



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT



SASKATOON STATION 4057180

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

Preliminary **MARCH 2016**

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	-1.7	-4.8	-17.3	-14.3	-9.5	-9.6	0.0	27.5	0.0	0.0		10	84	60	1019	1010
2	-6.1	-4.5	-12.0	-15.3	-9.1	-10.0	0.0	27.1	0.0	0.0	manual SOG 13cm	10	94	76	1019	1010
3	-0.4	-4.3	-13.6	-14.3	-7.0	-9.3	0.0	25.0	0.0	0.5	light snow	10	95	81	1018	1005
4	1.7	-4.6	-6.0	-14.2	-2.2	-9.5	0.0	20.2	0.0	0.0		11	93	71	1015	1007
5	9.3	-5.0	-3.7	-14.2	2.8	-9.6	0.0	15.2	0.0	0.0		10	89	50	1009	996
6	4.1	-5.2	-4.8	-14.7	-0.4	-10.0	0.0	18.4	0.0	0.1		6	94	64	1001	996
7	1.9	-4.1	-4.2	-15.1	-1.2	-9.6	0.0	19.2	0.0	1.8	light snow	5	94	80	1008	998
8	0.9	-4.2	-3.9	-14.7	-1.5	-9.5	0.0	19.5	0.0	0.1		5	92	82	1010	1006
9	0.4	-2.1	-2.6	-12.0	-1.1	-7.1	0.0	19.1	0.0	0.0	mist	5	97	81	1013	1006
10	10.2	-1.0	-2.7	-11.5	3.8	-6.3	0.0	14.2	0.0	0.0	manual SOG 5cm	6	98	56	1012	996
11	10.6	-1.2	0.7	-11.5	5.7	-6.4	0.7	12.3	0.0	0.0	no snow cover by PM	3	79	38	1010	998
12	11.5	-0.6	0.9	-9.9	6.2	-5.3	1.2	11.8	0.0	0.0		0	80	54	1011	996
13	10.7	-0.6	2.6	-9.6	6.7	-5.1	1.7	11.3	0.0	0.0		0	84	34	996	994
14	9.6	-0.9	-1.3	-10.9	4.2	-5.9	0.0	13.8	0.0	0.0		0	92	48	999	995
15	1.5	0.0	-3.6	-9.5	-1.1	-4.8	0.0	19.1	0.0	5.2	snow	2	98	86	1004	1000
16	-3.6	-0.2	-8.8	-9.7	-6.2	-5.0	0.0	24.2	0.0	1.6	snow	10	95	74	1014	1004
17	-4.3	0.0	-8.3	-8.9	-6.3	-4.5	0.0	24.3	0.0	0.2	snow	8	90	71	1024	1006
18	-4.1	0.6	-8.1	-8.9	-6.1	-4.2	0.0	24.1	0.0	0.5	snow	10	91	66	1027	1024
19	-0.5	1.2	-10.8	-8.3	-5.7	-3.6	0.0	23.7	0.0	0.0		9	91	63	1029	1023
20	4.5	1.6	-4.9	-8.3	-0.2	-3.3	0.0	18.2	0.0	0.0		8	85	57	1023	1013
21	0.5	1.5	-5.0	-7.0	-2.3	-2.8	0.0	20.3	0.0	0.6	snow	3	93	75	1013	1008
22	-4.5	2.5	-7.6	-6.8	-6.1	-2.2	0.0	24.1	0.0	2.2	snow	6	94	83	1019	1010
23	2.3	2.9	-6.5	-7.4	-2.1	-2.2	0.0	20.1	0.0	0.2	snow	8	92	66	1019	1012
24	0.2	1.6	-5.5	-6.8	-2.7	-2.6	0.0	20.7	0.0	0.8	snow	5	95	72	1012	1006
25	1.5	2.3	-7.4	-8.0	-3.0	-2.9	0.0	21.0	0.0	0.1	light snow	6	85	63	1017	1013
26	7.3	3.5	-2.0	-6.7	2.7	-1.6	0.0	15.3	0.0	0.0		5	92	57	1014	1010
27	5.9	4.1	-4.3	-5.1	0.8	-0.5	0.0	17.2	0.0	0.0		0	94	64	1013	1012
28	9.5	4.7	-1.5	-5.3	4.0	-0.3	0.0	14.0	0.0	0.0		0	88	60	1017	1013
29	11.6	4.9	1.0	-4.9	6.3	0.0	1.3	11.7	0.0	0.0		0	92	40	1017	1012
30	8.3	6.3	1.6	-4.0	5.0	1.1	0.0	13.0	0.0	0.2	light rain	0	83	56	1012	1007
31	2.6	6.8	-3.2	-4.3	-0.3	1.3	0.0	18.3	0.0	0.0		0	79	47	1018	1011
Total							4.9	583.9	0.0	14.1			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	3.3	0.0	-4.9	-9.7	-0.8	-4.9	1981-2010 Normal			13.8	Normal					
Extreme Date	11.6		-17.3				3.0	708.8	0.0	42.2	Cumulative		98	34	1029	994
	29		1							38.6	Cumulative No		10	13	19	13

