



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary NOVEMBER 2020

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	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	14.0	3.0	-5.4	-5.1	4.3	-1.1	0.0	13.7	0.0	0.0		0	80	29	1022	1014
2	15.7	3.2	1.4	-5.7	8.6	-1.2	3.6	9.4	0.0	0.0		0	77	31	1015	1002
3	14.6	3.1	1.5	-5.0	8.1	-0.9	3.1	9.9	0.0	0.0		0	63	36	1004	1000
4	12.8	3.8	-0.1	-4.2	6.4	-0.2	1.4	11.6	0.0	0.0		0	91	48	1015	999
5	9.8	4.3	1.2	-6.0	5.5	-0.9	0.5	12.5	0.0	0.0		0	90	64	1013	1000
6	6.9	2.8	-1.1	-6.6	2.9	-1.9	0.0	15.1	0.0	0.0		0	92	66	1013	1008
7	0.9	1.5	-3.9	-7.1	-1.5	-2.8	0.0	19.5	0.0	8.6	rain/snow	0	96	87	1013	1003
8	-3.9	0.6	-10.3	-6.8	-7.1	-3.1	0.0	25.1	0.0	12.0	snow	6	95	88	1012	1006
9	-10.1	-0.5	-16.7	-8.9	-13.4	-4.7	0.0	31.4	0.0	1.1	snow	15	90	77	1012	1008
10	-8.3	0.7	-13.5	-8.7	-10.9	-4.0	0.0	28.9	0.0	0.0		14	89	78	1008	1002
11	-4.7	0.3	-18.8	-9.0	-11.8	-4.3	0.0	29.8	0.0	0.7	light snow	14	87	78	1016	1004
12	-10.6	0.7	-22.5	-9.0	-16.6	-4.2	0.0	34.6	0.0	0.0		12	85	72	1016	1003
13	-1.0	1.3	-12.3	-8.2	-6.7	-3.4	0.0	24.7	0.0	0.0		11	85	66	1002	986
14	-2.0	1.1	-10.3	-8.5	-6.2	-3.7	0.0	24.2	0.0	2.9	light snow	15	94	76	1009	986
15	-6.1	1.0	-8.5	-8.9	-7.3	-4.0	0.0	25.3	0.0	0.1		11	93	87	1010	1007
16	-6.2	0.3	-7.8	-9.7	-7.0	-4.7	0.0	25.0	0.0	0.7	heavy frost	11	93	92	1024	1011
17	-2.4	-1.9	-7.8	-9.0	-5.1	-5.4	0.0	23.1	0.0	0.0		13	93	88	1025	999
18	3.5	-0.8	-4.7	-8.7	-0.6	-4.8	0.0	18.6	0.0	0.0		11	93	76	1008	994
19	-3.7	-1.0	-11.2	-8.9	-7.5	-5.0	0.0	25.5	0.0	4.4	snow	11	89	77	1023	1008
20	-11.0	-1.2	-15.9	-9.8	-13.5	-5.5	0.0	31.5	0.0	0.1		17	87	73	1027	1021
21	-6.5	-3.4	-16.1	-11.6	-11.3	-7.5	0.0	29.3	0.0	0.0		16	89	67	1023	1020
22	-8.7	-2.4	-13.5	-12.3	-11.1	-7.4	0.0	29.1	0.0	0.2	Hoar frost	16	90	87	1024	1012
23	-4.7	-3.8	-10.9	-12.3	-7.8	-8.1	0.0	25.8	0.0	0.0		11	89	75	1011	1006
24	-3.1	-4.4	-8.8	-12.7	-6.0	-8.6	0.0	24.0	0.0	0.0		11	92	84	1011	1000
25	-0.2	-5.0	-8.6	-13.5	-4.4	-9.3	0.0	22.4	0.0	0.2	light snow	11	93	77	1006	994
26	-1.4	-5.4	-11.5	-14.0	-6.5	-9.7	0.0	24.5	0.0	0.9	snow	11	92	69	1012	1003
27	0.5	-5.7	-7.0	-13.3	-3.3	-9.6	0.0	21.3	0.0	0.0		11	85	66	1008	1005
28	-1.6	-3.9	-9.5	-12.8	-5.6	-8.4	0.0	23.6	0.0	0.4	light snow	11	94	75	1023	1002
29	-3.7	-3.5	-13.3	-11.6	-8.5	-7.6	0.0	26.5	0.0	0.0		12	85	55	1024	1013
30	2.9	-3.7	-7.2	-12.5	-2.2	-8.1	0.0	20.2	0.0	0.0		13	84	46	1013	999
Total							8.6	686.1	0.0	32.3			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-0.6	-0.6	-9.1	-9.4	-4.9	-5.0	1981-2010 Normal			13.4	Normal					
Extreme	15.7		-22.5				2.9	690.1	0.0	281.7	Cumulative		96	29	1027	986
Date	2		12							342.6	Cumulative Norm		7	1	20	13

