



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary NOVEMBER 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	6.7	3.8	-1.2	-3.8	2.8	0.0	0.0	15.2	0.0	2.3	rain	0	91	45	1006	1003
2	1.3	3.6	-2.8	-4.5	-0.8	-0.4	0.0	18.8	0.0	0.2	rain/snow	0	96	91	1007	1002
3	-2.6	3.6	-7.6	-4.4	-5.1	-0.4	0.0	23.1	0.0	0.5	snow	1	93	81	1015	1007
4	1.6	3.6	-9.0	-4.0	-3.7	-0.2	0.0	21.7	0.0	0.2	rain/snow	1	93	61	1009	992
5	0.8	3.5	-5.0	-6.1	-2.1	-1.3	0.0	20.1	0.0	4.4	rain/snow	2	96	71	997	980
6	-4.9	1.9	-15.3	-7.1	-10.1	-2.6	0.0	28.1	0.0	0.0		2	85	69	1028	998
7	-8.1	1.5	-19.6	-7.1	-13.9	-2.8	0.0	31.9	0.0	2.7	snow	1	88	77	1031	1022
8	-6.1	0.8	-19.4	-7.3	-12.8	-3.3	0.0	30.8	0.0	0.0		7	92	75	1025	1020
9	-10.6	-0.9	-22.7	-8.9	-16.7	-4.9	0.0	34.7	0.0	0.0		6	85	61	1028	1023
10	-15.5	-0.9	-23.6	-8.8	-19.6	-4.8	0.0	37.6	0.0	0.3	snow	6	85	77	1029	1025
11	-11.8	0.0	-20.5	-9.7	-16.2	-4.9	0.0	34.2	0.0	0.0		6	83	69	1025	1022
12	-11.3	0.5	-20.9	-9.0	-16.1	-4.3	0.0	34.1	0.0	0.7	snow	6	86	74	1022	1019
13	-6.7	2.0	-12.5	-7.5	-9.6	-2.8	0.0	27.6	0.0	0.0		6	90	80	1021	1018
14	-6.4	1.3	-8.0	-7.6	-7.2	-3.2	0.0	25.2	0.0	1.2	snow	6	91	85	1027	1019
15	-4.0	1.3	-8.2	-8.1	-6.1	-3.4	0.0	24.1	0.0	0.0		8	93	85	1028	1025
16	-2.7	0.2	-9.9	-8.3	-6.3	-4.0	0.0	24.3	0.0	0.1	snow	8	89	66	1030	1025
17	-9.9	-1.1	-13.9	-8.8	-11.9	-5.0	0.0	29.9	0.0	0.0		2	80	63	1036	1025
18	-5.6	-1.1	-13.8	-9.3	-9.7	-5.2	0.0	27.7	0.0	0.0		2	79	51	1025	1015
19	-4.4	-1.3	-10.9	-9.7	-7.7	-5.5	0.0	25.7	0.0	0.0		2	82	50	1023	1009
20	1.9	-1.6	-11.9	-10.1	-5.0	-5.9	0.0	23.0	0.0	0.0		2	80	49	1017	1010
21	0.9	-2.4	-11.8	-11.3	-5.5	-6.9	0.0	23.5	0.0	1.4	snow	2	92	75	1019	1011
22	2.0	-2.4	-6.3	-10.8	-2.2	-6.6	0.0	20.2	0.0	0.0		3	87	70	1011	1001
23	1.5	-2.1	-5.6	-11.2	-2.1	-6.7	0.0	20.1	0.0	0.0		2	88	72	1018	1001
24	2.6	-2.7	-6.9	-11.4	-2.2	-7.1	0.0	20.2	0.0	0.0		3	85	65	1019	1010
25	6.0	-3.2	-0.1	-12.2	3.0	-7.7	0.0	15.0	0.0	0.0		3	80	57	1010	1001
26	2.5	-4.3	-4.9	-12.6	-1.2	-8.4	0.0	19.2	0.0	0.0		1	88	60	1012	1005
27	1.0	-3.6	-5.0	-11.3	-2.0	-7.5	0.0	20.0	0.0	0.4	snow	1	92	75	1005	992
28	-4.5	-3.5	-8.7	-11.5	-6.6	-7.5	0.0	24.6	0.0	1.5	snow	4	90	79	1006	993
29	-8.6	-3.9	-14.1	-11.2	-11.4	-7.6	0.0	29.4	0.0	0.9	snow	4	85	77	1020	1006
30	-13.1	-4.0	-20.7	-11.5	-16.9	-7.8	0.0	34.9	0.0	1.1	snow	4	84	74	1022	1010
Total							0.0	764.9	0.0	17.9			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-3.6	-0.4	-11.4	-8.8	-7.5	-4.6	1991-2020 Normal			13.8	1991-2020 Normal					
Extreme Date	6.7		-23.6				3.9	678.7	0.0	253.2	Year to date 2022 Cumulative		96	45	1036	980
	1		10							342.4	Year to date Cumulative Normal		2	1	17	5

