



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL 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	-5.3	6.6	-16.1	-3.7	-10.7	1.5	0.0	28.7	0.0	0.0		8	73	45	1020	1012
2	-5.0	6.2	-19.4	-4.4	-12.2	0.9	0.0	30.2	0.0	0.0		8	87	46	1018	1013
3	-5.1	7.0	-15.0	-5.0	-10.1	1.0	0.0	28.1	0.0	0.0		7	82	57	1019	1017
4	-4.2	7.3	-14.8	-4.3	-9.5	1.5	0.0	27.5	0.0	0.0		7	87	47	1018	1016
5	-10.0	7.3	-16.1	-4.2	-13.1	1.5	0.0	31.1	0.0	0.1	very light snow	7	80	50	1030	1018
6	-8.6	7.8	-19.9	-3.5	-14.3	2.1	0.0	32.3	0.0	0.0		6	69	48	1031	1024
7	-6.6	8.3	-18.3	-3.0	-12.5	2.7	0.0	30.5	0.0	0.0		5	80	48	1024	1014
8	-3.2	9.5	-13.6	-2.8	-8.4	3.4	0.0	26.4	0.0	0.0		5	82	54	1019	1013
9	-0.9	8.6	-9.5	-2.9	-5.2	2.8	0.0	23.2	0.0	0.0	light snow	5	89	74	1019	1016
10	4.8	7.2	-9.1	-3.1	-2.2	2.1	0.0	20.2	0.0	0.0	discontinuous snow pack	5	92	52	1016	1011
11	-0.7	9.3	-5.1	-2.9	-2.9	3.2	0.0	20.9	0.0	3.8	snow	1	95	53	1011	1007
12	-2.7	9.8	-10.5	-2.2	-6.6	3.9	0.0	24.6	0.0	0.2		4	94	62	1017	1009
13	0.0	10.8	-13.7	-2.1	-6.9	4.4	0.0	24.9	0.0	0.0		3	89	47	1024	1017
14	3.9	10.7	-2.7	-1.4	0.6	4.7	0.0	17.4	0.0	0.0		1	86	68	1022	1015
15	3.3	10.8	-3.8	-1.8	-0.3	4.5	0.0	18.3	0.0	0.6	light rain	3	92	77	1017	1013
16	3.0	12.0	-1.3	-1.9	0.9	5.1	0.0	17.1	0.0	0.5		2	83	58	1014	1008
17	1.5	14.2	-1.4	0.0	0.1	7.1	0.0	17.9	0.0	3.9	snow	1	98	58	1013	1006
18	9.4	13.4	-3.0	-0.1	3.2	6.6	0.0	14.8	0.0	0.0		3	97	51	1024	1014
19	13.2	13.1	0.0	-0.4	6.6	6.4	1.6	11.4	0.0	0.0		0	78	31	1025	1022
20	18.6	14.3	0.8	-0.2	9.7	7.1	4.7	8.3	0.0	0.0		0	85	37	1022	1015
21	18.7	15.7	3.3	0.8	11.0	8.3	6.0	7.0	0.0	0.6	light rain	0	84	37	1015	1004
22	12.0	15.8	4.8	1.2	8.4	8.5	3.4	9.6	0.0	0.0		0	82	46	1020	1006
23	13.0	15.1	1.0	0.8	7.0	8.0	2.0	11.0	0.0	0.0		0	85	25	1027	1021
24	21.1	13.2	1.1	1.3	11.1	7.2	6.1	6.9	0.0	0.0		0	70	15	1027	1013
25	16.7	12.6	4.6	-0.4	10.7	6.1	5.7	7.3	0.0	0.0	tipping bucket activated	0	64	23	1018	1010
26	21.1	12.2	1.5	-0.2	11.3	6.0	6.3	6.7	0.0	0.0		0	68	19	1018	1013
27	15.8	14.0	-0.4	0.5	7.7	7.3	2.7	10.3	0.0	0.0		0	74	20	1022	1015
28	26.0	14.5	2.6	1.5	14.3	8.0	9.3	3.7	0.0	0.0		0	62	15	1015	999
29	18.8	13.9	4.2	1.1	11.5	7.5	6.5	6.5	0.0	3.6	light rain	0	87	34	1010	997
30	11.8	13.9	1.9	0.8	6.9	7.4	1.9	11.1	0.0	0.0		0	82	19	1014	1010
Total							56.2	533.9	0.0	13.3			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	6.0	11.2	-5.6	-1.4	0.2	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	26.0		-19.9				65.2	402.4	0.2	41.7	Cumulative		98	15	1031	997
	28		6							61.5	Cumulative Normal		17	24	6	29

