



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 2018**

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	-6.7	-4.8	-17.5	-14.3	-12.1	-9.6	0.0	30.1	0.0	0.1		9	89	70	1024	1013
2	-6.8	-4.5	-19.4	-15.3	-13.1	-10.0	0.0	31.1	0.0	0.0		9	84	73	1025	1023
3	-5.0	-4.3	-10.9	-14.3	-8.0	-9.3	0.0	26.0	0.0	1.6	snow	9	93	80	1024	1020
4	-4.8	-4.6	-11.5	-14.2	-8.2	-9.5	0.0	26.2	0.0	3.9	snow	9	93	84	1022	1018
5	-8.9	-5.0	-11.4	-14.2	-10.2	-9.6	0.0	28.2	0.0	2.6	snow	13	90	78	1021	1016
6	-5.4	-5.2	-14.7	-14.7	-10.1	-10.0	0.0	28.1	0.0	1.2	snow	14	89	67	1026	1021
7	-7.0	-4.1	-20.8	-15.1	-13.9	-9.6	0.0	31.9	0.0	0.0		14	88	63	1025	1018
8	-6.5	-4.2	-20.5	-14.7	-13.5	-9.5	0.0	31.5	0.0	0.0		13	87	60	1018	1010
9	-5.4	-2.1	-15.4	-12.0	-10.4	-7.1	0.0	28.4	0.0	0.0		13	88	75	1010	1001
10	0.5	-1.0	-11.5	-11.5	-5.5	-6.3	0.0	23.5	0.0	0.0		13	90	52	1021	1008
11	3.3	-1.2	-12.3	-11.5	-4.5	-6.4	0.0	22.5	0.0	0.0		12	88	51	1027	1021
12	0.7	-0.6	-13.6	-9.9	-6.5	-5.3	0.0	24.5	0.0	0.0		11	92	58	1028	1025
13	2.3	-0.6	-13.3	-9.6	-5.5	-5.1	0.0	23.5	0.0	0.0		12	92	53	1024	1016
14	1.1	-0.9	-16.5	-10.9	-7.7	-5.9	0.0	25.7	0.0	0.0		12	91	65	1016	1013
15	-4.0	0.0	-11.7	-9.5	-7.9	-4.8	0.0	25.9	0.0	0.0		12	82	68	1013	1011
16	1.2	-0.2	-7.6	-9.7	-3.2	-5.0	0.0	21.2	0.0	0.0		12	87	73	1013	1011
17	0.0	0.0	-2.4	-8.9	-1.2	-4.5	0.0	19.2	0.0	0.9	light mist	12	95	77	1014	1011
18	-1.6	0.6	-7.9	-8.9	-4.8	-4.2	0.0	22.8	0.0	0.0		13	97	75	1021	1014
19	-2.2	1.2	-8.1	-8.3	-5.2	-3.6	0.0	23.2	0.0	0.0	light snow	12	89	74	1021	1015
20	2.1	1.6	-3.7	-8.3	-0.8	-3.3	0.0	18.8	0.0	0.0		12	92	62	1015	1010
21	1.8	1.5	-9.7	-7.0	-4.0	-2.8	0.0	22.0	0.0	0.0	heavy fog	10	95	71	1019	1011
22	0.9	2.5	-11.2	-6.8	-5.2	-2.2	0.0	23.2	0.0	0.0		9	94	75	1023	1019
23	-0.4	2.9	-2.5	-7.4	-1.5	-2.2	0.0	19.5	0.0	1.4	snow	9	97	80	1020	1011
24	3.5	1.6	-4.7	-6.8	-0.6	-2.6	0.0	18.6	0.0	0.0		9	97	61	1011	1004
25	1.8	2.3	-4.1	-8.0	-1.2	-2.9	0.0	19.2	0.0	0.6	snow	10	96	59	1013	1001
26	3.6	3.5	-6.2	-6.7	-1.3	-1.6	0.0	19.3	0.0	0.0		9	93	53	1013	1007
27	-3.4	4.1	-11.2	-5.1	-7.3	-0.5	0.0	25.3	0.0	1.1	snow	8	89	73	1011	1002
28	-5.1	4.7	-15.2	-5.3	-10.2	-0.3	0.0	28.2	0.0	0.0		7	87	62	1017	1012
29	-7.9	4.9	-18.4	-4.9	-13.2	0.0	0.0	31.2	0.0	0.1		7	90	42	1027	1017
30	-10.8	6.3	-20.8	-4.0	-15.8	1.1	0.0	33.8	0.0	0.0		7	73	38	1026	1020
31	-7.1	6.8	-18.5	-4.3	-12.8	1.3	0.0	30.8	0.0	0.0		7	67	50	1028	1020
Total							0.0	783.4	0.0	13.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-2.5	0.0	-12.0	-9.7	-7.3	-4.9	1981-2010 Normal			13.8	Normal					
Extreme Date	3.6		-20.8				3.0	708.8	0.0	28.4	Cumulative		97	38	1028	1001
	26		7							38.6	Cumulative No		18	30	12	9

