



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT



SASKATOON STATION 4057180

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

Preliminary **MARCH 2017**

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	-8.3	-4.8	-20.0	-14.3	-14.2	-9.6	0.0	32.2	0.0	0.3	light snow	1	87	69	1026	1014
2	-4.5	-4.5	-20.8	-15.3	-12.7	-10.0	0.0	30.7	0.0	0.3	light snow	1	80	58	1028	1017
3	8.3	-4.3	-8.5	-14.3	-0.1	-9.3	0.0	18.1	0.0	0.0		0	89	44	1016	1002
4	5.6	-4.6	-10.0	-14.2	-2.2	-9.5	0.0	20.2	0.0	0.0		0	95	61	1006	998
5	-9.8	-5.0	-12.9	-14.2	-11.4	-9.6	0.0	29.4	0.0	10.5	snow	7	92	87	1007	1002
6	-11.5	-5.2	-15.0	-14.7	-13.3	-10.0	0.0	31.3	0.0	0.1	light snow	9	89	73	1003	1001
7	-10.5	-4.1	-15.1	-15.1	-12.8	-9.6	0.0	30.8	0.0	0.7	light snow	7	86	68	1016	999
8	-14.3	-4.2	-21.5	-14.7	-17.9	-9.5	0.0	35.9	0.0	0.0		7	75	55	1028	1017
9	-17.6	-2.1	-24.3	-12.0	-21.0	-7.1	0.0	39.0	0.0	0.0	manual snow depth 9.5cm	7	78	51	1038	1028
10	-16.7	-1.0	-24.3	-11.5	-20.5	-6.3	0.0	38.5	0.0	0.5	light snow	7	76	46	1038	1033
11	-12.8	-1.2	-20.6	-11.5	-16.7	-6.4	0.0	34.7	0.0	0.2	light snow	7	77	64	1036	1027
12	-11.7	-0.6	-18.0	-9.9	-14.9	-5.3	0.0	32.9	0.0	0.1	light snow	7	80	63	1033	1026
13	-8.9	-0.6	-19.5	-9.6	-14.2	-5.1	0.0	32.2	0.0	0.0		7	82	68	1031	1017
14	-0.2	-0.9	-13.3	-10.9	-6.8	-5.9	0.0	24.8	0.0	0.0	manual snow depth 10cm	7	87	67	1019	1012
15	6.5	0.0	-4.9	-9.5	0.8	-4.8	0.0	17.2	0.0	0.0		7	91	66	1011	1004
16	2.3	-0.2	-0.6	-9.7	0.9	-5.0	0.0	17.1	0.0	0.1	light rain / mist	1	97	78	1016	1002
17	3.8	0.0	-6.0	-8.9	-1.1	-4.5	0.0	19.1	0.0	0.0		1	97	52	1024	1003
18	11.3	0.6	-0.8	-8.9	5.3	-4.2	0.3	12.7	0.0	0.0		1	77	59	1019	994
19	10.7	1.2	0.7	-8.3	5.7	-3.6	0.7	12.3	0.0	0.1		0	82	34	1016	994
20	1.2	1.6	-8.9	-8.3	-3.9	-3.3	0.0	21.9	0.0	0.0		0	83	43	1031	1015
21	0.0	1.5	-10.3	-7.0	-5.2	-2.8	0.0	23.2	0.0	0.0	no snow at site	0	78	46	1031	1018
22	11.5	2.5	-4.3	-6.8	3.6	-2.2	0.0	14.4	0.0	0.4	light rain	0	85	58	1017	1000
23	4.2	2.9	-3.8	-7.4	0.2	-2.2	0.0	17.8	0.0	0.0		0	92	60	1017	1004
24	6.9	1.6	-5.6	-6.8	0.7	-2.6	0.0	17.3	0.0	0.1		0	92	53	1019	1008
25	6.2	2.3	-1.4	-8.0	2.4	-2.9	0.0	15.6	0.0	0.4	light rain	0	95	74	1011	1001
26	2.1	3.5	-1.8	-6.7	0.2	-1.6	0.0	17.8	0.0	0.1		0	96	85	1013	1010
27	7.1	4.1	-3.0	-5.1	2.1	-0.5	0.0	15.9	0.0	0.6	light rain	0	98	67	1017	1013
28	10.4	4.7	1.0	-5.3	5.7	-0.3	0.7	12.3	0.0	0.0		0	96	64	1017	1013
29	12.6	4.9	0.8	-4.9	6.7	0.0	1.7	11.3	0.0	0.0		0	96	52	1012	1007
30	4.7	6.3	0.3	-4.0	2.5	1.1	0.0	15.5	0.0	0.1		0	98	81	1016	1007
31	10.5	6.8	-3.0	-4.3	3.8	1.3	0.0	14.2	0.0	0.0		0	97	47	1022	1017
Total							3.4	706.3	0.0	14.6			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	0.0	0.0	-9.5	-9.7	-4.8	-4.9	1981-2010 Normal			13.8	Normal					
Extreme Date	12.6		-24.3				3.0	708.8	0.0	32.8	Cumulative		98	34	1038	994
	29		9							38.6	Cumulative No		27	19	9	18