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

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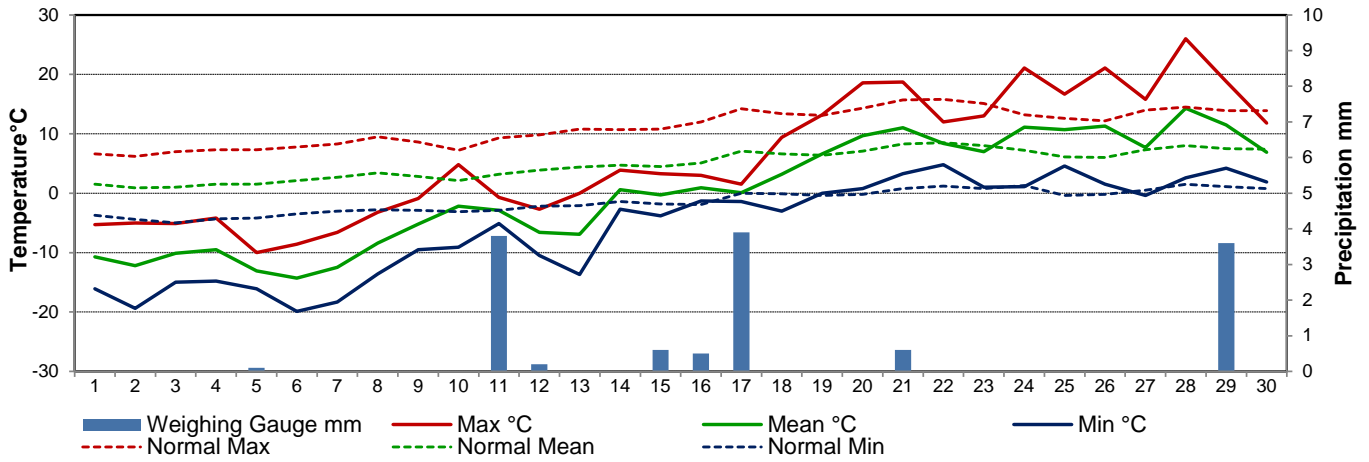