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

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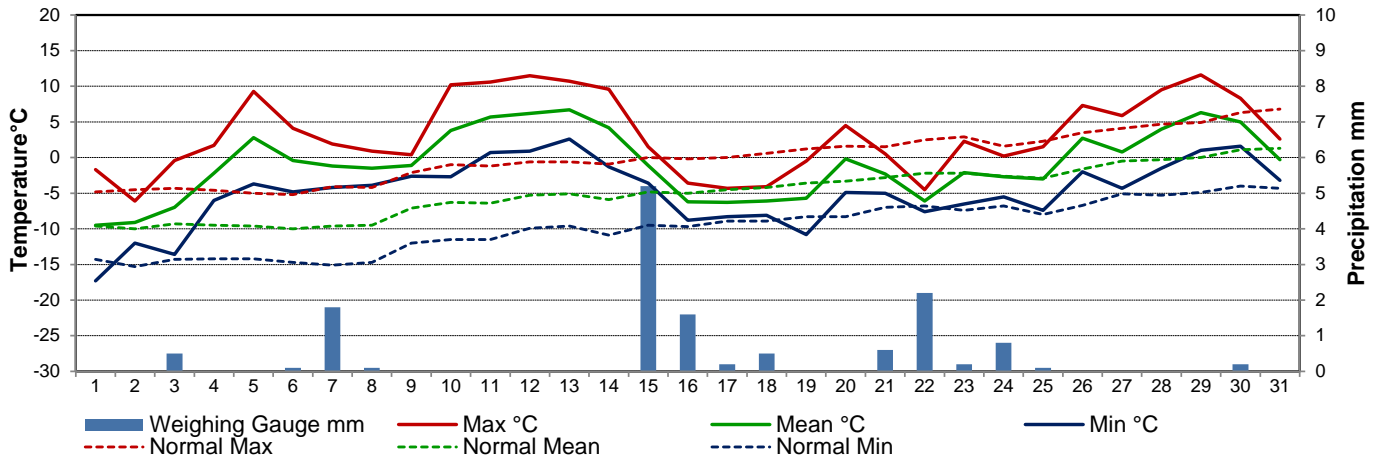