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

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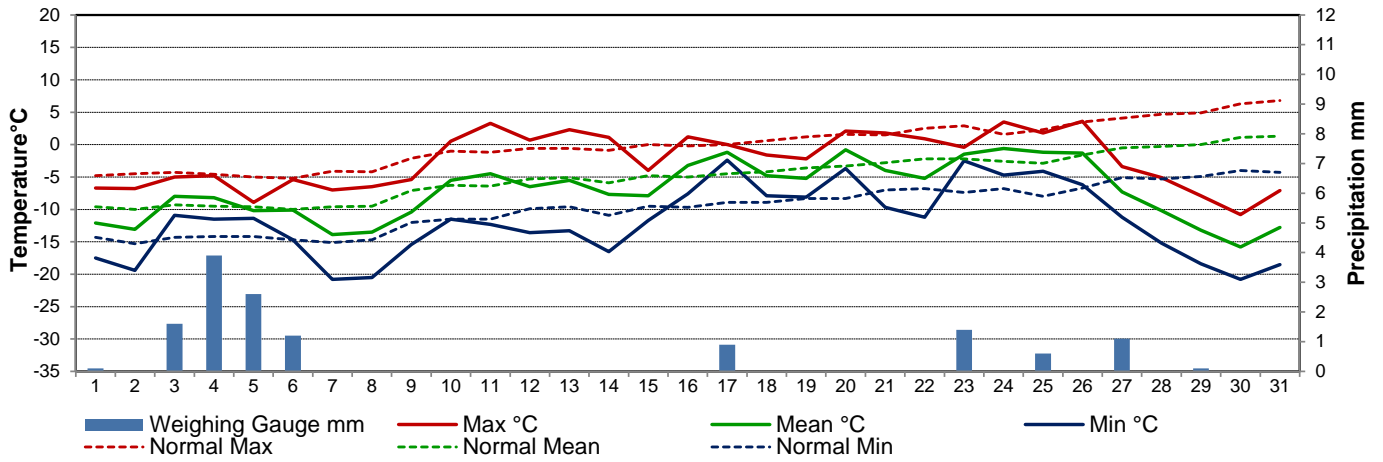


