



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary OCTOBER 2020

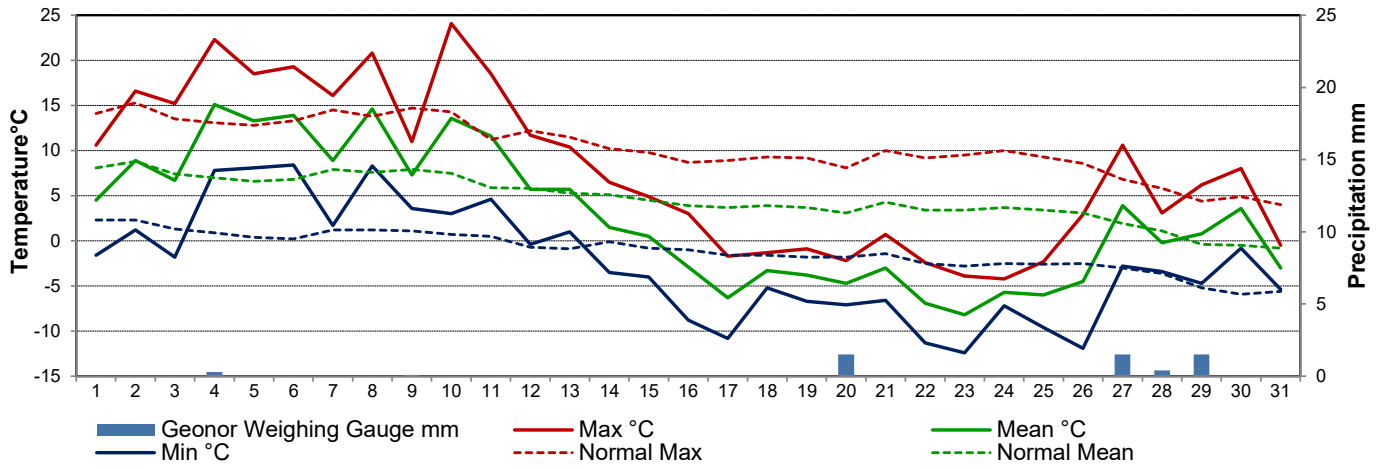
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Geonor Weighing Gauge	Tipping Bucket	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm	mm	cm	%	%	mbar	mbar
1	10.6	14.1	-1.6	2.3	4.5	8.1	0.0	13.5	0.0	0.0	0.0	0	90	43	1030	1018
2	16.6	15.3	1.2	2.3	8.9	8.8	3.9	9.1	0.0	0.0	0.0	0	89	39	1021	1016
3	15.2	13.5	-1.8	1.3	6.7	7.4	1.7	11.3	0.0	0.0	0.0	0	95	41	1023	1015
4	22.3	13.1	7.8	0.9	15.1	7.0	10.1	2.9	0.0	0.3	0.4	0	83	30	1014	1003
5	18.5	12.8	8.1	0.4	13.3	6.6	8.3	4.7	0.0	0.0	0.0	0	83	27	1012	1005
6	19.3	13.3	8.4	0.2	13.9	6.8	8.9	4.1	0.0	0.0	0.0	0	73	24	1013	1005
7	16.1	14.5	1.7	1.2	8.9	7.9	3.9	9.1	0.0	0.0	0.0	0	80	28	1020	1013
8	20.8	13.8	8.3	1.2	14.6	7.6	9.6	3.4	0.0	0.0	0.0	0	63	26	1016	998
9	11.0	14.7	3.6	1.1	7.3	7.9	2.3	10.7	0.0	0.1	0.2	0	78	43	1011	1004
10	24.1	14.3	3.0	0.7	13.6	7.5	8.6	4.4	0.0	0.0	0.0	0	81	25	1009	987
11	18.5	11.2	4.6	0.5	11.6	5.9	6.6	6.4	0.0	0.0	0.0	0	70	31	1001	987
12	11.7	12.2	-0.4	-0.7	5.7	5.8	0.7	12.3	0.0	0.0		0	85	38	1005	1001
13	10.4	11.5	1.0	-0.9	5.7	5.3	0.7	12.3	0.0	0.0		0	78	36	1009	1002
14	6.5	10.2	-3.5	-0.1	1.5	5.1	0.0	16.5	0.0	0.0		0	69	27	1015	1003
15	4.9	9.8	-4.0	-0.8	0.5	4.5	0.0	17.5	0.0	0.0		0	86	32	1019	1015
16	3.0	8.7	-8.8	-1.0	-2.9	3.9	0.0	20.9	0.0	0.0		0	83	28	1018	1008
17	-1.7	8.9	-10.8	-1.6	-6.3	3.7	0.0	24.3	0.0	0.0		0	74	28	1021	1008
18	-1.3	9.3	-5.2	-1.6	-3.3	3.9	0.0	21.3	0.0	0.0		0	71	46	1021	1020
19	-0.9	9.2	-6.7	-1.8	-3.8	3.7	0.0	21.8	0.0	0.0		0	76	39	1021	1014
20	-2.2	8.1	-7.1	-1.8	-4.7	3.1	0.0	22.7	0.0	1.5	light snow	0	92	66	1017	1013
21	0.7	10.0	-6.6	-1.4	-3.0	4.3	0.0	21.0	0.0	0.0		1	78	47	1024	1017
22	-2.4	9.2	-11.3	-2.5	-6.9	3.4	0.0	24.9	0.0	0.0		1	89	56	1031	1024
23	-3.9	9.5	-12.4	-2.8	-8.2	3.4	0.0	26.2	0.0	0.0		0	83	52	1031	1027
24	-4.2	10.0	-7.2	-2.5	-5.7	3.7	0.0	23.7	0.0	0.0		0	68	53	1031	1028
25	-2.3	9.3	-9.6	-2.6	-6.0	3.4	0.0	24.0	0.0	0.0		0	66	43	1031	1021
26	2.9	8.6	-11.9	-2.5	-4.5	3.1	0.0	22.5	0.0	0.0		0	71	31	1021	1007
27	10.6	6.8	-2.8	-3.0	3.9	1.9	0.0	14.1	0.0	1.5	snow/rain	0	88	50	1007	997
28	3.1	5.8	-3.4	-3.6	-0.2	1.1	0.0	18.2	0.0	0.4	snow/rain	3	94	85	1018	1007
29	6.2	4.4	-4.7	-5.2	0.8	-0.4	0.0	17.2	0.0	1.5	rain	0	96	73	1017	1012
30	8.0	4.9	-0.8	-5.9	3.6	-0.5	0.0	14.4	0.0	0.0		0	95	74	1017	989
31	-0.5	4.0	-5.4	-5.6	-3.0	-0.8	0.0	21.0	0.0	0.0		0	83	59	1023	1000
Total							65.3	476.4	0.0	5.3			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	7.8	10.4	-2.5	-1.2	2.6	4.6	1981-2010 Normal			19.2	Normal					
Extreme Date	24.1		-12.4				62.2	415.1	0.1	249.4	Cumulative		96	24	1031	987
	10		23							329.2	Cumulative No		29	6	22	10

