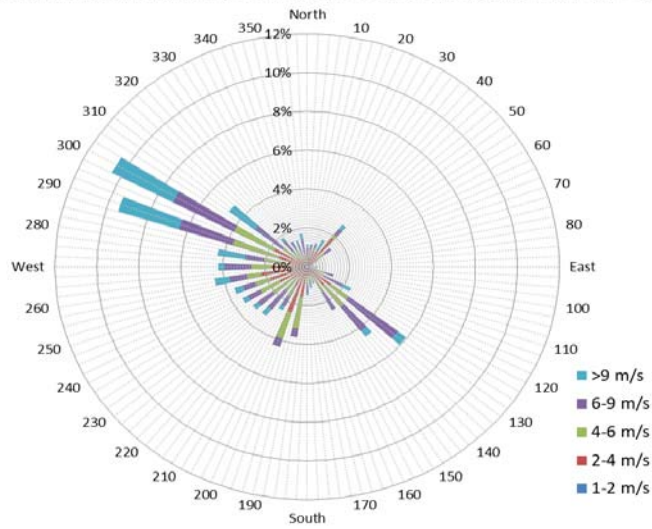
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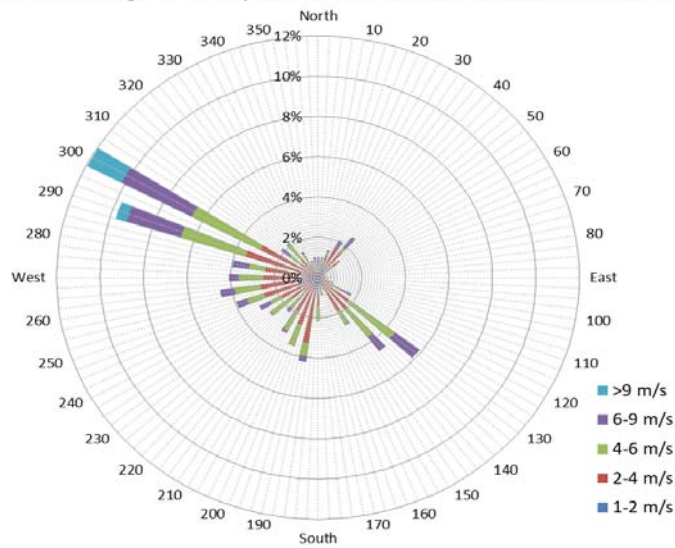
9 am Soil Moisture (3 depths) and Daily Precipitation for February 2021



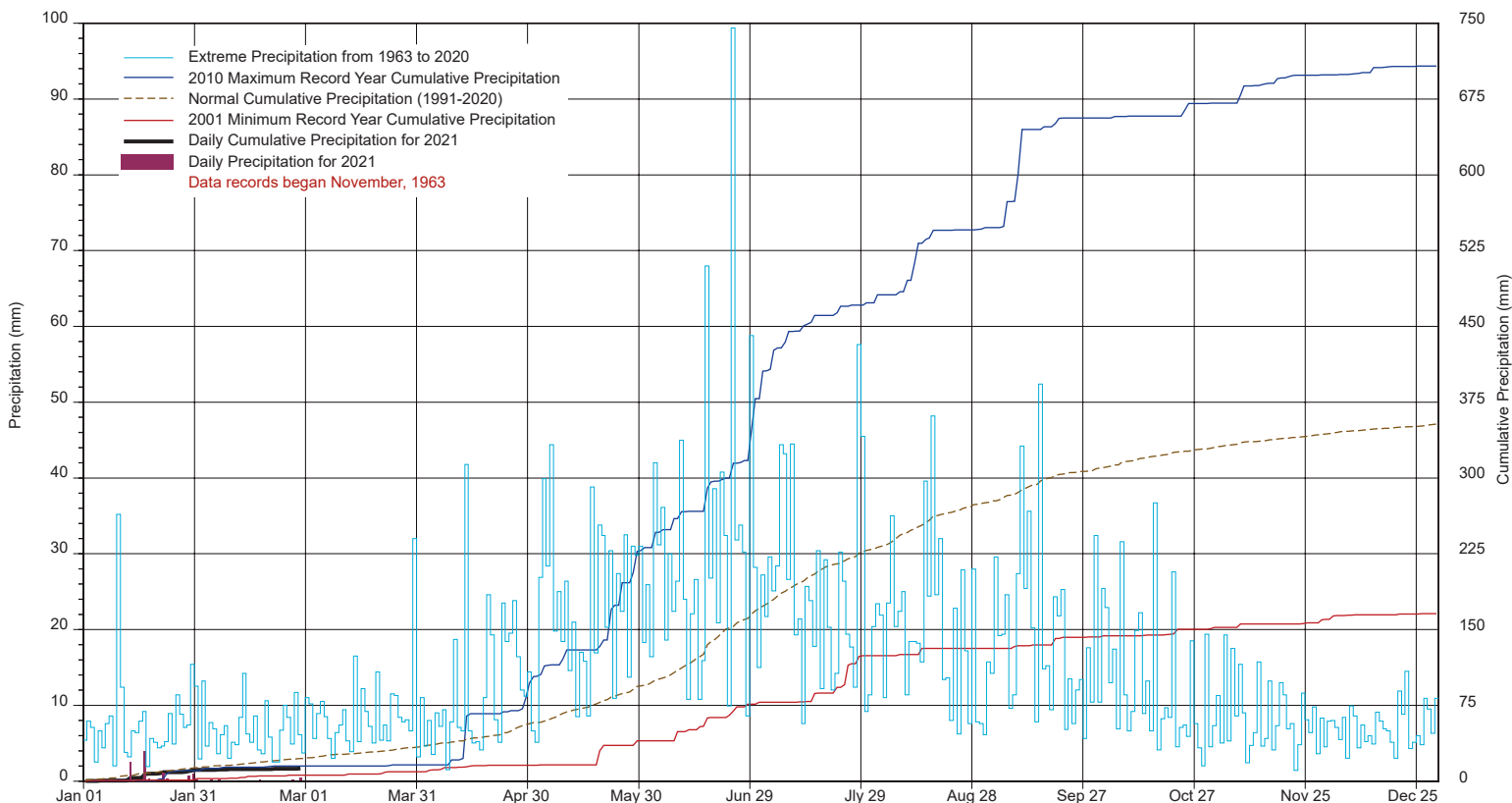
1/2 hr Maximum Wind Speed and Direction Saskatoon Feb 2021