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

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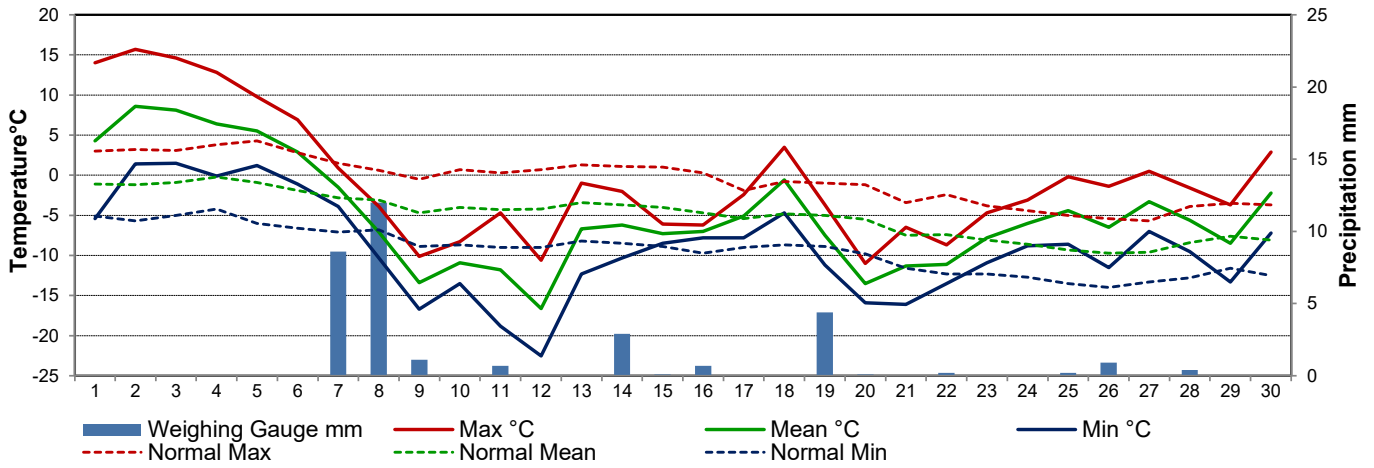


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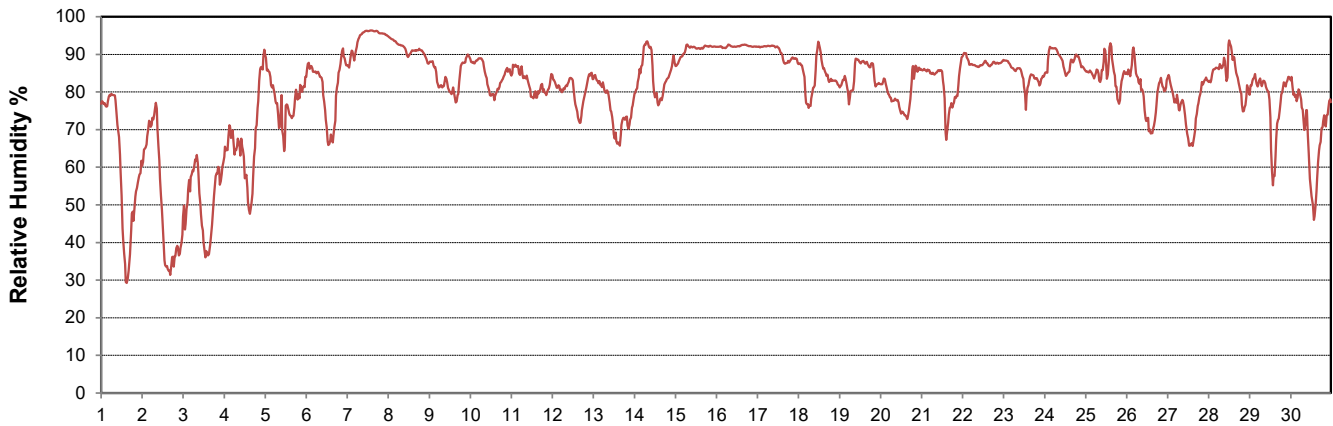
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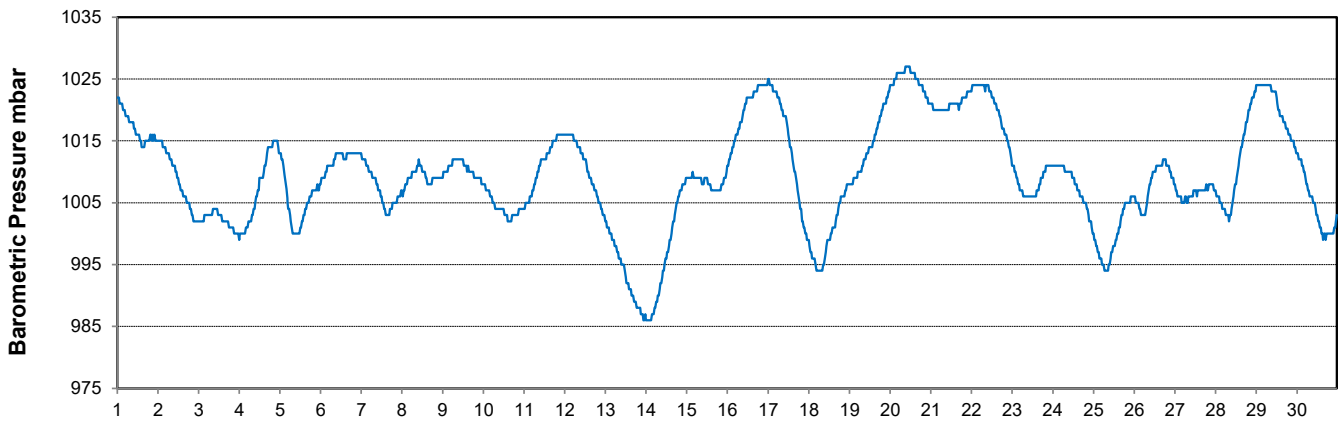
Temperature and Precipitation for November 2020