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

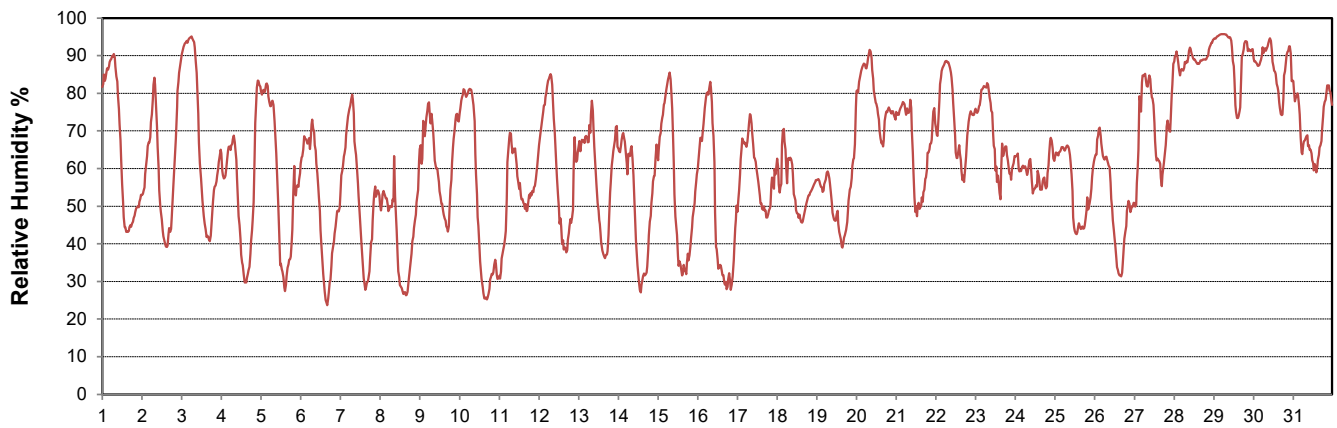
SRC proudly recognizes the following CRS supporters:



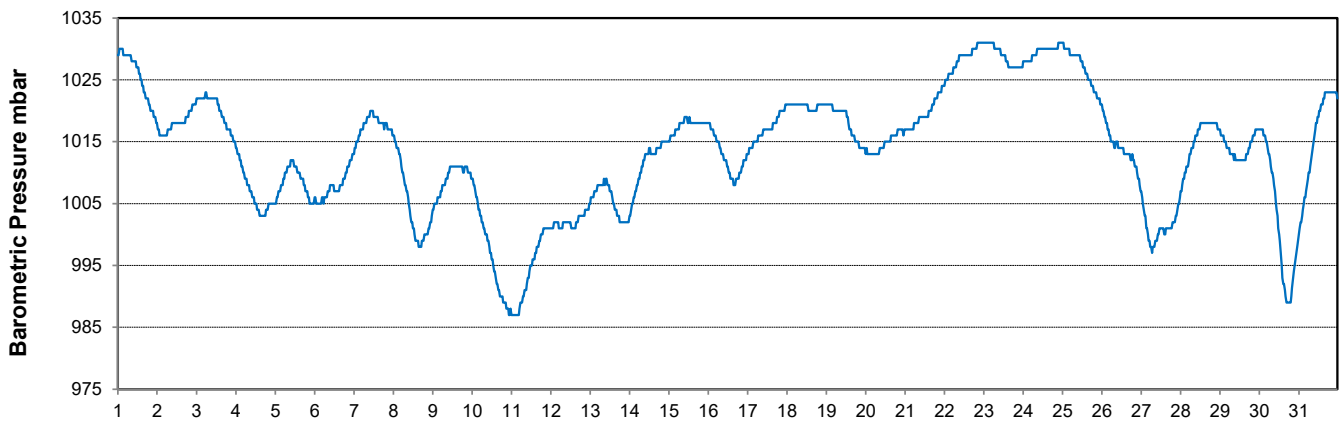
Temperature and Precipitation for October 2020



Relative Humidity for October 2020



Barometric Pressure Corrected to Sea Level for October 2020





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SASKATOON STATION 4057180

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

Preliminary **OCTOBER 2020**

Day	Wind Gust (10 meters)			Wind Speed (10 meters) Daily Average km/h	Soil Temperatures at 0900hrs								Radiation				
	Max km/h	Direction	Time		Surface °C	5 cm °C	10 cm °C	20 cm °C	50 cm °C	100 cm °C	150 cm °C	300 cm °C	Bright Sunshine hours	Possible hours	% Possible	Global MJ/m ²	Diffuse MJ/m ²
1	29.3	SE	23:59	6.6	1.5	4.5	6.5	9.0	12.0	12.5	12.0	11.0	5.6	11.6	48.4	9.2	5.1
2	28.6	SE	0:19	10.1	5.5	7.0	8.0	9.5	11.5	12.5	12.0	11.0	8.0	11.5	69.6	11.7	2.2
3	23.9	S	12:28	7.8	4.0	6.0	7.5	9.0	11.5	12.5	11.5	11.0	7.8	11.4	68.2	11.0	3.8
4	43.3	WNW	19:58	13.8	9.0	8.5	9.5	10.0	11.5	12.0	11.5	10.5	5.8	11.4	51.0	9.5	3.8
5	50.7	W	14:54	19.2	9.5	10.0	11.0	11.5	11.5	12.0	11.5	10.5	7.4	11.3	65.5	10.3	2.5
6	56.0	NW	16:46	19.3	10.0	9.5	10.0	11.0	12.0	12.0	11.5	10.5	6.8	11.2	60.6	9.5	2.8
7	36.7	NW	13:17	11.8	5.0	7.0	8.5	10.5	12.0	12.0	11.5	10.5	10.1	11.2	90.4	11.5	1.4
8	53.4	SSE	10:58	18.7	9.0	9.0	9.5	10.0	11.5	12.0	11.5	10.5	6.4	11.1	57.7	10.1	2.5
9	40.6	NW	1:15	15.5	5.0	8.0	9.5	10.5	11.5	12.0	11.5	10.5	7.2	11.0	65.3	9.5	3.0
10	50.3	SE	4:15	22.8	5.0	6.5	8.0	9.5	11.5	11.5	11.5	10.5	8.9	11.0	81.1	10.8	2.3
11	64.0	WNW	17:06	30.0	9.5	10.5	11.0	11.0	11.0	11.5	11.0	10.5	0.4	10.9	3.7	4.0	3.1
12	54.5	WNW	1:10	23.7	2.0	6.0	7.5	9.5	11.5	11.5	11.0	10.5	8.1	10.8	74.7	9.0	2.2
13	51.9	WNW	17:08	21.6	2.0	5.0	6.5	8.5	10.5	11.5	11.0	10.5	8.9	10.8	82.6	10.6	1.7
14	51.4	WNW	16:06	19.7	-2.5	3.5	5.5	7.5	10.0	11.5	11.0	10.5	9.9	10.7	92.4	11.0	1.7
15	67.2	NW	16:18	24.6	-2.5	2.0	4.0	6.0	9.5	11.0	11.0	10.5	8.5	10.6	79.9	10.2	5.3
16	29.1	WNW	13:13	13.6	-6.5	-1.0	1.5	4.5	9.0	11.0	11.0	10.5	8.7	10.6	82.3	10.1	7.7
17	46.8	NW	15:41	20.1	-8.5	-1.5	0.5	3.0	8.0	10.5	11.0	10.5	3.8	10.5	36.2	6.7	3.7
18	37.8	WNW	11:50	18.4	-5.0	-0.5	1.0	2.5	7.0	10.5	10.5	10.5	2.9	10.4	27.8	6.8	3.7
19	29.5	SSW	14:28	10.8	-5.0	-0.5	1.0	2.5	6.5	10.0	10.5	10.5	4.4	10.4	42.4	7.4	3.5
20	27.9	NNW	13:59	10.6	-6.0	0.0	1.0	2.5	6.0	10.0	10.5	10.5	2.8	10.3	27.2	3.4	2.3
21	26.0	NW	23:30	6.9	-9.5	0.0	1.0	2.5	6.0	9.5	10.0	10.5	6.9	10.3	67.3	8.7	2.4
22	39.8	WNW	13:01	17.9	-10.0	-2.5	-0.5	2.0	5.5	9.5	10.0	10.5	6.7	10.2	65.8	8.6	3.2
23	23.5	WNW	1:38	9.2	-10.5	-4.0	-2.0	0.5	5.0	9.0	10.0	10.5	1.2	10.1	11.9	4.4	3.0
24	32.9	NW	15:21	15.0	-6.5	-3.0	-1.5	0.0	4.5	9.0	10.0	10.0	0.0	10.1	0.0	3.5	2.8
25	36.3	SW	22:20	18.0	-6.0	-3.0	-1.5	0.0	4.0	8.5	9.5	10.0	3.7	10.0	37.0	6.1	2.7
26	34.0	WNW	12:32	15.5	-9.0	-4.5	-3.0	-1.0	4.0	8.5	9.5	10.0	8.4	9.9	84.6	8.6	1.1
27	40.9	W	11:36	18.1	4.0	-1.0	-1.0	-0.5	3.5	8.0	9.5	10.0	0.1	9.9	1.0	3.3	2.6
28	23.3	NNW	0:02	9.3	-1.0	1.5	2.0	2.0	4.0	8.0	9.0	10.0	0.0	9.8	0.0	1.6	1.3
29	28.8	N	20:39	10.5	-3.5	0.0	1.0	2.0	4.5	7.5	9.0	10.0	3.5	9.7	35.9	5.0	2.9
30	54.3	SE	14:09	20.2	-0.5	1.5	2.0	2.5	4.5	7.5	9.0	10.0	0.5	9.7	5.2	2.4	1.9
31	68.7	NW	5:34	23.9	-3.5	1.0	2.0	2.5	4.5	7.5	8.5	10.0	3.4	9.6	35.3	5.2	2.9
Total													166.8	328.0	50.9	239.7	91.1
Mean				16.2	-0.5	2.8	4.1	5.5	8.2	10.4	10.6	10.4	1981-2010 Normal for Radiation				
Extreme	68.7	NW	5:34		1971- 2000 Normal for Soil Temperatures								156.1	329.2	47.4	239.0	97.2
Date	31				4.3	4.7	6.2	8.3	9.2	9.6	9.4	No. of Bright Sunshine days = 29					