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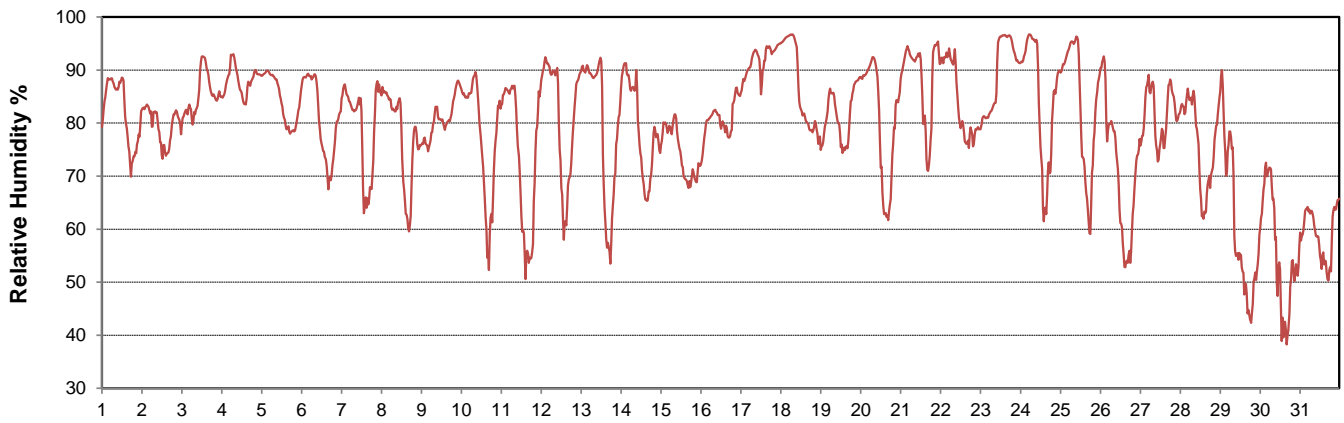
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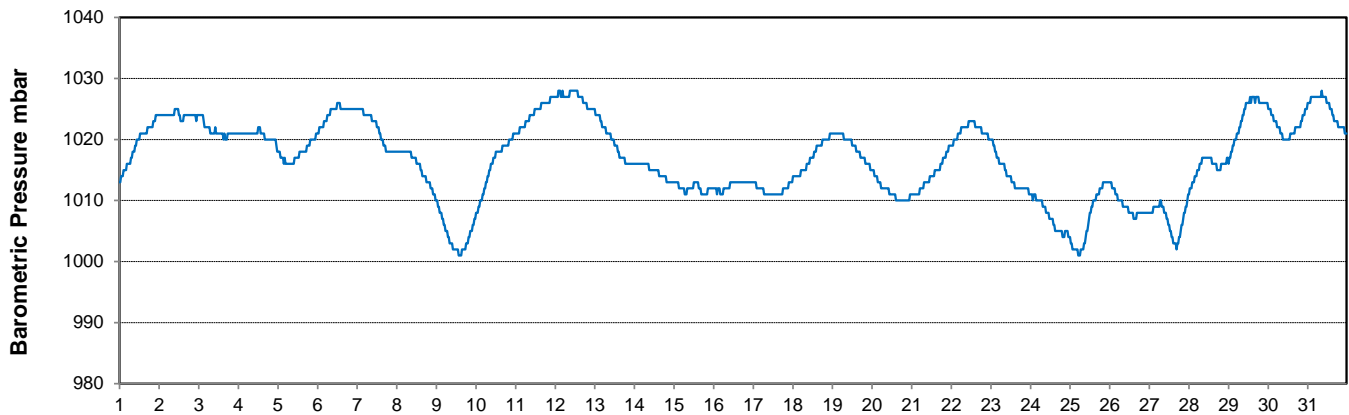
Temperature and Precipitation for March 2018