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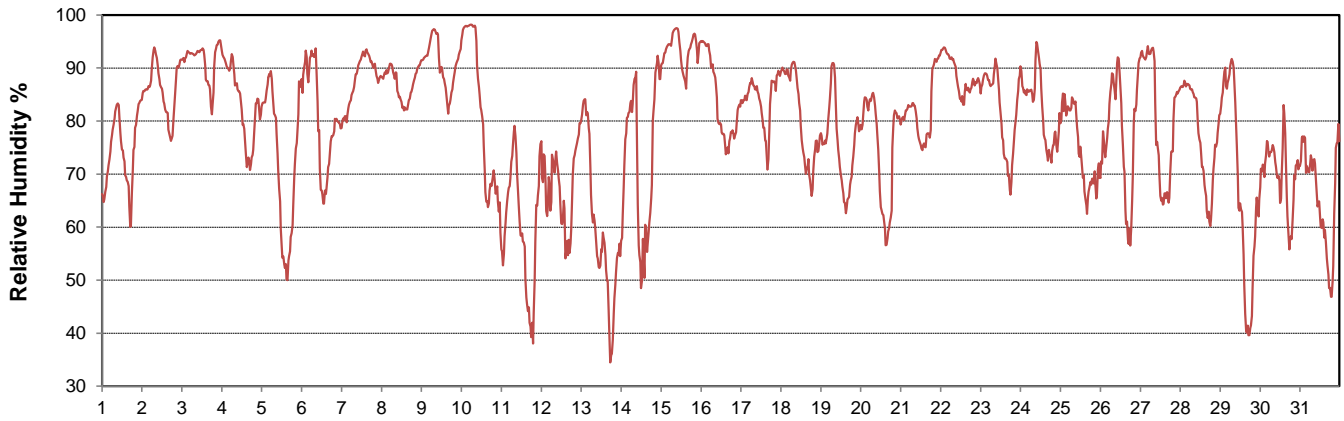
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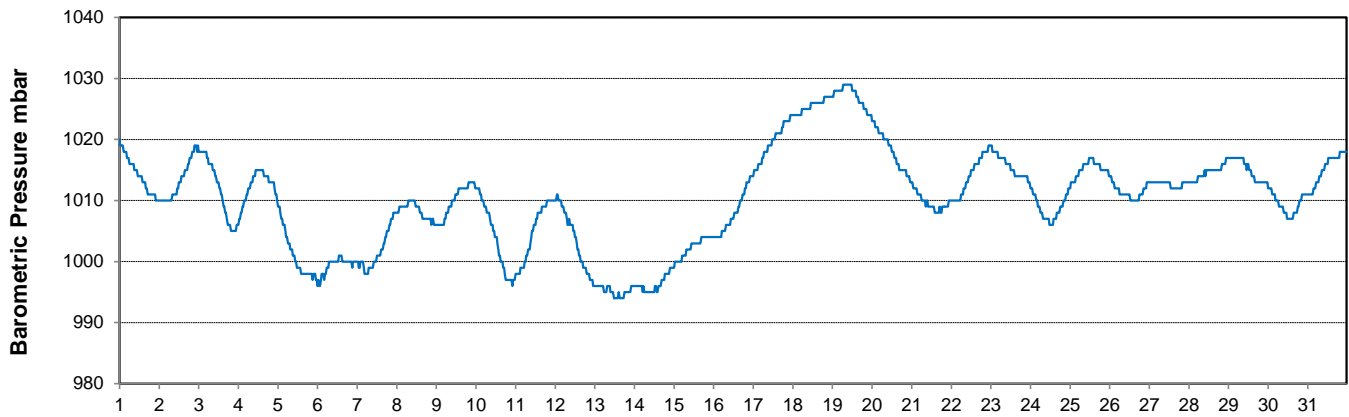
Temperature and Precipitation for March 2016



