



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT



SASKATOON STATION 4057180

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

Preliminary APRIL 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	10.8	6.6	-3.6	-3.7	3.6	1.5	0.0	14.4	0.0	0.0		0	80	48	1018	1012
2	20.8	6.2	-1.5	-4.4	9.7	0.9	4.7	8.3	0.0	0.0		0	88	29	1014	999
3	4.8	7.0	-4.1	-5.0	0.4	1.0	0.0	17.6	0.0	0.0		0	93	61	1020	1001
4	5.1	7.3	-6.8	-4.3	-0.9	1.5	0.0	18.9	0.0	0.0		0	92	56	1021	1007
5	3.0	7.3	-1.0	-4.2	1.0	1.5	0.0	17.0	0.0	0.6	light rain snow	0	95	73	1015	1005
6	11.5	7.8	0.4	-3.5	6.0	2.1	1.0	12.0	0.0	0.0		0	90	46	1016	1005
7	8.1	8.3	-1.6	-3.0	3.3	2.7	0.0	14.7	0.0	0.0		0	83	45	1022	1016
8	6.1	9.5	-3.9	-2.8	1.1	3.4	0.0	16.9	0.0	0.1		0	90	53	1023	1002
9	6.0	8.6	-1.2	-2.9	2.4	2.8	0.0	15.6	0.0	0.3	light rain snow	0	88	57	1006	992
10	0.0	7.2	-6.7	-3.1	-3.4	2.1	0.0	21.4	0.0	0.0	light snow	0	79	45	1020	1007
11	8.3	9.3	-8.4	-2.9	0.0	3.2	0.0	18.0	0.0	0.0		0	90	24	1021	1010
12	20.2	9.8	-0.1	-2.2	10.1	3.9	5.1	7.9	0.0	0.0		0	67	23	1010	1008
13	14.7	10.8	6.6	-2.1	10.7	4.4	5.7	7.3	0.0	0.0		0	81	40	1009	1002
14	14.7	10.7	1.6	-1.4	8.2	4.7	3.2	9.8	0.0	0.0		0	93	25	1012	1005
15	7.1	10.8	-0.3	-1.8	3.4	4.5	0.0	14.6	0.0	0.0		0	86	50	1025	1013
16	13.1	12.0	-3.9	-1.9	4.6	5.1	0.0	13.4	0.0	0.0		0	95	28	1030	1025
17	18.5	14.2	-3.1	0.0	7.7	7.1	2.7	10.3	0.0	0.0		0	84	12	1032	1028
18	22.2	13.4	1.9	-0.1	12.1	6.6	7.1	5.9	0.0	0.0		0	58	9	1031	1024
19	25.0	13.1	5.5	-0.4	15.3	6.4	10.3	2.7	0.0	0.0		0	56	11	1024	1011
20	19.0	14.3	0.4	-0.2	9.7	7.1	4.7	8.3	0.0	0.0		0	75	15	1023	1010
21	12.2	15.7	-4.6	0.8	3.8	8.3	0.0	14.2	0.0	0.0		0	93	30	1024	1017
22	8.3	15.8	4.7	1.2	6.5	8.5	1.5	11.5	0.0	0.5	light snow rain	0	84	49	1018	1016
23	9.3	15.1	1.8	0.8	5.6	8.0	0.6	12.4	0.0	1.0	light snow rain	0	87	33	1018	1016
24	9.0	13.2	1.6	1.3	5.3	7.2	0.3	12.7	0.0	0.0		0	62	23	1017	1015
25	12.3	12.6	0.7	-0.4	6.5	6.1	1.5	11.5	0.0	0.0		0	54	20	1016	1015
26	13.0	12.2	0.8	-0.2	6.9	6.0	1.9	11.1	0.0	0.0		0	62	27	1017	1016
27	17.1	14.0	1.7	0.5	9.4	7.3	4.4	8.6	0.0	0.0	tipping bucket uncapped	0	67	17	1021	1017
28	16.8	14.5	3.5	1.5	10.2	8.0	5.2	7.8	0.0	0.0		0	62	19	1023	1021
29	18.3	13.9	3.3	1.1	10.8	7.5	5.8	7.2	0.0	0.0		0	65	15	1021	1019
30	20.3	13.9	4.4	0.8	12.4	7.4	7.4	5.6	0.0	0.0		0	62	18	1026	1021
Total							73.1	357.6	0.0	2.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	12.5	11.2	-0.4	-1.4	6.1	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	25.0		-8.4				65.2	402.4	0.2	44.7	Cumulative		95	9	1032	992
	19		11							61.5	Cumulative Normal		5	18	17	9