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

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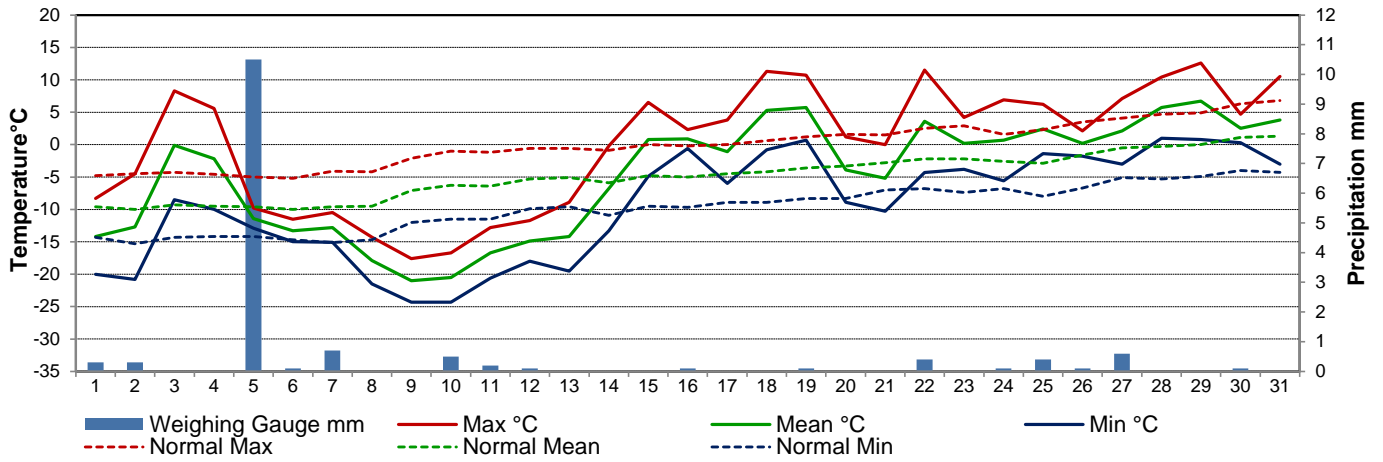