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

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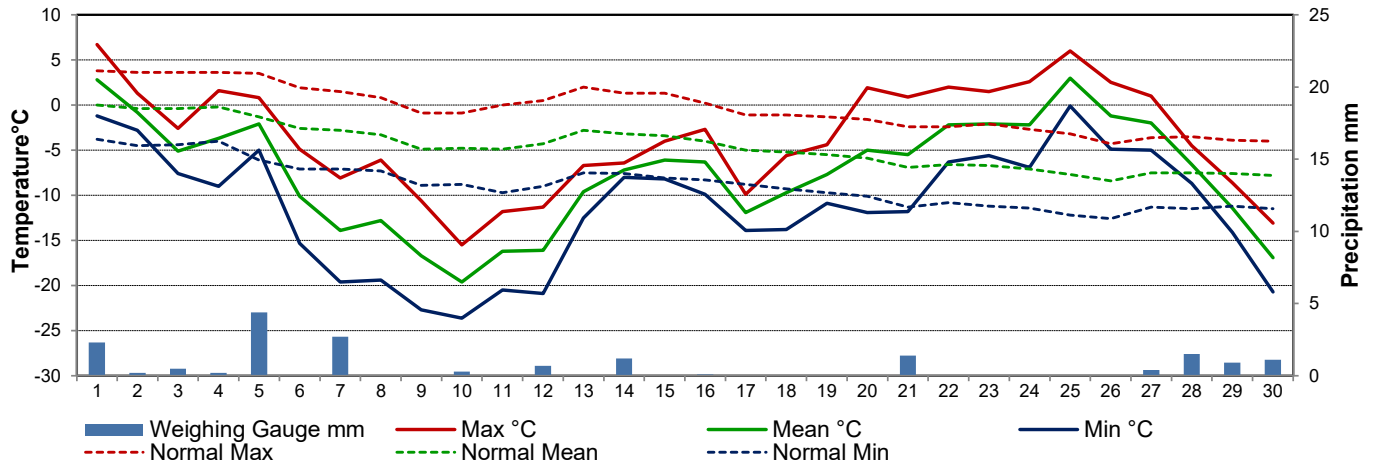


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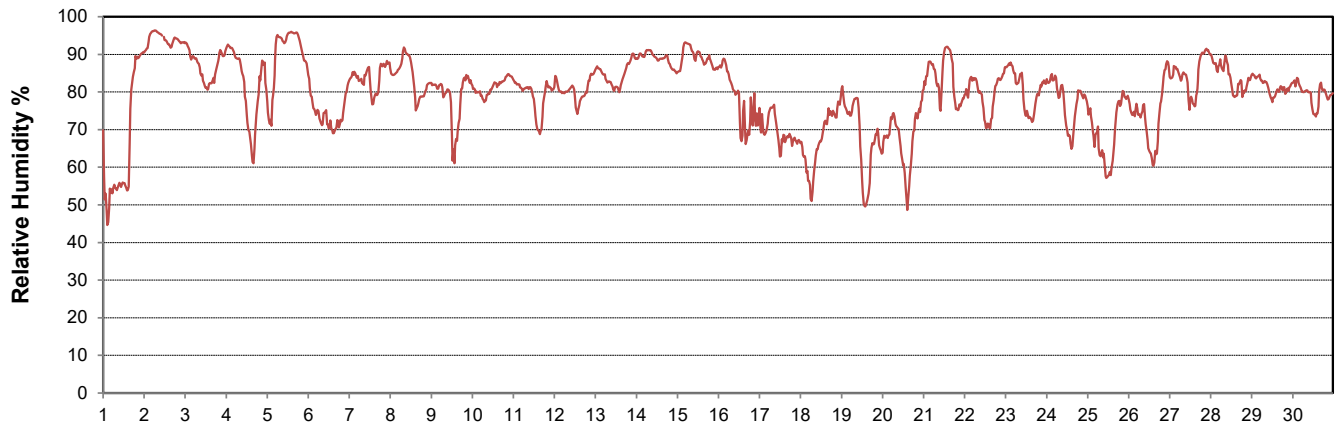
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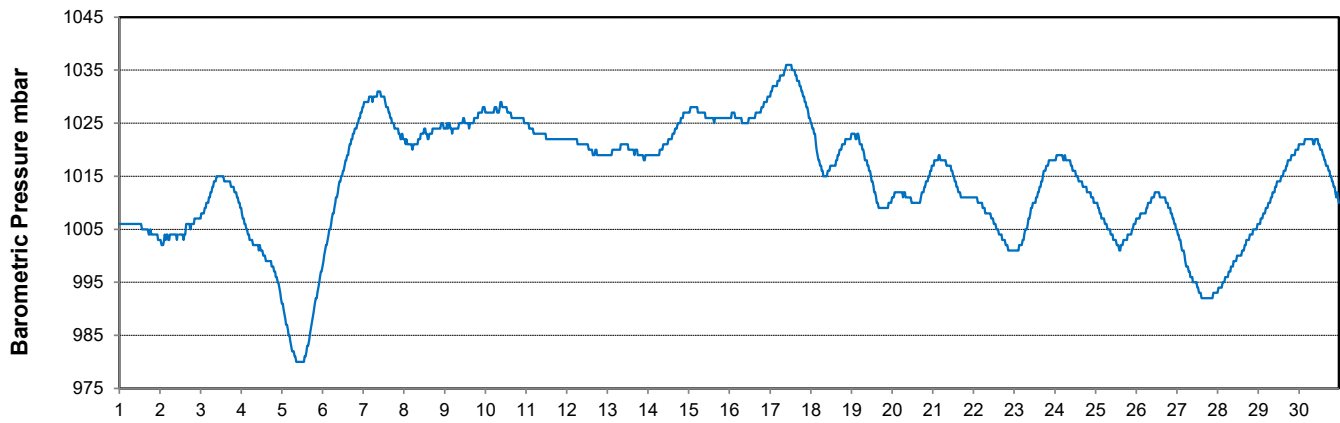
Temperature and Precipitation for November 2022



