



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary AUGUST 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	Tipping Bucket	Notes	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		%	%	mbar	mbar
1	29.0	25.8	12.1	11.6	20.6	18.7	15.6	0.0	2.6	0.0	0.0		85	25	1024	1021
2	29.0	25.6	14.2	12.4	21.6	19.1	16.6	0.0	3.6	0.0	0.0		74	25	1022	1018
3	30.2	25.3	16.6	11.5	23.4	18.4	18.4	0.0	5.4	0.2	0.2	tstorm	68	26	1018	1011
4	27.7	26.5	15.0	12.4	21.4	19.5	16.4	0.0	3.4	0.0	0.0		75	26	1014	1011
5	30.0	27.2	12.0	12.5	21.0	19.9	16.0	0.0	3.0	0.0	0.0		83	21	1015	1010
6	34.2	27.7	14.5	13.2	24.4	20.5	19.4	0.0	6.4	0.0	0.0		69	19	1010	1003
7	25.7	27.1	13.0	12.6	19.4	19.9	14.4	0.0	1.4	0.3	0.6	shower	78	37	1005	1001
8	25.1	25.0	12.8	12.0	19.0	18.5	14.0	0.0	1.0	4.9	4.0	shower	90	26	1010	1005
9	22.2	25.1	10.0	11.4	16.1	18.3	11.1	1.9	0.0	1.3	1.6	shower	91	31	1010	1009
10	23.7	26.3	11.7	12.2	17.7	19.3	12.7	0.3	0.0	0.0	0.0		67	29	1009	1007
11	25.0	24.7	13.6	12.0	19.3	18.4	14.3	0.0	1.3	0.0	0.0		63	22	1012	1009
12	27.5	24.7	14.9	10.7	21.2	17.7	16.2	0.0	3.2	0.0	0.2	shower	62	32	1010	1002
13	25.2	25.4	9.3	10.9	17.3	18.1	12.3	0.7	0.0	0.0	0.0		85	22	1013	1011
14	25.4	25.2	12.6	10.8	19.0	18.0	14.0	0.0	1.0	0.0	0.0		75	26	1014	1012
15	25.4	24.7	10.5	10.8	18.0	17.8	13.0	0.0	0.0	0.0	0.0		80	27	1016	1013
16	28.8	22.9	11.4	10.9	20.1	16.9	15.1	0.0	2.1	0.0	0.0		85	30	1020	1016
17	36.0	24.1	14.8	10.6	25.4	17.4	20.4	0.0	7.4	0.0	0.0		72	13	1020	1015
18	35.6	24.8	14.5	11.4	25.1	18.2	20.1	0.0	7.1	0.0	0.0		79	14	1015	1010
19	32.3	25.4	15.2	11.3	23.8	18.3	18.8	0.0	5.8	0.0	0.0		73	28	1010	1008
20	32.2	24.4	17.4	10.5	24.8	17.5	19.8	0.0	6.8	0.0	0.0		83	28	1009	1005
21	26.7	25.3	15.3	10.8	21.0	18.1	16.0	0.0	3.0	0.0	0.0		84	41	1009	1005
22	31.7	23.8	13.0	10.8	22.4	17.3	17.4	0.0	4.4	0.0	0.0		93	24	1014	1005
23	27.9	25.4	10.6	10.6	19.3	18.1	14.3	0.0	1.3	0.0	0.0		83	20	1016	1013
24	27.7	24.4	8.9	10.9	18.3	17.7	13.3	0.0	0.3	0.0	0.0		87	23	1015	1009
25	24.4	24.2	12.5	9.9	18.5	17.0	13.5	0.0	0.5	2.8	2.6	t-storm	90	40	1011	1006
26	25.3	23.4	11.0	9.4	18.2	16.4	13.2	0.0	0.2	0.0	0.0		91	29	1012	1011
27	20.6	23.9	9.3	9.1	15.0	16.6	10.0	3.0	0.0	6.4	5.2	t-storm	89	48	1013	1011
28	22.5	24.4	8.5	9.7	15.5	17.1	10.5	2.5	0.0	0.0	0.0		90	31	1017	1013
29	31.0	23.6	11.2	10.1	21.1	16.9	16.1	0.0	3.1	0.0	0.0		74	20	1013	1000
30	15.8	23.4	8.6	9.6	12.2	16.6	7.2	5.8	0.0	0.0	0.0		70	36	1006	1005
31	18.6	22.5	5.8	9.1	12.2	15.8	7.2	5.8	0.0	0.0	0.0		77	23	1008	1000
Total							457.3	20.0	74.3	15.9	14.4		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	27.2	24.9	12.3	11.0	19.8	18.0	1981-2010 Normal			46.5	Normal					
Extreme	36.0		5.8				402.8	50.0	49.8	223.5	Cumulative		93	13	1024	1000
Date	17		31							273.0	Cumulative No		22	17	1	29

