



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

**SASKATOON STATION 4057180**

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



Preliminary **APRIL 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	14.0	6.6	2.3	-3.7	8.2	1.5	3.2	9.8	0.0	2.4	light rain	0	91	45	1017	1002
2	12.0	6.2	1.8	-4.4	6.9	0.9	1.9	11.1	0.0	0.1		0	94	43	1008	1003
3	12.9	7.0	-1.0	-5.0	6.0	1.0	1.0	12.0	0.0	0.0		0	92	39	1013	1008
4	10.3	7.3	-2.4	-4.3	4.0	1.5	0.0	14.0	0.0	0.3		0	94	38	1017	1013
5	13.7	7.3	-1.7	-4.2	6.0	1.5	1.0	12.0	0.0	0.0		0	83	29	1017	1015
6	21.4	7.8	5.8	-3.5	13.6	2.1	8.6	4.4	0.0	0.0		0	55	25	1015	1001
7	21.8	8.3	6.9	-3.0	14.4	2.7	9.4	3.6	0.0	2.1	light rain	0	86	25	1001	992
8	10.1	9.5	0.2	-2.8	5.2	3.4	0.2	12.8	0.0	0.0		0	85	63	1008	992
9	0.4	8.6	-5.3	-2.9	-2.5	2.8	0.0	20.5	0.0	0.0		0	90	66	1022	1008
10	10.3	7.2	-7.2	-3.1	1.6	2.1	0.0	16.4	0.0	0.0		0	92	41	1022	1013
11	14.2	9.3	-0.2	-2.9	7.0	3.2	2.0	11.0	0.0	0.0		0	91	37	1017	1012
12	15.0	9.8	-3.4	-2.2	5.8	3.9	0.8	12.2	0.0	0.0		0	97	26	1020	1018
13	14.2	10.8	-0.7	-2.1	6.8	4.4	1.8	11.2	0.0	0.0		0	95	40	1020	1007
14	8.9	10.7	2.7	-1.4	5.8	4.7	0.8	12.2	0.0	5.3	light rain	0	94	52	1006	997
15	4.9	10.8	-4.7	-1.8	0.1	4.5	0.0	17.9	0.0	0.0		0	81	59	1014	1002
16	-1.9	12.0	-8.7	-1.9	-5.3	5.1	0.0	23.3	0.0	0.2	light snow	1	88	54	1023	1014
17	6.8	14.2	-7.9	0.0	-0.6	7.1	0.0	18.6	0.0	0.0		0	86	40	1023	1013
18	10.0	13.4	-2.8	-0.1	3.6	6.6	0.0	14.4	0.0	0.0		0	89	44	1014	1012
19	14.1	13.1	1.5	-0.4	7.8	6.4	2.8	10.2	0.0	0.0		0	91	45	1018	1012
20	17.0	14.3	-2.0	-0.2	7.5	7.1	2.5	10.5	0.0	0.0		0	96	35	1019	1015
21	11.3	15.7	-1.0	0.8	5.2	8.3	0.2	12.8	0.0	0.0		0	92	53	1025	1016
22	4.9	15.8	-3.2	1.2	0.9	8.5	0.0	17.1	0.0	0.1		0	95	53	1026	1022
23	6.2	15.1	0.5	0.8	3.4	8.0	0.0	14.6	0.0	4.2	mix of rain / snow	1	96	50	1022	1011
24	1.2	13.2	-1.8	1.3	-0.3	7.2	0.0	18.3	0.0	0.0		0	90	72	1014	1010
25	3.2	12.6	-3.9	-0.4	-0.4	6.1	0.0	18.4	0.0	0.0		0	84	46	1018	1014
26	7.6	12.2	-1.9	-0.2	2.9	6.0	0.0	15.1	0.0	0.3	light snow	1	93	28	1016	1009
27	10.1	14.0	0.7	0.5	5.4	7.3	0.4	12.6	0.0	0.0		0	65	22	1012	1009
28	11.5	14.5	2.1	1.5	6.8	8.0	1.8	11.2	0.0	0.0		0	78	31	1018	1012
29	14.6	13.9	-0.6	1.1	7.0	7.5	2.0	11.0	0.0	0.0		0	95	22	1020	1015
30	16.0	13.9	-0.8	0.8	7.6	7.4	2.6	10.4	0.0	1.7	light rain	0	93	36	1015	1008
Total							43.0	399.6	0.0	16.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	10.6	11.2	-1.2	-1.4	4.7	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	21.8		-8.7				65.2	402.4	0.2	49.5	Cumulative		97	22	1026	992
	7		16							61.5	Cumulative Normal		12	27	22	7