Relative Humidity for November 2022



Barometric Pressure Corrected to Sea Level for November 2022





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SASKATOON STATION 4057180

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

Preliminary **NOVEMBER 2022**

Day	Wind Gust (10 meter)			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				°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	36.5	E	10:36	17.4	4.0	2.5	3.0	4.0	7.0	9.5	10.5	10.5	0.0	9.6	0.0	2.9	2.8
2	37.9	NNE	4:53	17.8	-1.5	2.5	3.5	4.5	7.0	9.5	10.0	10.5	0.0	9.5	0.0	1.1	1.1
3	31.5	WNW	7:28	15.9	-6.5	1.5	2.5	3.5	6.5	9.5	10.0	10.5	5.0	9.5	52.8	6.1	2.3
4	24.6	WSW	13:41	9.9	-9.0	0.5	1.5	3.0	6.0	9.0	10.0	10.5	9.0	9.4	95.6	8.3	1.4
5	74.0	N	22:29	30.4	-0.5	0.0	1.0	2.0	5.5	9.0	10.0	10.5	0.0	9.4	0.0	1.2	1.2
6	70.1	NNW	0:51	27.7	-7.5	0.5	1.0	2.0	5.5	9.0	9.5	10.5	0.0	9.3	0.0	3.2	3.2
7	50.4	ENE	19:03	17.9	-19.0	-1.0	0.0	1.5	5.0	8.5	9.5	10.5	0.0	9.2	0.0	3.2	3.2
8	45.1	ESE	0:36	14.7	-7.0	-1.0	-0.5	1.0	4.5	8.5	9.5	10.5	0.6	9.2	6.5	3.2	3.1
9	18.3	S	7:24	5.2	-18.5	-1.5	-0.5	0.5	4.5	8.5	9.5	10.5	5.3	9.1	58.2	6.3	2.9
10	22.1	S	20:38	7.3	-20.0	-2.5	-1.0	0.0	4.0	8.0	9.5	10.0	2.5	9.1	27.6	4.0	3.2
11	18.2	SSE	13:45	8.4	-17.0	-3.0	-1.5	-0.5	3.5	8.0	9.0	10.0	7.9	9.0	87.8	6.6	1.9
12	24.0	SE	20:29	9.1	-18.5	-3.5	-2.0	-1.0	3.5	7.5	9.0	10.0	3.0	9.0	33.5	4.3	3.2
13	18.2	S	10:33	6.3	-9.5	-2.5	-2.0	-1.0	3.0	7.5	9.0	10.0	0.0	8.9	0.0	2.2	2.0
14	17.9	SE	12:03	7.3	-7.0	-2.0	-1.0	-0.5	3.0	7.5	8.5	10.0	0.0	8.8	0.0	2.8	2.3
15	27.8	WSW	11:08	11.2	-5.0	-1.0	-0.5	0.0	3.0	7.0	8.5	10.0	0.0	8.8	0.0	2.7	2.5
16	57.5	N	19:09	24.2	-4.0	-1.0	-0.5	0.5	3.0	7.0	8.5	10.0	0.0	8.7	0.0	2.7	2.6
17	52.1	N	0:55	23.2	-13.5	-1.5	-0.5	0.5	3.5	7.0	8.5	10.0	6.8	8.7	78.3	5.2	1.8
18	45.2	NW	8:07	22.9	-8.5	-3.0	-2.0	-0.5	3.0	7.0	8.0	9.5	0.0	8.6	0.0	2.3	2.3
19	32.5	WSW	8:41	16.2	-8.0	-2.5	-2.0	-1.0	3.0	7.0	8.0	9.5	7.3	8.6	85.1	5.1	1.4
20	33.2	WNW	14:58	13.1	-11.0	-3.5	-2.5	-1.0	2.5	6.5	8.0	9.5	4.7	8.5	55.0	4.1	2.4
21	28.6	SW	18:02	11.1	-8.0	-3.5	-2.5	-1.0	2.5	6.5	8.0	9.5	0.3	8.5	3.5	2.2	2.2
22	26.5	SSW	11:36	13.6	-3.5	-2.5	-2.0	-1.0	2.5	6.5	8.0	9.5	5.4	8.4	64.0	3.9	2.8
23	31.3	WNW	14:12	11.9	-3.0	-1.5	-1.0	-0.5	2.5	6.0	7.5	9.5	7.7	8.4	91.7	4.3	1.5
24	27.4	SW	14:45	13.8	-4.5	-1.5	-1.0	0.0	2.5	6.0	7.5	9.5	4.6	8.4	55.1	3.7	2.9
25	29.9	WNW	19:18	15.9	3.5	-0.5	-0.5	0.0	2.5	6.0	7.5	9.0	0.6	8.3	7.2	3.0	2.8
26	32.3	WNW	0:58	15.8	-4.5	0.0	0.5	0.5	3.0	6.0	7.5	9.0	7.9	8.3	95.5	4.4	1.0
27	36.1	NNE	23:42	11.2	-3.5	-1.0	0.0	0.5	3.0	6.0	7.5	9.0	0.6	8.2	7.3	2.1	2.0
28	52.5	NNW	13:03	27.9	-7.0	-0.5	0.0	0.5	3.0	6.0	7.0	9.0	0.0	8.2	0.0	1.5	1.5
29	37.8	NW	1:38	20.2	-10.5	-1.0	-0.5	0.5	3.0	6.0	7.0	9.0	0.7	8.2	8.6	3.0	2.9
30	38.2	ENE	23:56	14.8	-19.0	-2.0	-1.0	0.0	3.0	6.0	7.0	9.0	0.0	8.1	0.0	2.9	2.9
Total													79.9	263.8	30.3	108.5	69.3
Mean				15.4	-8.3	-1.2	-0.4	0.6	3.8	7.4	8.6	9.8	1991-2020 Normal				
Extreme	74.0	N	22:29		1971- 2000 Normal for Soil Temperatures								97.4	270.2	36.0	118.5	60.8
Date	5					-2.2	-1.7	-0.5	3.0	5.6	6.8	8.1	No. of Bright Sunshine days = 18				