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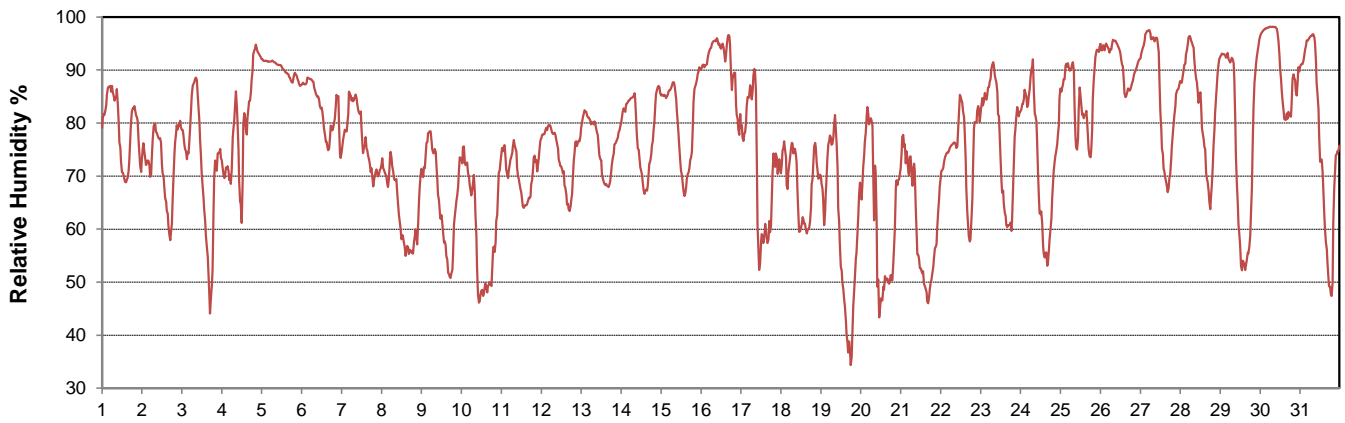
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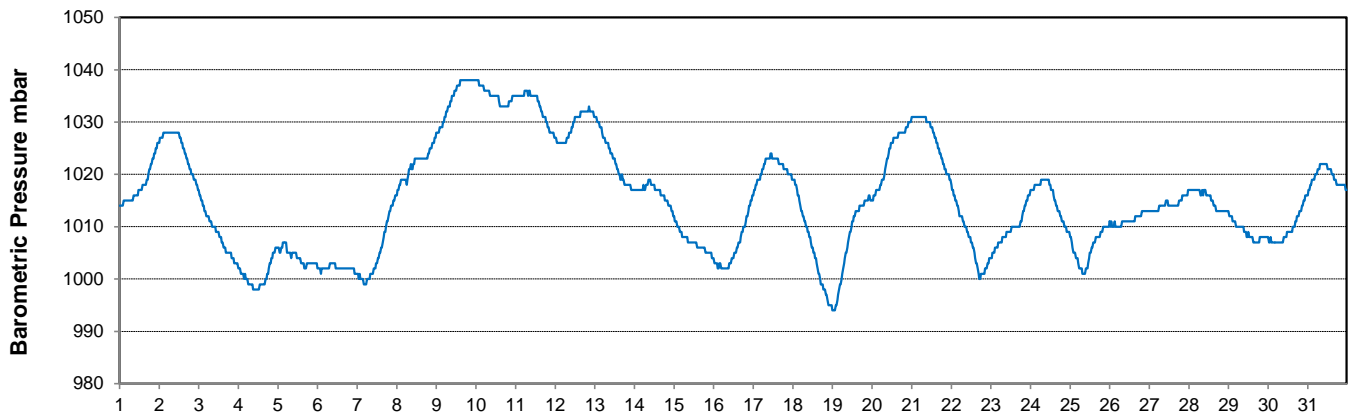
Temperature and Precipitation for March 2017