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

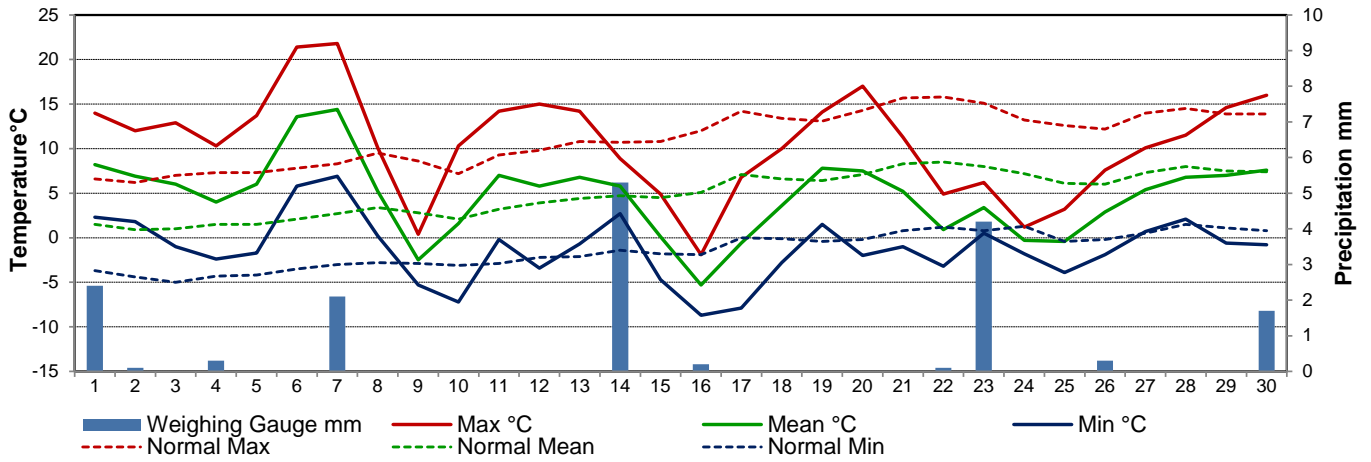
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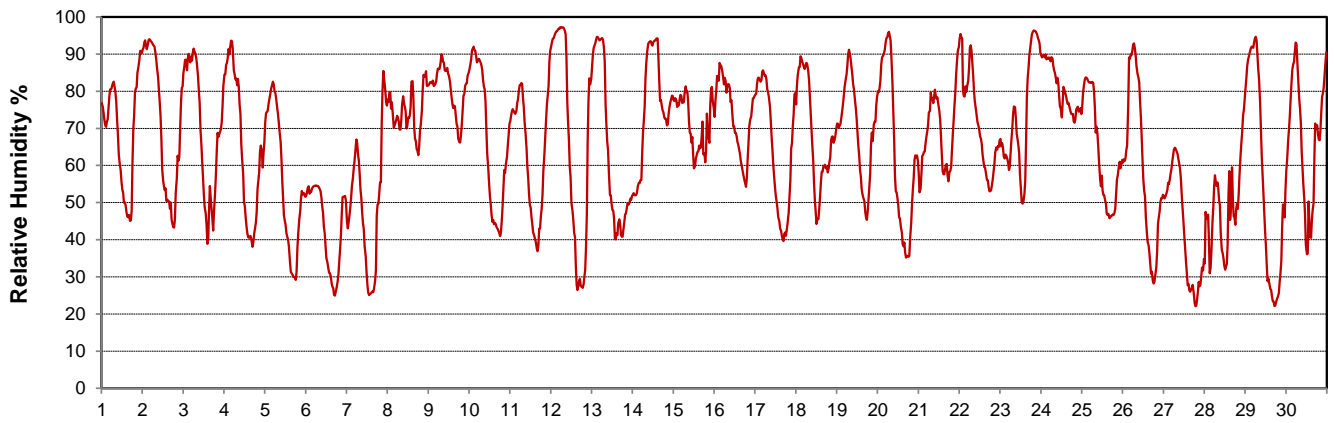
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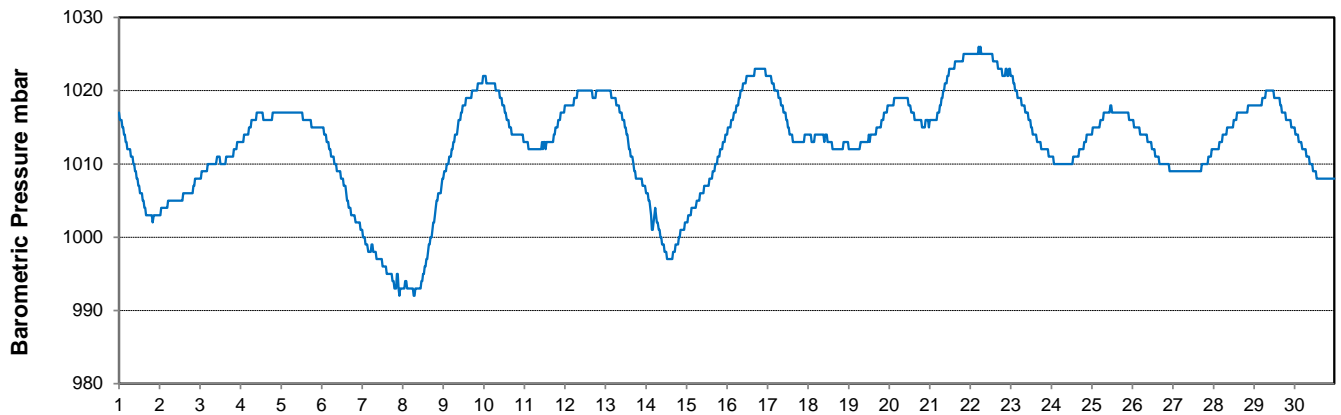
### Temperature and Precipitation for April 2017