Relative Humidity for November 2020



Barometric Pressure Corrected to Sea Level for November 2020





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SASKATOON STATION 4057180

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

Preliminary NOVEMBER 2020

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	34.1	W	16:06	13.7	-4.0	-2.0	-0.5	1.5	4.5	7.5	8.5	10.0	8.3	9.6	86.8	6.4	2.0
2	25.9	SSW	10:36	13.7	2.0	0.5	1.0	1.5	4.5	7.5	8.5	9.5	6.4	9.5	67.4	5.9	2.7
3	22.9	SW	1:29	8.1	1.0	1.0	2.0	2.5	4.5	7.5	8.5	9.5	6.6	9.4	69.9	5.8	2.4
4	34.2	WNW	12:15	10.3	0.5	1.0	2.0	3.0	5.0	7.5	8.5	9.5	7.1	9.4	75.7	5.8	2.1
5	34.8	SE	4:53	11.3	6.5	2.0	2.5	3.0	5.0	7.5	8.0	9.5	3.1	9.3	33.3	4.6	2.7
6	24.7	WNW	14:24	9.1	0.5	2.0	3.0	3.5	5.0	7.5	8.0	9.5	4.1	9.3	44.3	4.9	2.8
7	44.6	ESE	10:04	18.8	0.0	2.0	2.5	3.5	5.0	7.5	8.0	9.5	0.0	9.2	0.0	1.2	1.0
8	58.4	N	21:07	32.1	-7.5	1.5	2.0	3.0	5.0	7.0	8.0	9.5	0.0	9.2	0.0	0.9	0.8
9	52.0	NNW	0:16	14.8	-16.0	1.0	1.5	2.5	5.0	7.0	8.0	9.0	7.3	9.1	80.3	6.7	1.7
10	21.4	N	23:56	8.9	-11.0	1.0	1.5	2.0	4.5	7.0	8.0	9.0	0.0	9.0	0.0	3.8	3.1
11	51.2	NNW	6:06	21.4	-8.0	1.0	1.5	2.0	4.5	7.0	8.0	9.0	0.0	9.0	0.0	4.1	3.2
12	27.5	SSE	14:00	10.5	-17.0	0.5	1.0	2.0	4.5	7.0	8.0	9.0	7.6	8.9	85.2	7.1	1.6
13	29.3	SSW	16:38	13.0	-10.0	0.0	0.5	1.5	4.0	7.0	8.0	9.0	5.5	8.9	62.0	5.7	2.3
14	41.7	NW	13:56	16.2	-3.5	0.5	1.0	1.5	4.0	7.0	7.5	9.0	0.0	8.8	0.0	3.6	2.8
15	28.6	ESE	18:43	11.8	-6.0	0.5	1.0	1.5	4.0	6.5	7.5	9.0	0.0	8.8	0.0	2.8	2.3
16	18.3	ESE	23:24	6.7	-5.5	0.5	1.0	1.5	4.0	6.5	7.5	9.0	0.0	8.7	0.0	2.1	1.7
17	61.2	SE	19:18	24.1	-6.5	0.5	1.0	2.0	4.0	6.5	7.5	9.0	0.0	8.7	0.0	2.5	2.1
18	38.7	WNW	10:30	17.2	0.0	1.0	1.5	2.0	4.0	6.5	7.5	8.5	1.3	8.6	15.1	2.4	1.8
19	32.7	NNE	12:28	14.4	-6.5	1.0	1.5	2.0	4.0	6.5	7.5	8.5	0.0	8.6	0.0	1.7	1.4
20	24.8	SW	11:27	11.7	-9.5	1.0	1.5	2.0	4.0	6.5	7.5	8.5	5.3	8.5	62.2	4.8	1.5
21	25.5	WNW	21:20	8.4	-14.5	1.0	1.5	2.0	4.0	6.5	7.5	8.5	2.4	8.5	28.3	4.1	2.2
22	46.3	SE	23:34	10.3	-11.0	0.5	1.0	1.5	4.0	6.5	7.0	8.5	0.0	8.4	0.0	2.4	2.0
23	50.2	ESE	3:47	18.9	-8.5	0.5	1.0	1.5	4.0	6.0	7.0	8.5	0.1	8.4	1.2	2.9	2.3
24	26.4	S	17:00	11.4	-7.0	0.5	1.0	1.5	3.5	6.0	7.0	8.5	0.0	8.3	0.0	2.4	2.0
25	45.6	NW	18:35	16.6	-2.5	0.5	1.0	1.5	3.5	6.0	7.0	8.5	1.3	8.3	15.7	2.8	1.9
26	45.6	NW	7:17	16.9	-4.5	0.5	1.0	1.5	3.5	6.0	7.0	8.5	5.8	8.3	70.3	4.3	1.3
27	28.2	SW	2:49	13.6	-4.5	0.5	1.0	1.5	3.5	6.0	7.0	8.5	7.0	8.2	85.3	4.7	1.3
28	38.8	NNE	11:21	15.3	-8.0	0.5	1.0	1.5	3.5	6.0	7.0	8.0	1.2	8.2	14.7	2.4	1.9
29	25.4	SSW	16:24	13.6	-12.5	0.5	1.0	1.5	3.5	6.0	7.0	8.0	6.5	8.1	79.9	5.0	1.3
30	30.0	SSW	14:44	13.3	-6.5	0.5	1.0	1.5	3.5	6.0	7.0	8.0	6.9	8.1	85.2	4.4	1.0
Total													93.8	263.1	35.7	118.2	59.2
Mean				14.2	-6.0	0.7	1.3	2.0	4.2	6.7	7.6	8.9	1981-2010 Normal for Radiation				
Extreme	61.2	SE	19:18		1971- 2000 Normal for Soil Temperatures								97.0	270.3	35.9	127.2	63.8
Date	17				-2.2	-1.7	-0.5	3.0	5.6	6.8	8.1	No. of Bright Sunshine days = 19					