Relative Humidity for March 2017



Barometric Pressure Corrected to Sea Level for March 2017





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SASKATOON STATION 4057180

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

Preliminary MARCH 2017

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	32.7	NNE	18:30	-16.0	-7.5	-6.0	-4.5	-1.5	0.5	1.5	3.5	9.6	5.5	10.9	50.4	8.6	5.3
2	24.1	SSW	15:20	-16.0	-7.0	-6.0	-5.0	-2.0	0.5	1.5	3.5	9.5	7.1	11.0	64.6	10.6	2.7
3	30.7	SSE	7:55	-6.5	-6.0	-5.0	-4.5	-2.5	0.0	1.5	3.5	9.8	10.5	11.1	94.9	12.0	1.5
4	38.2	N	18:31	-1.0	-2.5	-2.0	-2.5	-2.0	0.0	1.5	3.5	10.6	7.4	11.1	66.5	10.3	2.8
5	40.4	NE	13:36	-10.5	-3.0	-2.5	-2.0	-1.5	0.0	1.0	3.5	10.6	0.0	11.2	0.0	4.9	4.0
6	42.0	NW	22:14	-14.0	-3.5	-3.0	-2.5	-1.5	0.0	1.0	3.5	10.5	0.0	11.3	0.0	6.6	5.4
7	71.1	NW	16:21	-13.5	-4.0	-3.5	-3.0	-1.5	0.0	1.0	3.5	10.4	5.6	11.3	49.4	10.1	6.5
8	31.0	NNE	23:21	-21.0	-5.0	-4.5	-3.5	-1.5	0.0	1.0	3.5	10.1	9.3	11.4	81.6	12.5	4.4
9	31.6	NNE	0:31	-23.5	-6.5	-5.5	-4.5	-2.0	0.0	1.0	3.5	9.8	11.1	11.5	96.9	14.8	1.9
10	32.7	ENE	14:10	-22.5	-8.0	-7.0	-5.5	-2.5	0.0	1.0	3.5	9.5	4.1	11.5	35.6	10.0	7.2
11	30.9	E	20:43	-20.5	-8.0	-7.0	-6.0	-3.0	0.0	1.0	3.5	9.3	7.8	11.6	67.2	13.0	3.9
12	30.1	ENE	14:22	-16.5	-7.0	-6.5	-6.0	-3.0	0.0	1.0	3.5	9.4	6.5	11.7	55.7	12.3	5.2
13	48.3	SE	4:34	-17.0	-7.5	-7.0	-6.0	-3.0	0.0	1.0	3.5	9.3	4.9	11.7	41.8	11.3	5.8
14	35.7	SE	22:35	-12.0	-7.0	-6.5	-6.0	-3.5	0.0	1.0	3.5	9.4	8.8	11.8	74.6	13.2	3.7
15	35.6	SE	0:49	-3.0	-5.0	-5.0	-4.5	-3.0	0.0	1.0	3.5	9.7	9.8	11.9	82.6	13.2	3.6
16	34.6	N	21:29	0.0	-1.0	-1.5	-2.5	-2.5	0.0	1.0	3.5	10.7	0.0	11.9	0.0	2.7	2.2
17	35.2	SSE	22:09	-4.0	-2.5	-2.0	-1.5	-2.0	-0.5	1.0	3.5	10.8	9.9	12.0	82.5	15.3	1.9
18	50.1	S	12:09	1.5	-0.5	-0.5	-1.0	-1.5	-0.5	1.0	3.5	11.3	9.0	12.1	74.6	13.6	4.1
19	59.0	WSW	2:13	2.0	0.0	0.0	-0.5	-0.5	0.0	1.0	3.0	14.6	9.4	12.1	77.4	15.1	1.7
20	57.6	NW	10:49	-5.0	0.0	0.0	-0.5	0.0	0.0	1.0	3.0	12.5	11.0	12.2	90.1	15.8	1.9
21	49.4	SE	21:24	-7.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	11.3	9.9	12.3	80.6	14.8	4.2
22	54.3	SSE	16:54	-3.5	-0.5	0.0	0.0	0.0	0.0	1.0	3.0	11.5	4.1	12.3	33.2	6.7	2.9
23	35.5	WNW	1:03	-3.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	12	10.9	12.4	87.8	15.4	3.0
24	44.8	SE	21:58	-3.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	12.2	6.1	12.5	48.9	12.1	5.8
25	46.1	ESE	2:46	4.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	13.8	5.9	12.6	47.0	9.3	4.2
26	23.8	ENE	10:26	-0.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	13.5	0.0	12.6	0.0	4.3	3.5
27	33.2	E	11:46	-2.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	13.8	2.7	12.7	21.3	8.5	6.2
28	37.3	SSE	10:42	2.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	15.1	2.7	12.8	21.2	8.5	6.0
29	33.2	SE	2:45	3.5	0.0	0.0	0.0	0.0	0.0	1.0	3.0	16	10.7	12.8	83.5	17.6	2.5
30	34.8	ENE	8:28	1.0	0.5	0.5	0.0	0.0	0.0	1.0	3.0	17	0.0	12.9	0.0	5.1	4.1
31	21.8	SE	23:03	0.0	0.0	0.5	0.0	0.0	0.0	1.0	3.0	16.9	6.8	13.0	52.5	13.5	5.5
Total													197.5	370.05	53.4	341.7	123.6
Mean				-7.3	-3.0	-2.6	-2.3	-1.3	0.0	1.1	3.3	11.6	1981-2010 Normal for Radiation				
Extreme	71.1	NW	16:21	1971- 2000 Normal for Soil Temperatures									182.0	369.4	49.3	371.9	162.6
Date	7				-3.1	-2.8	-2.4	-1.5	-0.4	0.6	2.7		No. of Bright Sunshine days = 26				