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

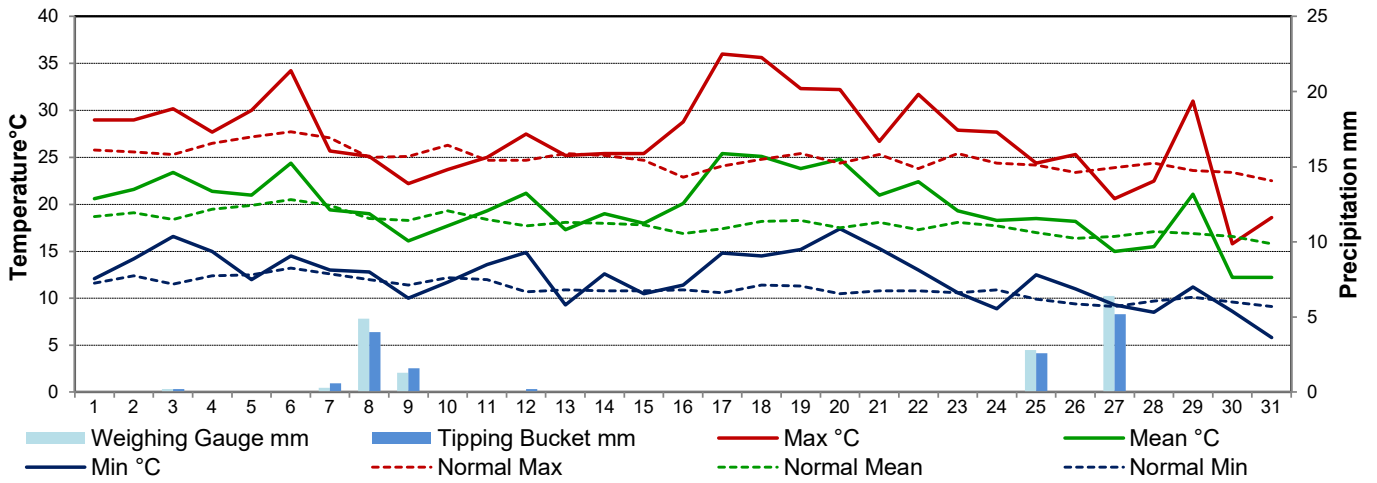
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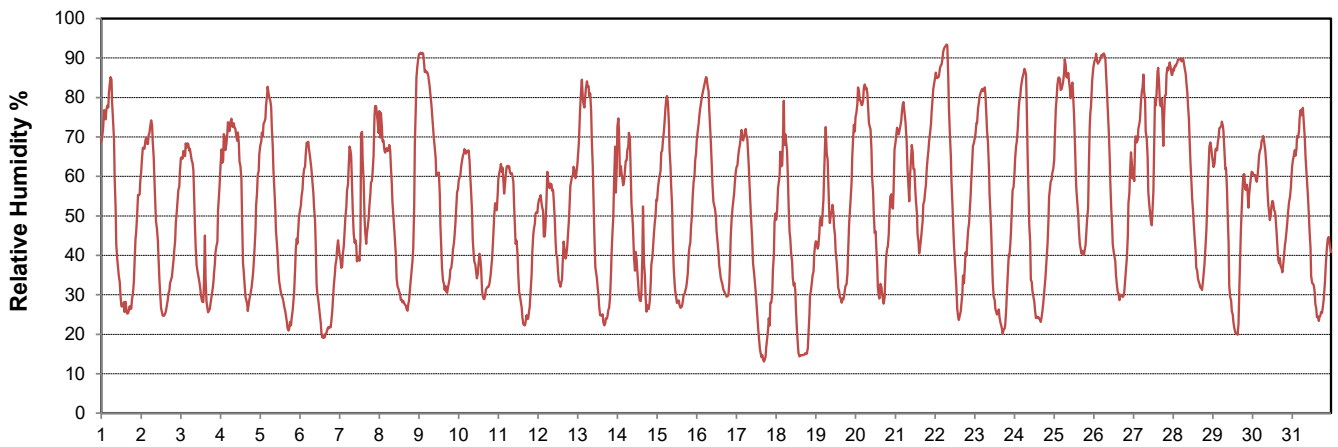
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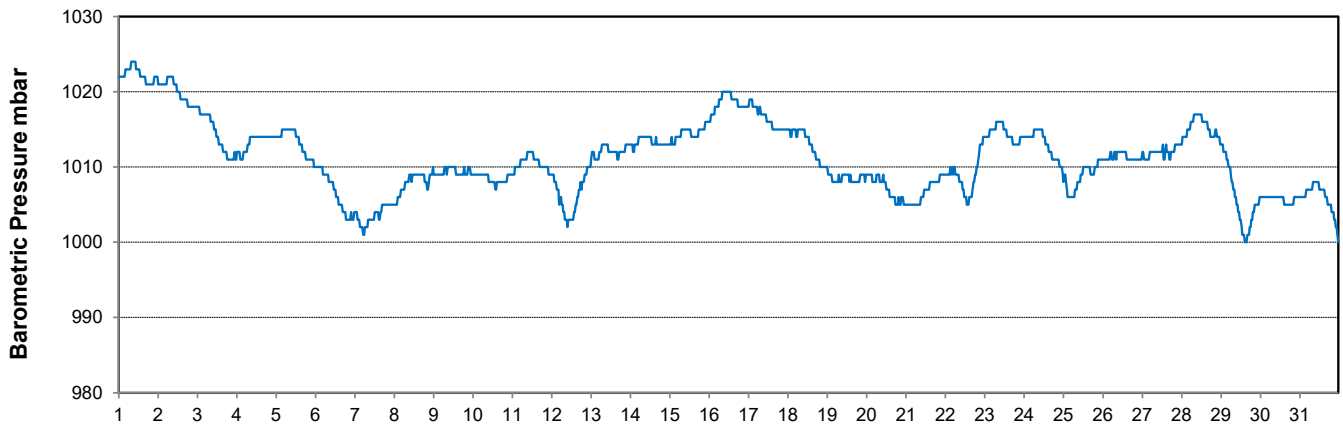
### Temperature and Precipitation for August 2020