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

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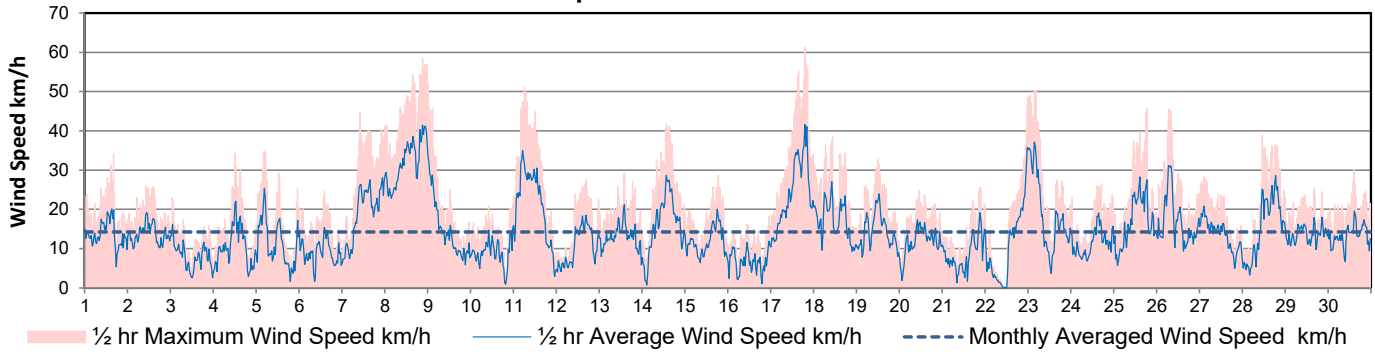