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

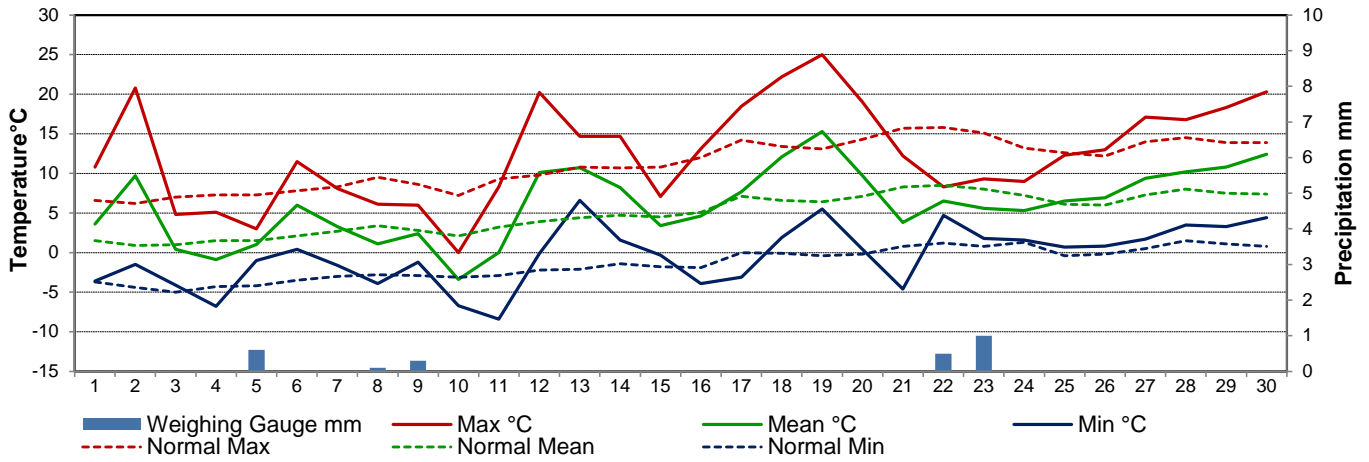
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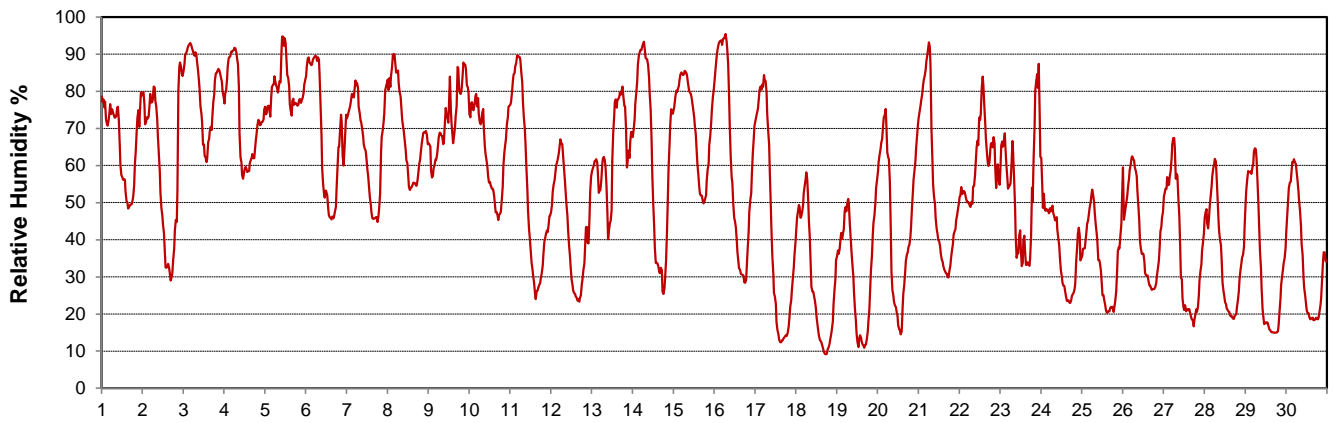
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