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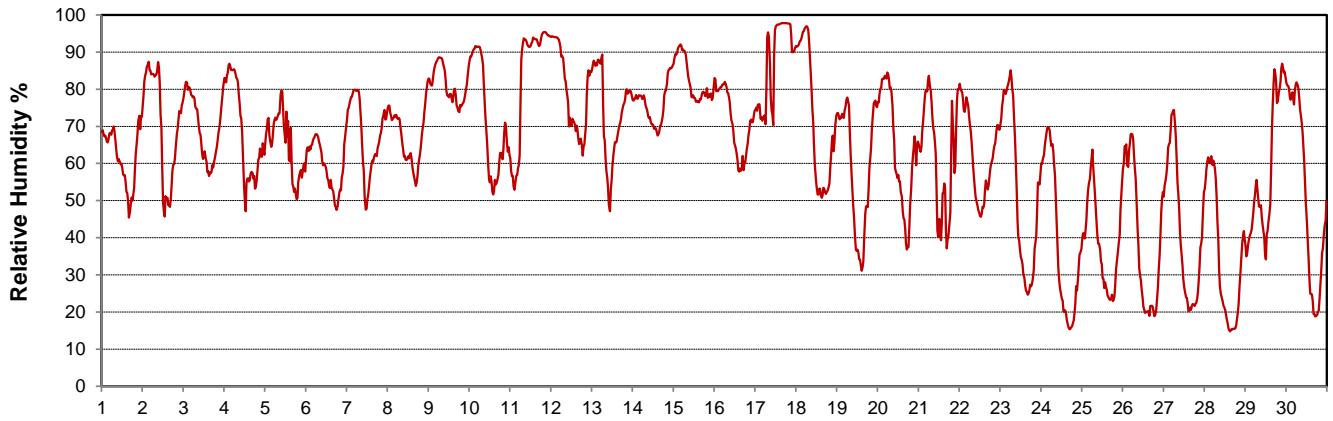
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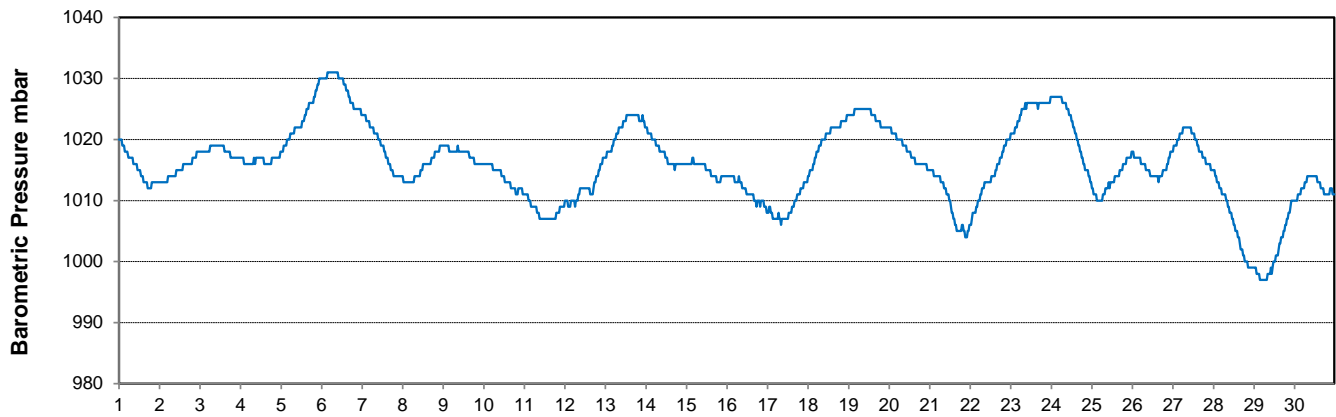
Temperature and Precipitation for April 2018



