



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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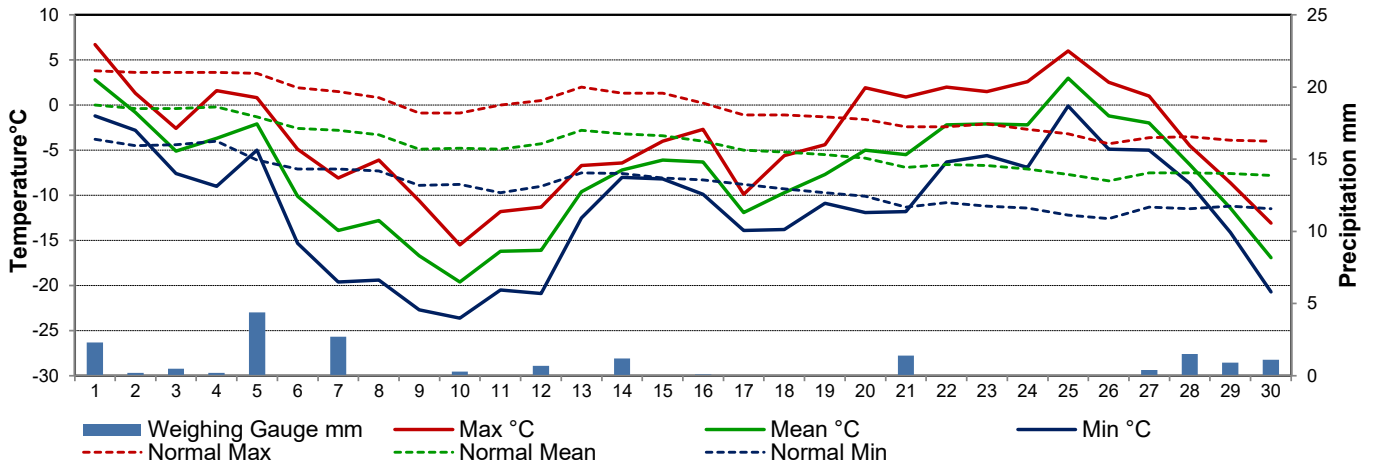