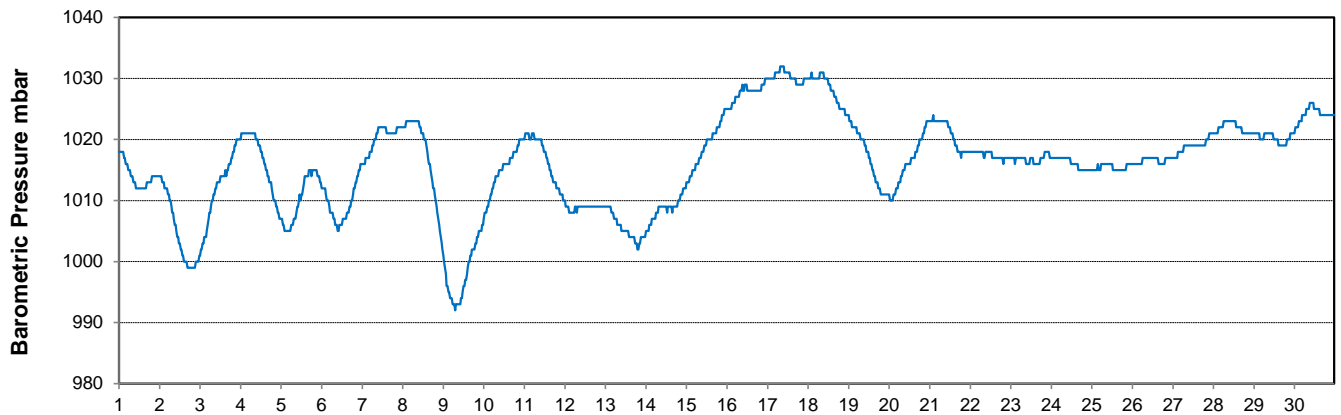
### Temperature and Precipitation for April 2016