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

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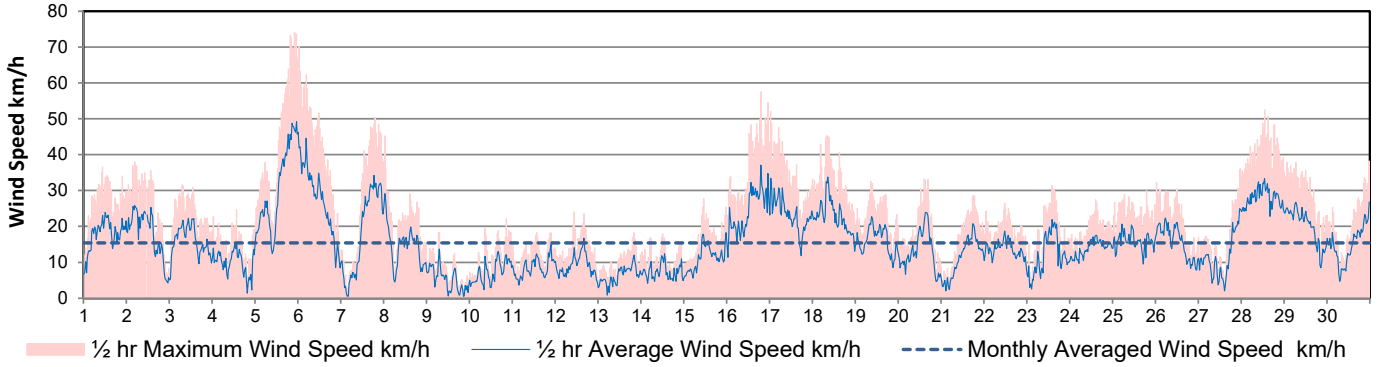