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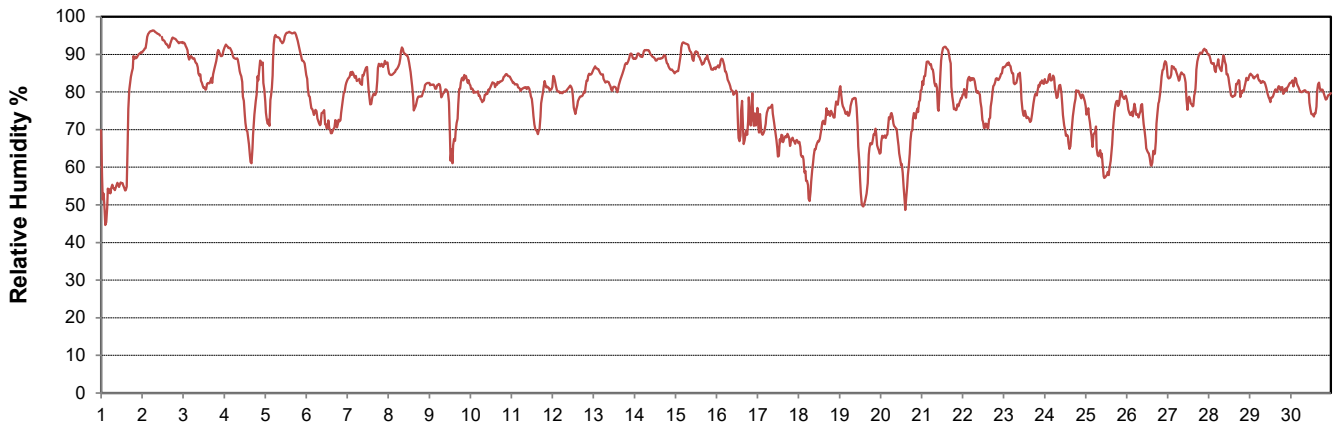
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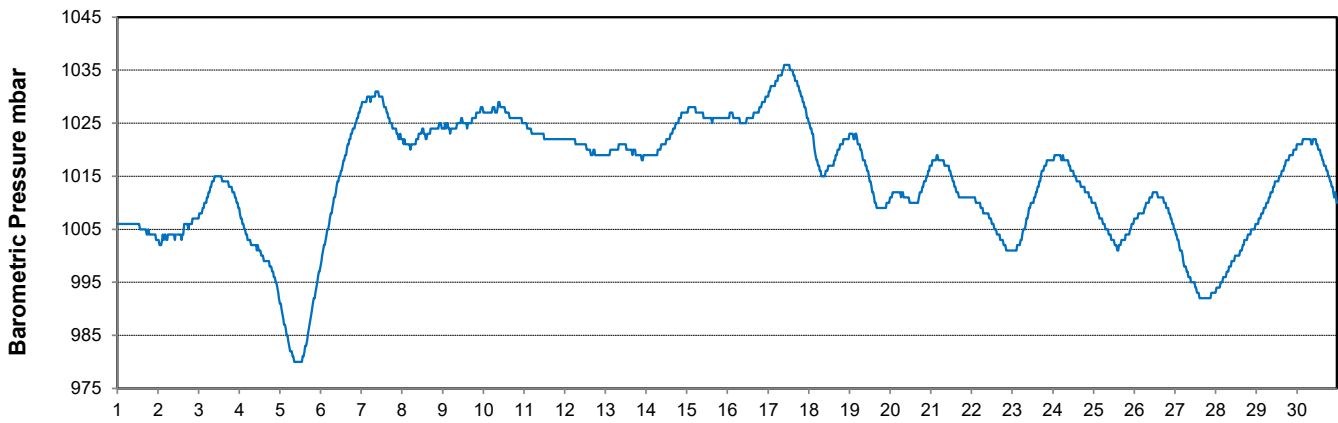
Temperature and Precipitation for November 2022



Relative Humidity for November 2022



Barometric Pressure Corrected to Sea Level for November 2022





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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				

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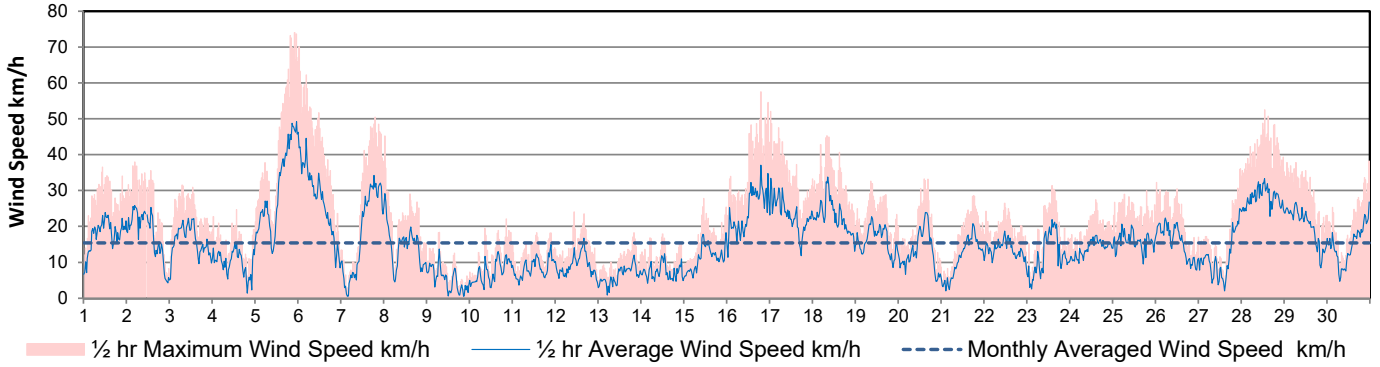


