



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 2019**

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	-14.7	-4.8	-27.6	-14.3	-21.2	-9.6	0.0	39.2	0.0	0.0		16	85	63	1034	1016
2	-21.1	-4.5	-30.8	-15.3	-26.0	-10.0	0.0	44.0	0.0	0.0		16	73	65	1035	1030
3	-15.4	-4.3	-23.4	-14.3	-19.4	-9.3	0.0	37.4	0.0	0.0		14	69	62	1030	1025
4	-9.8	-4.6	-17.9	-14.2	-13.9	-9.5	0.0	31.9	0.0	0.0		14	70	62	1024	1019
5	-8.2	-5.0	-17.2	-14.2	-12.7	-9.6	0.0	30.7	0.0	0.0		14	79	60	1024	1021
6	-7.8	-5.2	-24.5	-14.7	-16.2	-10.0	0.0	34.2	0.0	0.0		14	84	57	1028	1022
7	-10.5	-4.1	-22.4	-15.1	-16.5	-9.6	0.0	34.5	0.0	0.2		14	83	68	1022	1008
8	-8.2	-4.2	-13.5	-14.7	-10.9	-9.5	0.0	28.9	0.0	0.0		14	89	67	1007	1004
9	-6.0	-2.1	-13.9	-12.0	-10.0	-7.1	0.0	28.0	0.0	0.0		14	87	63	1014	1005
10	-6.0	-1.0	-20.0	-11.5	-13.0	-6.3	0.0	31.0	0.0	0.2		13	87	59	1019	1015
11	0.0	-1.2	-13.1	-11.5	-6.6	-6.4	0.0	24.6	0.0	0.0		14	84	59	1015	999
12	3.2	-0.6	-4.2	-9.9	-0.5	-5.3	0.0	18.5	0.0	0.0		14	87	62	1003	995
13	3.4	-0.6	-3.7	-9.6	-0.2	-5.1	0.0	18.2	0.0	0.0		12	87	58	1019	1003
14	1.7	-0.9	-8.3	-10.9	-3.3	-5.9	0.0	21.3	0.0	0.0		11	84	66	1021	1019
15	2.6	0.0	-9.6	-9.5	-3.5	-4.8	0.0	21.5	0.0	0.0		11	91	55	1021	1019
16	3.4	-0.2	-7.1	-9.7	-1.9	-5.0	0.0	19.9	0.0	0.0		8	83	53	1023	1020
17	3.8	0.0	-10.3	-8.9	-3.3	-4.5	0.0	21.3	0.0	0.0		3	87	50	1026	1021
18	5.4	0.6	-2.2	-8.9	1.6	-4.2	0.0	16.4	0.0	0.0	discontinuous snow cover	1	86	57	1021	1018
19	8.1	1.2	-2.2	-8.3	3.0	-3.6	0.0	15.0	0.0	0.0		0	86	54	1021	1016
20	12.1	1.6	-2.2	-8.3	5.0	-3.3	0.0	13.0	0.0	0.0		0	90	48	1020	1017
21	11.5	1.5	-2.4	-7.0	4.6	-2.8	0.0	13.4	0.0	0.0		0	93	47	1022	1017
22	15.5	2.5	-1.0	-6.8	7.3	-2.2	2.3	10.7	0.0	0.0		0	90	41	1020	1011
23	9.1	2.9	-1.6	-7.4	3.8	-2.2	0.0	14.2	0.0	0.0		0	96	58	1026	1011
24	1.8	1.6	-5.3	-6.8	-1.8	-2.6	0.0	19.8	0.0	0.0		0	83	52	1029	1026
25	6.5	2.3	-7.8	-8.0	-0.7	-2.9	0.0	18.7	0.0	0.0		0	85	33	1028	1015
26	14.2	3.5	-0.3	-6.7	7.0	-1.6	2.0	11.0	0.0	0.3	rain	0	97	46	1015	1005
27	3.9	4.1	-2.0	-5.1	1.0	-0.5	0.0	17.0	0.0	3.2	rain/snow	0	97	56	1022	1005
28	7.5	4.7	-4.8	-5.3	1.4	-0.3	0.0	16.6	0.0	0.0		0	89	42	1025	1019
29	4.0	4.9	-2.5	-4.9	0.8	0.0	0.0	17.2	0.0	0.0		0	83	46	1028	1019
30	12.6	6.3	-3.9	-4.0	4.4	1.1	0.0	13.6	0.0	0.0		0	81	34	1027	1019
31	5.1	6.8	-2.6	-4.3	1.3	1.3	0.0	16.7	0.0	0.0		0	84	34	1027	1020
Total							4.3	698.4	0.0	3.9			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	0.9	0.0	-9.9	-9.7	-4.5	-4.9	1981-2010 Normal			13.8	Normal					
Extreme Date	15.5		-30.8				3.0	708.8	0.0	26.5	Cumulative		97	33	1035	995
	22		2							38.6	Cumulative No		26	25	2	12