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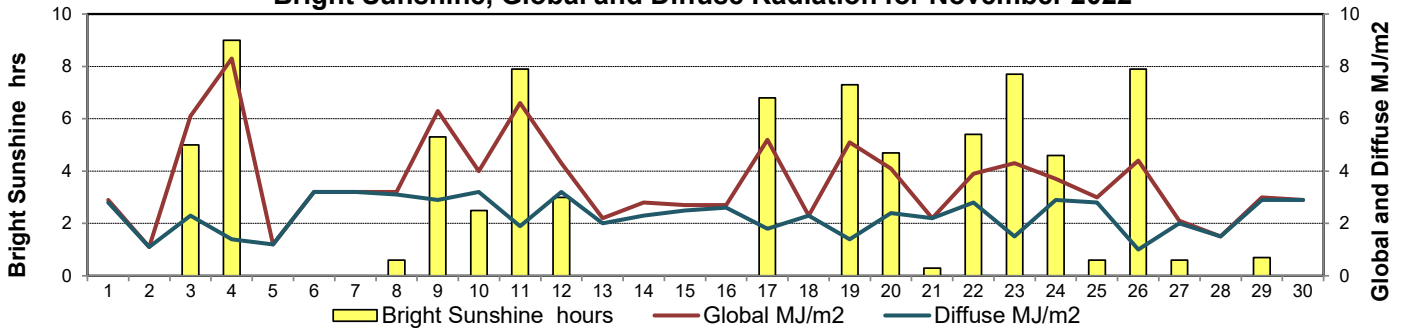
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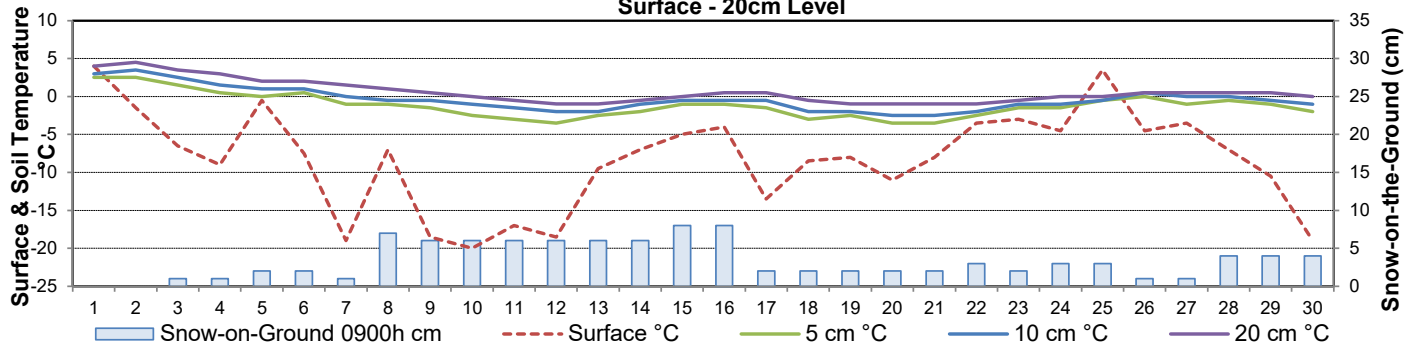
Wind Speed for November 2022



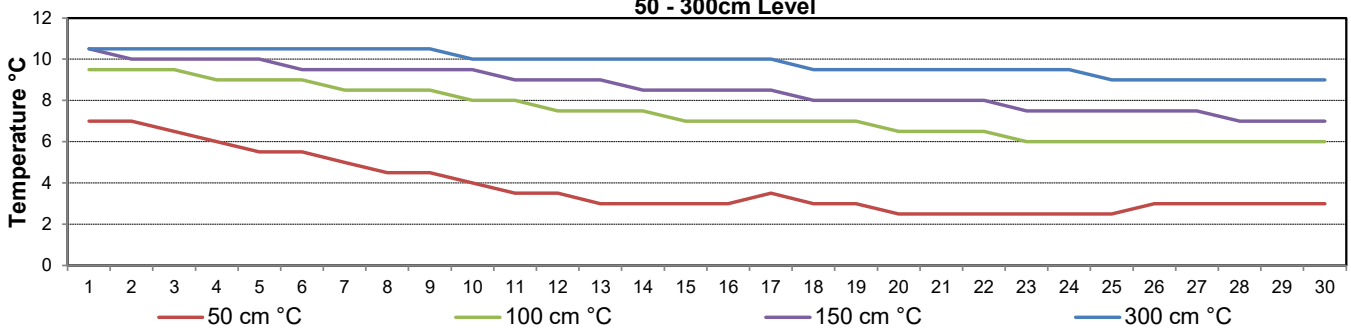
Bright Sunshine, Global and Diffuse Radiation for November 2022



Soil Temperatures for November 2022
Surface - 20cm Level



Soil Temperatures for November 2022
50 - 300cm Level





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Extreme Records for November

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
21.7	03/1903	SE	20.0 06/2016	57.3	1940	SE	48.2 1973	100 ^w	17/1976	101	1976	188.5	1976	30	1976
-39.4	30/1893	SM	-33.5 24/1985	0.0	2002*	SWT*	0.4 2009					37.2	1972	10	1972