### Relative Humidity for April 2016



### Barometric Pressure Corrected to Sea Level for April 2016





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SASKATOON STATION 4057180

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

Preliminary APRIL 2016

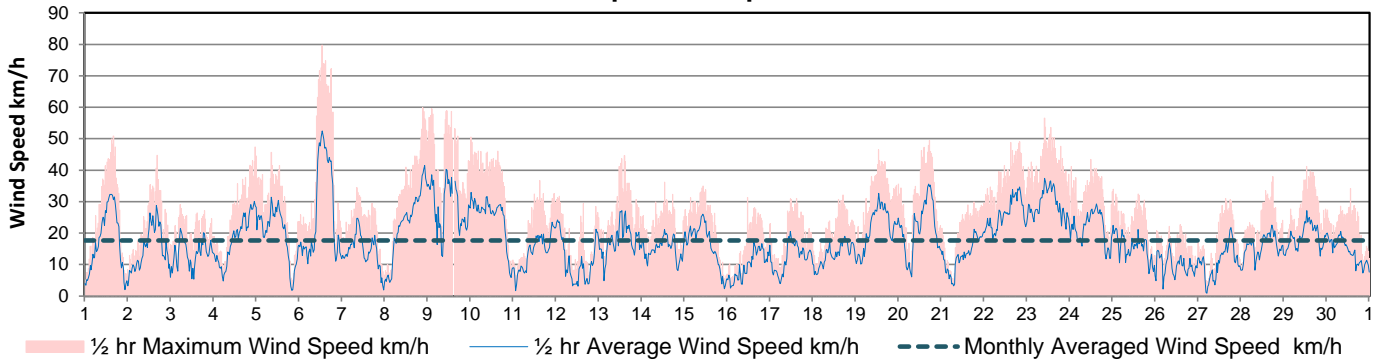
Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		0900hrs	Bright Sunshine	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	50.8	NW	15:40	1.0	0.0	0.5	0.0	1.0	1.5	2.5	4.0	15	9.7	13.0	74.4	16.0	5.2
2	44.7	WNW	16:22	3.5	0.5	1.0	1.0	1.0	1.5	2.5	4.0	15	12.0	13.1	91.6	19.0	1.7
3	29.1	NNE	5:13	-3.5	2.0	2.5	2.5	1.5	2.0	2.5	4.0	17	3.9	13.2	29.6	10.5	5.8
4	47.4	E	23:01	-3.0	1.0	1.5	2.0	2.0	2.0	2.5	4.0	16	7.2	13.2	54.4	14.7	5.4
5	45.6	NE	8:21	-0.5	2.0	2.0	2.0	2.0	2.0	2.5	4.0	17	0.7	13.3	5.3	6.6	5.1
6	79.7	NW	12:57	5.0	2.0	2.0	2.0	2.0	2.0	2.5	4.0	17	8.3	13.4	62.1	16.4	4.2
7	34.5	N	8:20	0.5	2.5	3.0	3.0	2.5	2.0	2.5	4.0	18	11.8	13.4	87.9	19.2	3.6
8	59.8	SE	21:24	-1.0	1.5	2.5	3.5	3.0	2.5	2.5	4.0	19	8.1	13.5	60.0	15.4	5.9
9	59.5	SE	2:23	4.0	2.5	3.0	3.0	3.0	2.5	2.5	4.0	19	1.0	13.6	7.4	6.1	4.4
10	50.6	NNW	0:07	-5.5	1.0	2.0	2.5	3.0	2.5	3.0	4.0	19	10.7	13.6	78.5	18.2	6.4
11	36.7	SW	14:47	-3.5	0.5	1.5	2.0	2.5	2.5	3.0	4.0	19	11.4	13.7	83.2	21.0	3.3
12	31.8	SE	14:28	4.5	2.0	2.5	2.5	2.5	2.5	3.0	4.0	19	10.4	13.8	75.5	19.5	2.6
13	44.6	S	1:37	10.0	6.0	6.0	5.5	3.0	2.5	3.0	4.0	21	2.0	13.8	14.5	6.5	4.4
14	36.2	NW	12:45	3.5	4.5	5.0	5.5	4.0	3.0	3.0	4.0	23	9.6	13.9	69.1	18.7	4.7
15	34.9	NE	10:21	0.5	5.0	6.0	6.0	4.5	3.0	3.0	4.0	23	4.1	14.0	29.4	11.3	7.4
16	31.3	SE	11:17	3.0	2.5	3.5	4.5	4.5	3.5	3.0	4.0	23	13.0	14.0	92.7	23.5	1.9
17	31.0	SSW	14:42	6.0	4.0	5.0	5.5	4.5	3.5	3.0	4.0	23	13.7	14.1	97.2	23.3	2.0
18	32.1	SW	16:53	9.5	6.0	6.5	6.5	5.0	3.5	3.5	4.0	23	13.7	14.2	96.8	23.2	2.0
19	46.5	SSW	12:44	11.5	7.0	7.5	7.5	5.5	3.5	3.5	4.0	23	12.8	14.2	90.0	23.4	2.7
20	49.5	N	17:18	14.0	9.0	9.5	9.0	6.0	4.0	3.5	4.0	24	13.8	14.3	96.6	22.6	3.7
21	29.8	ESE	18:12	3.5	6.0	7.5	8.0	6.5	4.0	3.5	4.0	23	12.1	14.4	84.3	23.2	2.7
22	49.0	ESE	19:32	5.0	8.0	8.5	8.5	6.5	4.5	4.0	4.0	23	3.6	14.4	25.0	9.3	5.0
23	56.6	ESE	9:50	3.5	6.5	7.0	7.0	6.5	4.5	4.0	4.0	23	3.2	14.5	22.1	12.6	7.6
24	43.5	ESE	11:47	1.5	5.5	6.0	6.5	6.5	5.0	4.0	4.0	22	0.2	14.5	1.4	10.0	7.6
25	33.9	ESE	0:20	3.5	5.0	5.5	6.0	6.0	5.0	4.0	4.0	22	7.4	14.6	50.7	17.2	8.9
26	22.7	ESE	13:43	6.0	5.5	6.0	6.5	6.0	5.0	4.5	4.5	22	2.7	14.7	18.4	12.9	8.9
27	31.0	ESE	15:06	8.5	6.0	6.5	7.0	6.0	5.0	4.5	4.5	22	11.8	14.7	80.2	22.5	6.7
28	37.9	SE	17:33	10.0	7.5	8.0	8.0	6.5	5.0	4.5	4.5	22	13.8	14.8	93.4	23.8	4.2
29	41.2	SE	12:52	10.0	7.5	8.0	8.0	6.5	5.0	4.5	4.5	22	14.2	14.8	95.7	25.1	2.4
30	34.2	SSE	13:09	10.5	8.0	8.5	8.5	7.0	5.0	4.5	4.5	22	14.0	14.9	94.0	24.8	2.5
Total													260.9	419.54	62.2	516.5	138.9
Mean				4.1	4.2	4.8	5.0	4.2	3.3	3.3	4.1	21	1981-2010 Normal for Radiation				
Extreme	79.7	NW	12:57	1971- 2000 Normal for Soil Temperatures									227.2	418.5	54.3	486.9	186.9
Date	6			3.1	3.6	4.0	3.0	1.6	1.5	2.4		No. of Bright Sunshine days = 30					