### Relative Humidity for April 2017



### Barometric Pressure Corrected to Sea Level for April 2017





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary APRIL 2017

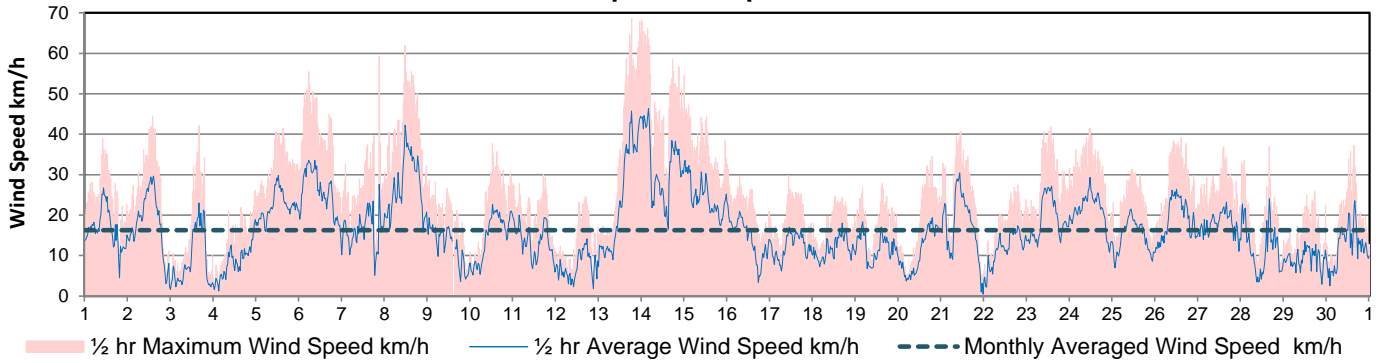
Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		0900hrs	Bright Sunshine	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	38.9	SSW	9:49	5.5	1.0	1.0	0.0	0.0	0.5	1.0	3.0	18	5.1	13.0	39.2	10.5	4.9
2	44.5	NNW	13:53	3.5	1.5	1.5	1.0	0.0	0.5	1.0	3.0	20	11.2	13.1	85.6	18.1	2.8
3	42.1	N	15:41	2.5	1.0	1.0	1.0	0.0	0.5	1.0	3.0	21	11.8	13.2	89.7	19.2	2.9
4	26.0	ESE	23:06	1.0	1.0	1.0	1.0	0.0	0.5	1.0	3.0	22	8.4	13.2	63.5	16.7	4.1
5	41.5	ESE	14:37	2.0	1.0	1.5	1.0	0.0	0.5	1.0	3.0	23	12.3	13.3	92.6	19.8	2.2
6	55.5	SSE	5:21	6.5	3.0	3.0	2.0	0.0	0.5	1.0	3.0	23	7.8	13.4	58.4	15.3	5.4
7	59.3	SSW	20:42	10.5	5.0	5.0	3.5	0.0	0.5	1.0	3.0	24	8.5	13.4	63.3	16.1	4.3
8	62.0	WSW	11:17	5.5	5.0	5.0	4.0	0.0	0.5	1.0	3.0	24	3.2	13.5	23.7	8.5	5.6
9	28.4	NNW	0:45	-3.0	2.0	2.5	2.5	0.0	0.5	1.0	3.0	23	0.0	13.6	0.0	5.2	4.2
10	37.8	SSE	12:18	-2.5	0.5	1.0	1.0	0.0	0.5	1.0	3.0	22	9.0	13.6	66.1	15.4	7.8
11	30.1	NE	16:55	3.0	1.0	1.5	1.0	0.0	0.5	1.0	3.0	23	11.8	13.7	86.3	20.3	4.3
12	24.6	S	16:07	2.5	2.0	2.5	2.5	0.5	0.5	1.0	3.0	23	11.9	13.8	86.5	21.3	3.5
13	68.7	E	18:09	5.5	3.5	4.0	3.5	0.5	0.5	1.0	3.0	23	2.7	13.8	19.6	8.6	5.9
14	67.7	ESE	0:07	4.0	4.0	4.0	3.5	0.5	0.5	1.0	3.0	23	0.1	13.9	0.7	2.8	2.2
15	47.2	W	2:24	2.5	2.0	2.5	2.5	0.5	0.5	1.0	3.0	24	1.0	14.0	7.2	8.6	6.1