Relative Humidity for March 2018



Barometric Pressure Corrected to Sea Level for March 2018





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MARCH 2018**

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		0900hrs	Bright Sunshine	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m ²	MJ/m ²
1	32.0	NE	16:49	-16.0	-8.0	-7.5	-7.0	-4.5	-1.0	0.5	3.5	7	8.6	10.9	78.8	11.7	2.4
2	51.6	E	23:45	-18.0	-8.5	-8.0	-7.0	-4.5	-1.0	0.5	3.5	7	8.5	11.0	77.4	13.3	3.3
3	53.6	ESE	10:26	-7.0	-8.0	-7.5	-7.0	-4.5	-1.0	0.5	3.5	7	0.0	11.0	0.0	3.5	2.9
4	38.6	NNE	15:52	-7.5	-7.0	-6.5	-6.5	-4.5	-1.0	0.5	3.0	7	0.0	11.1	0.0	3.9	3.2
5	34.6	NNE	0:04	-10.5	-6.5	-6.0	-6.0	-4.0	-1.0	0.5	3.0	7	1.5	11.2	13.4	8.5	6.4
6	29.2	W	11:17	-10.0	-6.0	-5.5	-5.5	-4.0	-1.0	0.5	3.0	8	6.4	11.2	56.9	10.6	6.9
7	16.7	SE	15:59	-18.0	-6.0	-5.5	-5.5	-3.5	-1.0	0.5	3.0	8	10.6	11.3	93.7	13.7	3.3
8	23.1	SE	23:42	-19.0	-6.5	-6.0	-5.5	-3.5	-1.0	0.5	3.0	7	9.9	11.4	87.0	14.0	2.3
9	41.1	ESE	10:24	-10.5	-6.5	-6.0	-5.5	-3.5	-1.0	0.5	3.0	7	8.9	11.5	77.7	12.8	3.8
10	27.4	W	13:29	-11.0	-6.0	-5.5	-5.5	-3.5	-1.0	0.5	3.0	8	10.8	11.5	93.8	15.2	2.9
11	16.3	WNW	16:02	-12.5	-5.5	-5.5	-5.0	-3.5	-1.0	0.5	3.0	8	11.2	11.6	96.7	15.1	2.1
12	17.8	SSE	12:39	-12.5	-5.5	-5.5	-5.0	-3.5	-1.0	0.5	3.0	8	10.7	11.7	91.8	16.0	2.3
13	19.5	WSW	17:35	-12.5	-5.5	-5.5	-5.0	-3.0	-1.0	0.5	3.0	8	9.9	11.7	84.5	14.8	3.6
14	39.7	ESE	13:09	-13.0	-5.5	-5.0	-5.0	-3.0	-1.0	0.5	3.0	8	11.2	11.8	95.1	16.5	2.2
15	46.0	SE	5:50	-11.5	-5.5	-5.0	-5.0	-3.0	-1.0	0.5	3.0	8	11.3	11.9	95.4	15.7	2.5
16	33.7	ESE	1:33	-6.0	-5.0	-5.0	-4.5	-3.0	-1.0	0.5	3.0	8	0.0	11.9	0.0	5.5	4.4
17	18.1	ESE	13:22	-2.0	-4.5	-4.5	-4.5	-3.0	-1.0	0.5	3.0	8	0.0	12.0	0.0	3.1	2.5
18	29.7	NE	16:30	-2.0	-4.0	-4.0	-4.0	-3.0	-1.0	0.5	3.0	8	0.0	12.1	0.0	6.6	5.4
19	21.0	SE	19:59	-7.5	-4.0	-3.5	-3.5	-2.5	-1.0	0.5	3.0	8	0.1	12.1	0.8	9.0	7.2
20	25.9	S	15:29	-3.5	-3.5	-3.5	-3.5	-2.5	-1.0	0.5	2.5	8	6.8	12.2	55.8	12.8	7.3
21	16.8	ESE	18:37	-9.0	-3.0	-3.0	-3.0	-2.5	-1.0	0.5	2.5	9	10.0	12.3	81.6	15.9	3.7
22	60.8	ESE	21:37	-6.0	-3.0	-3.0	-3.0	-2.0	-1.0	0.5	2.5	9	10.8	12.3	87.6	18.4	3.4
23	61.3	SE	13:22	-2.0	-2.5	-2.5	-2.5	-2.0	-0.5	0.5	2.5	9	0.0	12.4	0.0	4.7	3.8
24	37.2	S	13:10	-4.0	-2.5	-2.5	-2.5	-2.0	-0.5	0.5	2.5	9	6.6	12.5	53.0	10.7	8.2
25	50.0	N	9:18	-1.0	-2.5	-2.0	-2.5	-2.0	-0.5	0.5	2.5	10	7.6	12.5	60.7	14.1	5.0
26	39.0	SSW	11:06	-2.5	-2.0	-2.0	-2.0	-1.5	-0.5	0.5	2.5	10	11.2	12.6	88.9	17.9	2.5
27	42.8	NNE	18:01	-9.0	-2.5	-2.0	-2.0	-1.5	-0.5	0.5	2.5	10	2.8	12.7	22.1	9.8	7.2
28	32.3	WNW	15:10	-14.0	-3.0	-2.5	-2.5	-1.5	-0.5	0.5	2.5	9	9.3	12.7	73.1	17.4	4.3
29	36.3	NE	7:49	-17.5	-3.5	-3.0	-2.5	-1.5	-0.5	0.5	2.5	9	11.2	12.8	87.5	18.9	3.3
30	36.9	WNW	18:05	-16.5	-4.0	-3.5	-3.0	-1.5	-0.5	0.5	2.5	9	10.8	12.9	83.9	17.3	6.4
31	57.0	W	17:14	-17.0	-4.5	-4.0	-3.5	-1.5	-0.5	0.5	2.5	8	12.5	12.9	96.7	19.8	3.1
Total													219.2	369.53	59.3	387.2	127.8
Mean				-10.0	-4.9	-4.5	-4.4	-2.9	-0.9	0.5	2.9	8	1981-2010 Normal for Radiation				
Extreme	61.3	SE	13:22	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 = 25				