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

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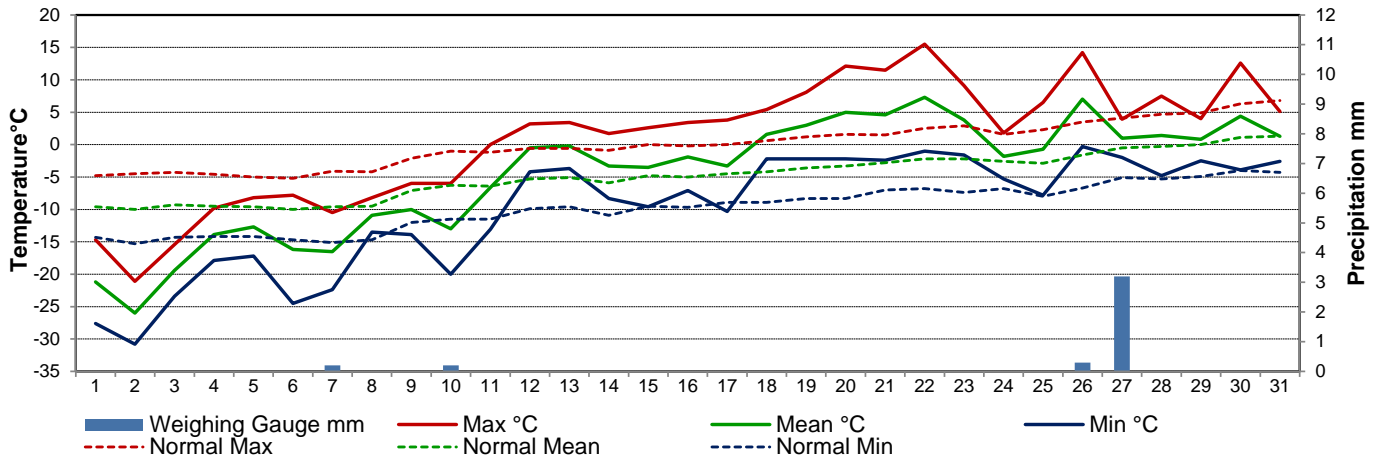
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