### Relative Humidity for August 2020



### Barometric Pressure Corrected to Sea Level for August 2020





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**SASKATOON STATION 4057180**

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

Preliminary **AUGUST 2020**

Day	Wind Gust (10 meters)			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 <sup>2</sup>	MJ/m <sup>2</sup>
1	25.6	SE	23:20	7.3	21.0	20.5	21.5	22.5	20.0	15.5	12.5	9.0	13.7	15.5	88.7	23.7	4.4
2	32.7	S	14:30	14.0	20.5	21.0	22.0	22.5	20.0	15.5	12.5	9.0	9.5	15.4	61.7	21.2	5.6
3	56.2	SE	17:58	23.3	22.0	21.0	22.0	22.5	20.0	16.0	12.5	9.0	12.6	15.3	82.1	22.5	4.7
4	42.0	NW	15:27	13.9	18.0	21.0	22.0	22.0	20.0	16.0	12.5	9.5	9.7	15.3	63.5	19.6	4.9
5	23.8	WSW	11:11	7.7	19.5	19.0	20.0	21.0	19.5	16.0	12.5	9.5	14.8	15.2	97.2	25.2	1.9
6	41.5	SE	17:40	16.2	22.0	20.0	21.0	22.0	19.5	16.0	13.0	9.5	14.0	15.2	92.3	23.4	3.7
7	67.1	SW	16:00	23.2	24.0	22.5	23.0	23.0	20.0	16.0	13.0	9.5	6.6	15.1	43.7	15.3	5.3
8	66.9	W	1:09	27.7	17.5	18.5	19.5	20.5	19.5	16.0	13.0	9.5	12.3	15.1	81.7	23.9	2.8
9	66.7	W	15:36	26.9	13.5	16.5	18.5	20.0	19.0	16.0	13.0	9.5	10.0	15.0	66.7	18.8	5.9
10	64.4	WNW	15:58	25.1	18.5	14.5	16.0	17.5	18.5	16.0	13.0	9.5	14.3	14.9	95.7	24.5	3.5
11	27.2	E	23:48	10.9	14.5	16.0	17.0	18.0	18.0	16.0	13.0	10.0	9.8	14.9	65.9	19.1	5.8
12	57.3	ESE	15:17	21.1	18.5	17.5	18.0	19.0	18.0	16.0	13.0	10.0	6.4	14.8	43.2	16.3	7.0
13	27.6	NNW	4:48	7.7	14.0	16.0	17.5	18.5	18.0	16.0	13.0	10.0	10.0	14.8	67.8	21.4	3.8
14	46.4	WSW	15:21	11.7	18.5	17.5	18.5	19.0	18.0	15.5	13.0	10.0	10.5	14.7	71.4	19.6	4.5
15	45.0	WNW	14:30	14.2	17.0	16.5	17.5	19.0	18.0	15.5	13.0	10.0	12.0	14.6	82.0	22.4	3.5
16	24.4	WNW	13:02	8.0	17.5	17.0	18.0	19.0	18.0	15.5	13.0	10.0	13.3	14.6	91.3	21.9	2.9
17	34.8	NNW	19:53	8.9	22.0	19.0	19.5	20.0	18.0	15.5	13.0	10.0	11.0	14.5	75.8	21.7	3.5
18	25.5	WNW	16:37	7.6	22.5	19.5	20.5	21.0	18.5	15.5	13.0	10.0	13.8	14.5	95.5	22.6	2.1
19	37.5	NW	8:55	12.2	22.0	21.0	22.0	22.0	19.0	15.5	13.0	10.0	11.3	14.4	78.5	20.0	4.1
20	30.6	E	22:00	11.3	21.0	22.0	22.5	22.5	19.5	16.0	13.0	10.5	7.9	14.3	55.1	16.2	6.2
21	39.3	W	16:00	16.2	21.0	22.0	23.0	23.0	20.0	16.0	13.0	10.5	8.7	14.3	61.0	18.5	4.4
22	53.3	W	17:11	17.5	19.5	21.0	21.5	22.0	20.0	16.0	13.0	10.5	10.1	14.2	71.1	18.0	5.4
23	35.0	WSW	12:54	11.6	17.0	18.5	19.5	21.0	20.0	16.5	13.5	10.5	12.7	14.1	89.8	21.7	3.6
24	39.7	ENE	17:51	15.7	18.0	18.0	19.5	21.0	19.5	16.5	13.5	10.5	12.3	14.1	87.4	20.7	3.1
25	48.6	ESE	4:15	16.7	17.0	19.0	20.5	21.0	19.5	16.5	13.5	10.5	7.8	14.0	55.7	14.7	4.5
26	19.7	WSW	14:10	4.8	16.0	16.5	17.5	19.0	19.0	16.5	13.5	10.5	9.3	13.9	66.7	16.3	5.2
27	41.8	N	13:46	10.6	16.5	15.5	17.0	18.5	18.5	16.5	13.5	10.5	4.7	13.9	33.9	7.1	4.0
28	35.3	NW	13:59	12.8	12.5	12.5	14.0	16.0	17.5	16.0	13.5	10.5	12.4	13.8	89.7	20.5	2.1
29	51.5	NW	16:43	23.5	16.5	13.5	15.0	16.0	17.0	16.0	13.5	10.5	10.2	13.8	74.2	18.1	4.1
30	57.8	NW	17:09	22.8	11.5	13.5	15.0	16.5	17.0	16.0	13.5	10.5	4.5	13.7	32.9	10.7	5.1
31	53.2	W	15:23	22.3	9.5	11.5	13.0	14.5	16.5	15.5	13.5	10.5	12.7	13.6	93.2	20.8	2.2
Total													328.9	451.4	72.9	606.4	129.8
Mean				15.3	18.0	18.0	19.1	20.0	18.8	15.9	13.1	10.0	1981-2010 Normal for Radiation				
Extreme	67.1	SW	16:00		1971-2000 Normal for Soil Temperatures								271.3	452.5	60.0	542.1	182.4
Date	7				16.5	16.9	18.1	16.8	14.1	12.3	9.1	No. of Bright Sunshine days = 31					