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

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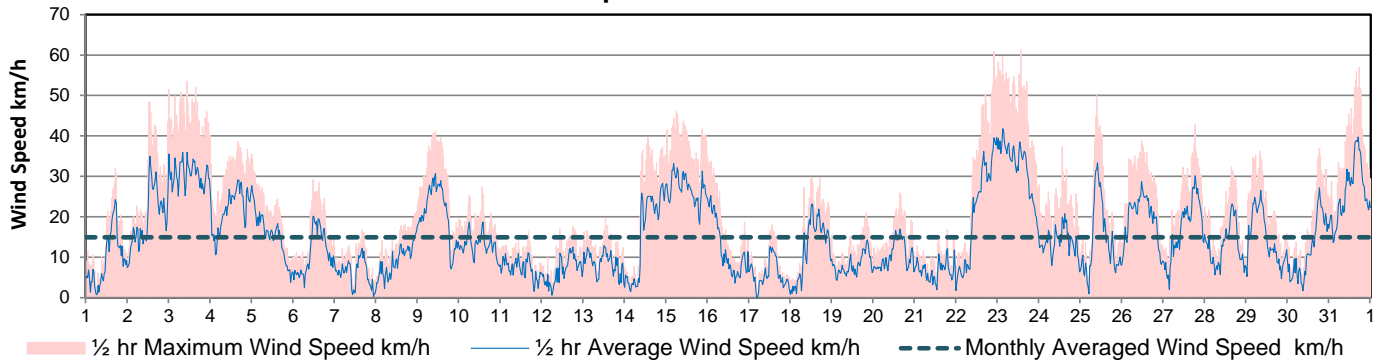


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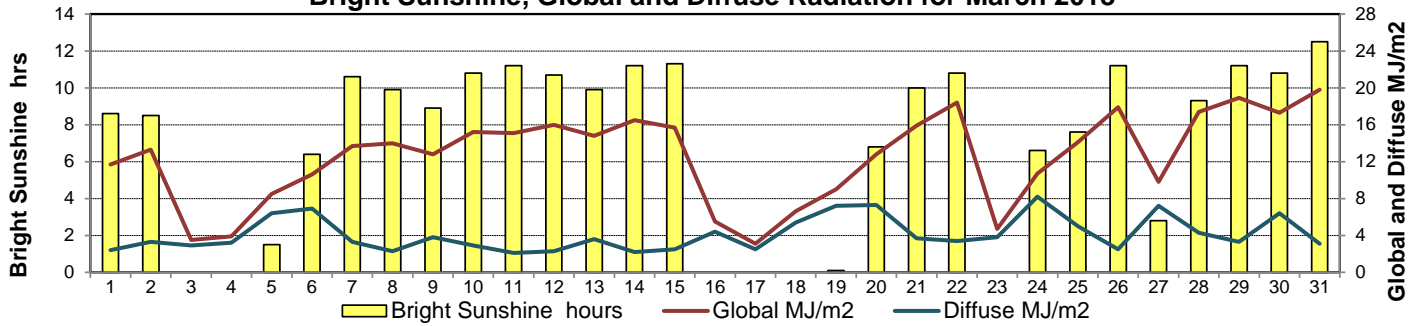
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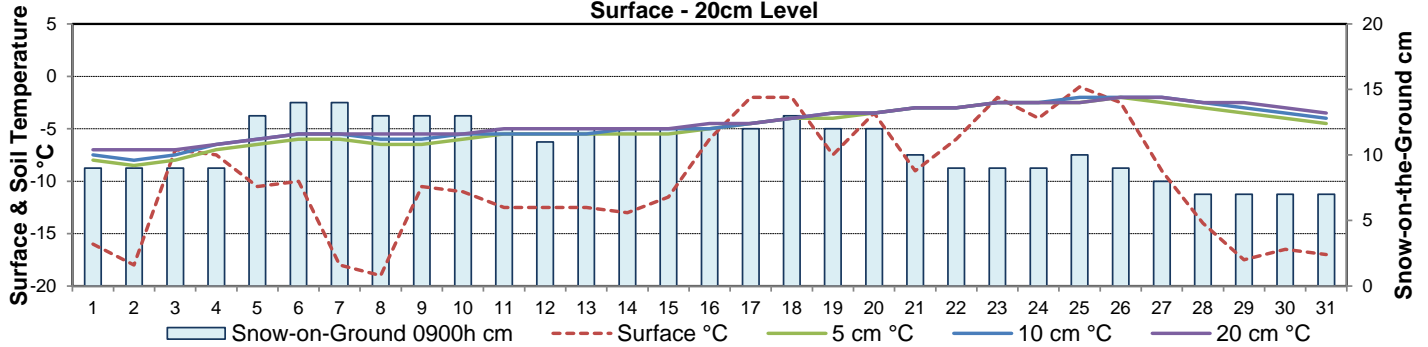
Wind Speed for March 2018