Relative Humidity for April 2018



Barometric Pressure Corrected to Sea Level for April 2018





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Preliminary **APRIL 2018**

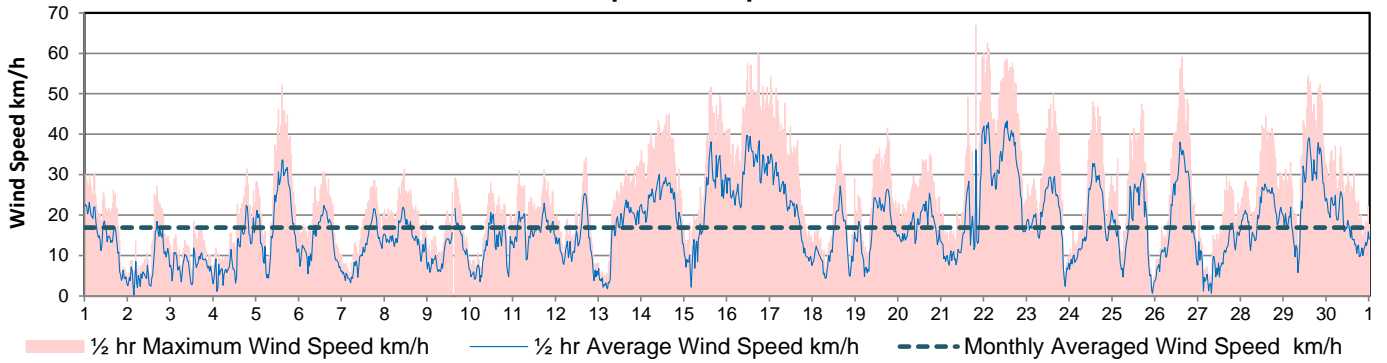
Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		0900hrs	Bright Sunshine	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m ²	MJ/m ²
1	30.5	WSW	5:12	-14.0	-5.0	-4.5	-4.0	-2.0	-0.5	0.5	3.0	8	12.4	13.0	95.4	19.9	2.8
2	27.3	W	16:00	-16.0	-5.0	-4.5	-4.0	-2.0	-0.5	0.5	3.0	8	12.6	13.1	96.4	19.2	5.1
3	18.5	E	12:43	-13.0	-5.0	-5.0	-4.5	-2.0	-0.5	0.5	3.0	8	12.6	13.1	95.9	21.0	3.0
4	31.5	NW	18:41	-11.5	-5.5	-5.0	-4.5	-2.5	-0.5	0.5	3.0	8	12.4	13.2	93.9	20.9	3.5
5	52.2	N	14:26	-13.5	-5.0	-4.5	-4.5	-2.5	-0.5	0.5	3.0	8	13.0	13.3	98.0	16.5	7.5
6	30.6	WNW	13:34	-16.5	-5.5	-5.0	-4.5	-2.5	-0.5	0.5	3.0	8	13.0	13.3	97.5	21.8	2.5
7	28.6	ESE	17:39	-13.5	-6.0	-5.5	-5.0	-2.5	-0.5	0.5	3.0	8	13.1	13.4	97.8	22.9	3.0
8	31.3	ESE	10:32	-10.5	-6.0	-5.5	-5.0	-2.5	-0.5	0.5	2.5	8	13.3	13.5	98.7	21.3	4.0
9	29.2	SW	15:03	-4.5	-5.5	-5.0	-4.5	-2.5	-0.5	0.5	2.5	8	6.5	13.5	48.0	10.0	7.1
10	28.2	WSW	11:18	-6.0	-4.5	-4.5	-4.0	-2.5	-0.5	0.5	2.5	9	11.5	13.6	84.6	21.1	4.6
11	31.2	ENE	17:08	-0.5	0.0	0.0	-0.5	-1.0	-0.5	0.5	2.5	11	1.5	13.7	11.0	8.2	6.4
12	34.3	NE	16:35	-9.0	-2.0	-2.0	-2.0	-2.0	-0.5	0.5	2.5	10	12.2	13.7	88.9	21.2	4.1
13	36.0	SSE	23:33	-5.5	-2.0	-2.0	-2.0	-2.0	-0.5	0.5	2.5	9	6.5	13.8	47.1	16.1	10.2
14	44.9	SSE	15:24	-2.0	-1.5	-1.5	-2.0	-1.5	-0.5	0.5	2.5	10	10.0	13.9	72.2	18.7	8.6
15	51.6	ESE	14:50	-1.0	-0.5	-0.5	-1.0	-1.5	-0.5	0.5	2.5	10	7.3	13.9	52.4	17.2	6.5
16	60.0	ESE	17:22	-0.5	0.0	0.0	-0.5	-1.0	-0.5	0.5	2.5	11	6.9	14.0	49.3	16.7	8.1
17	54.4	SE	0:22	-1.0	0.0	0.0	0.0	-0.5	-0.5	0.5	2.5	11	0.0	14.1	0.0	5.8	4.6
18	37.5	WSW	15:19	0.0	0.0	0.5	0.0	0.0	-0.5	0.5	2.5	12	13.4	14.1	94.9	24.2	2.5
19	41.4	SSE	17:52	5.0	0.5	0.5	0.0	0.0	0.0	0.5	2.5	12	13.5	14.2	95.1	23.6	2.5
20	35.3	SSW	17:00	4.0	0.5	0.5	0.5	0.0	0.0	0.5	2.5	14	13.5	14.3	94.7	22.9	4.1
21	66.9	SW	19:08	7.0	3.0	2.5	2.5	0.5	0.0	0.5	2.5	16	2.7	14.3	18.9	11.1	7.6
22	62.5	WSW	1:42	7.0	4.0	4.0	3.5	0.5	0.0	0.5	2.5	16	10.9	14.4	75.8	21.8	3.7
23	50.0	NW	14:48	5.5	3.0	3.5	3.5	1.0	0.0	0.5	2.5	16	13.8	14.4	95.6	24.2	3.0
24	48.0	SW	12:52	7.5	3.5	4.0	4.0	1.5	0.0	0.5	2.5	15	12.5	14.5	86.1	22.7	4.6
25	47.5	NNW	16:06	10.0	5.5	6.0	5.0	2.0	0.0	0.5	2.5	16	9.2	14.6	63.1	19.1	5.6
26	59.1	WNW	14:35	10.5	5.0	5.5	5.5	2.5	0.0	0.5	2.5	16	14.0	14.6	95.7	24.6	2.4
27	29.8	E	15:30	7.5	5.0	6.0	6.0	3.0	0.0	0.5	2.5	16	14.1	14.7	96.0	24.7	2.7
28	44.6	SE	13:31	12.0	6.5	7.0	6.5	3.0	0.0	0.5	2.5	16	13.9	14.8	94.2	24.9	3.0
29	54.5	N	13:51	14.5	9.5	9.5	8.5	4.0	0.0	0.5	2.5	16	3.4	14.8	23.0	10.1	6.0
30	37.1	NE	4:35	4.0	6.5	7.0	7.0	4.5	0.0	0.5	2.5	16	12.8	14.9	86.0	24.0	5.9
Total													312.5	418.61	74.7	576.4	145.2
Mean				-1.5	-0.2	0.1	0.0	-0.4	-0.3	0.5	2.6	12	1981-2010 Normal for Radiation				
Extreme	66.9	SW	19:08	1971- 2000 Normal for Soil Temperatures									227.2	418.5	54.3	486.9	186.9
Date	21			3.1	3.6	4.0	3.0	1.6	1.5	2.4		No. of Bright Sunshine days = 29					

