



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary JANUARY 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	-24.7	-10.3	-34.5	-21.3	-29.6	-15.8	0.0	47.6	0.0	0.1		8	71	65	1018	1008
2	-10.6	-9.3	-24.7	-19.2	-17.7	-14.3	0.0	35.7	0.0	0.0		8	80	68	1016	1003
3	-18.4	-9.9	-20.6	-19.5	-19.5	-14.7	0.0	37.5	0.0	2.9	snow	8	80	70	1019	1011
4	-20.5	-10.7	-26.7	-19.5	-23.6	-15.1	0.0	41.6	0.0	2.3	snow	17	79	72	1028	1011
5	-26.6	-10.7	-34.1	-19.6	-30.4	-15.2	0.0	48.4	0.0	0.0		13	72	64	1032	1028
6	-29.2	-9.3	-36.7	-18.3	-33.0	-13.8	0.0	51.0	0.0	0.0		13	68	63	1031	1011
7	-19.6	-9.7	-33.8	-18.9	-26.7	-14.3	0.0	44.7	0.0	1.1	snow	21	77	65	1011	991
8	-22.0	-10.7	-28.5	-19.3	-25.3	-15.0	0.0	43.3	0.0	0.0		15	73	62	1025	996
9	-21.3	-11.5	-29.4	-20.0	-25.4	-15.8	0.0	43.4	0.0	0.0		10	70	54	1032	1025
10	-12.6	-12.2	-21.6	-20.6	-17.1	-16.4	0.0	35.1	0.0	0.0		10	79	60	1030	1008
11	0.6	-11.8	-14.1	-20.3	-6.8	-16.1	0.0	24.8	0.0	0.4	light snow	10	94	62	1010	1006
12	1.9	-12.0	-7.3	-21.7	-2.7	-16.9	0.0	20.7	0.0	0.0		10	94	69	1015	1008
13	-3.9	-11.4	-10.1	-21.2	-7.0	-16.3	0.0	25.0	0.0	3.1	snow	10	94	89	1020	1013
14	-4.4	-11.2	-9.9	-20.2	-7.2	-15.7	0.0	25.2	0.0	0.0		12	94	89	1031	1020
15	2.5	-8.6	-5.6	-19.5	-1.6	-14.1	0.0	19.6	0.0	0.0		13	93	69	1020	1007
16	0.5	-9.7	-5.5	-19.5	-2.5	-14.6	0.0	20.5	0.0	0.0		13	83	69	1013	1007
17	-4.3	-10.0	-13.0	-19.2	-8.7	-14.6	0.0	26.7	0.0	1.0	snow	13	90	69	1013	997
18	-12.8	-8.2	-27.4	-18.5	-20.1	-13.3	0.0	38.1	0.0	0.1	snow	10	85	60	1031	1002
19	-23.5	-8.5	-30.8	-18.6	-27.2	-13.6	0.0	45.2	0.0	0.0		10	74	61	1036	1028
20	-2.6	-9.1	-28.7	-18.6	-15.7	-13.9	0.0	33.7	0.0	1.4	rain/snow	10	92	68	1028	999
21	0.4	-8.9	-19.0	-17.7	-9.3	-13.3	0.0	27.3	0.0	0.1	snow	11	91	61	1023	1000
22	-13.1	-8.4	-17.3	-17.1	-15.2	-12.8	0.0	33.2	0.0	2.2	snow	13	85	68	1021	1013
23	2.7	-8.0	-13.4	-17.5	-5.4	-12.8	0.0	23.4	0.0	0.5	snow/freezing rain	15	88	69	1016	1004
24	-13.3	-8.7	-24.4	-17.1	-18.9	-12.9	0.0	36.9	0.0	0.0		14	85	75	1027	1016
25	-1.2	-8.2	-28.6	-16.8	-14.9	-12.5	0.0	32.9	0.0	0.4	freezing rain	14	81	71	1028	1000
26	2.2	-8.5	-5.2	-18.5	-1.5	-13.5	0.0	19.5	0.0	0.3	light snow	13	88	66	1020	997
27	-5.1	-7.9	-13.4	-17.6	-9.3	-12.8	0.0	27.3	0.0	0.0		13	90	70	1029	1020
28	-6.5	-9.3	-17.8	-18.9	-12.2	-14.1	0.0	30.2	0.0	0.0		13	90	72	1020	1009
29	-2.9	-8.8	-11.8	-20.1	-7.4	-14.5	0.0	25.4	0.0	0.0		13	87	68	1017	1011
30	-1.0	-7.3	-11.2	-16.2	-6.1	-11.8	0.0	24.1	0.0	0.0		13	90	65	1010	1002
31	-3.4	-6.9	-19.3	-17.6	-11.4	-12.2	0.0	29.4	0.0	1.3	blizzard	13	91	74	1016	990
Total							0.0	1017.4	0.0	17.2			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-9.4	-9.5	-20.1	-19.0	-14.8	-14.3	1991-2020 Normal			13.2	1991-2020 Normal					
Extreme Date	2.7		-36.7				0.0	1000.6	0.0	17.2	Cumulative		94	54	1036	990
	23		6							13.2	Cumulative Normal		11	9	19	31