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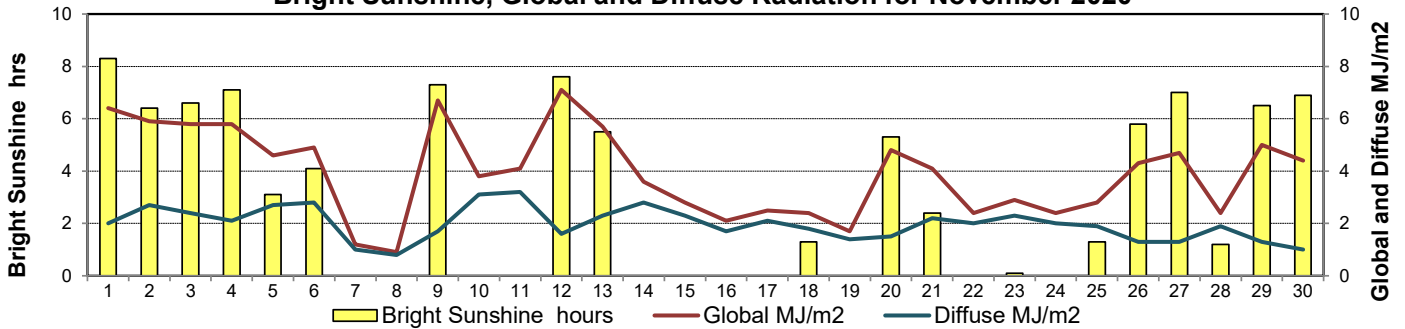
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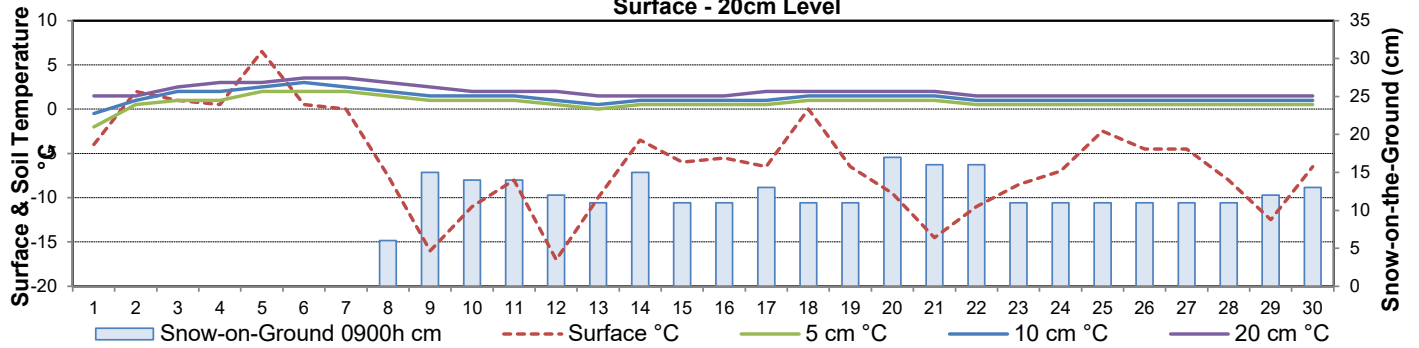
Wind Speed for November 2020



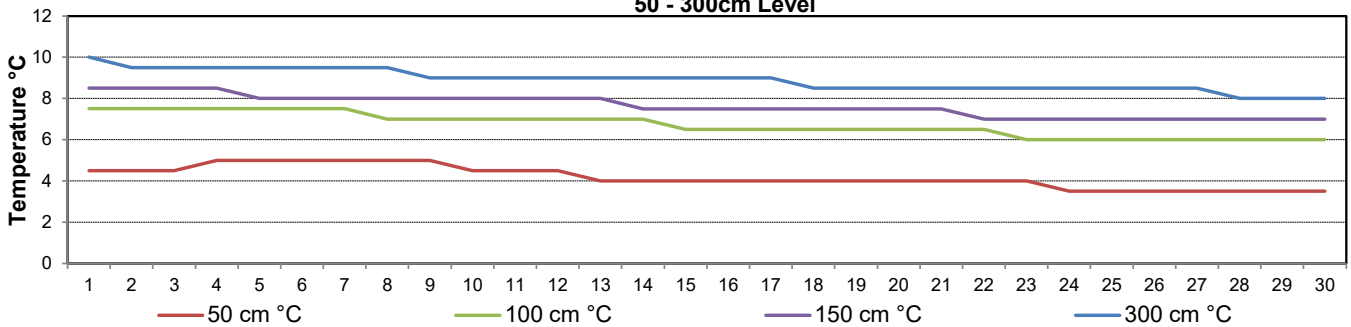
Bright Sunshine, Global and Diffuse Radiation for November 2020



Soil Temperatures for November 2020
Surface - 20cm Level



Soil Temperatures for November 2020
50 - 300cm Level





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Preliminary **NOVEMBER 2020**

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)	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Highest mean Daily	3	8.1	7.3	1963	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
Growing Degree-days	Highest Daily	3	3.1	2.3	1963	S	Saskatoon	1941-1942	na	not available
						SA	Saskatoon A	1942 -	Degree-days	
						NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
Precipitation	Highest Daily	7	8.6	2.6	1983	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	Manual snow depth averaged over 3 meter sticks within the climate station compound	
						K	S'toon Kernen Farm	1993-2004		
KCS	S'toon Kernen Farm CS	1996-	Date	Depth (cm)	Average					
RCS	Environment Canada	2008-	Nov 18	26	13	20	20			
SF	Sutherland Forestry	1943-1970	Nov 27	27.5	18	22	22.5			