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

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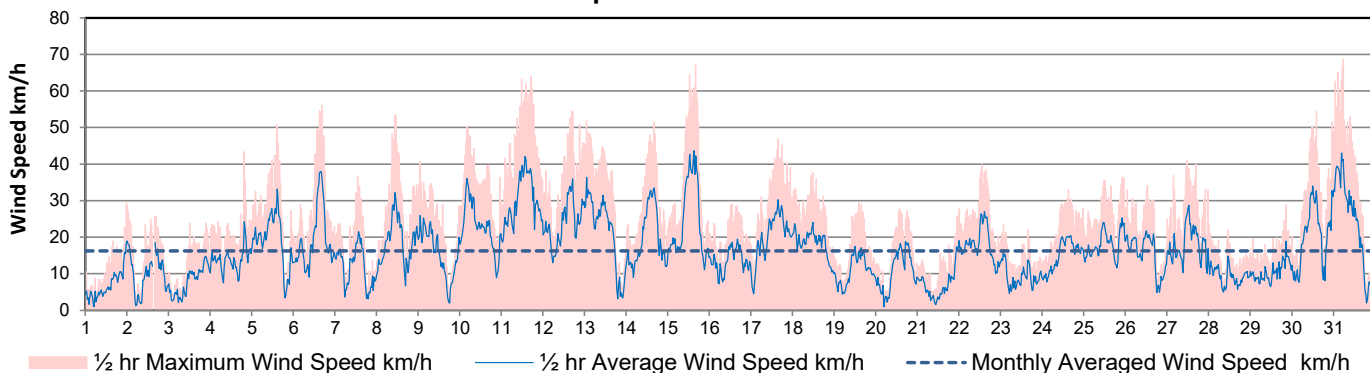