16	31.4	N	0:11	-8.0	1.0	1.5	1.5	0.5	0.5	1.0	3.0	23	3.8	14.0	27.1	12.3	8.9
17	29.7	S	10:26	-3.0	0.5	0.5	1.0	0.5	0.5	1.0	3.0	22	11.2	14.1	79.5	17.5	8.4
18	24.6	SE	12:21	2.0	1.0	1.0	1.0	0.5	0.5	1.0	3.0	23	3.3	14.1	23.3	13.2	8.4
19	27.8	NE	14:30	3.0	3.0	3.0	2.5	0.5	0.5	1.0	3.0	23	5.8	14.2	40.8	13.9	7.0
20	34.4	SE	18:49	5.0	3.5	3.5	3.5	1.0	0.5	1.0	3.0	23	12.0	14.3	84.1	21.1	5.9
21	40.6	N	10:31	5.0	5.5	6.0	5.0	1.5	0.5	1.0	3.0	23	5.5	14.3	38.4	12.4	7.5
22	27.4	E	18:31	2.0	3.0	3.5	3.5	1.5	0.5	1.0	3.0	23	0.1	14.4	0.7	8.4	6.5
23	41.9	SE	13:03	2.0	2.5	3.0	3.0	1.5	0.5	1.0	3.0	23	0.8	14.5	5.5	8.3	6.0
24	41.5	SE	11:26	-0.5	2.0	2.5	2.5	1.5	0.5	1.5	3.0	23	0.0	14.5	0.0	6.1	4.8
25	31.4	ESE	10:32	0.5	1.0	1.5	1.5	1.0	1.0	1.5	3.0	23	5.9	14.6	40.5	15.8	7.6
26	39.2	E	14:07	0.0	1.5	2.0	2.0	1.5	1.0	1.5	3.0	23	7.0	14.7	47.8	18.1	9.9
27	37.0	ESE	14:04	2.0	2.5	3.0	3.0	2.0	1.0	1.5	3.0	23	2.3	14.7	15.6	11.5	7.9
28	36.8	WSW	15:44	5.5	3.5	3.5	3.5	2.0	1.5	1.5	3.0	23	5.8	14.8	39.3	14.2	7.7
29	25.8	SW	17:15	5.5	3.5	3.5	3.5	2.0	1.5	2.0	3.0	23	10.1	14.8	68.1	20.1	4.7
30	37.3	ENE	15:01	5.5	3.5	4.0	4.0	3.0	1.5	2.0	3.0	23	6.9	14.9	46.3	15.2	7.3
Total													185.3	419.09	44.2	414.5	174.7
Mean				2.5	2.4	2.6	2.4	0.8	0.7	1.2	3.0	23	1981-2010 Normal for Radiation				
Extreme	68.7	E	18:09	1971- 2000 Normal for Soil Temperatures									227.2	418.5	54.3	486.9	186.9
Date	13			3.1	3.6	4.0	3.0	1.6	1.5	2.4		No. of Bright Sunshine days = 28					