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

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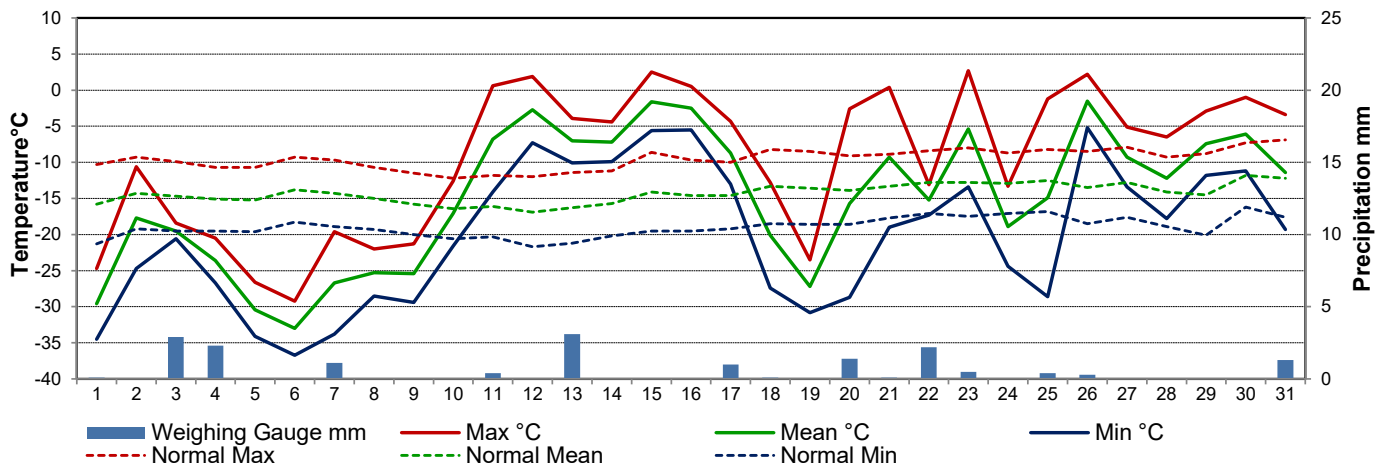