**1975 forward * more than one year

Notable Events for CRS Saskatoon - November						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year (day)	Station	Operational Period	Term	Definition	
Temperature	Lowest Maximum Daily	10	-15.5	-15.0	1986	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Highest Minimum Daily	25	-0.1	-2.3	2011	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
Fall 2022 Precipitation 8th driest (1964 to 2022) Temperature Maximum Average 8th warmest (1964-2022) Minimum Average 15th warmest (1964-2022) Mean Average 11 warmest (1964-2022)						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	slight change in diffuse pyranometer position (25 Nov 2022)		
						K	S'toon Kernan Farm 1993-2004	updated the datalogger program to reflect new distance of snow depth sensor to ground level (2 Nov 2022)		
					KCS	S'toon Kernan 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	13.0	18.2	29	0.5	7.0	8.5												
2	14.0	19.9	30	0.5	7.5	8.5												
3	14.0	18.9	29	2.5	7.0	8.5												
4	7.0	12.7	20	2.0	7.0	8.5												
5	22.0	36.9	62	2.0	6.5	8.5												
6	21.0	35.1	53	2.0	6.5	8.0												
7	14.0	25.8	41	2.0	7.0	8.0												
8	12.0	23.8	36	2.0	7.0	8.0												
9	4.0	10.6	15	1.5	7.0	8.0												
10	4.0	9.5	15	2.0	6.5	8.0												
11	6.0	10.8	15	1.5	6.5	8.0												
12	7.0	13.4	21	1.5	6.5	8.0												
13	4.0	8.3	14	2.0	6.5	7.5												
14	5.0	8.7	15	2.0	6.5	7.5												
15	9.0	14.9	22	2.5	6.5	7.5												
16	19.0	29.1	51	1.5	7.0	8.0												
17	18.0	25.9	44	2.0	7.0	8.0												
18	18.0	26.7	40	2.0	6.5	8.0												
19	13.0	18.2	29	2.0	6.5	7.5												
20	10.0	18.5	29	2.0	6.0	7.5												
21	7.0	16.8	25	1.5	6.5	8.0												
22	10.0	15.7	24	2.0	6.5	8.0												
23	8.0	17.2	26	2.0	6.0	8.0												
24	10.0	14.6	22	2.5	6.5	7.5												
25	12.0	16.6	28	2.0	7.0	7.5												
26	11.0	16.8	25	2.0	6.5	8.0												
27	6.0	18.1	29	2.5	6.5	7.5												
28	22.0	27.3	42	2.0	7.0	8.5												
29	17.0	21.8	35	2.0	7.0	8.0												
30	12.0	21.1	32	2.0	6.5	8.0												
Total																		
Mean				2	7	8.0												
Extreme	22.0	36.9	62.1	2.5	7.5	8.5												
Date	5	5	5	3	2	1												

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

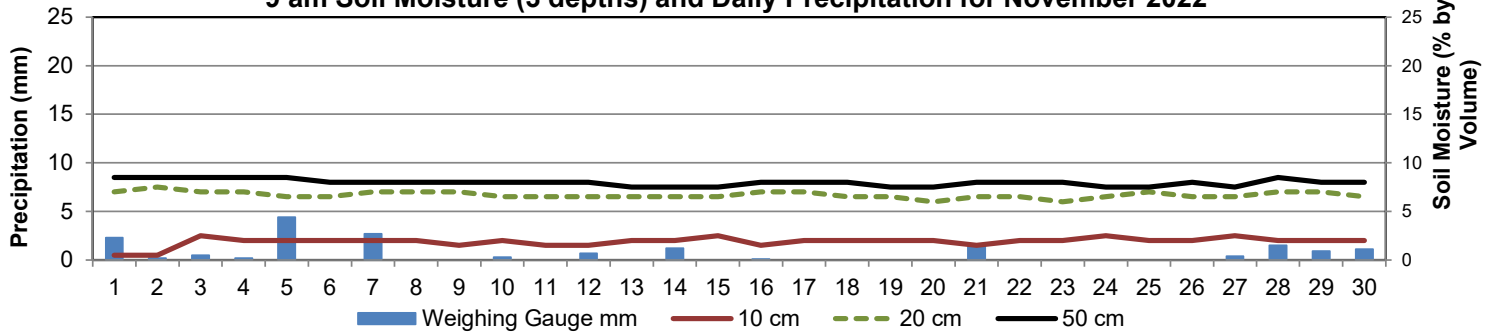
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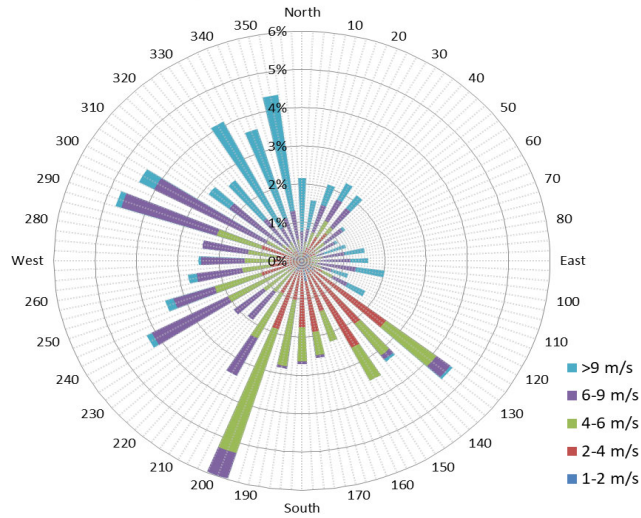
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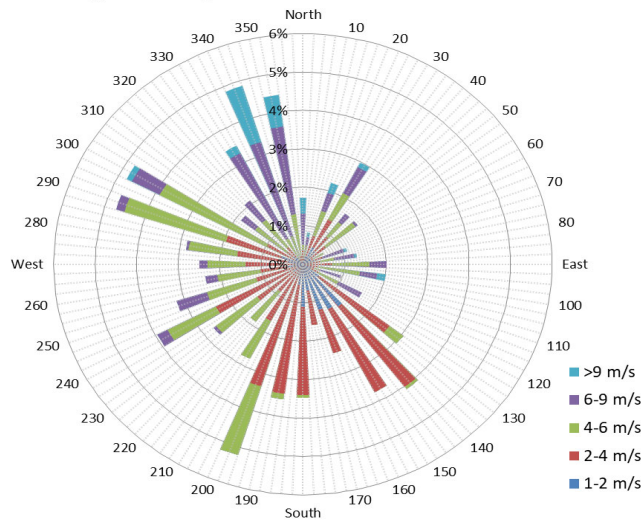
9 am Soil Moisture (3 depths) and Daily Precipitation for November 2022