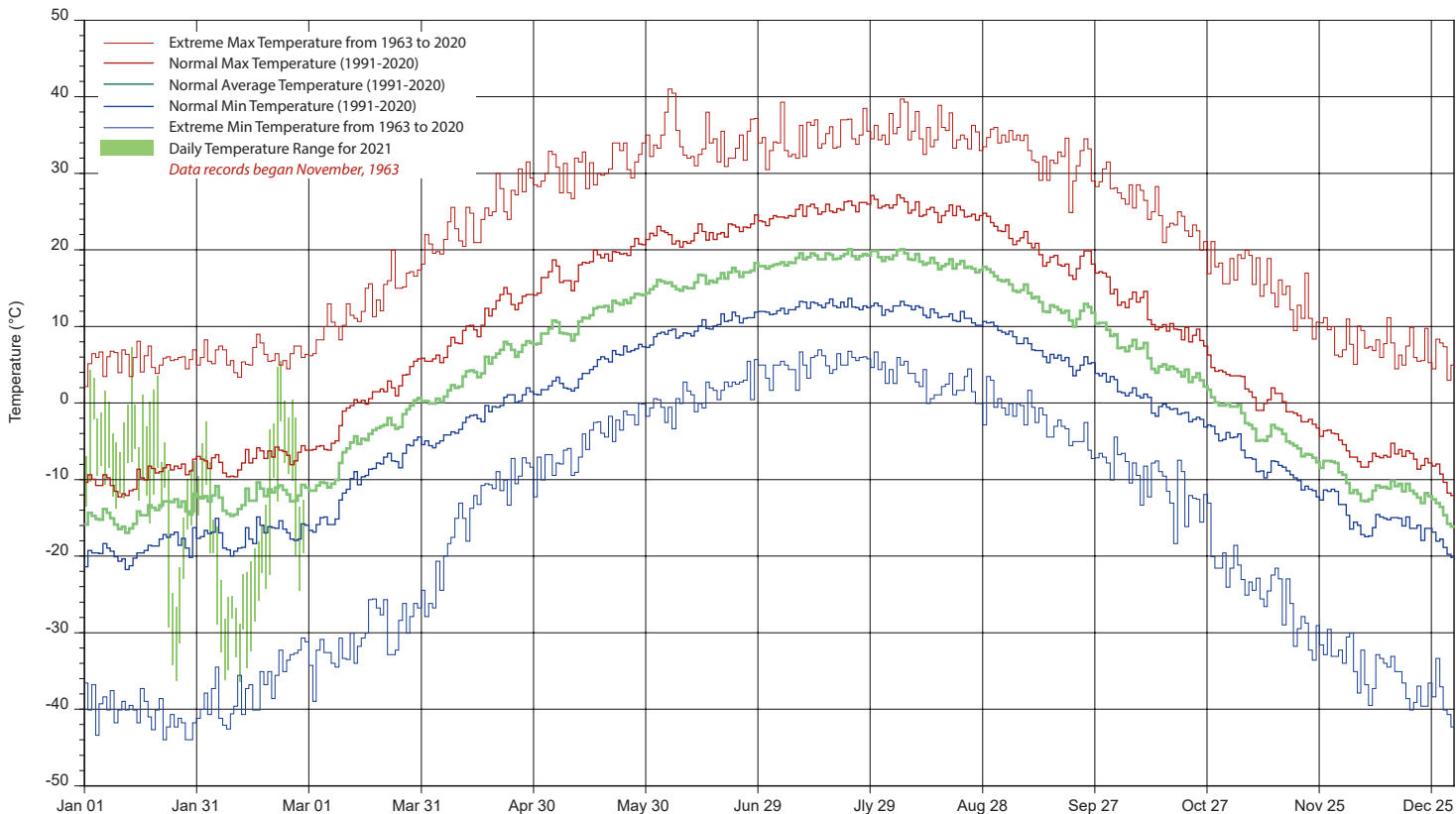
10 minute Average Wind Speed and Direction Saskatoon Feb 2021



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2021 PRECIPITATION AND NORMALS



2021 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