Note: Red numbers indicate manual calculation; Red cell indicates data not available
 Bright Sunshine Recorder had erroneous readings Apr 8-12. Equipment was swapped with backup BSR early Apr 13

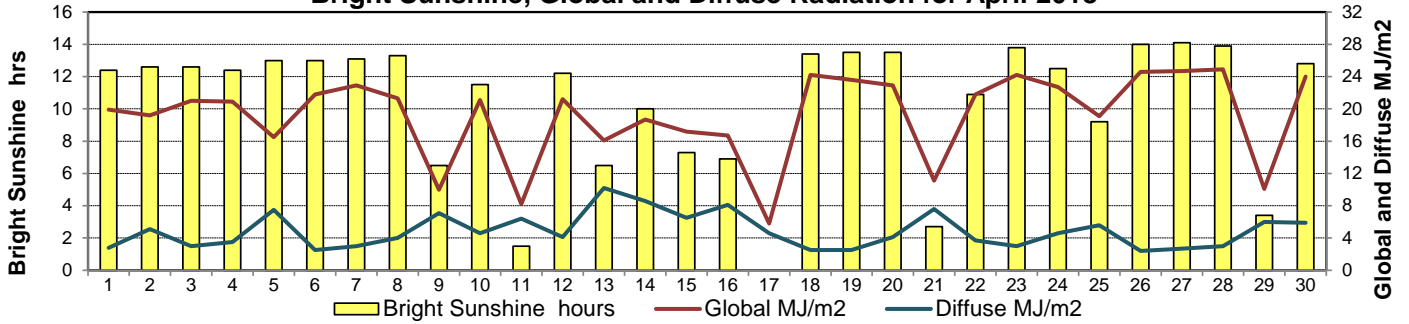
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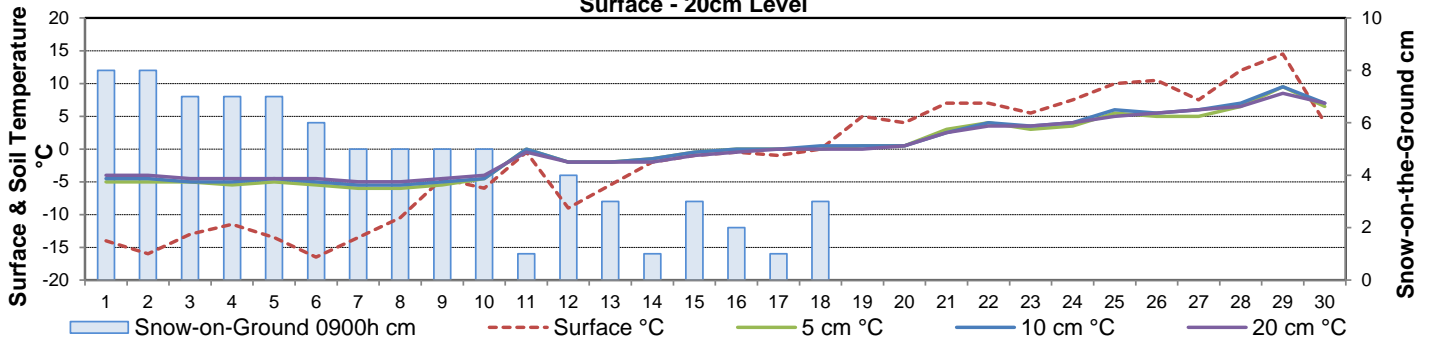
Wind Speed for April 2018