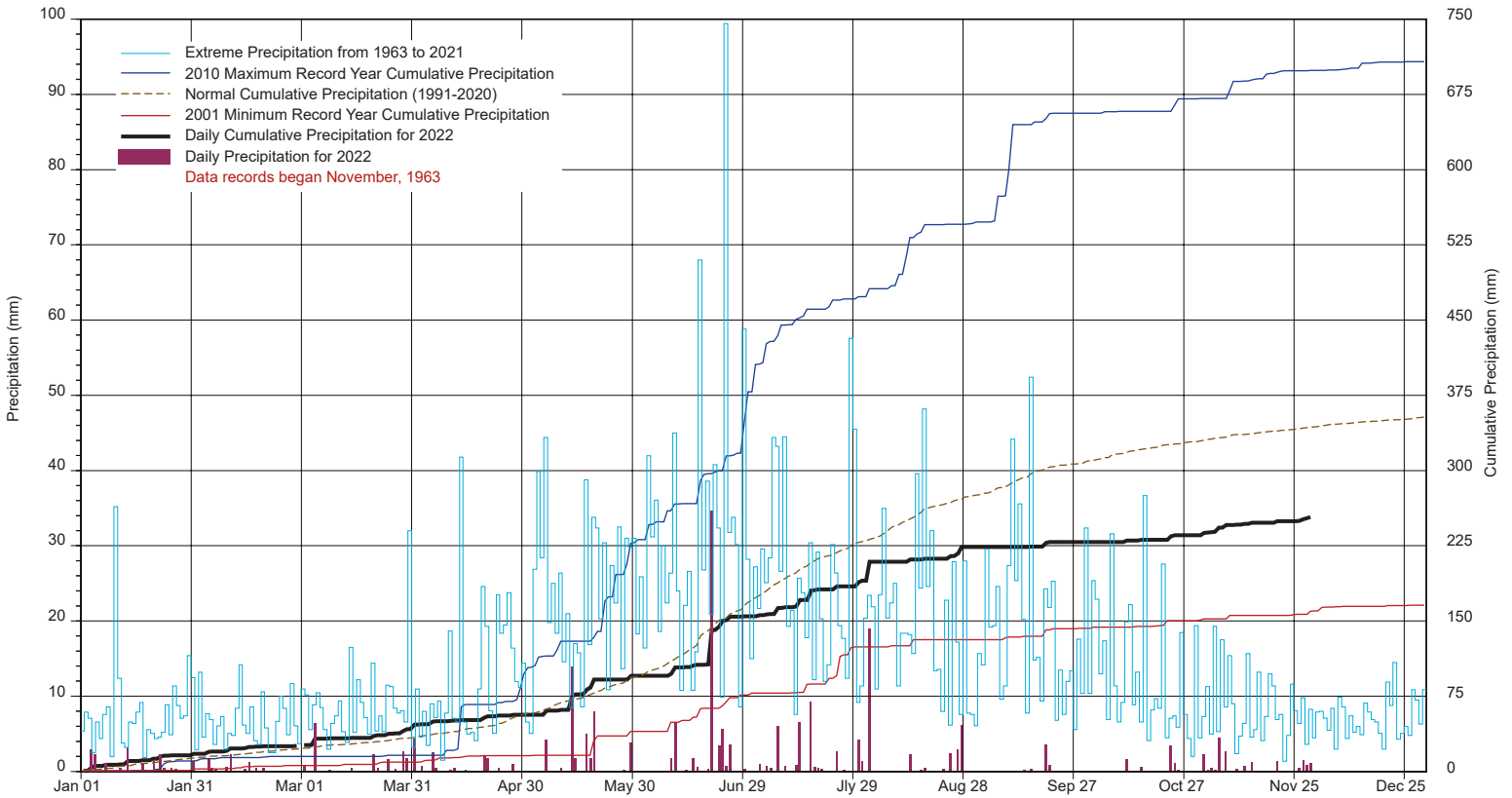
1/2 hr Maximum Wind Speed and Direction Saskatoon November 2022