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Preliminary **November 2020**

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	15.8	26	9.0	7.0	8.0												
2	10.0	15.1	23	9.0	7.5	8.0												
3	5.0	11.3	18	8.5	7.5	8.5												
4	7.0	17.1	30	9.0	7.5	8.0												
5	8.0	17.6	29	9.5	8.0	8.0												
6	7.0	12.3	20	9.0	7.5	8.0												
7	15.0	23.7	36	9.0	7.5	8.5												
8	28.0	33.9	51	9.0	8.0	8.5												
9	12.0	27.1	43	9.0	7.0	8.0												
10	7.0	12.7	18	9.0	7.0	8.0												
11	18.0	29.3	44	8.5	7.5	8.0												
12	6.0	11.4	22	9.0	7.5	8.5												
13	9.0	18.0	26	9.5	7.5	8.0												
14	13.0	22.4	33	9.5	7.5	8.0												
15	10.0	17.6	25	9.0	7.5	8.0												
16	6.0	10.8	17	9.0	7.5	8.0												
17	20.0	32.6	52	9.5	7.5	8.0												
18	13.0	21.8	32	9.0	7.5	8.0												
19	12.0	18.2	26	9.5	7.5	8.0												
20	10.0	15.7	24	9.5	7.0	8.0												
21	7.0	15.4	20	9.0	7.5	8.0												
22	8.0	24.1	32	9.0	7.5	8.0												
23	15.0	28.6	44	9.5	7.5	8.0												
24	9.0	15.3	24	9.5	7.5	8.0												
25	13.0	23.0	40	9.5	7.0	8.0												
26	14.0	25.7	38	9.5	7.5	8.0												
27	12.0	18.0	26	9.5	7.0	8.0												
28	12.0	23.5	32	9.5	7.0	8.0												
29	10.0	15.2	22	9.0	7.5	7.5												
30	9.0	16.0	26	9.0	7.5	8.0												
Total																		
Mean				9	7	8.1												
Extreme	28.0	33.9	52.3	9.5	8	8.5												
Date	8	8	17	5	5	3												

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

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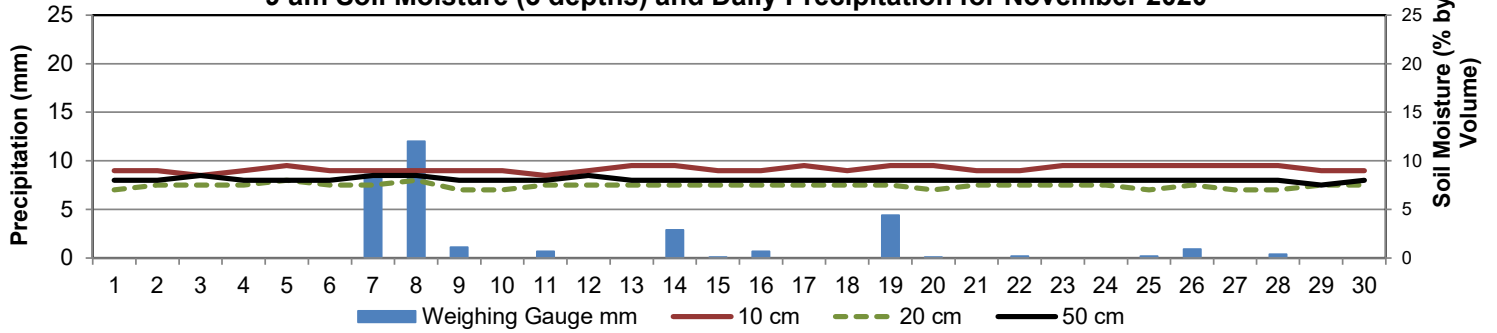