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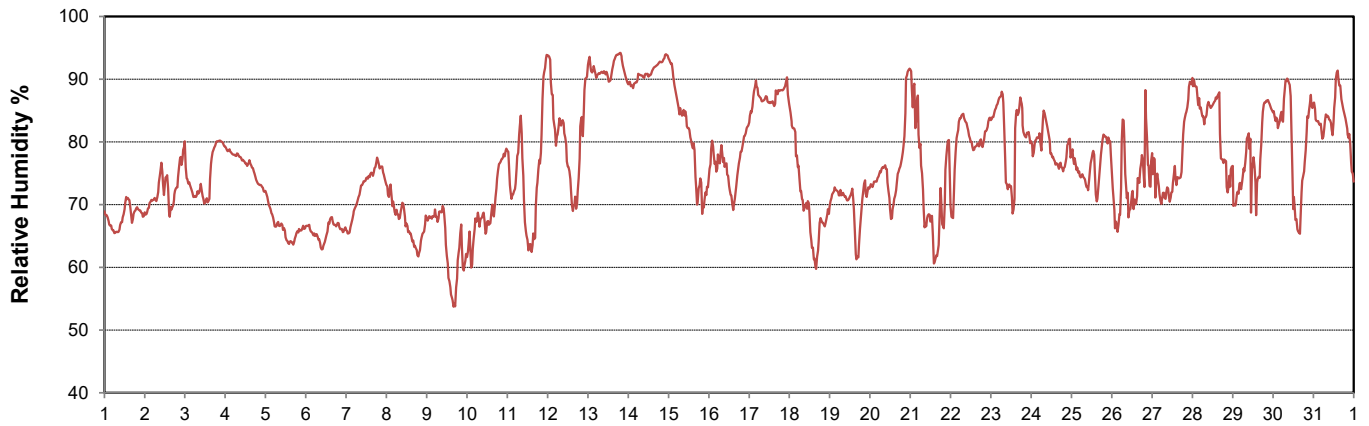
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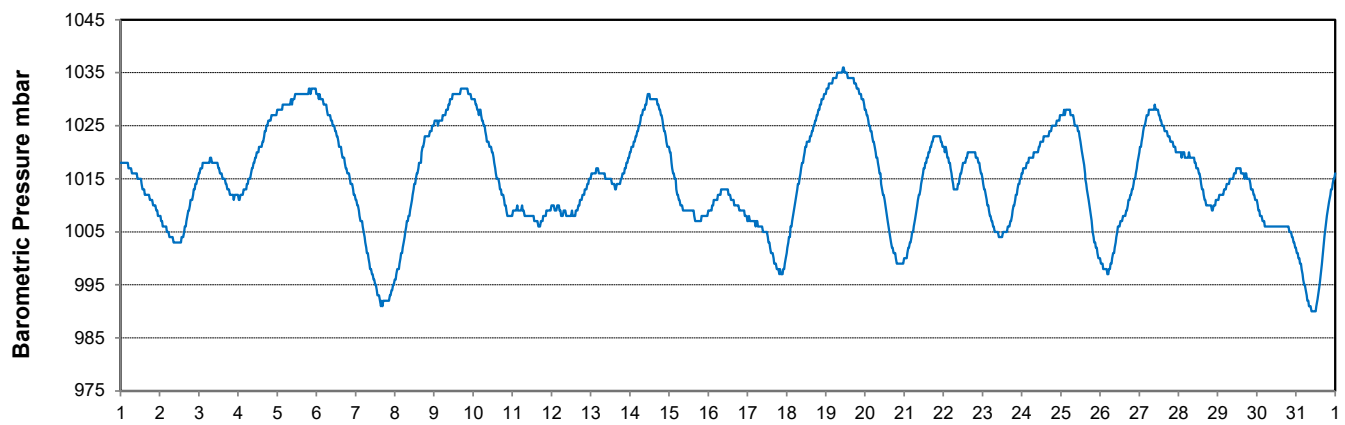
Temperature and Precipitation for January 2022