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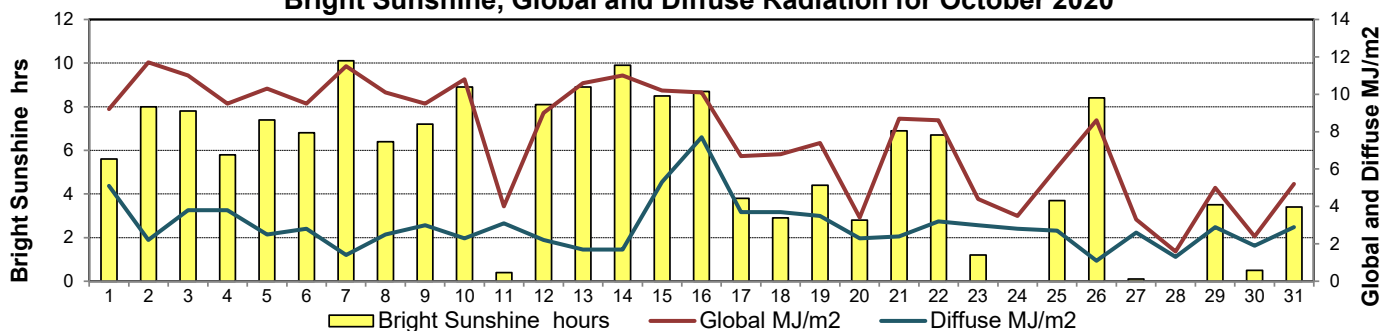
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Wind Speed for October 2020

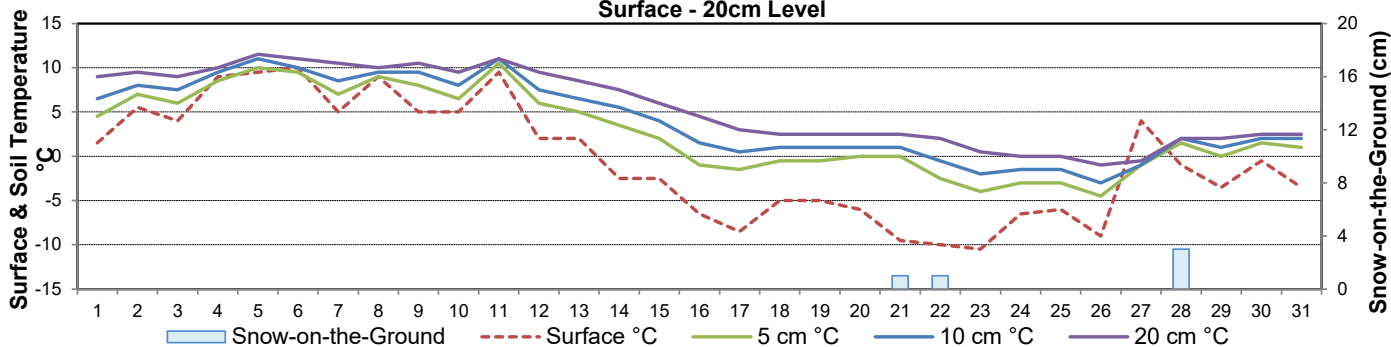


Bright Sunshine, Global and Diffuse Radiation for October 2020



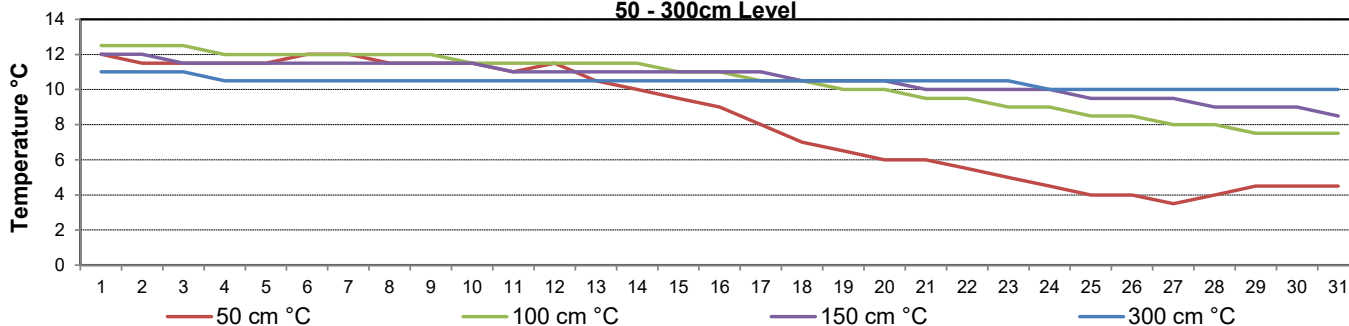
Soil Temperatures for October 2020

Surface - 20cm Level



Soil Temperatures for October 2020

50 - 300cm Level





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Extreme Records for October

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
32.2	05/1943	SA US SF	28.5	06.08/1980,84	72.4	1969	SF	69.8	1969	138 ^{NW}	16/1967	97	1976	231.3	2010	31	1965, 88
-25.6	26/1919	SE US	-21.5	29/1991	0.0	1965*	NRC*	0.0	2000					61.1	2016	19	2016

**1975 forward * more than one year/site

Notable Events for CRS Saskatoon - October						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Lowest Maximum Daily	20	-2.2	-1.7	2002	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
		24	-4.2	-3.5	1991	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Lowest Minimum Daily	23	-12.4	-12.0	1991	S	Saskatoon	1941-1942	na	not available
		26	-11.9	-11.1	2001	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	Precipitation type Day	
						K	S'toon Kernen Farm	1993-2004	Light rain	4
						KCS	S'toon Kernen Farm CS	1996-	Light rain	9
						RCS	Environment Canada	2008-	Light snow	20
						SF	Sutherland Forestry	1943-1970	snow/rain	27
									snow/rain	28
									rain	29

Tipping bucket capped for winter Oct 12
 General fall maintenance: Oct 16
 Geonor set for winter
 Replaced transducer ring in snow depth sensor
 Replaced desiccants where needed.