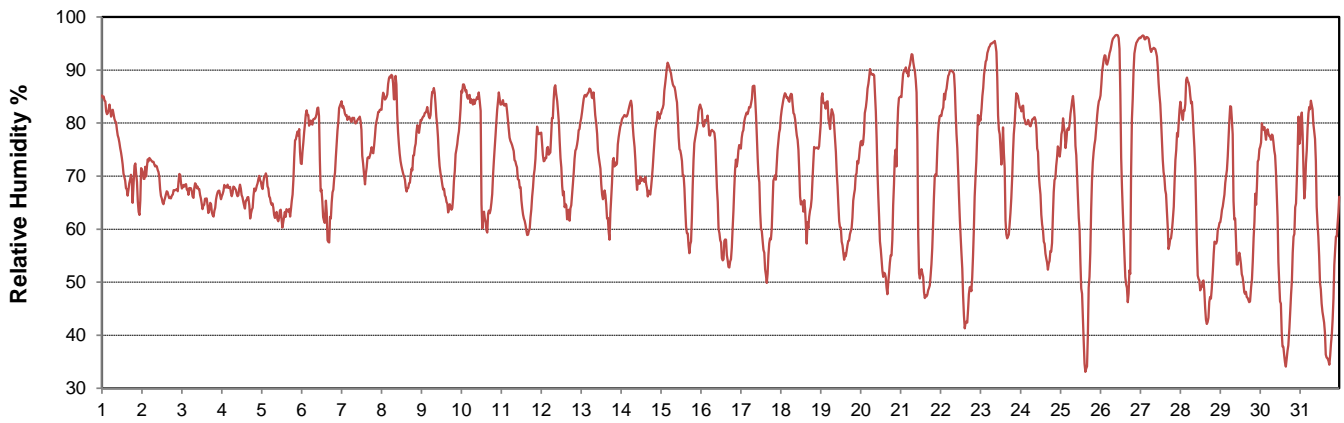
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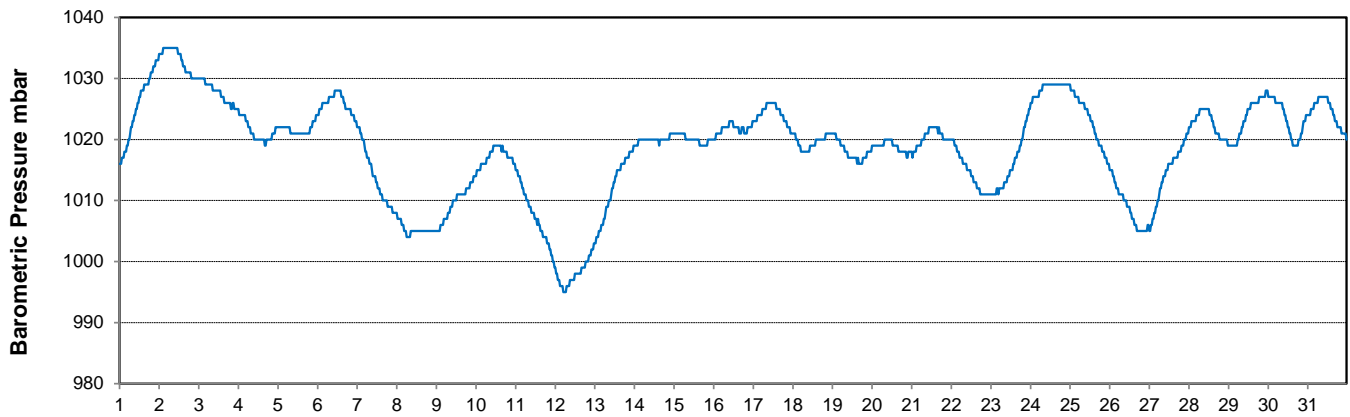
Temperature and Precipitation for March 2019