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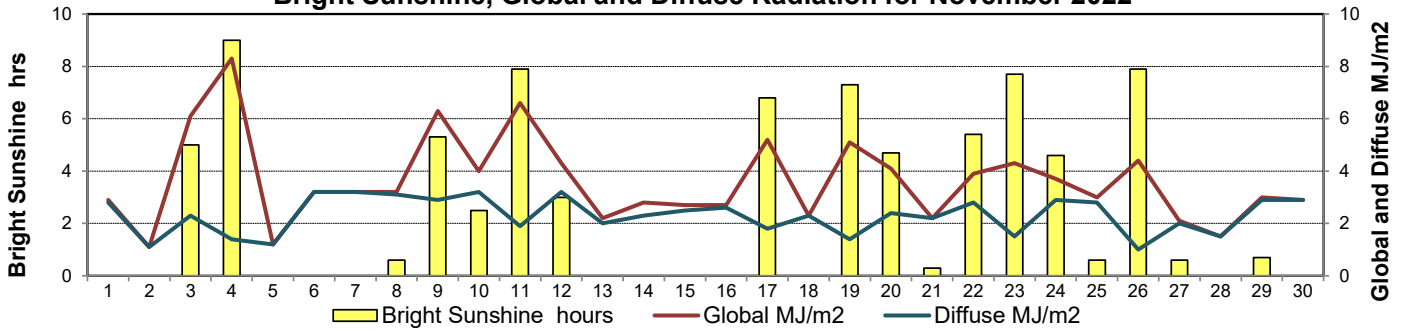
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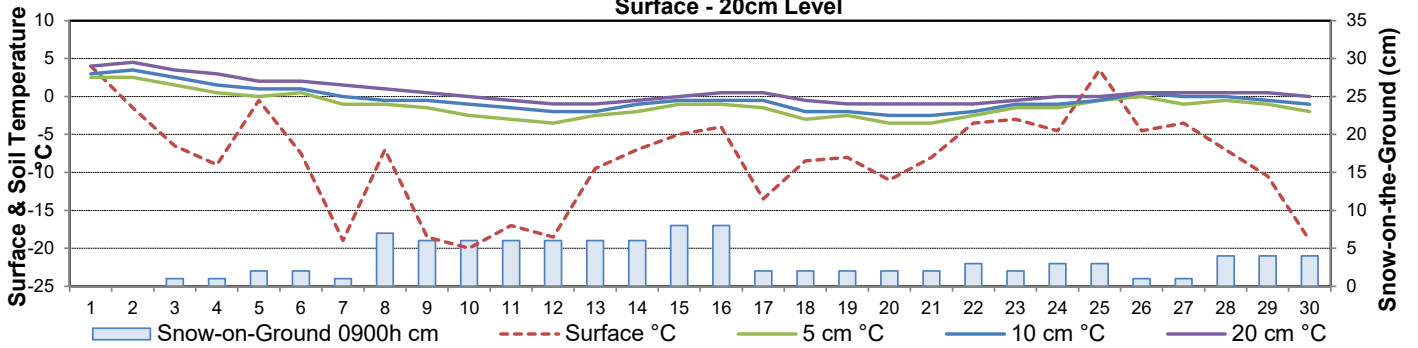
Wind Speed for November 2022



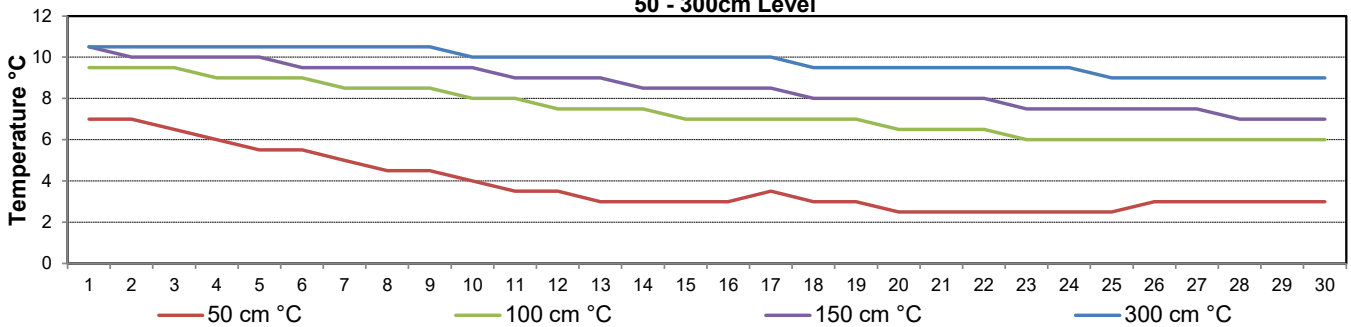
Bright Sunshine, Global and Diffuse Radiation for November 2022