Relative Humidity for January 2022



Barometric Pressure Corrected to Sea Level for January 2022





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SASKATOON STATION 4057180

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

Preliminary JANUARY 2022

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	25.0	SE	22:40	10.7	-34.5	-11.5	-10.5	-9.0	-3.5	2.0	4.0	7.0	7.3	7.8	93.2	4.9	1.4
2	29.0	NNE	21:30	11.9	-17.5	-11.0	-10.0	-9.0	-4.0	1.5	4.0	7.0	4.1	7.9	52.2	3.5	2.2
3	39.3	E	17:54	20.6	-19.5	-9.5	-9.0	-8.0	-4.0	1.5	3.5	6.5	0.0	7.9	0.0	1.7	1.7
4	44.5	ENE	4:10	23.9	-22.0	-9.0	-8.5	-7.5	-4.0	1.5	3.5	6.5	0.2	7.9	2.5	2.6	2.7
5	28.1	WNW	14:31	12.1	-34.0	-8.5	-8.0	-7.0	-4.0	1.5	3.5	6.5	6.3	7.9	79.4	4.4	1.4
6	24.1	SE	19:21	9.3	-35.0	-8.5	-7.5	-7.0	-3.5	1.0	3.5	6.5	3.9	8.0	49.1	2.7	2.0
7	44.8	SE	9:16	19.5	-24.5	-8.5	-7.5	-7.0	-3.5	1.0	3.5	6.5	0.0	8.0	0.0	1.9	2.0
8	48.2	WNW	11:41	21.7	-24.5	-8.0	-7.5	-6.5	-3.5	1.0	3.0	6.5	6.5	8.0	81.1	4.3	1.4
9	18.3	W	0:15	6.8	-28.5	-7.5	-7.0	-6.5	-3.5	1.0	3.0	6.0	5.4	8.1	67.1	4.1	2.0
10	26.5	SE	6:18	11.7	-18.0	-8.0	-7.0	-6.5	-3.5	1.0	3.0	6.0	5.0	8.1	61.9	4.4	3.1
11	31.2	WSW	9:45	10.9	-4.5	-7.5	-7.0	-6.0	-3.0	1.0	3.0	6.0	3.6	8.1	44.3	3.2	2.6
12	21.9	SW	15:49	10.5	-6.5	-6.5	-6.0	-6.0	-3.0	1.0	3.0	6.0	0.7	8.2	8.6	2.7	2.6
13	22.0	NNE	22:08	9.8	-8.5	-6.0	-5.5	-5.0	-3.0	1.0	3.0	6.0	0.0	8.2	0.0	1.3	1.3
14	45.1	SSW	22:09	12.8	-9.0	-5.5	-5.0	-5.0	-3.0	1.0	3.0	6.0	0.0	8.2	0.0	2.2	2.2
15	37.3	S	2:39	16.4	-5.0	-5.0	-4.5	-4.5	-2.5	1.0	3.0	6.0	1.0	8.3	12.1	2.6	2.5
16	31.5	WNW	11:41	14.1	-3.5	-4.5	-4.5	-4.0	-2.5	1.0	3.0	5.5	7.1	8.3	85.4	4.5	1.7
17	44.9	N	23:29	16.5	-7.0	-4.0	-4.0	-3.5	-2.0	1.0	3.0	5.5	0.4	8.4	4.8	2.7	2.7
18	57.8	N	3:49	25.6	-18.0	-4.0	-3.5	-3.5	-2.0	1.0	2.5	5.5	5.5	8.4	65.5	4.3	1.7
19	21.8	SSW	21:08	9.4	-30.0	-4.0	-4.0	-3.5	-1.5	1.0	2.5	5.5	8.1	8.5	95.9	6.6	1.5
20	37.1	S	13:06	13.8	-22.5	-5.0	-4.5	-3.5	-1.5	1.0	2.5	5.5	2.6	8.5	30.6	4.1	3.3
21	57.4	NW	8:11	21.7	-6.0	-5.5	-5.0	-4.0	-1.5	1.0	2.5	5.5	4.8	8.5	56.2	4.3	2.0
22	27.7	S	23:54	11.3	-13.5	-5.0	-4.5	-4.0	-2.0	1.0	2.5	5.5	0.0	8.6	0.0	3.1	3.2
23	36.4	N	13:55	18.5	-4.0	-5.0	-4.5	-4.0	-2.0	1.0	2.5	5.5	0.2	8.6	2.3	2.2	2.1
24	22.0	NE	0:06	6.9	-16.0	-4.5	-4.0	-4.0	-1.5	1.0	2.5	5.5	5.8	8.7	66.7	6.5	2.1
25	42.3	WSW	21:10	13.3	-26.5	-4.5	-4.0	-4.0	-1.5	1.0	2.5	5.0	5.7	8.7	65.2	5.5	2.9
26	62.6	NW	6:01	27.4	-1.0	-5.0	-4.5	-4.0	-1.5	1.0	2.5	5.0	0.3	8.8	3.4	2.5	2.5
27	39.6	NNE	0:07	11.9	-11.0	-4.5	-4.0	-3.5	-1.5	1.0	2.5	5.0	3.5	8.9	39.5	4.5	3.8
28	21.7	WSW	20:01	7.5	-15.5	-4.0	-3.5	-3.5	-1.5	1.0	2.5	5.0	1.9	8.9	21.3	4.2	3.9
29	25.5	SE	19:24	9.9	-9.0	-4.0	-3.5	-3.5	-1.5	1.0	2.5	5.0	7.3	9.0	81.5	5.8	1.8
30	25.3	SE	0:34	9.1	-12.0	-4.0	-3.5	-3.5	-1.5	1.0	2.5	5.0	7.9	9.0	87.6	6.5	2.0
31	74.9	N	16:24	29.1	-5.5	-4.0	-3.5	-3.0	-1.5	1.0	2.5	5.0	0.3	9.1	3.3	2.6	2.6
Total													105.4	259.3	40.7	116.4	70.9
Mean				14.7	-15.9	-6.2	-5.7	-5.1	-2.5	1.1	2.9	5.8	1991-2020 Normal				
Extreme	74.9	N	16:24		1971- 2000 Normal for Soil Temperatures								105.3	259.1	40.6	121.8	65.6
Date	31				-8.4	-8.0	-7.1	-3.5	-0.1	1.7	4.6	No. of Bright Sunshine days = 26					