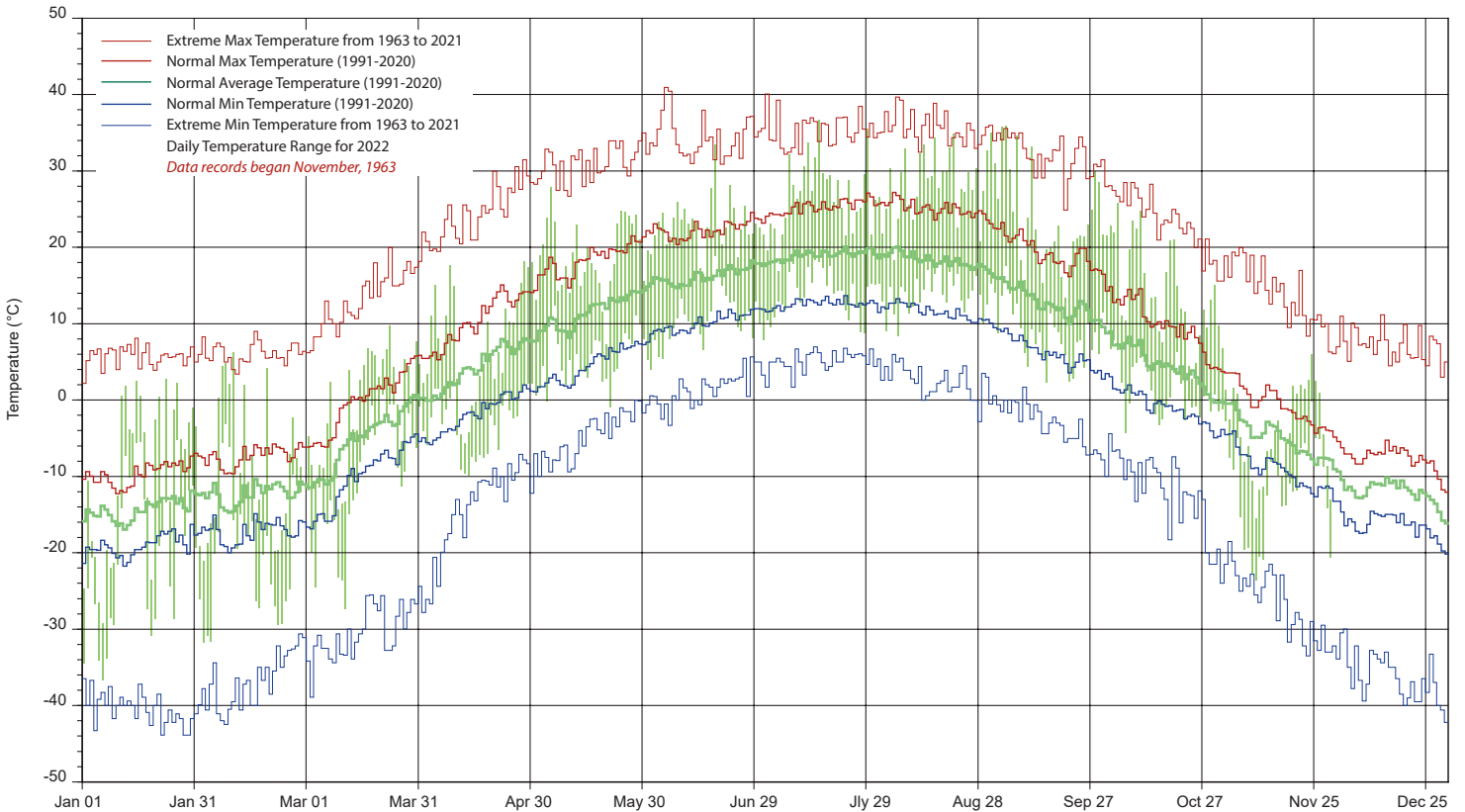
10 minute Average Wind Speed and Direction Saskatoon November 2022



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2022 PRECIPITATION AND NORMALS



2022 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