Relative Humidity for March 2016



Barometric Pressure Corrected to Sea Level for March 2016





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT



SASKATOON STATION 4057180

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

Preliminary MARCH 2016

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	25.6	ESE	23:43	-11.5	-2.0	-1.5	-1.0	0.5	2.0	3.0	5.0	9.8	8.6	10.9	78.6	11.2	2.6
2	29.3	SE	3:00	-7.0	-2.0	-1.5	-1.0	0.5	2.0	3.0	4.5	9.9	3.0	11.0	27.2	6.8	4.7
3	36.5	SE	14:57	-9.0	-2.0	-1.5	-1.0	0.0	2.0	3.0	4.5	9.9	0.1	11.1	0.9	6.0	4.9
4	29.1	SSE	23:25	-3.5	-1.5	-1.5	-1.0	0.0	2.0	3.0	4.5	10.1	3.9	11.1	35.0	8.3	5.5
5	29.7	WSW	15:16	-1.0	-1.5	-1.0	-1.0	0.0	1.5	2.5	4.5	10.3	10.4	11.2	92.8	12.3	2.8
6	32.0	E	20:58	-4.5	-0.5	-0.5	-0.5	0.0	1.5	2.5	4.5	10.8	7.1	11.3	62.9	11.5	3.9
7	57.9	E	4:03	-1.5	-0.5	-0.5	-0.5	0.0	1.5	2.5	4.5	11.4	0.0	11.3	0.0	3.2	2.7
8	26.3	SE	16:17	-1.0	-0.5	0.0	-0.5	0.0	1.5	2.5	4.5	11.4	0.0	11.4	0.0	3.9	3.3
9	27.9	E	0:32	-2.5	-0.5	0.0	-0.5	0.5	1.5	2.5	4.5	11.6	0.0	11.5	0.0	4.0	3.4
10	53.1	W	23:27	-1.5	-0.5	0.0	0.0	0.5	1.5	2.5	4.5	11.8	7.8	11.6	67.5	11.1	4.1
11	53.6	SW	1:15	3.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.5	11.2	11.6	96.5	14.1	1.2
12	48.5	SE	14:55	2.5	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.9	6.6	11.7	56.5	11.1	4.1
13	81.8	W	14:26	4.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	13.9	9.5	11.8	80.9	12.1	2.8
14	33.5	E	16:58	0.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	13.7	6.0	11.8	50.8	10.9	4.1
15	35.6	NW	17:37	0.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	14.5	0.0	11.9	0.0	5.2	3.8
16	32.8	NW	12:19	-9.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	14	2.9	12.0	24.3	11.2	7.4
17	32.5	NW	15:15	-7.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	13.5	0.0	12.0	0.0	7.2	5.9
18	27.0	NW	16:56	-7.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	13.1	1.8	12.1	14.9	10.2	7.6
19	21.8	SE	22:45	-10.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.7	10.0	12.2	82.2	16.6	3.3
20	39.3	ESE	11:57	-4.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.5	9.4	12.2	76.9	14.9	4.5
21	43.2	ENE	16:14	-2.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	13.2	2.3	12.3	18.7	8.2	5.8
22	35.5	ENE	2:55	-7.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.8	1.1	12.4	8.9	10.4	8.1
23	36.3	W	16:13	-4.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.7	2.4	12.4	19.3	8.5	5.9
24	35.1	E	13:43	-3.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.7	0.8	12.5	6.4	8.8	6.9
25	32.5	SSW	22:02	-5.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	12.6	2.0	12.6	15.9	9.8	7.4
26	39.9	NW	16:58	1.5	0.0	0.5	0.0	0.5	1.5	2.5	4.0	13.1	8.0	12.6	63.3	13.0	4.7
27	31.3	ESE	23:57	-0.5	0.0	0.5	0.0	0.5	1.5	2.5	4.0	13.3	10.6	12.7	83.5	16.3	4.2
28	34.0	ESE	4:15	-0.5	0.0	0.5	0.0	0.5	1.5	2.5	4.0	13.6	9.5	12.8	74.5	15.9	3.2
29	37.9	NW	15:50	3.5	0.0	0.5	0.0	0.5	1.5	2.5	4.0	14.3	10.6	12.8	82.6	16.4	3.5
30	55.0	N	17:17	3.0	0.0	0.5	0.0	0.5	1.5	2.5	4.0	14.9	2.4	12.9	18.6	7.7	4.6
31	48.0	NNW	8:22	0.0	0.0	0.5	0.0	0.5	1.5	2.5	4.0	15.1	6.8	13.0	52.4	12.7	5.8
Total													154.8	370.54	41.8	319.5	142.7
Mean				-2.7	-0.4	-0.2	-0.2	0.4	1.6	2.6	4.4	12.5	1981-2010 Normal for Radiation				
Extreme	81.8	W	14:26	1971- 2000 Normal for Soil Temperatures									182.0	369.4	49.3	371.9	162.6
Date	13				-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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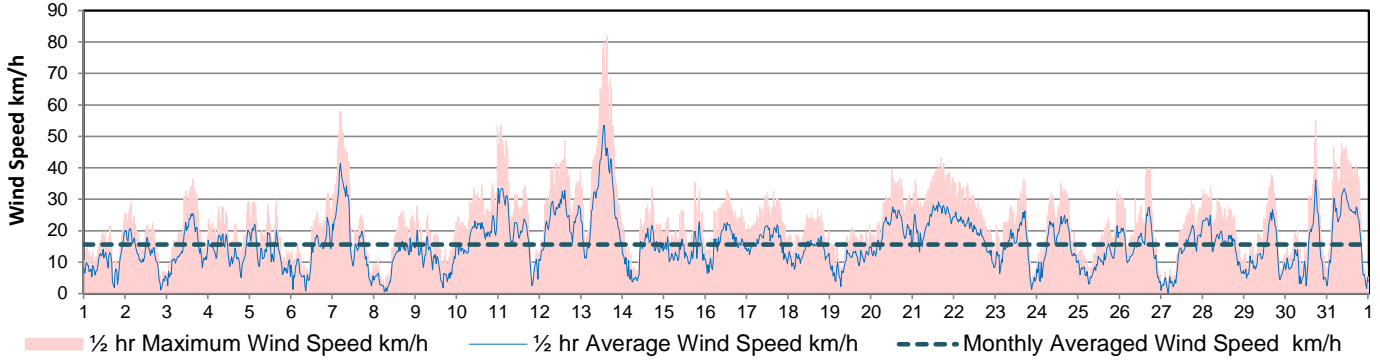