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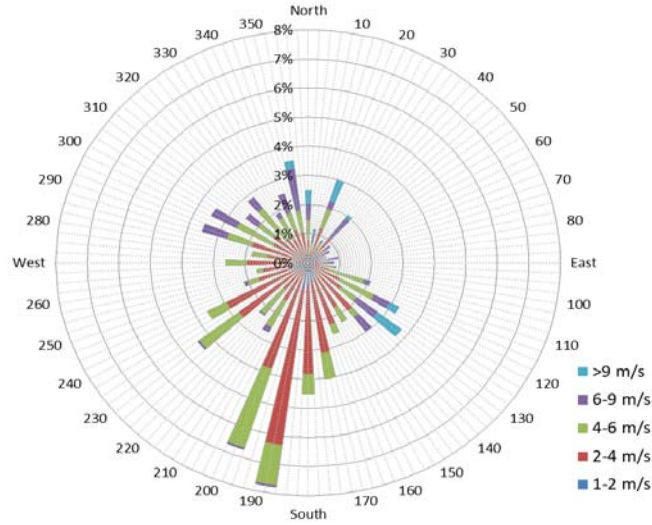
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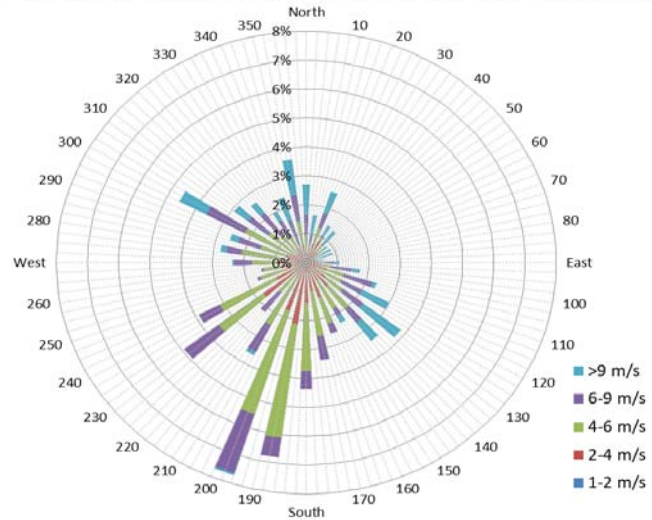
9 am Soil Moisture (3 depths) and Daily Precipitation for November 2020



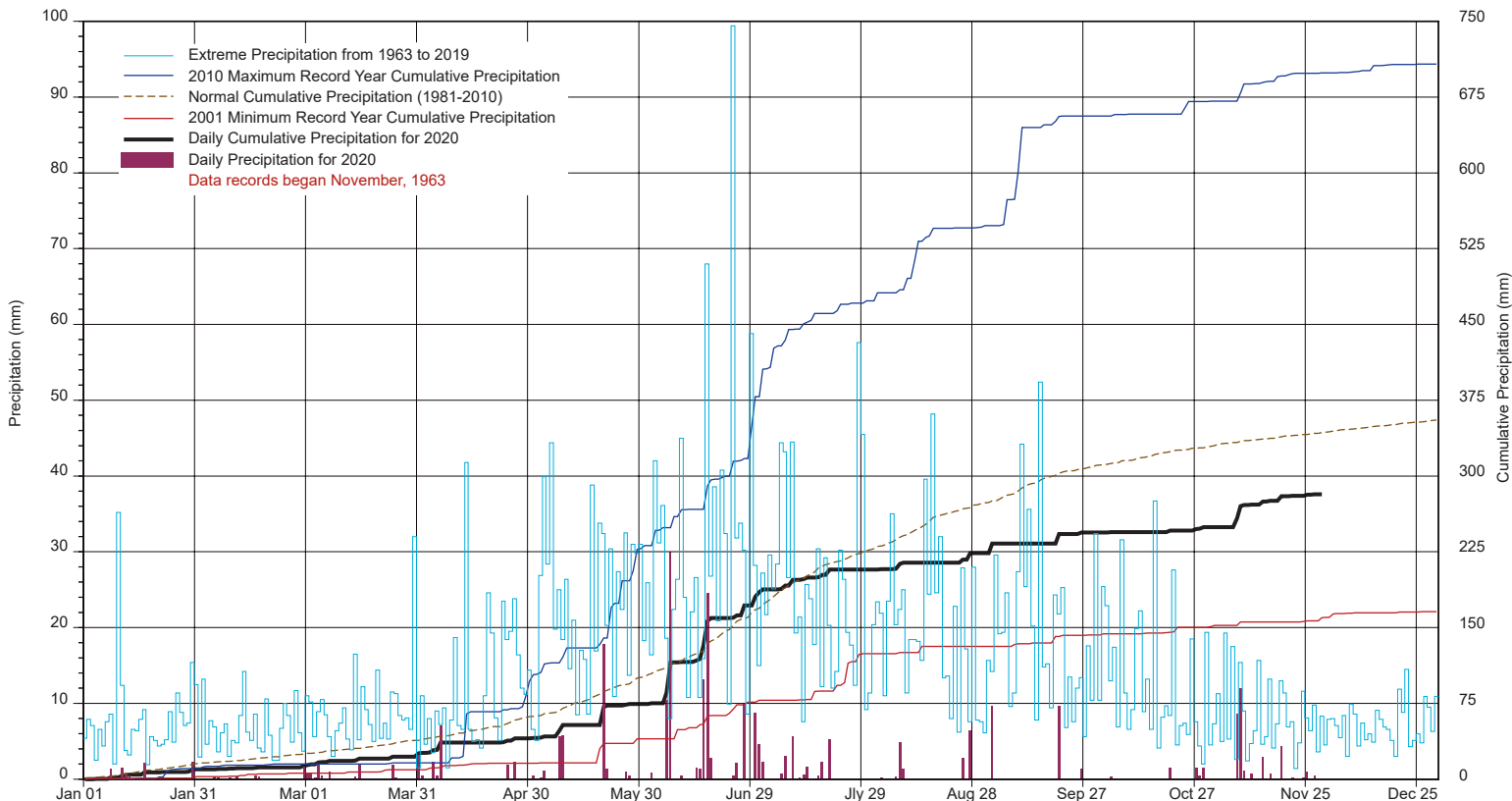
10 minute Average Wind Speed and Direction Saskatoon Nov 2020