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 Kernen Farm 1993-2004	updated the datalogger program to reflect new distandct of snow depth sensor to ground level (2 Nov 2022)		
					KCS	S'toon Kernen Farm CS 1996-				
					RCS	Environment Canada 2008-				
					SF	Sutherland Forestry 1943-1970				

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Preliminary **November 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	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												

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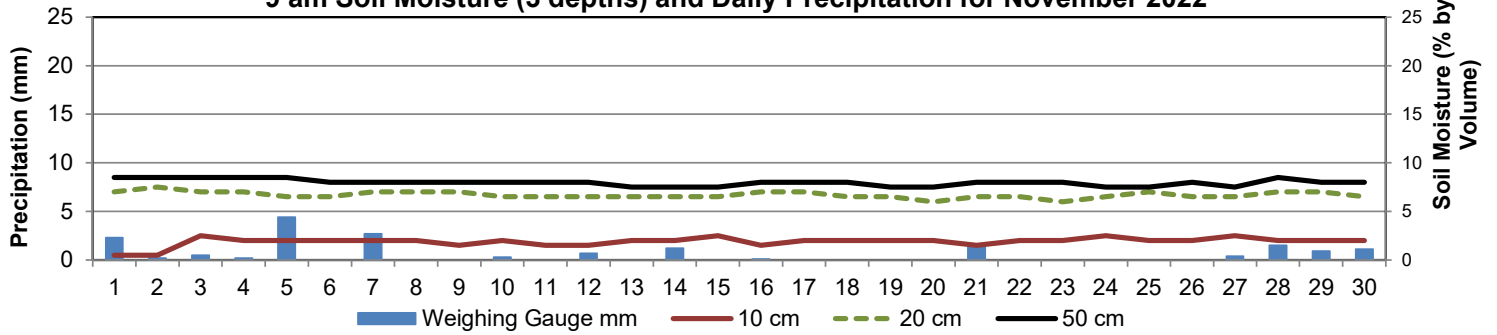
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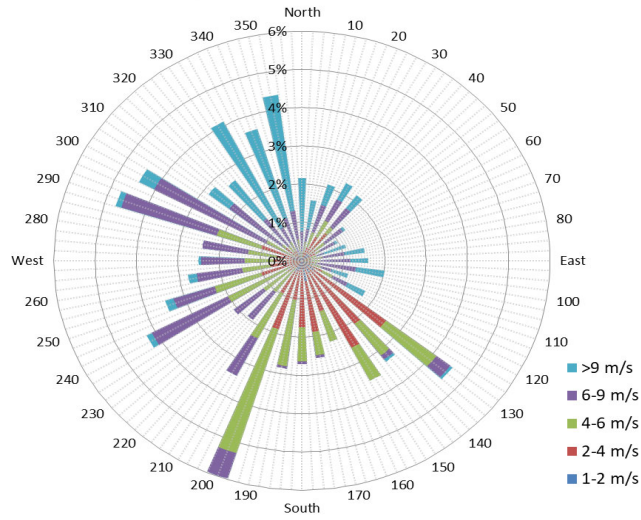
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9 am Soil Moisture (3 depths) and Daily Precipitation for November 2022



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



10 minute Average Wind Speed and Direction Saskatoon November 2022