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

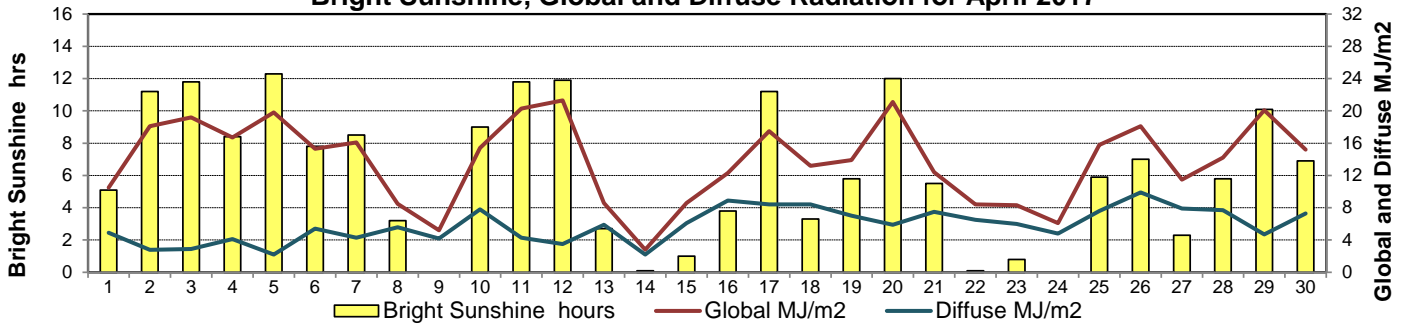
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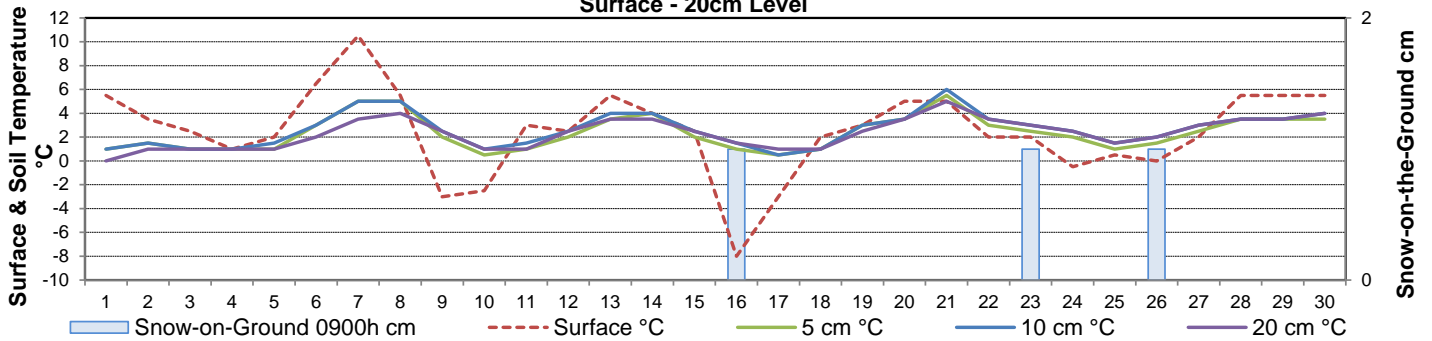
**Wind Speed for April 2017**