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

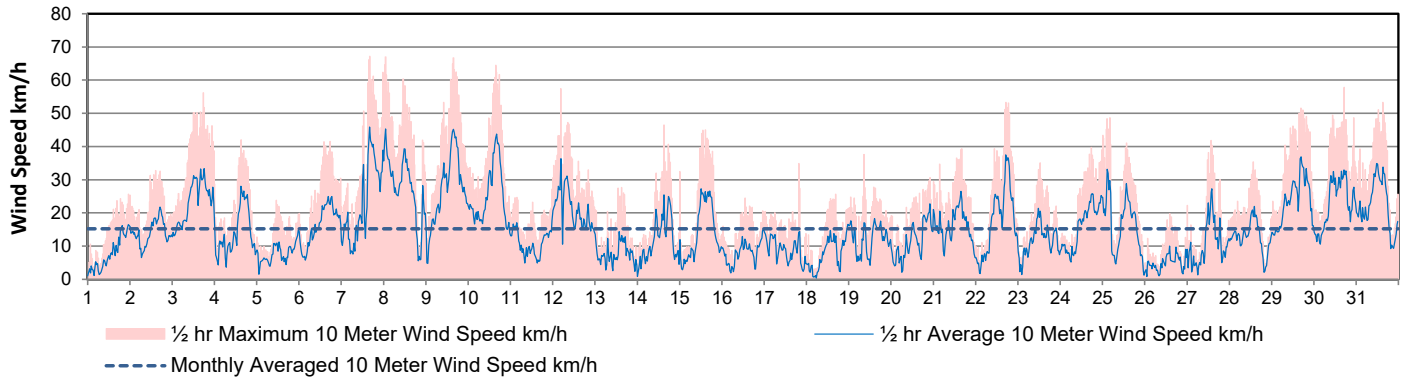
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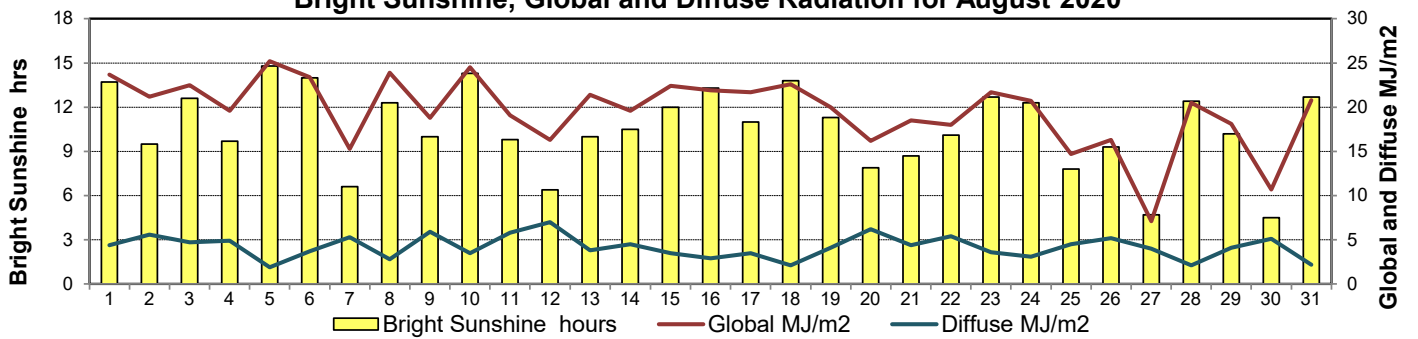
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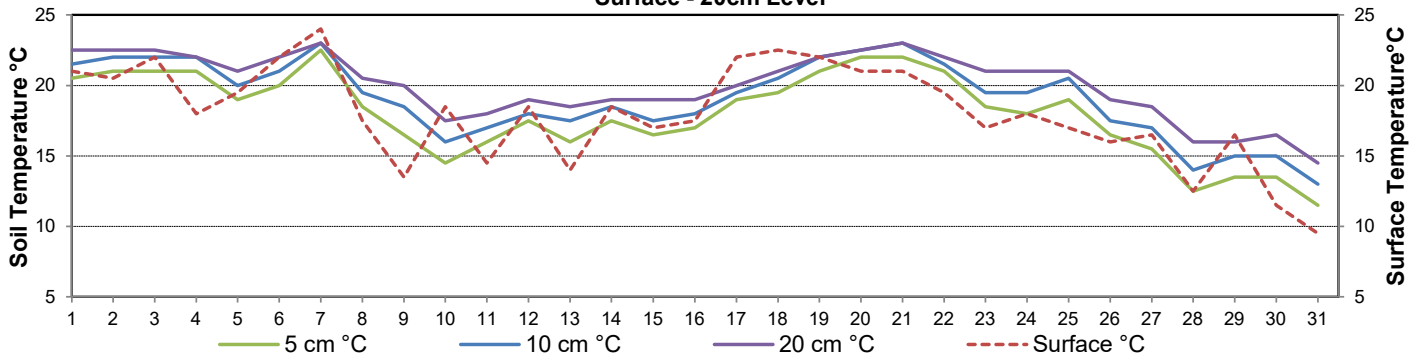
### Wind Speed for August 2020