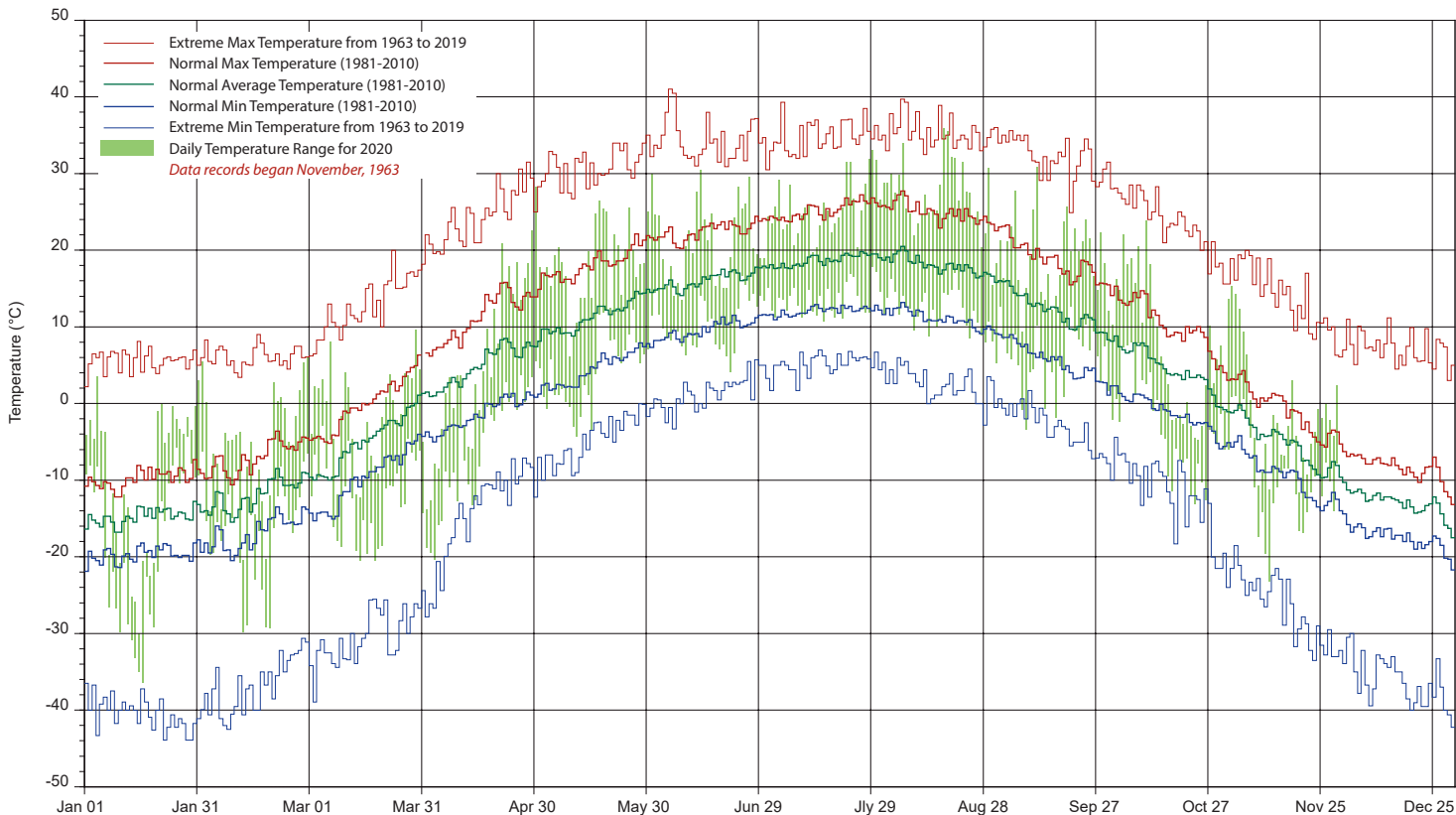
1/2 hr Maximum Wind Speed and Direction Saskatoon Nov 2020



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2020 PRECIPITATION AND NORMALS



2020 TEMPERATURES AND NORMALS



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