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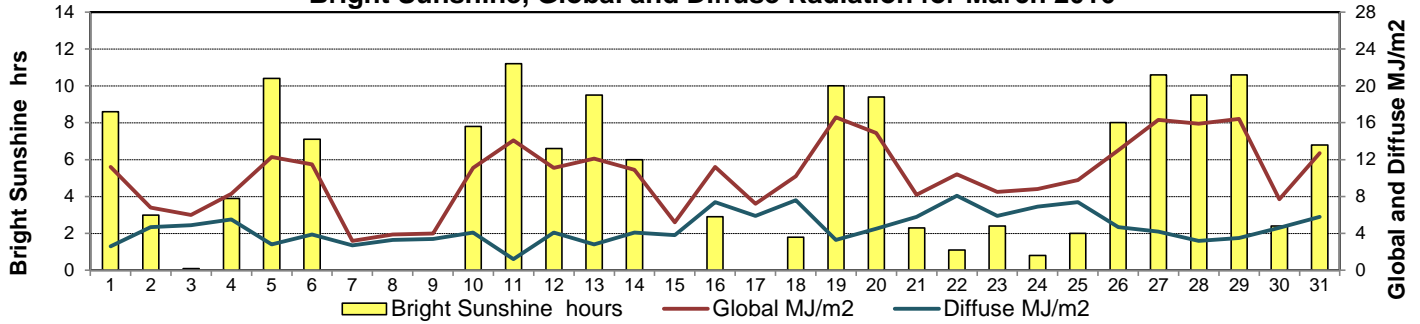
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Wind Speed for March 2016