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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	5.0	12.9	22.9	10.0	8.0	9.0												
2	7.0	14.1	22.9	10.0	8.0	9.0												
3	6.0	9.6	21.2	10.0	8.0	9.0												
4	10.0	18.0	35.0	10.0	8.0	9.0												
5	14.0	24.3	40.8	10.5	8.5	9.0												
6	14.0	28.3	41.4	10.0	8.5	9.0												
7	9.0	16.8	29.3	10.0	8.5	9.0												
8	13.0	19.6	41.4	10.0	8.5	9.0												
9	12.0	19.3	32.7	10.0	8.5	9.0												
10	15.0	25.6	40.2	10.0	8.5	9.0												
11	22.0	31.0	50.6	10.5	8.5	9.5												
12	18.0	26.6	43.7	10.0	8.5	9.0												
13	16.0	26.8	39.6	10.0	8.5	9.0												
14	15.0	25.1	39.1	10.0	7.5	8.5												
15	18.0	32.4	54.6	9.0	8.0	8.5												
16	10.0	15.1	23.5	9.0	7.5	9.0												
17	15.0	23.0	34.4	9.0	7.5	8.5												
18	14.0	18.9	29.8	9.0	8.0	8.5												
19	8.0	13.5	25.8	9.0	7.5	8.5												
20	8.0	14.4	22.4	9.0	7.5	8.0												
21	6.0	13.4	21.8	9.0	7.0	8.5												
22	14.0	20.6	31.6	9.0	7.5	8.5												
23	8.0	12.4	18.9	9.0	7.5	8.0												
24	12.0	15.8	25.2	9.0	7.5	8.0												
25	14.0	19.5	30.4	9.0	7.0	8.5												
26	12.0	16.9	27.5	9.0	7.0	8.0												
27	14.0	21.2	31.6	8.5	7.0	8.0												
28	7.0	11.9	18.3	8.5	7.5	8.0												
29	8.0	13.5	20.0	8.5	7.5	8.5												
30	15.0	24.3	39.6	8.5	7.5	8.5												
31	18.0	52.0	52.0	7.5	7.5	8.0												
Total																		
Mean				9	8	8.6												
Extreme	22.0	52.0	54.6	10.5	8.5	9.5												
Date	11	31	15	5	5	11												

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

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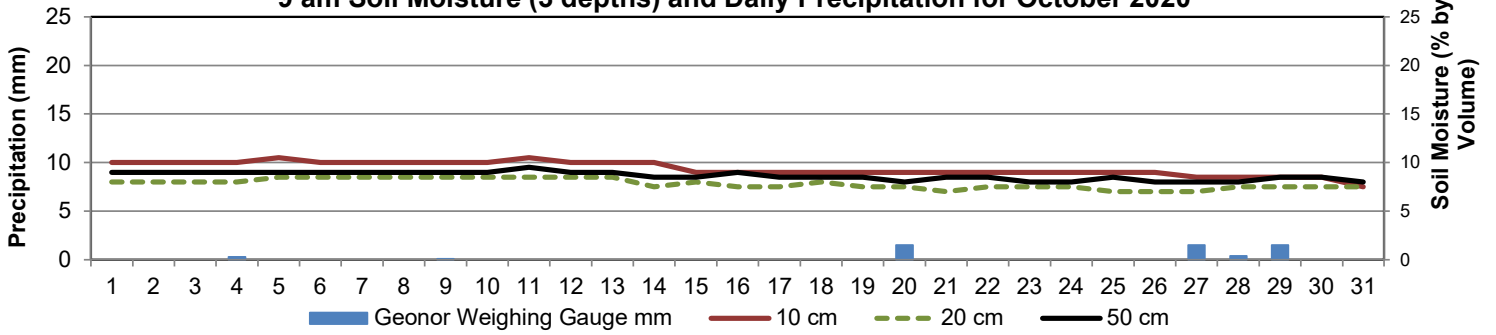