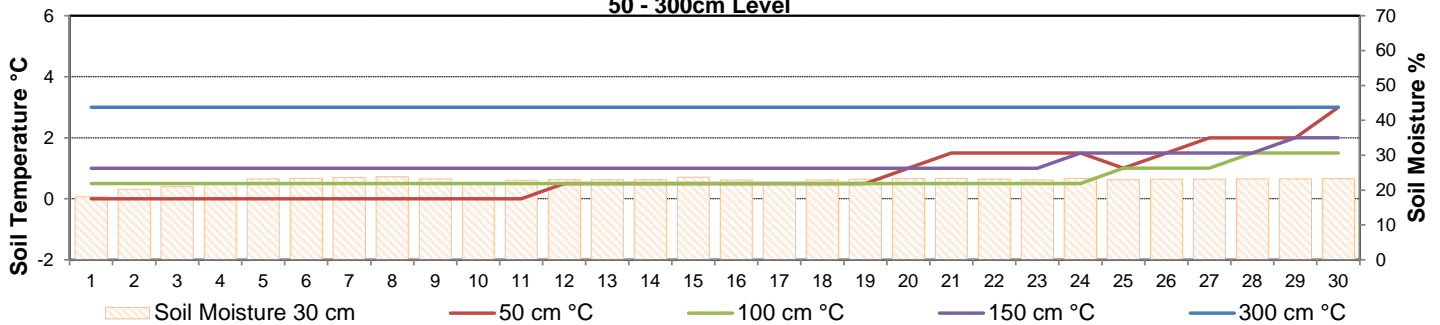
**Bright Sunshine, Global and Diffuse Radiation for April 2017**



**Soil Temperatures for April 2017  
Surface - 20cm Level**



**Soil Temperatures for April 2017  
50 - 300cm Level**





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

Preliminary **APRIL** **2017**

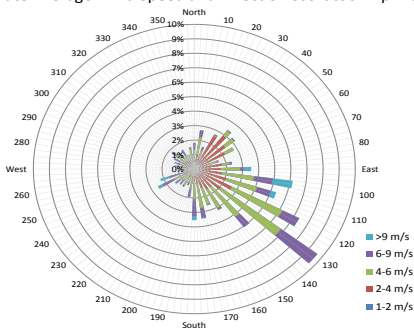
### Extreme Records for April

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
33.3	28/1952	SA US SF	31.5 28/2001	93.9	1955	SF	83.5 2014	108 <sup>W</sup>	06/1959	91.2 <sup>W</sup>	09/2010	304.7	2011	30	1968*
-30.5	01/1979	SWT	-27.8 01/1979	0.0	1897	SM	2.4 2007					165.7	1996	19	2003

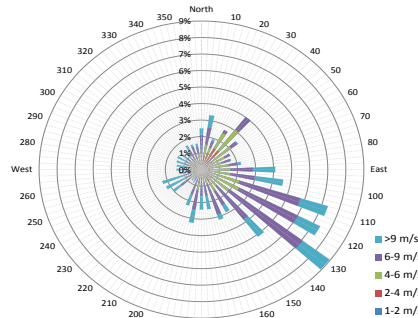
\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Symbol	Description	
Temperature	Highest Maximum Daily	6	21.4	20.5	1987	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Lowest Maximum Daily	16	-1.9	0.7	2013	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
		1	2.3	1.5	1988	US	Univ. of Sask. 1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Highest Minimum Daily	6	5.8	4.5	1987	S	Saskatoon 1941-1942	na	not available	
		7	6.9	5.5	1988	SA	Saskatoon A 1942 -	<b>Degree-days</b>		
	Highest Average Daily	6	13.6	12.5	1987	NRC	Nat. Res. Council 1952-1966	Tm	Mean Temperature	
7		14.4	12.6	2005	SRC	Sask. Res. Council 1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0		
Lowest Average Daily	7	14.4	12.6	2005	SWT	S'toon Water Treatment Plant 1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0		
	16	-5.3	-4.2	2013	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 Apr 2017