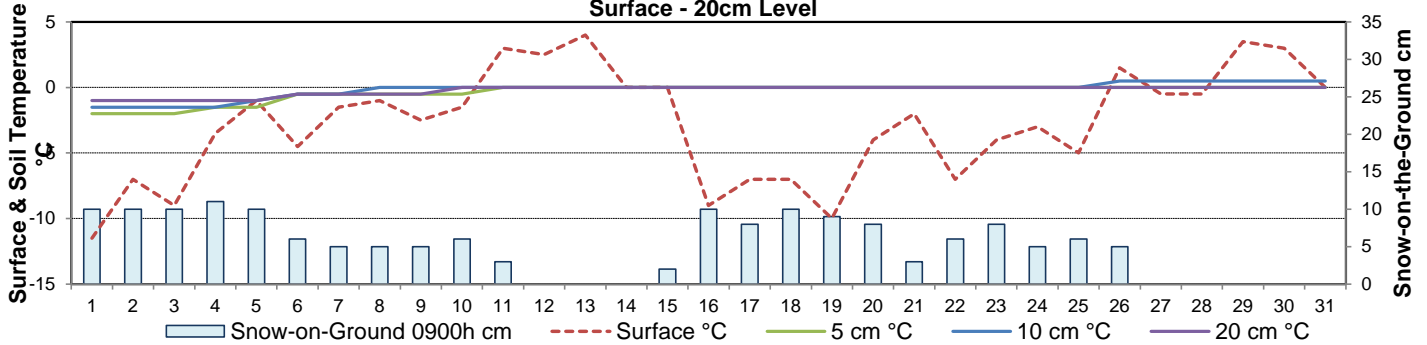


Bright Sunshine, Global and Diffuse Radiation for March 2016



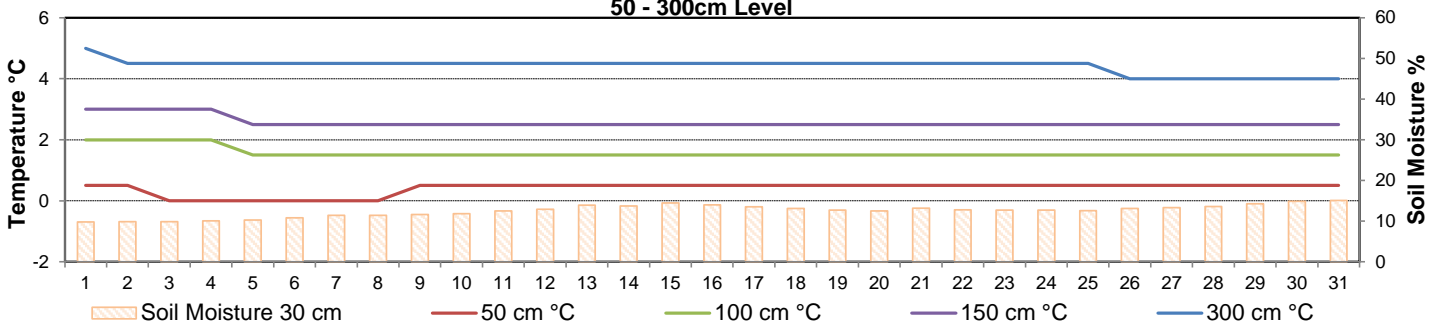
Soil Temperatures for March 2015

Surface - 20cm Level



Soil Temperatures for March 2016

50 - 300cm Level





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SASKATOON STATION 4057180

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

Preliminary **MARCH** 2016

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*

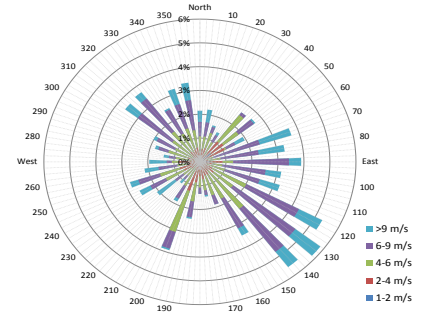
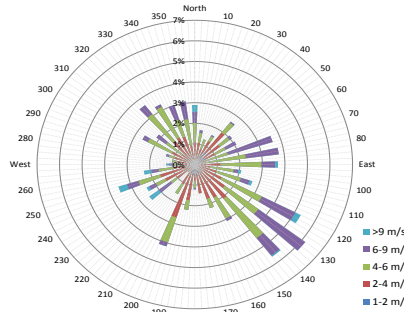
**1975 forward * more than one

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 Daily Maximum	10	10.2	9.5	1995	SM	NWMP	c. 1892-1901	T	Trace of precipitation
	Highest Daily Maximum	12	11.5	9.2	2007	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Highest Daily Minimum	13	2.6	1.2	2012	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Highest Daily Average	10	3.8	2.9	2012	S	Saskatoon	1941-1942	na	not available
	Highest Daily Average	12	6.2	4.7	1977	SA	Saskatoon A	1942 -	Degree-days	
	Highest Daily Average	13	6.7	6.2	2012	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
	Highest Lowest Mean Daily			-9.5	-10.7	2012	SRC	Sask. Res. Council	1963-	Growing
Precipitation	Daily Maximum	15	5.2	4.9	2013	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								