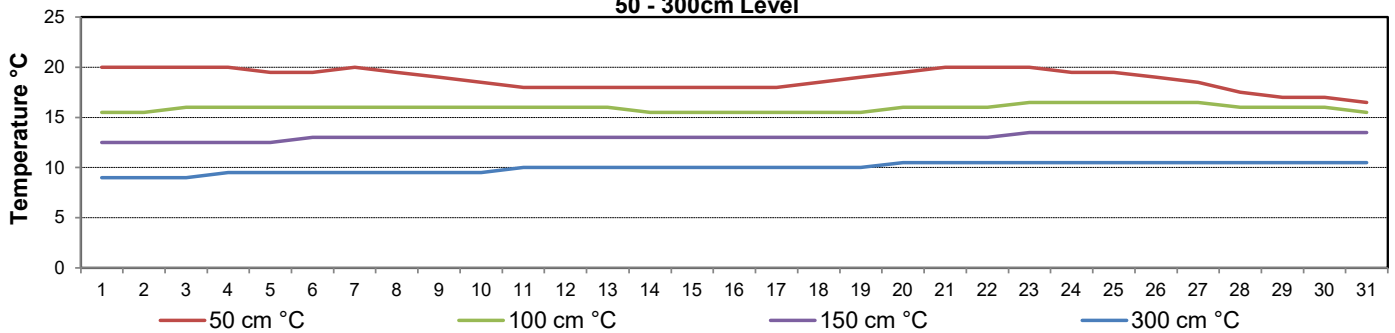
### Bright Sunshine, Global and Diffuse Radiation for August 2020



### Soil Temperatures for August 2020 Surface - 20cm Level



### Soil Temperatures for August 2020 50 - 300cm Level





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Preliminary AUGUST 2020

Extreme Records for August

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
39.7	06/1998	SRC	39.7	06/1998	229.8	1953	SF	105.2	2007					360.8	1969	31	1966*
-2.8	23/1901 28/1976	SM SRC	-2.8	28/1976	0.0	1986	SC	7.0	2001	151 <sup>W</sup>	14/1967	129	1985	200.8	1987	27	1992*