Note: Red numbers indicate manual calculation

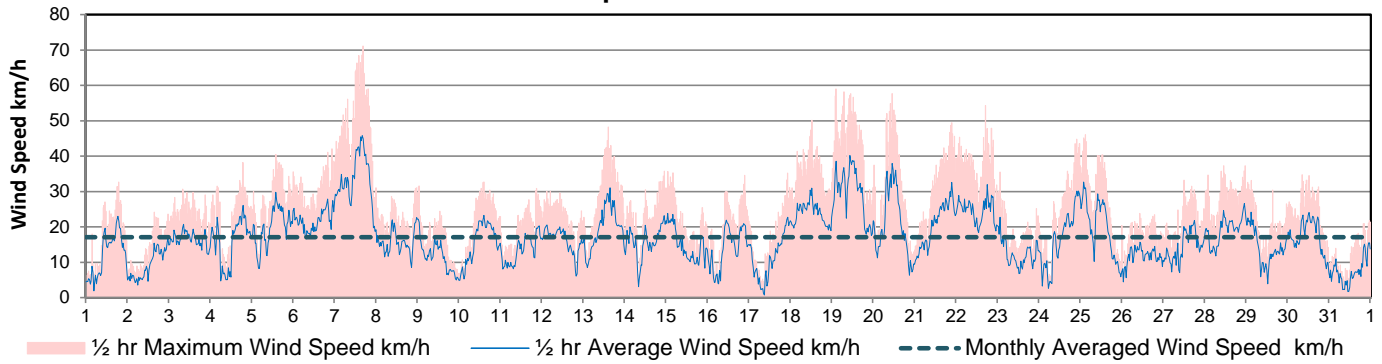
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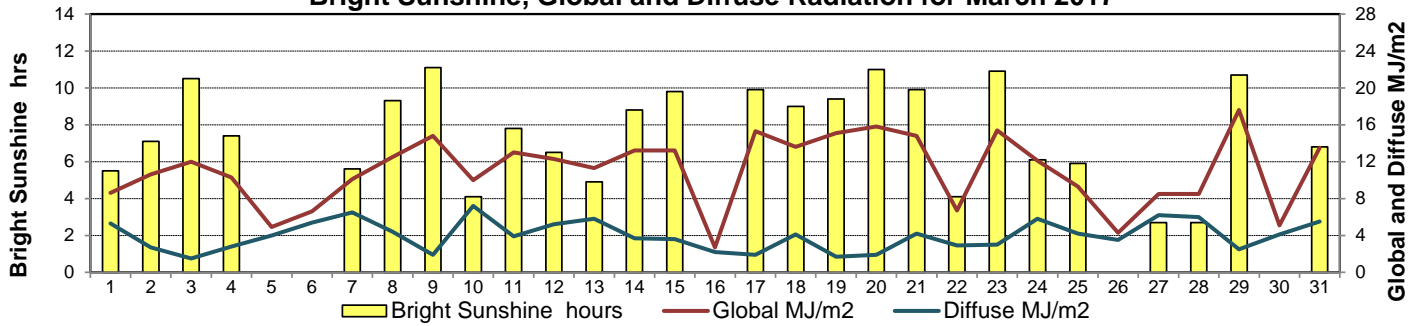
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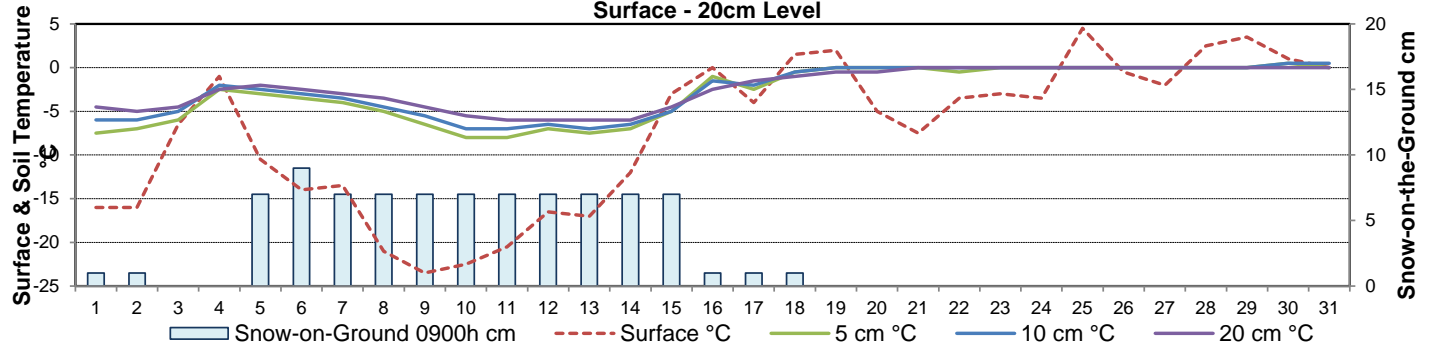
Wind Speed for March 2017