Relative Humidity for March 2019



Barometric Pressure Corrected to Sea Level for March 2019





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 2019**

Day	Wind Gust			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	35.4	N	9:53	-16.5	-6.0	-6.0	-5.5	-3.5	-0.5	0.5	3.0	9.2	10.9	84.5	12.3	5.1
2	46.6	WNW	16:29	-25.0	-6.0	-6.0	-5.5	-3.5	-0.5	0.5	3.0	10.5	11.0	95.8	14.6	2.6
3	46.3	WNW	15:24	-19.0	-6.5	-6.5	-6.0	-3.5	-0.5	0.5	3.0	7.7	11.0	69.8	11.7	4.6
4	49.3	NW	16:31	-15.0	-7.0	-6.5	-6.0	-3.5	-0.5	0.5	3.0	4.0	11.1	36.1	9.6	5.8
5	40.9	WNW	12:23	-10.0	-6.5	-6.5	-6.0	-3.5	-0.5	0.5	3.0	10.2	11.2	91.4	13.9	1.8
6	13.5	S	19:43	-19.0	-6.5	-6.0	-6.0	-3.5	-0.5	0.5	3.0	7.4	11.2	65.9	12.6	3.9
7	28.7	SE	15:51	-18.0	-6.5	-6.0	-6.0	-3.5	-0.5	0.5	3.0	7.2	11.3	63.8	11.6	3.8
8	43.0	SW	15:14	-12.5	-6.5	-6.0	-6.0	-3.5	-0.5	0.5	3.0	9.4	11.4	82.7	14.2	2.6
9	29.3	WNW	11:01	-12.0	-6.0	-6.0	-5.5	-3.5	-1.0	0.5	3.0	9.3	11.4	81.4	13.3	2.1
10	23.1	SSW	17:10	-18.5	-6.0	-5.5	-5.5	-3.5	-1.0	0.5	3.0	10.1	11.5	87.8	14.7	2.2
11	26.5	SSW	10:07	-12.0	-6.0	-5.5	-5.5	-3.5	-1.0	0.5	3.0	6.7	11.6	57.9	12.3	5.6
12	33.8	WNW	21:22	-5.0	-5.5	-5.5	-5.5	-3.5	-1.0	0.5	3.0	2.2	11.6	18.9	10.1	7.2
13	26.2	WNW	12:57	-2.0	-4.5	-4.5	-4.5	-3.5	-1.0	0.5	2.5	10.6	11.7	90.6	14.1	3.2
14	33.0	NW	16:06	-6.0	-2.5	-3.0	-3.5	-3.0	-1.0	0.5	2.5	10.4	11.8	88.4	14.4	2.5
15	26.3	WSW	18:46	-9.0	-2.5	-2.5	-3.0	-2.5	-1.0	0.5	2.5	7.1	11.8	60.0	12.1	5.5
16	32.4	WNW	16:51	-6.5	-2.5	-2.5	-2.5	-2.5	-0.5	0.5	2.5	11.5	11.9	96.6	15.3	1.7
17	31.1	WSW	16:19	-8.5	-2.0	-2.0	-2.5	-2.0	-0.5	0.5	2.5	11.6	12.0	96.9	15.8	2.1
18	33.8	WNW	8:24	-1.5	-1.5	-1.5	-2.0	-2.0	-0.5	0.5	2.5	11.4	12.0	94.7	15.2	1.8
19	41.1	W	14:52	0.0	-0.5	-0.5	-1.0	-1.5	-0.5	0.5	2.5	11.7	12.1	96.6	15.2	2.2
20	22.8	SW	13:38	0.5	0.0	0.0	-0.5	-1.0	-0.5	0.5	2.5	11.8	12.2	97.0	15.6	1.8
21	31.2	ESE	10:42	0.0	0.0	0.0	-0.5	-0.5	-0.5	0.5	2.5	11.8	12.2	96.4	16.4	1.5
22	27.2	S	13:02	2.0	0.0	0.0	0.0	-0.5	-0.5	0.5	2.5	11.9	12.3	96.7	16.1	1.6
23	59.1	ENE	20:42	1.0	0.0	0.0	0.0	-0.5	0.0	0.5	2.5	11.7	12.4	94.5	16.1	1.9
24	38.7	E	0:02	-2.5	0.0	0.0	0.0	0.0	0.0	0.5	2.5	8.8	12.5	70.7	15.0	3.0
25	29.1	SSE	15:57	-4.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	10.1	12.5	80.7	14.2	4.9
26	32.9	NE	20:50	1.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	5.9	12.6	46.9	12.1	5.6
27	36.7	NW	15:33	0.5	1.0	1.0	1.0	0.0	0.0	0.5	2.5	0.1	12.7	0.8	6.0	4.7
28	39.2	W	14:56	-1.5	0.0	0.5	0.5	0.0	0.0	0.5	2.5	10.2	12.7	80.2	17.1	2.8
29	48.3	NNE	9:45	0.0	0.5	0.5	0.5	0.0	0.0	0.5	2.5	7.6	12.8	59.5	13.4	5.6
30	41.2	NNW	17:34	-1.5	0.5	0.5	0.5	0.5	0.0	0.5	2.5	6.4	12.9	49.8	13.5	4.8
31	30.3	N	2:51	-0.5	0.5	1.0	1.0	0.5	0.0	0.5	2.5	9.4	12.9	72.8	16.5	4.5
Total												273.9	369.03	74.2	425.0	109.0
Mean				-7.1	-2.9	-2.7	-2.8	-2.0	-0.5	0.5	2.7	1981-2010 Normal for Radiation				
Extreme	59.1	ENE	20:42	1971- 2000 Normal for Soil Temperatures								182.0	369.4	49.3	371.9	162.6
Date	23			-3.1	-2.8	-2.4	-1.5	-0.4	0.6	2.7	No. of Bright Sunshine days = 31					