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

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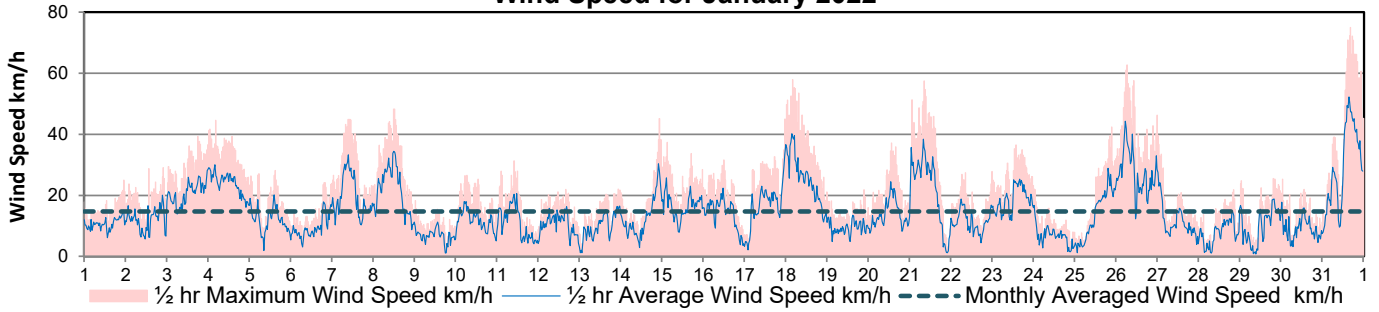


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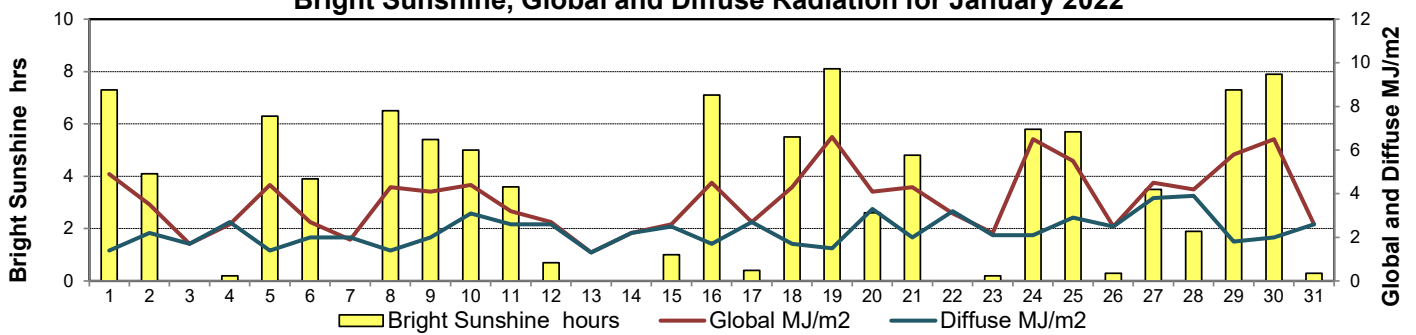
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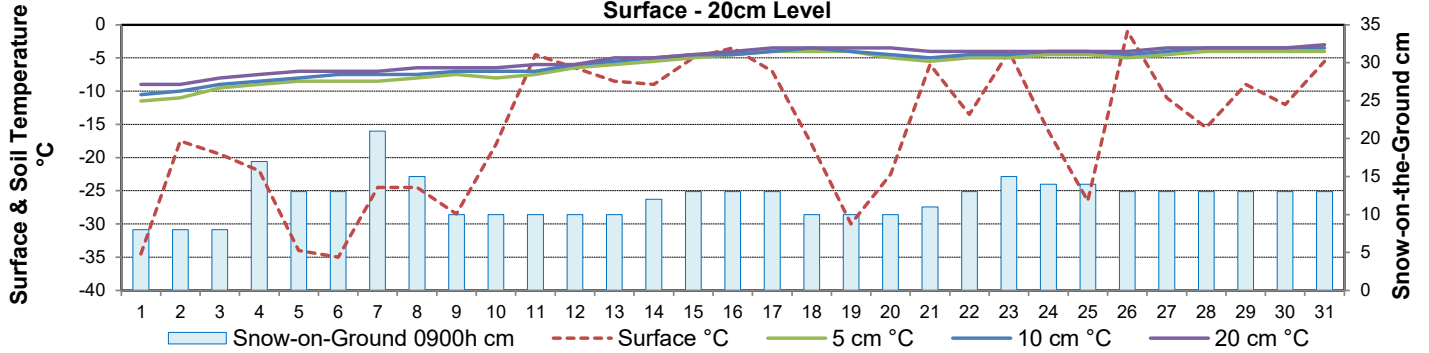
Wind Speed for January 2022