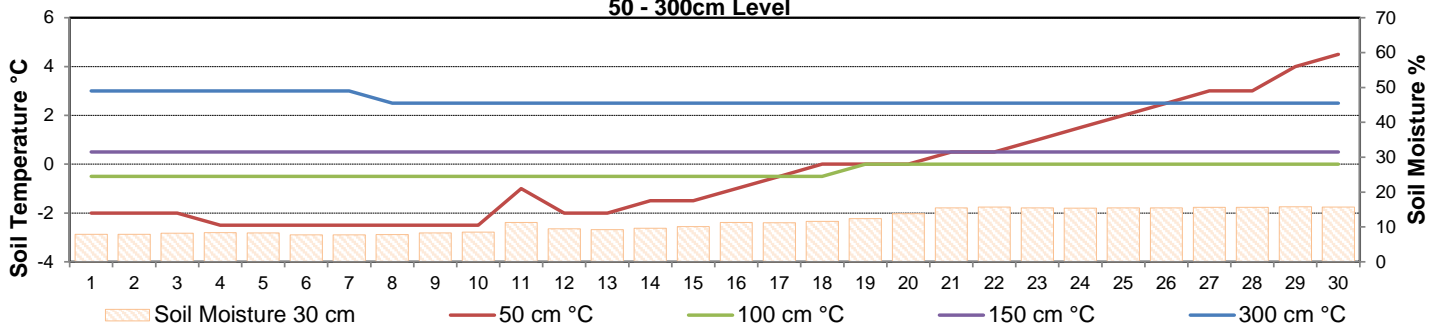
Bright Sunshine, Global and Diffuse Radiation for April 2018



**Soil Temperatures for April 2018
Surface - 20cm Level**



**Soil Temperatures for April 2018
50 - 300cm Level**





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Preliminary **APRIL** **2018**

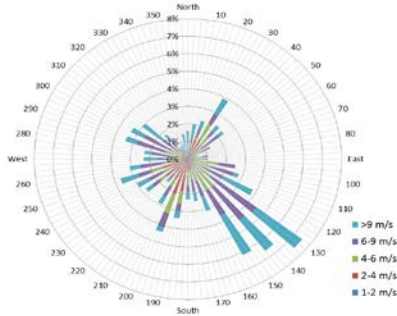
Extreme Records for April

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 ^W	06/1959	91.2 ^W	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

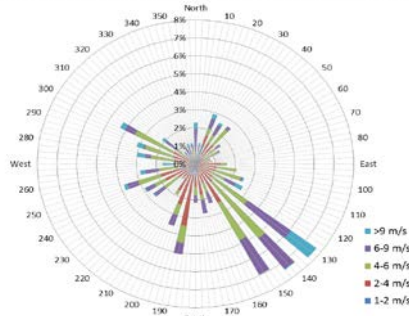
**1975 forward * more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Symbol	Description	
Temperature	Lowest Maximum Daily	6	-8.6	-7.5	1997	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Lowest Minimum Daily	6	-19.9	-13.9	1979	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
	Lowest Minimum Daily	7	-18.3	-15.4	1997	US	Univ. of Sask. 1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Lowest Minimum Daily	13	-13.7	-13.5	1983	S	Saskatoon 1941-1942	na	not available	
	Lowest Mean Daily	6	-14.3	-10.1	1979	SA	Saskatoon A 1942 -	Degree-days		
	Fewest Number of days > 0°C		18	21	1979	NRC	Nat. Res. Council 1952-1966	Tm	Mean Temperature	
	Greatest Number of days <=-10°		10	7	1979	SRC	Sask. Res. Council 1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
Bright Sunshine	No. of days >=10 hours		21	20	1980	SWT	S'toon Water Treatment Plant 1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0	
	Greatest Monthly Bright Sunshine Hours		312.5	304.7	2011	SC	S'toon Central Ave 1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0	
	% of Bright Sunshine hours vs Possible		74.7	72.9	2011	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 Apr 2018