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

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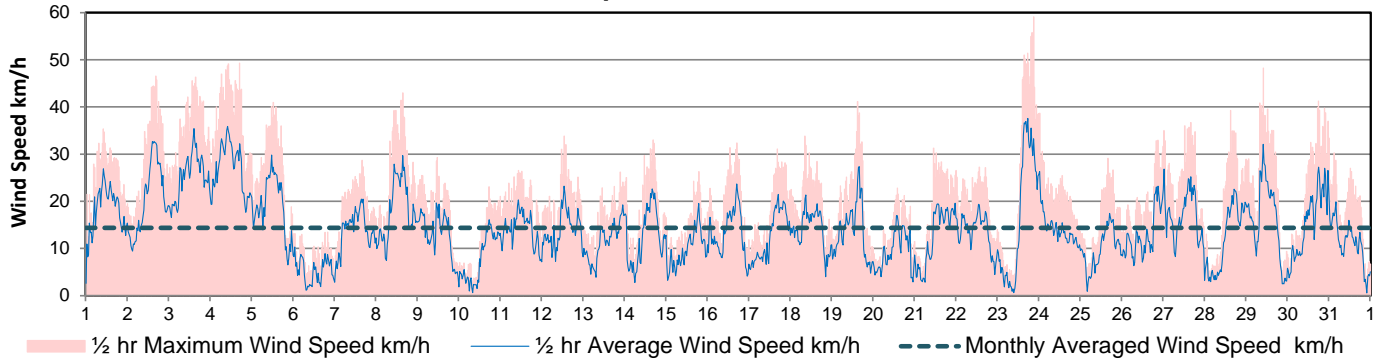


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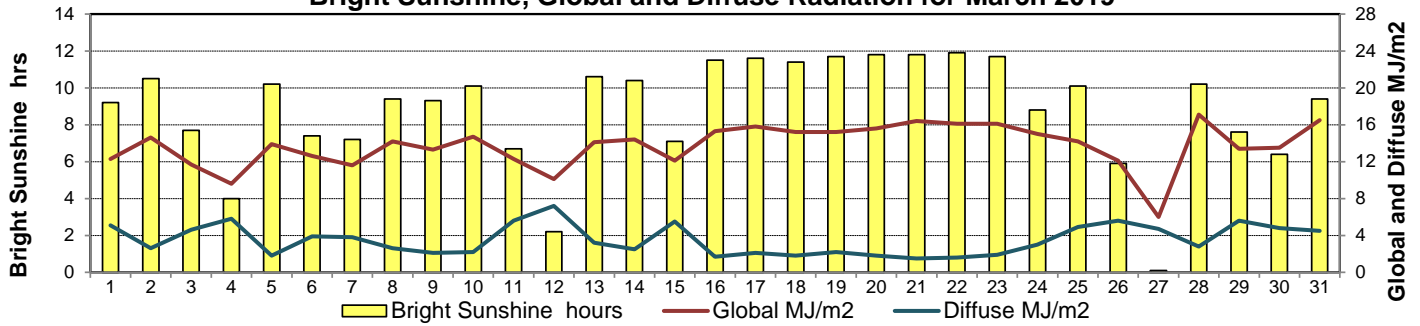
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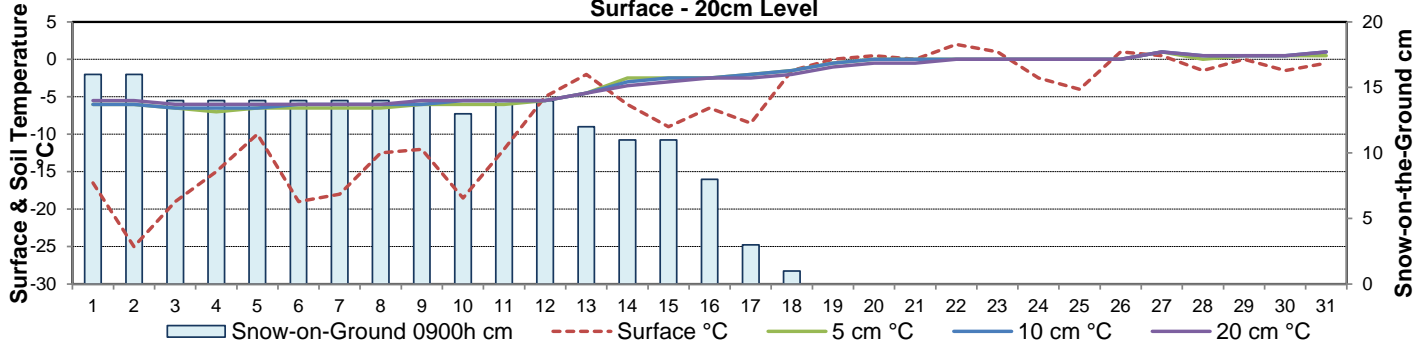
Wind Speed for March 2019