\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - August						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	Normal	Trace of precipitation
Temperature	Highest Maximum Daily	17	36	34.5	1984	SE	Eby	1901-1941	SOG	Depth of snow-on-the-ground in cm
		18	35.6	35.0	1984	US	Univ. of Sask.	1915-1964		
	Highest Mean Daily	17	25.4	23.6	2003	S	Saskatoon	1941-1942	na	not available
						SA	Saskatoon A	1942 -	<b>Degree-days</b>	
Growing Degree-days	Highest Daily	17	20.4	18.6	2003	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
Cooling Degree-days	Highest Daily	17	7.4	5.6	2003	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
Extreme Cooling Degree-days	Highest Daily	17	1.4	0	1964	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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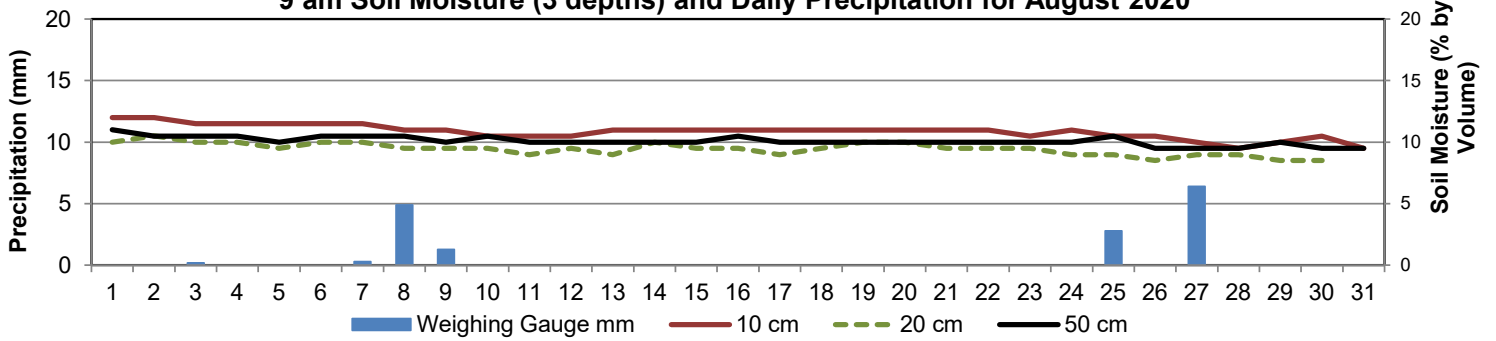
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)																	
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm															
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))																	
1	5.0	11.9	20.6	12.0	10.0	11.0															
2	10.0	16.5	27.0	12.0	10.5	10.5															
3	15.0	22.0	44.8	11.5	10.0	10.5															
4	10.0	20.9	33.3	11.5	10.0	10.5															
5	6.0	10.0	21.2	11.5	9.5	10.0															
6	11.0	17.2	33.3	11.5	10.0	10.5															
7	17.0	34.9	50.6	11.5	10.0	10.5															
8	20.0	33.1	57.5	11.0	9.5	10.5															
9	20.0	32.7	52.9	11.0	9.5	10.0															
10	18.0	31.0	50.6	10.5	9.5	10.5															
11	9.0	13.7	21.8	10.5	9.0	10.0															
12	16.0	27.3	45.4	10.5	9.5	10.0															
13	6.0	12.0	22.4	11.0	9.0	10.0															
14	9.0	19.9	36.8	11.0	10.0	10.0															
15	10.0	20.1	37.9	11.0	9.5	10.0															
16	6.0	11.3	20.6	11.0	9.5	10.5															
17	7.0	10.1	27.0	11.0	9.0	10.0															
18	6.0	12.2	22.4	11.0	9.5	10.0															
19	9.0	14.6	28.1	11.0	10.0	10.0															
20	9.0	16.1	25.2	11.0	10.0	10.0															
21	12.0	20.2	33.9	11.0	9.5	10.0															
22	13.0	26.9	42.5	11.0	9.5	10.0															
23	9.0	17.1	29.3	10.5	9.5	10.0															
24	12.0	18.7	32.1	11.0	9.0	10.0															
25	12.0	24.5	35.6	10.5	9.0	10.5															
26	3.0	9.7	17.7	10.5	8.5	9.5															
27	8.0	19.8	33.3	10.0	9.0	9.5															
28	10.0	17.1	26.4	9.5	9.0	9.5															
29	17.0	27.3	41.9	10.0	8.5	10.0															
30	17.0	24.7	42.5	10.5	8.5	9.5															
31	17.0	42.0	42.0	9.5	9.0	9.5															
Total																					
Mean				11	9	10.1															
Extreme	20.0	42.0	57.5	12	10.5	11															
Date	8	31	8	1	2	1															