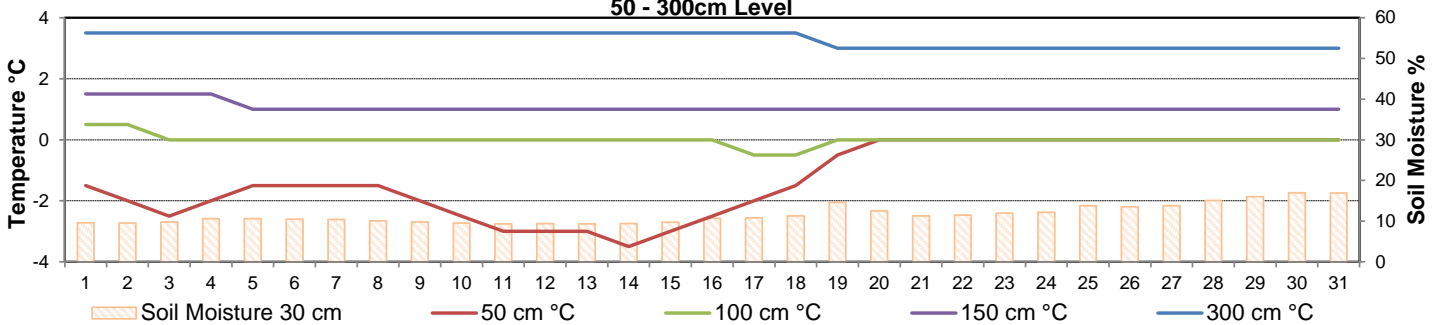
Bright Sunshine, Global and Diffuse Radiation for March 2017



Soil Temperatures for March 2017 Surface - 20cm Level



Soil Temperatures for March 2017 50 - 300cm Level





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Preliminary **MARCH** 2017

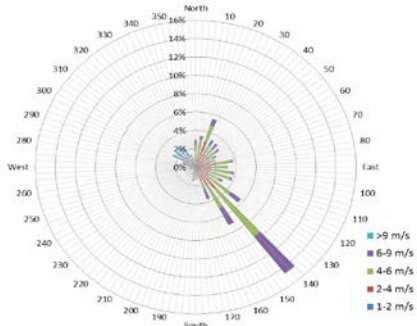
Extreme Records for March

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*

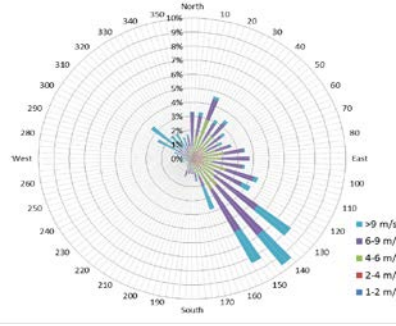
**1975 forward * more than one

Notable Events for CRS Saskatoon - March						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Operational Period	Symbol	Description
Temperature	Highest Maximum Daily	3	8.3	7.8	1968	SM	NWMP	c. 1892-1901	T	Trace of precipitation
	Highest Maximum Daily	18	11.3	10.6	2001	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Highest Minimum Daily	28	1	1.0	1986	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Highest Average Daily	19	5.7	5.6	2001	S	Saskatoon	1941-1942	na	not available
Precipitation	Highest Daily	5	10.5	4.3	1974	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		