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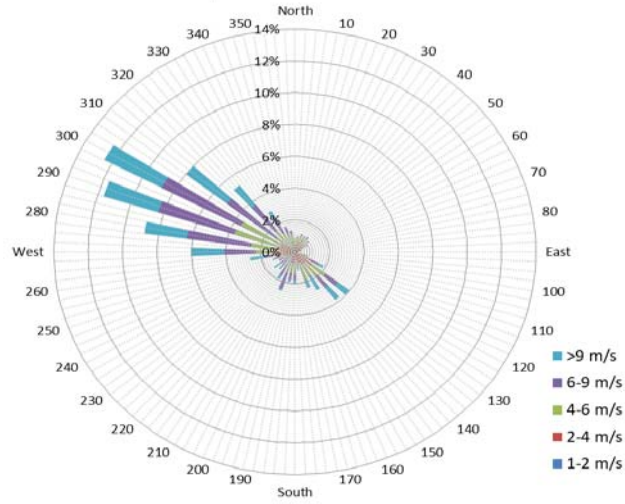
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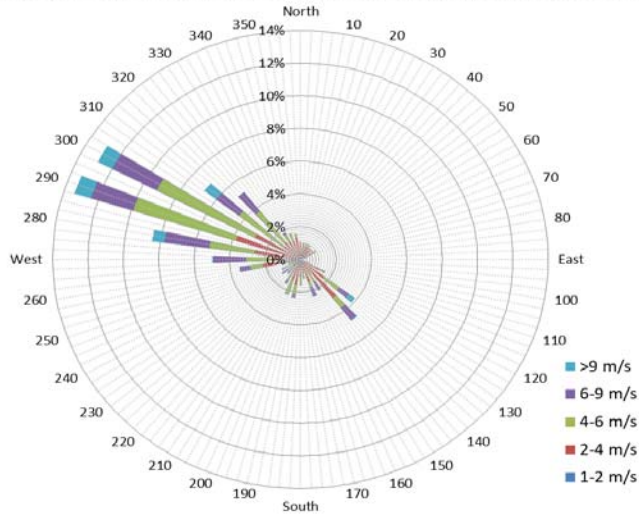
9 am Soil Moisture (3 depths) and Daily Precipitation for October 2020



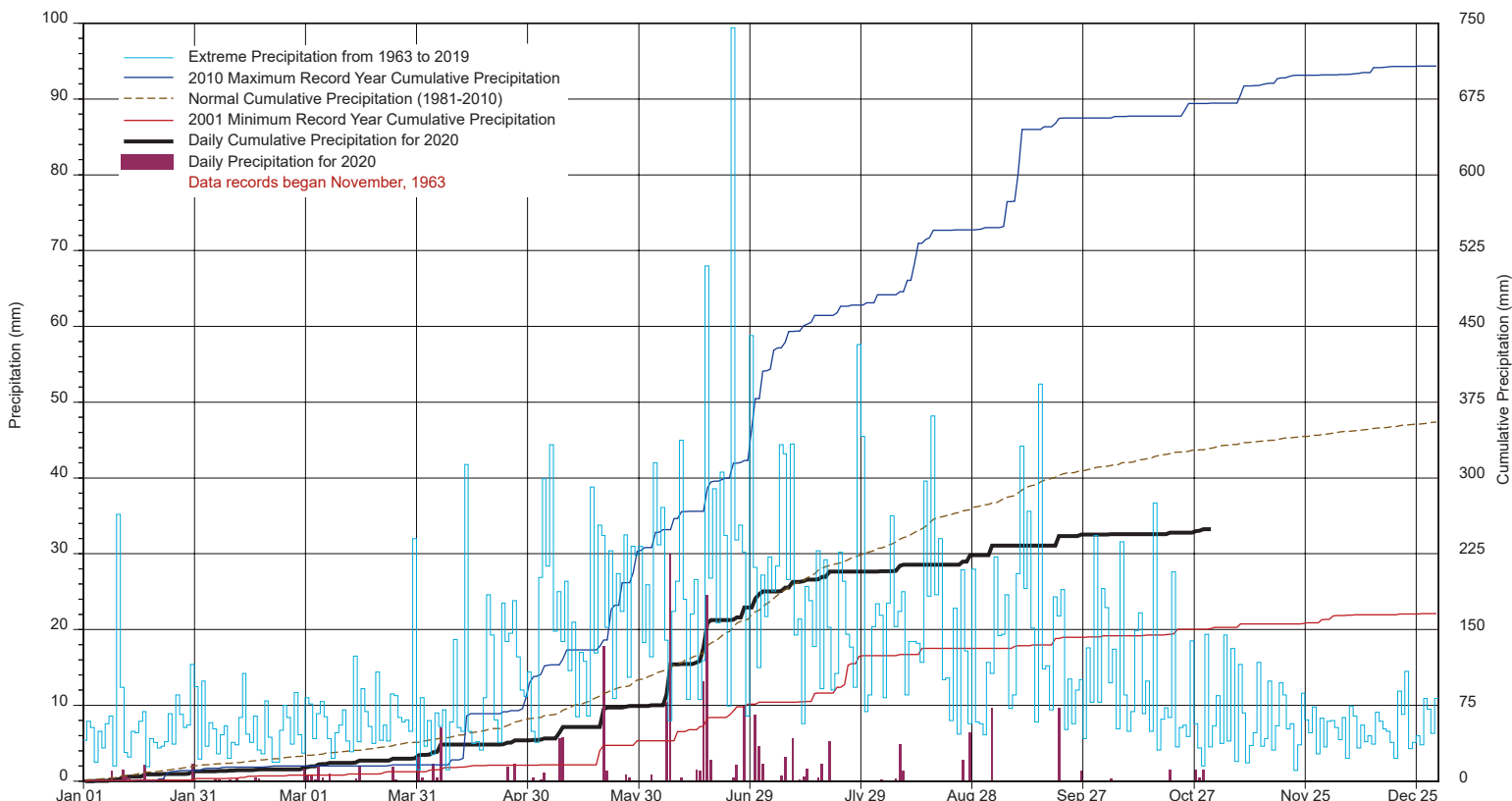
1/2 hr Maximum Wind Speed and Direction Saskatoon Oct 2020