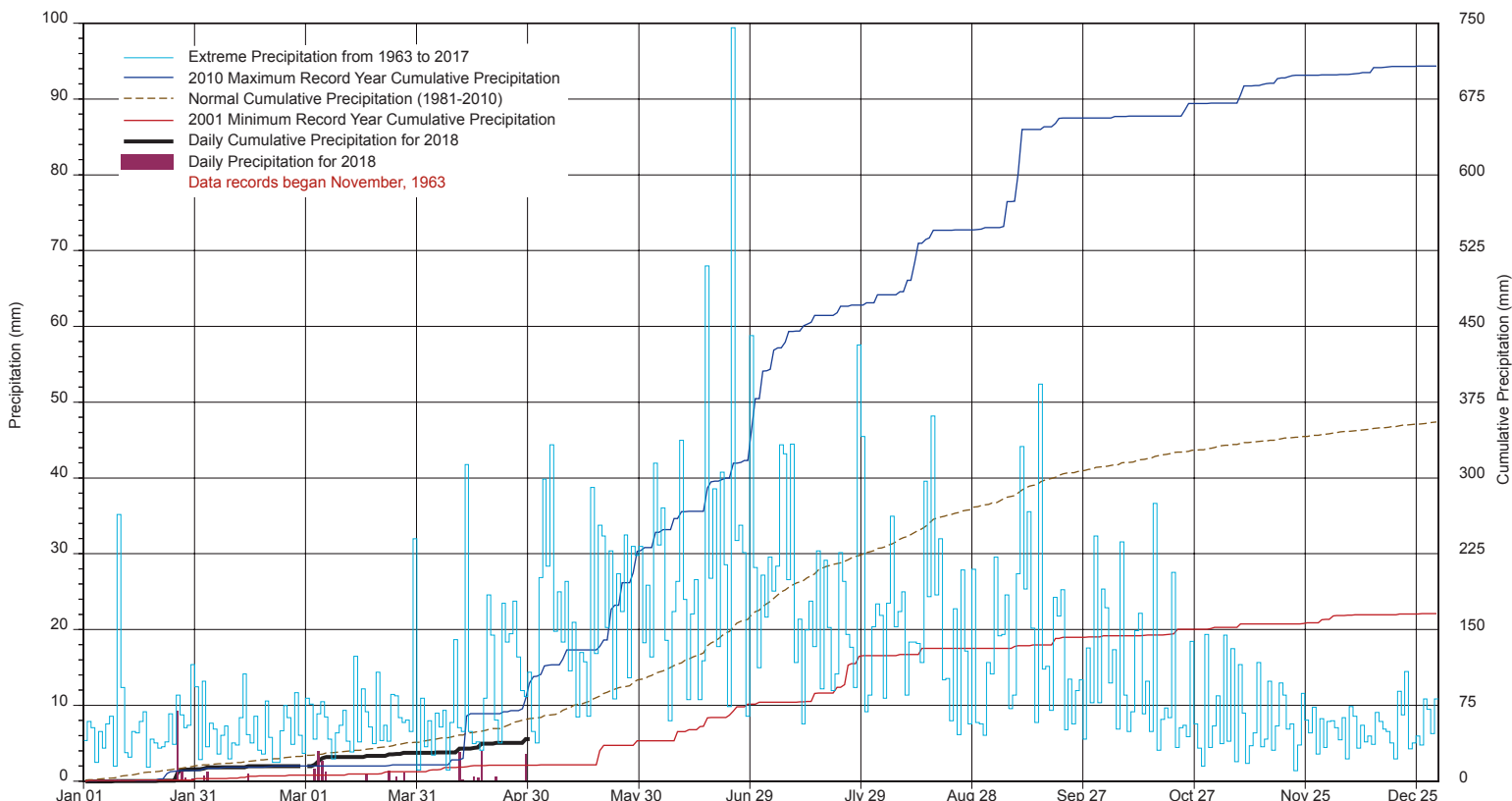
10 minute Average Wind Speed and Direction Saskatoon Apr 2018