10 minute Average Wind Speed and Direction Saskatoon Mar 2017



1/2 hr Maximum Wind Speed and Direction Saskatoon Mar 2017



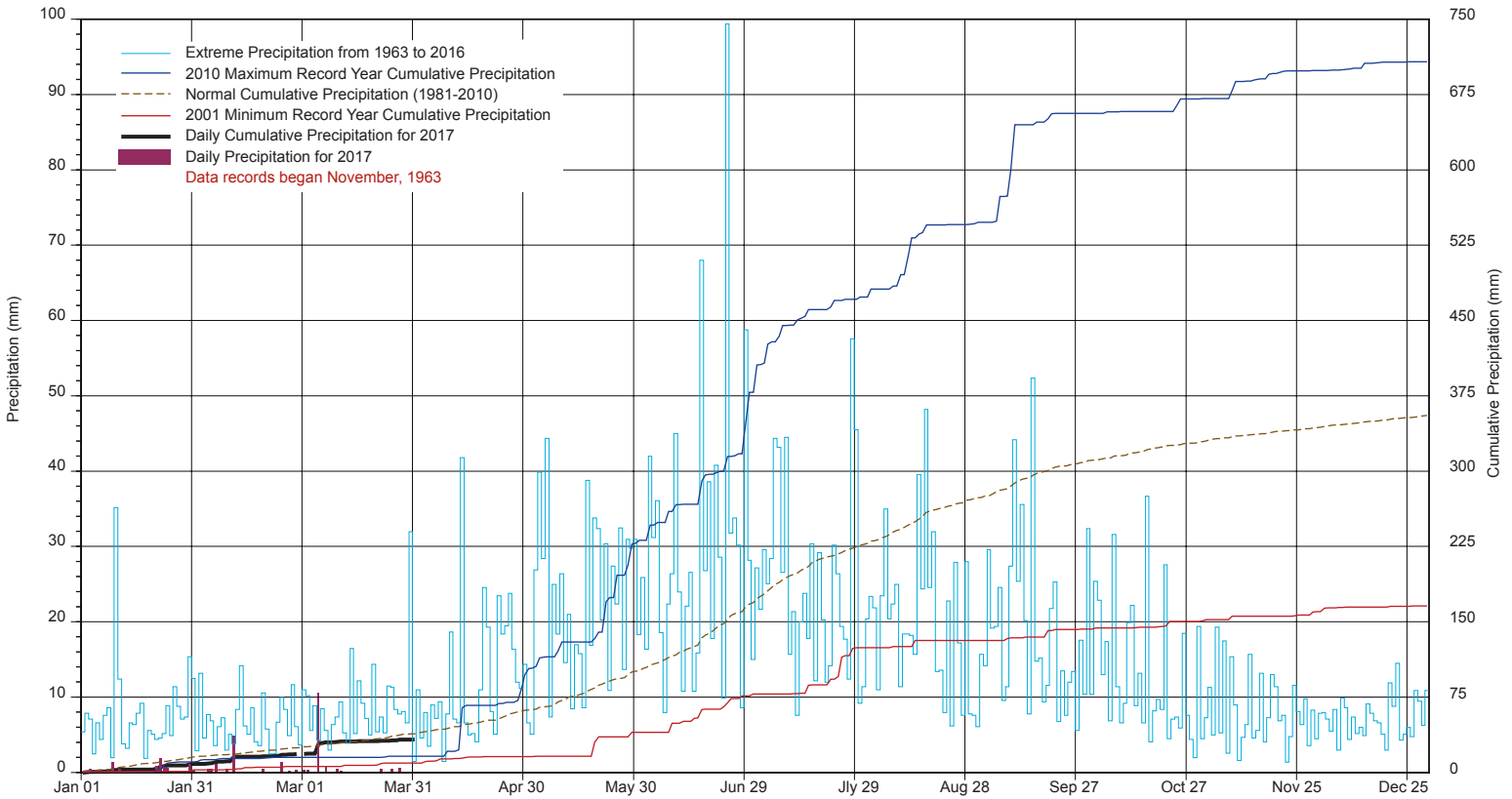
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