Discontinuous snow cover March 10

10 minute Average Wind Speed and Direction Saskatoon March 2016

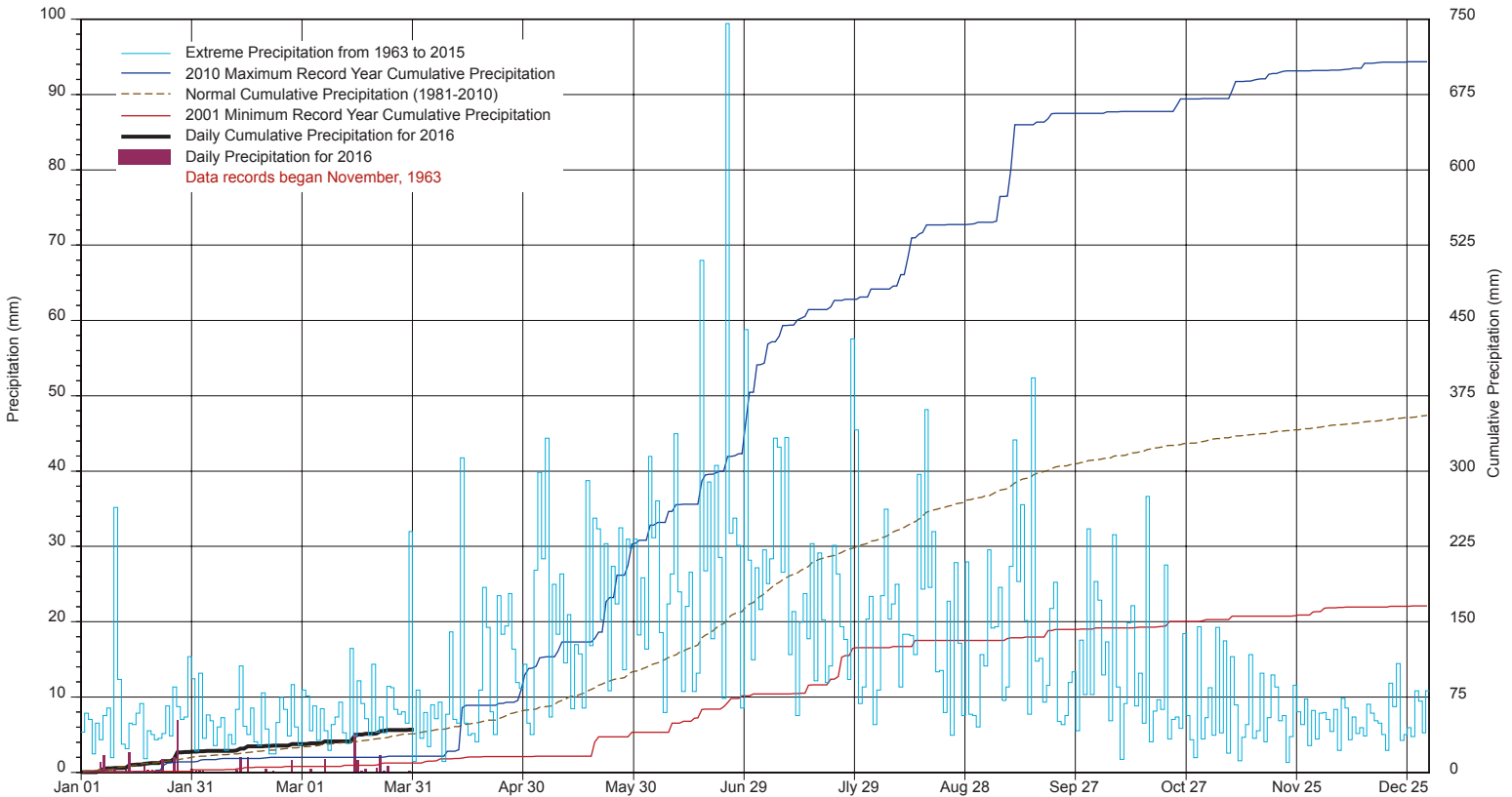
1/2 hr Maximum Wind Speed and Direction Saskatoon March 2016