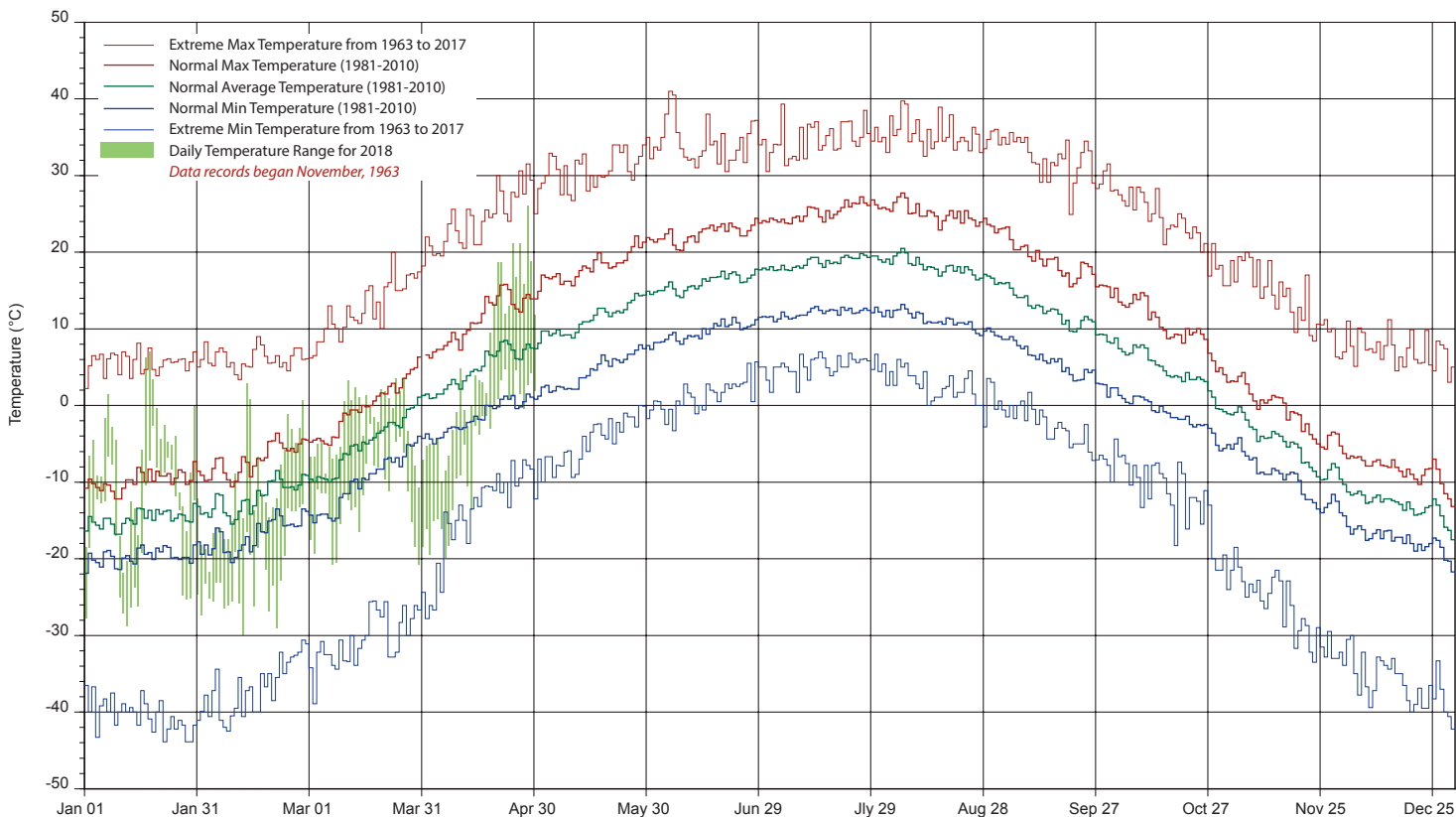
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SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2018 PRECIPITATION AND NORMALS



2018 TEMPERATURES AND NORMALS



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