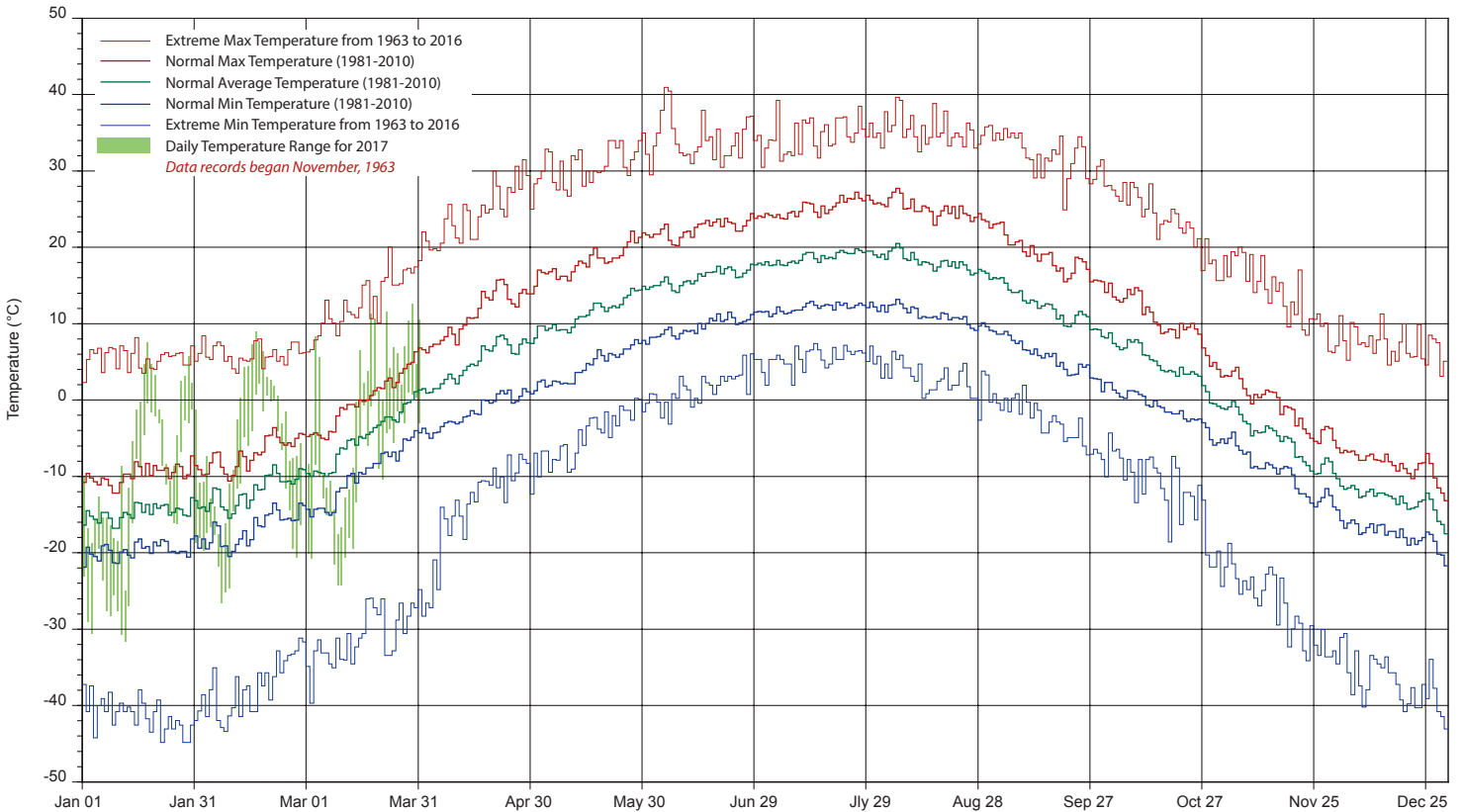
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2017 TEMPERATURES AND NORMALS



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