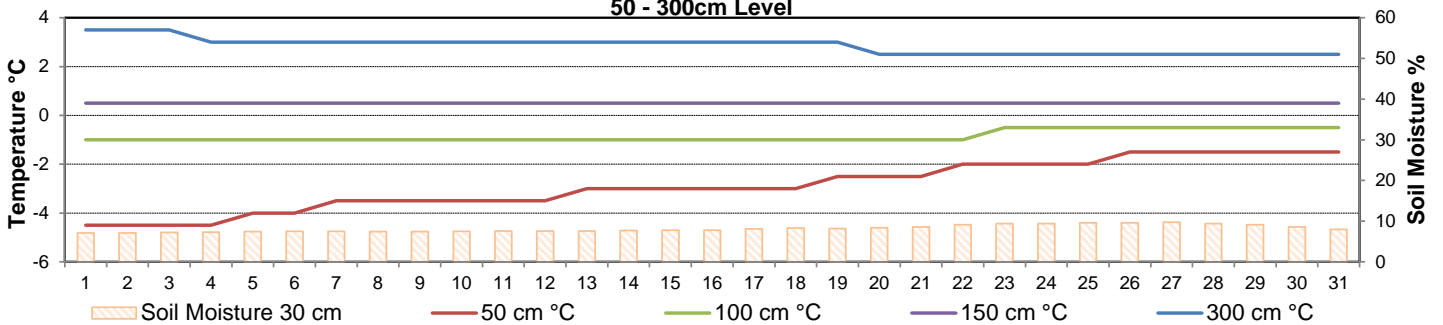
Bright Sunshine, Global and Diffuse Radiation for March 2018



Soil Temperatures for March 2018 Surface - 20cm Level



Soil Temperatures for March 2018 50 - 300cm Level





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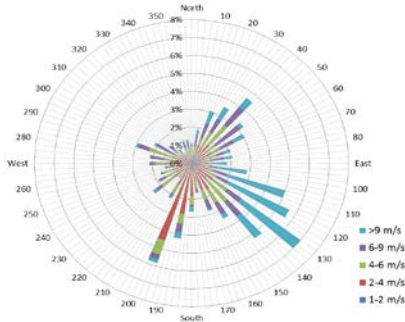
Extreme Records for March

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*

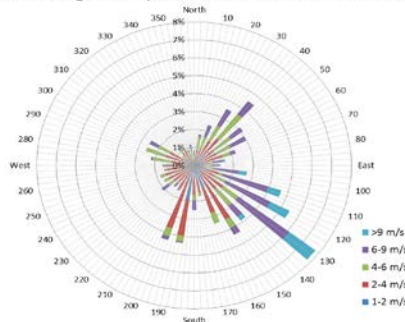
**1975 forward * more than one

Notable Events for CRS Saskatoon - March						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Code	Description
						SM	NWMP	c. 1892-1901	T	Trace of precipitation
						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
						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		
						K	S'toon Kernen Farm	1993-2004		
						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 Mar 2018