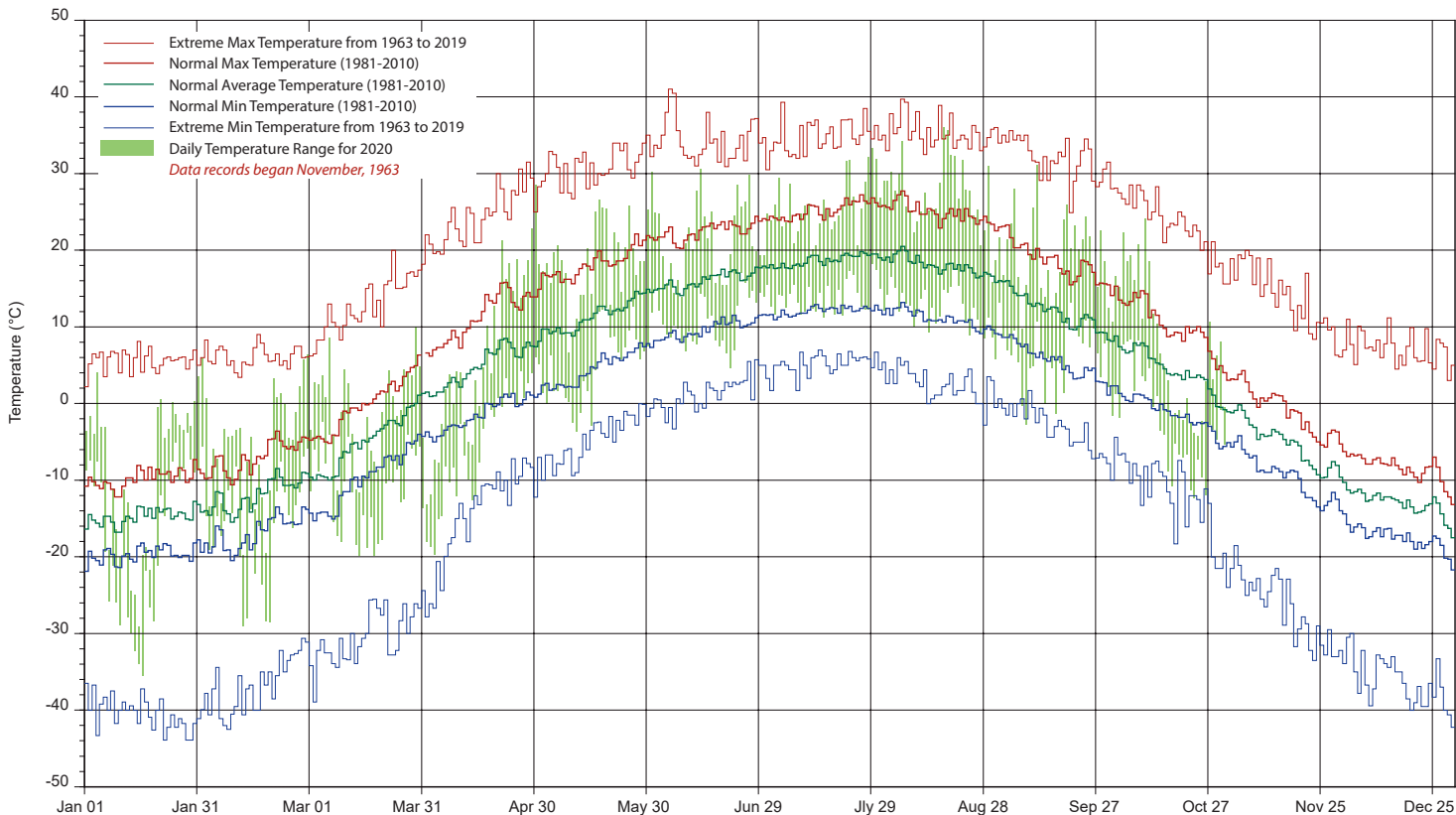
10 minute Average Wind Speed and Direction Saskatoon Oct 2020



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2020 TEMPERATURES AND NORMALS



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