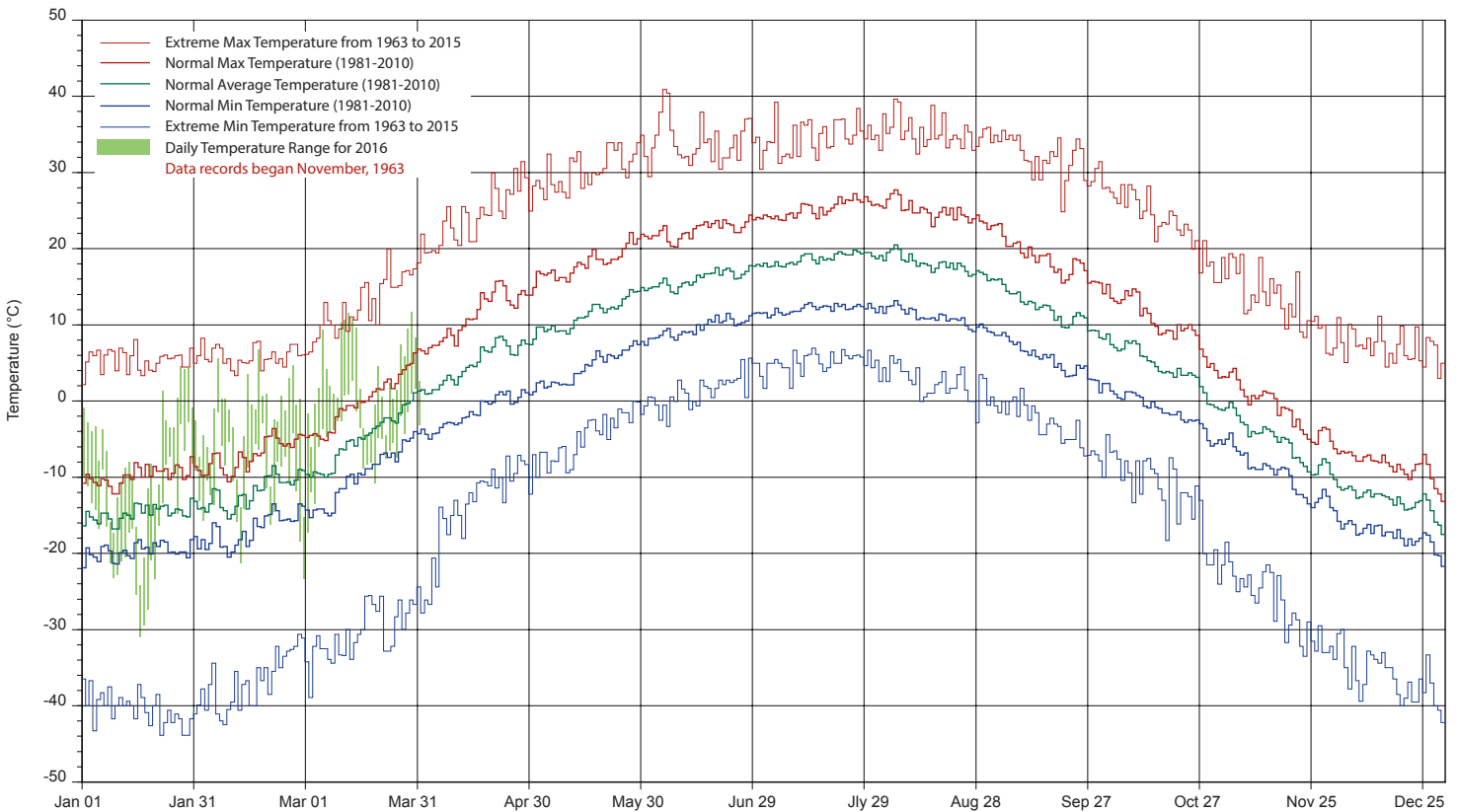
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2016 TEMPERATURES AND NORMALS



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