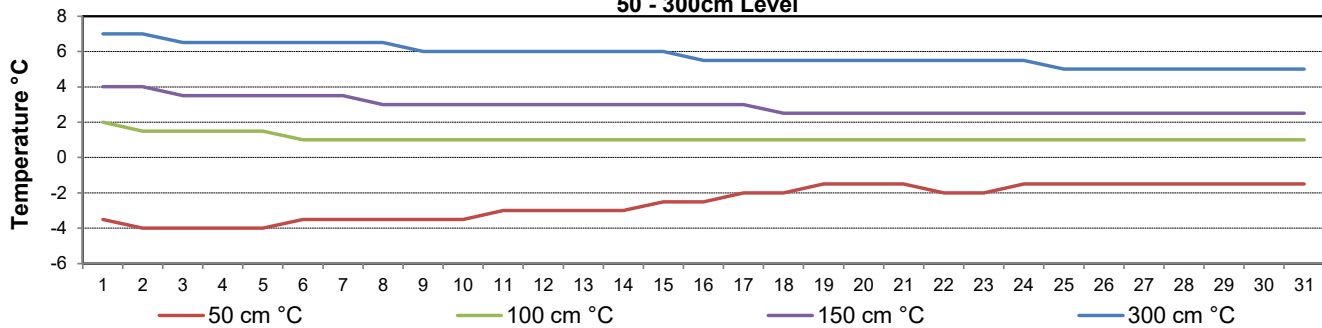
Bright Sunshine, Global and Diffuse Radiation for January 2022



**Soil Temperatures for January 2022
Surface - 20cm Level**



**Soil Temperatures for January 2022
50 - 300cm Level**





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Preliminary JANUARY 2022

Extreme Records for January

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
11.0	23/1980	SWT	8.1	15/2014	66.1	1911	SE	48.6	1969	111	11 ^W 1986	109	1986	146.9	1979	30	1993
-48.9	31/1893	SM	-43.9	*29/1969	0.0	2001, '89-'12	SWT SC SE	2.6	2001					45.5	2004	15	1995

**1975 forward * more than one year

Notable Events for CRS Saskatoon - January						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	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		