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

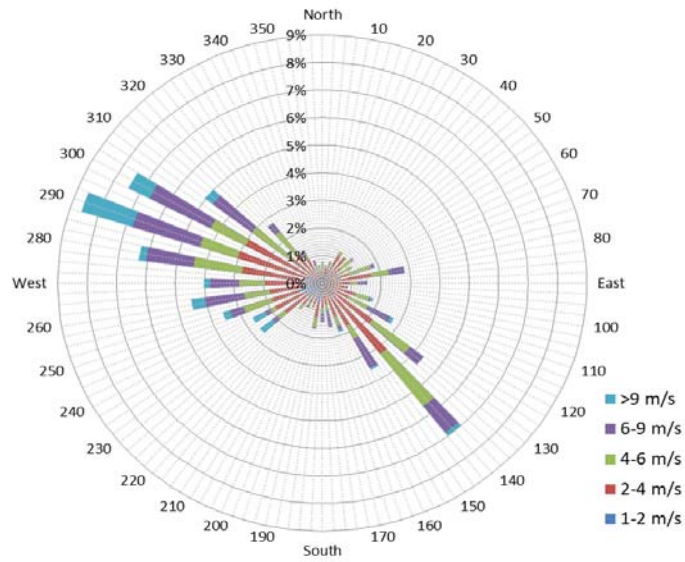
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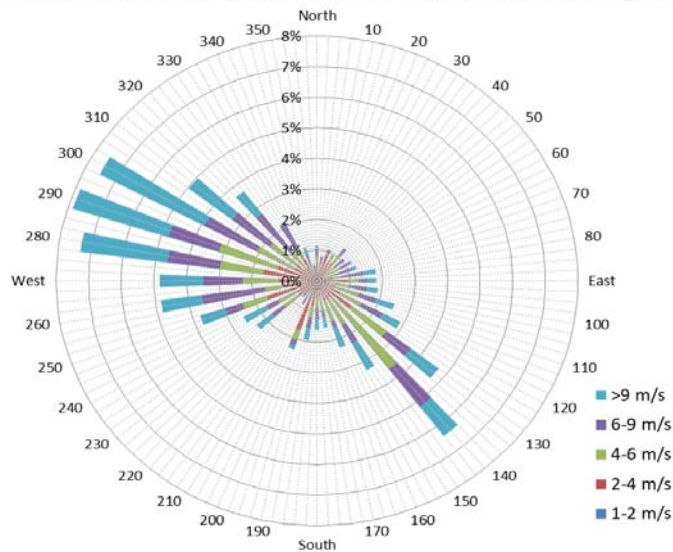
9 am Soil Moisture (3 depths) and Daily Precipitation for August 2020



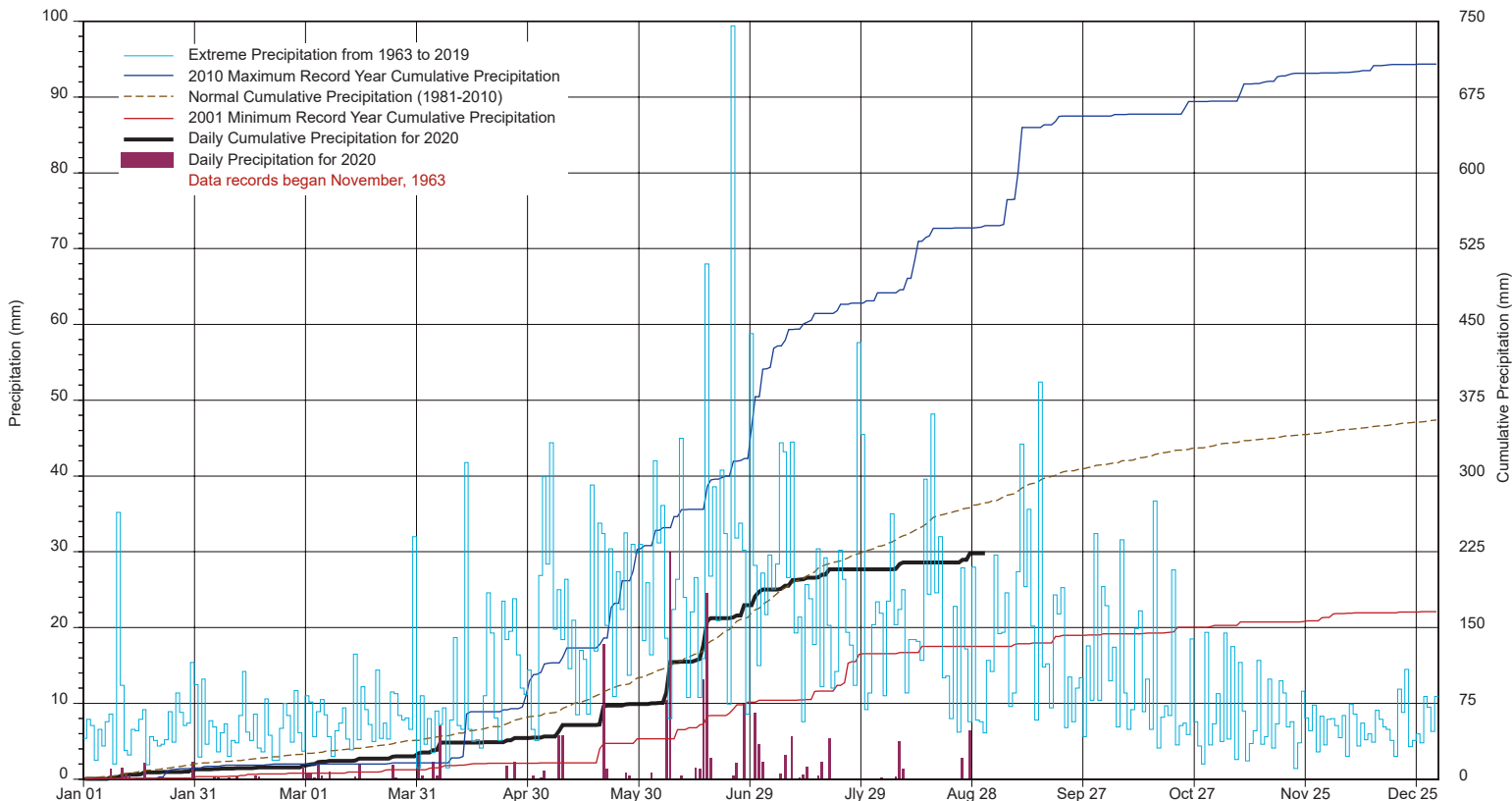
10 minute Average Wind Speed and Direction Saskatoon Aug 2020