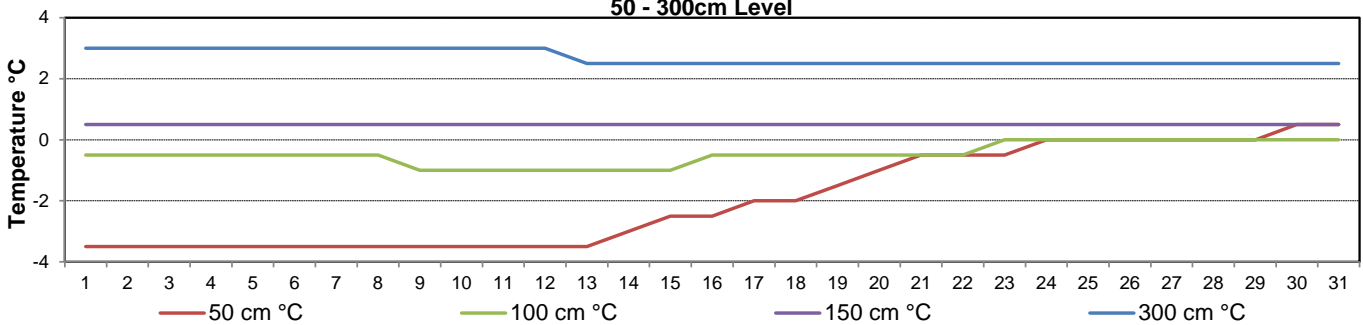
Bright Sunshine, Global and Diffuse Radiation for March 2019



Soil Temperatures for March 2019 Surface - 20cm Level



Soil Temperatures for March 2019 50 - 300cm Level





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

Preliminary **MARCH 2019**

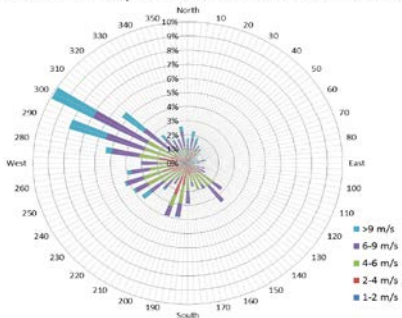
Extreme Records for March

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
22.8	23/1910	SE	20.0 23/1993	59.0	1927	SE	57.1 1967	93 ^W	18/1959	89 ^W	08/1977	248.7	2013	31	1996*
-43.3	14/1897	SM	-38.9 02/1972	0.0	1915*	SE*	0.8 2010					102.8	1983	21	1983*

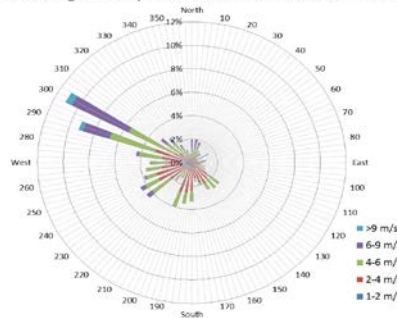
**1975 forward * more than one

Notable Events for CRS Saskatoon - March						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Term	Definition
Temperature	Maximum Daily	20	12.1	10.0	2010	SM	NWMP	c. 1892-1901	T	Trace of precipitation
	Average Daily	20	5.0	4.2	1973	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
Bright Sunshine	Greatest Monthly Hours		273.9	253.5	2014	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	Manual Snow Depths (average of 3 meter sticks located inside climate station compound)	
						K	S'toon Kernen Farm	1993-2004	March 7 = 20 cm March 14 = 14.5 cm March 17 = discontinuous snow cover but averaged over the 3 sticks = 3 cm March 25 = no snow	
						KCS	S'toon Kernen Farm CS	1996-		
						RCS	Environment Canada	2008-		
						SF	Sutherland Forestry	1943-1970		

1/2 hr Maximum Wind Speed and Direction Saskatoon March 2019



10 minute Average Wind Speed and Direction Saskatoon March 2019



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