10 minute Average Wind Speed and Direction Saskatoon Mar 2018



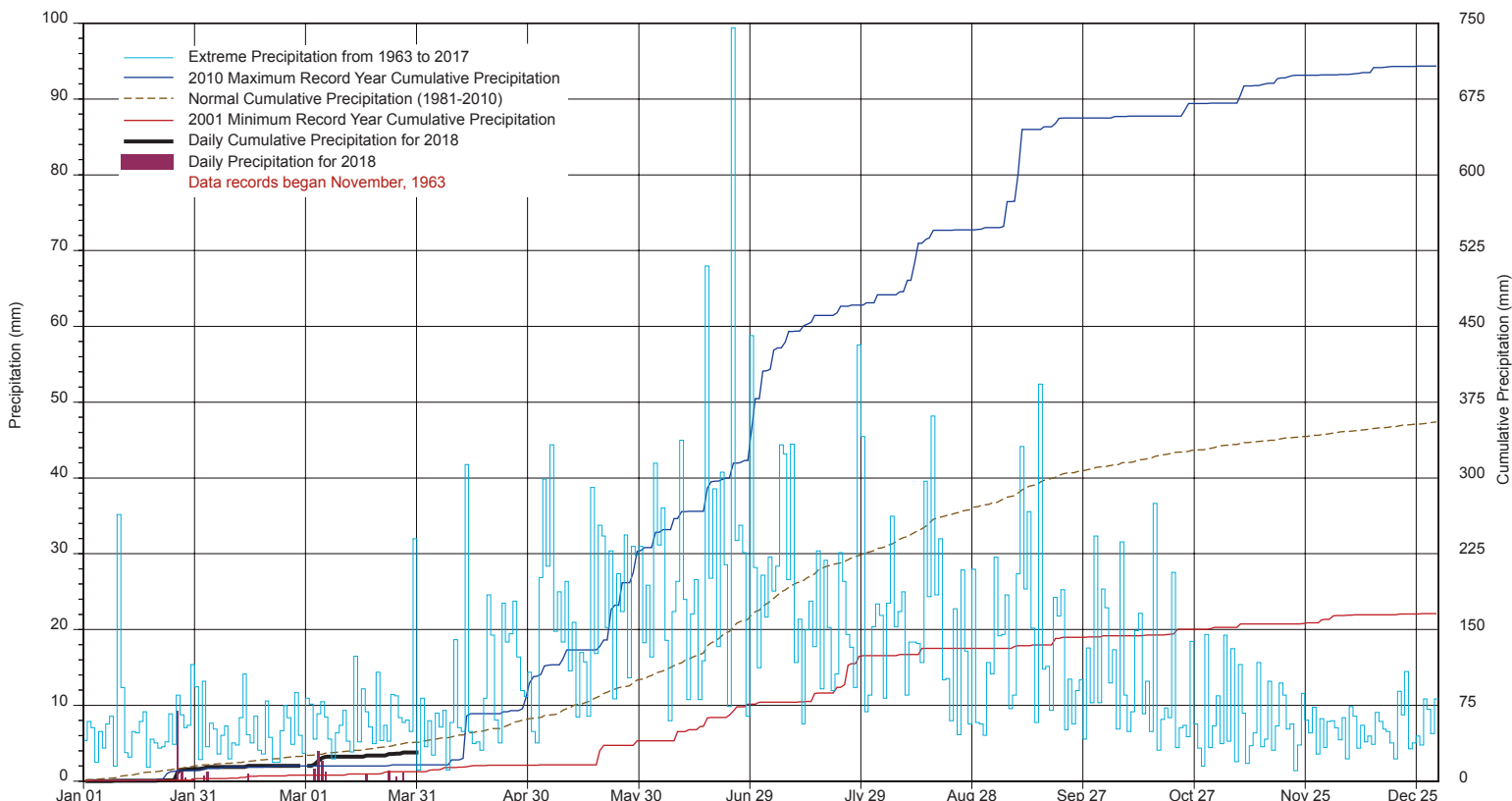
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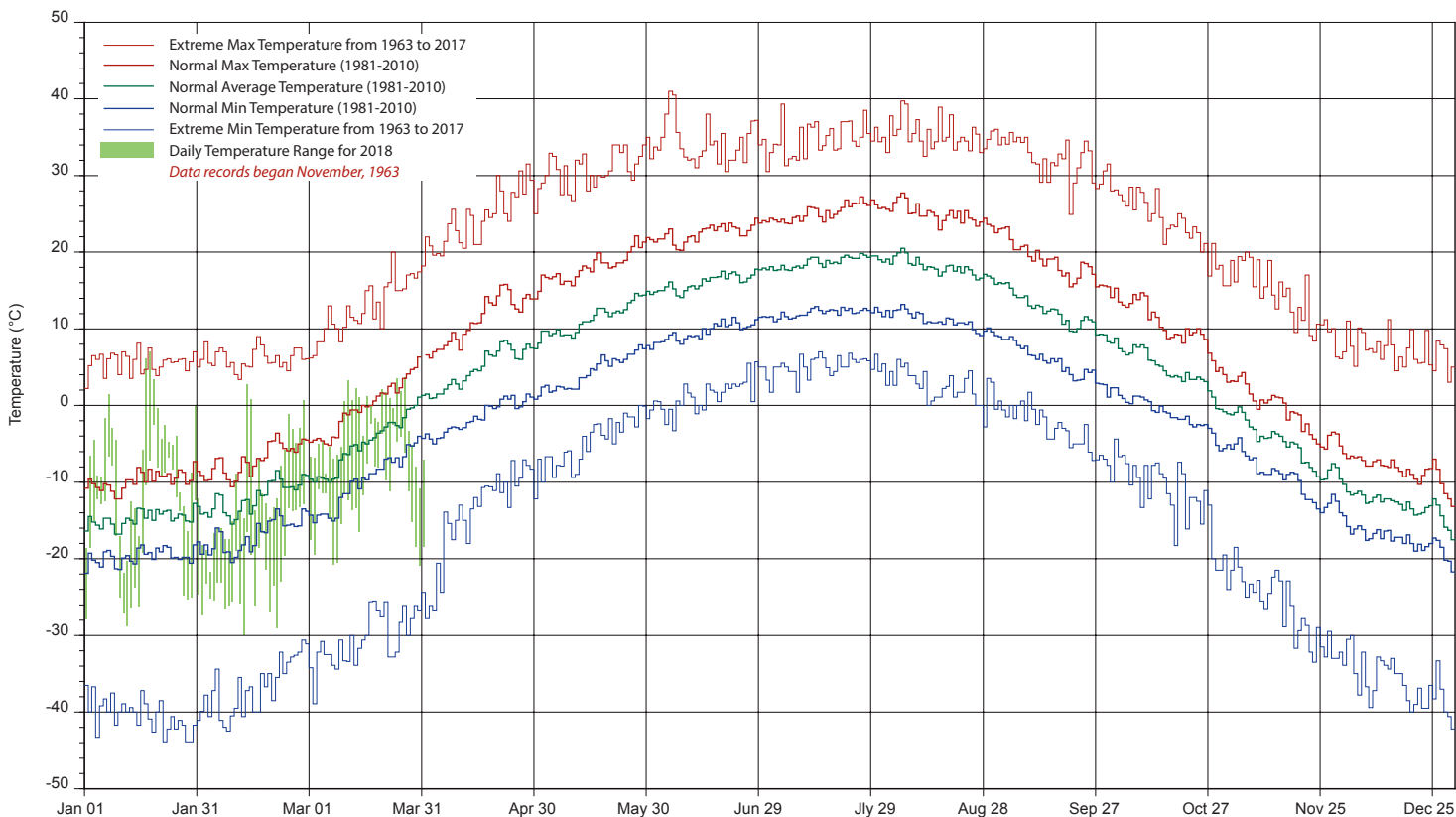
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SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2018 PRECIPITATION AND NORMALS



2018 TEMPERATURES AND NORMALS



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