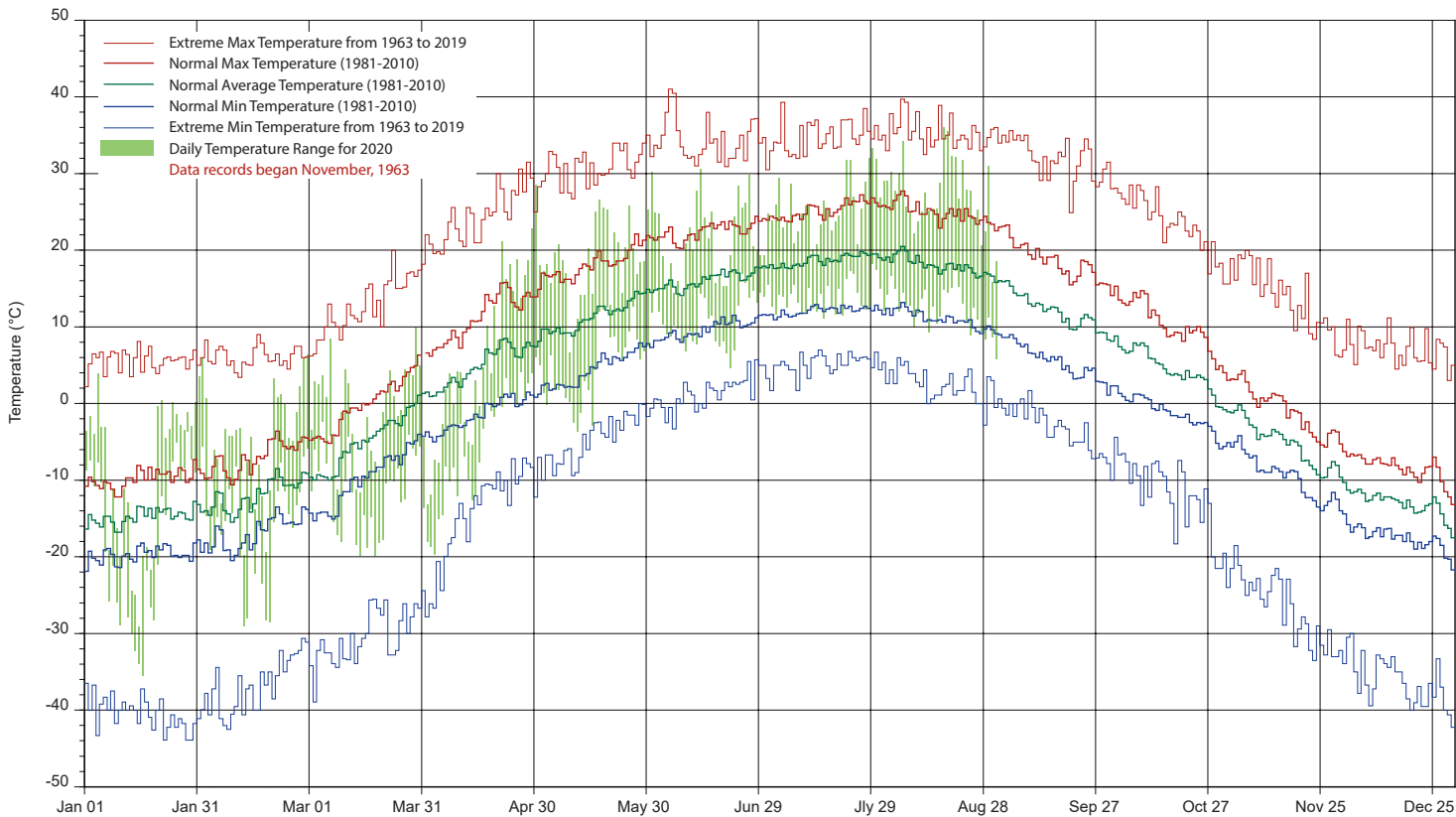
1/2 hr Maximum Wind Speed and Direction Saskatoon Aug 2020



# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2020 PRECIPITATION AND NORMALS



## 2020 TEMPERATURES AND NORMALS



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