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Preliminary January 2022

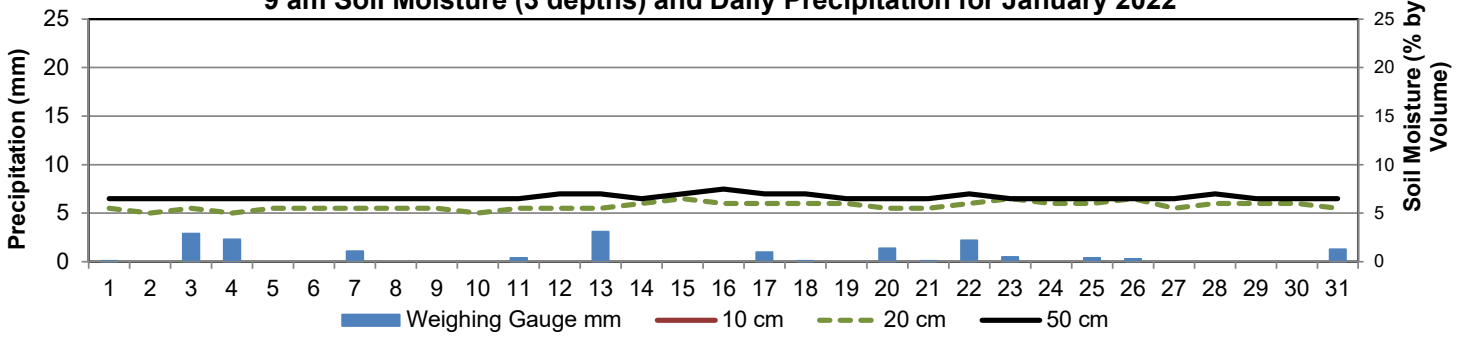
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))														
1	8.0	10.7	17.7		5.5	6.5	The 10 cm soil moisture depth is being very volatile											
2	9.0	16.3	25.2		5.0	6.5												
3	17.0	23.4	35.6		5.5	6.5												
4	20.0	25.2	40.8		5.0	6.5												
5	10.0	17.0	24.7		5.5	6.5												
6	8.0	13.6	21.2		5.5	6.5												
7	16.0	27.7	41.4		5.5	6.5												
8	18.0	28.2	41.9		5.5	6.5												
9	6.0	9.9	13.7		5.5	6.5												
10	9.0	14.2	25.2		5.0	6.5												
11	9.0	17.5	27.5		5.5	6.5												
12	8.0	13.9	20.0		5.5	7.0												
13	8.0	13.4	18.9		5.5	7.0												
14	11.0	24.1	37.3		6.0	6.5												
15	13.0	19.1	28.7		6.5	7.0												
16	12.0	17.7	24.1		6.0	7.5												
17	13.0	26.6	36.8		6.0	7.0												
18	21.0	32.8	50.0		6.0	7.0												
19	7.0	11.6	16.6		6.0	6.5												
20	9.0	15.4	27.0		5.5	6.5												
21	17.0	31.5	50.0		5.5	6.5												
22	9.0	14.8	25.2		6.0	7.0												
23	15.0	20.7	32.1		6.5	6.5												
24	6.0	14.3	20.0		6.0	6.5												
25	9.0	24.2	37.3		6.0	6.5												
26	23.0	35.5	54.0		6.5	6.5												
27	9.0	23.0	31.6		5.5	6.5												
28	5.0	12.4	20.6		6.0	7.0												
29	8.0	13.6	24.1		6.0	6.5												
30	7.0	12.8	21.8		6.0	6.5												
31	24.0	0.0	59.0		5.5	6.5												
Total																		
Mean				#DIV/0!	6	6.6												
Extreme	24.0	35.5	59.0	0	6.5	7.5												
Date	31	26	31	#N/A	15	16												

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

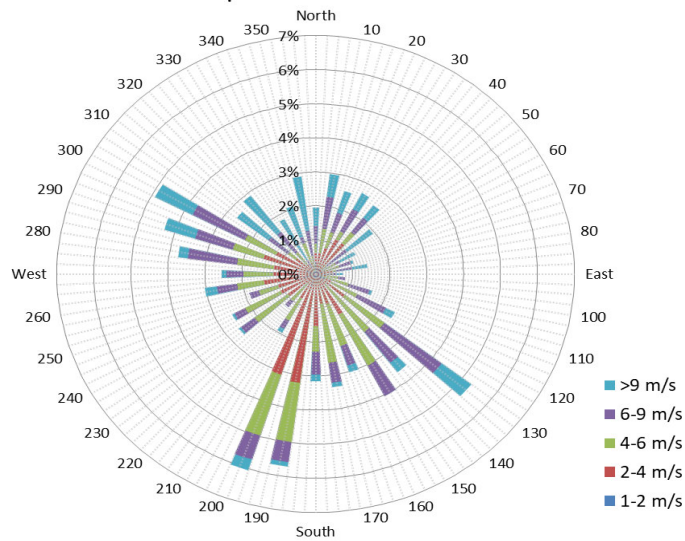
SRC proudly recognizes the following CRS supporters:



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



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



10 minute Average Wind Speed and Direction Saskatoon Jan 2022