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



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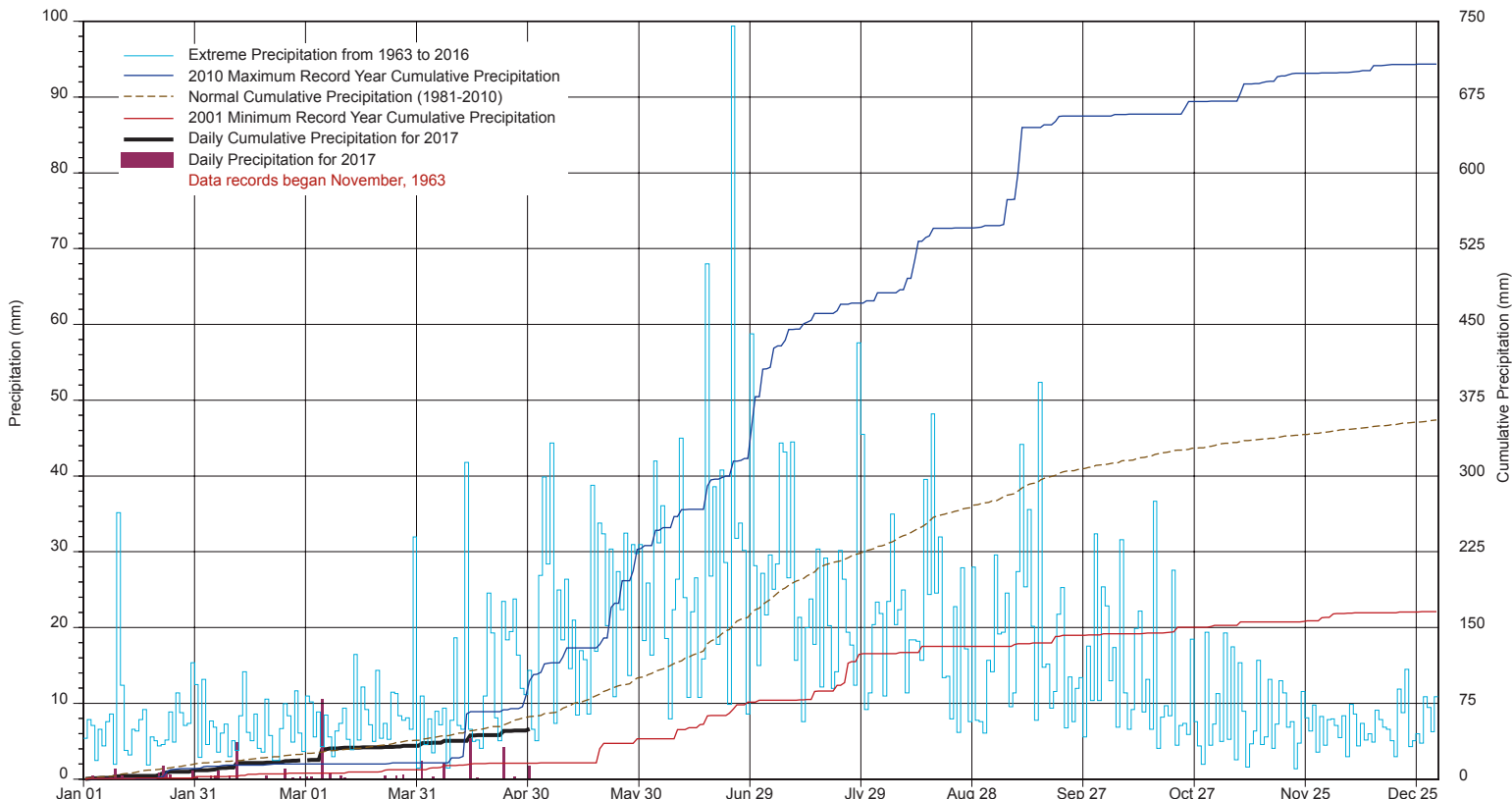


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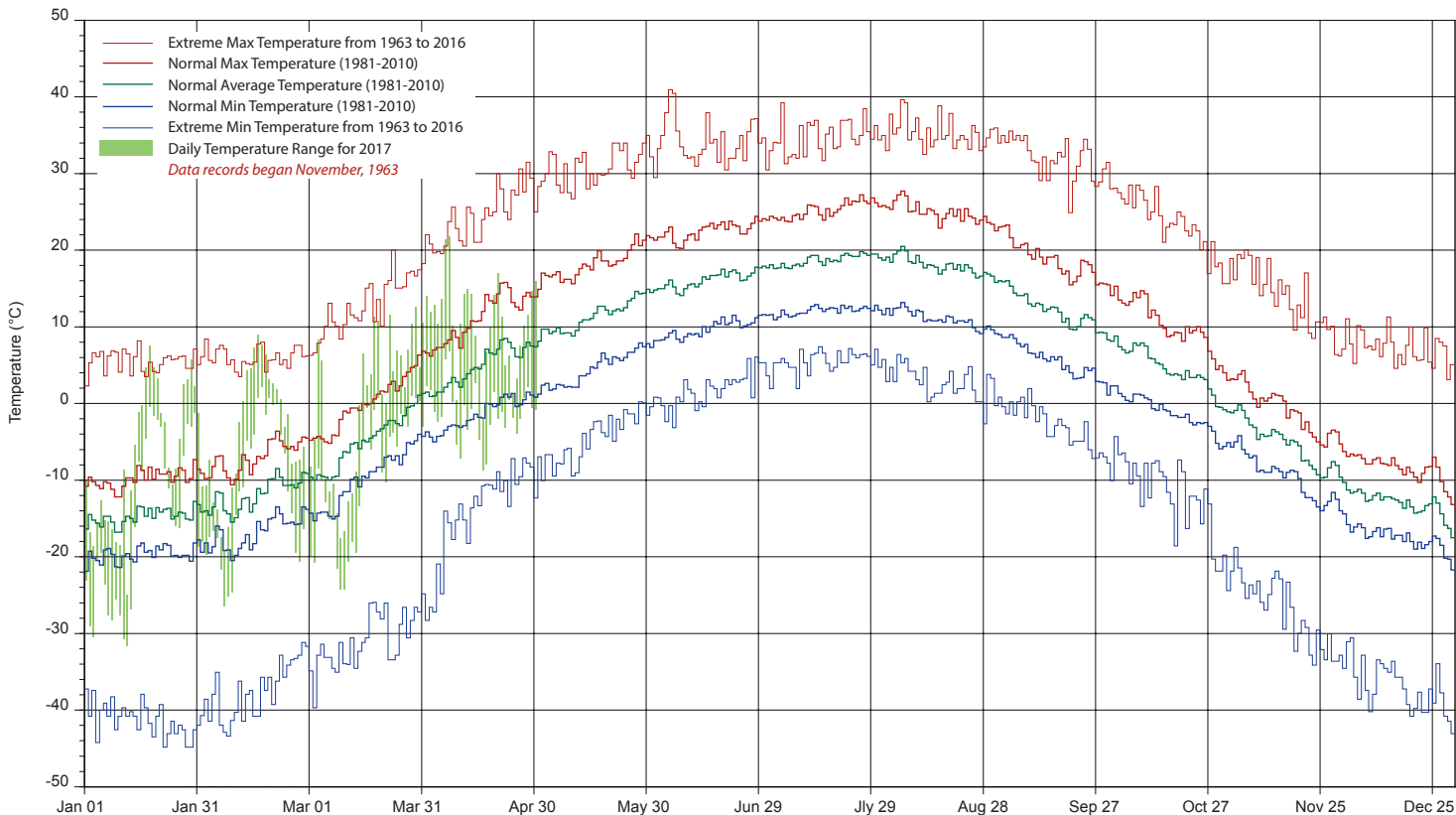
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# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2017 PRECIPITATION AND NORMALS



## 2017 TEMPERATURES AND NORMALS



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