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

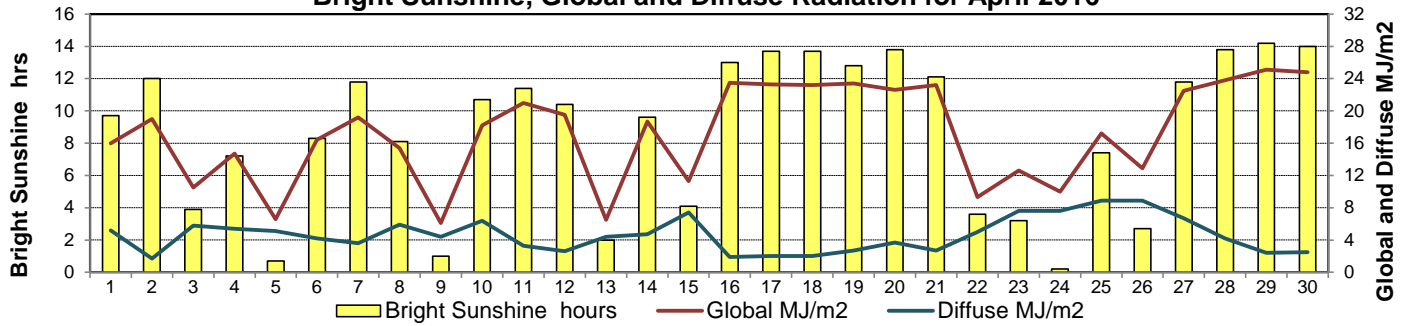
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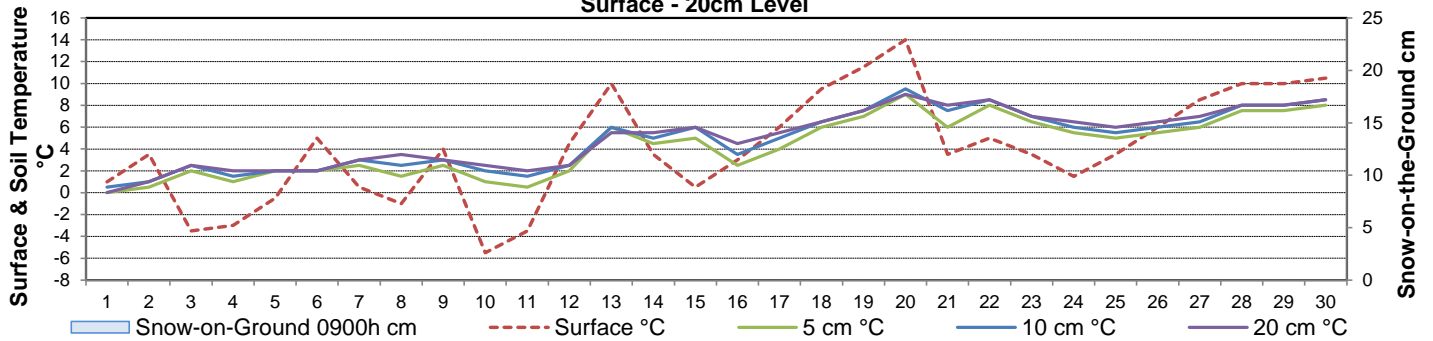
**Wind Speed for April 2016**



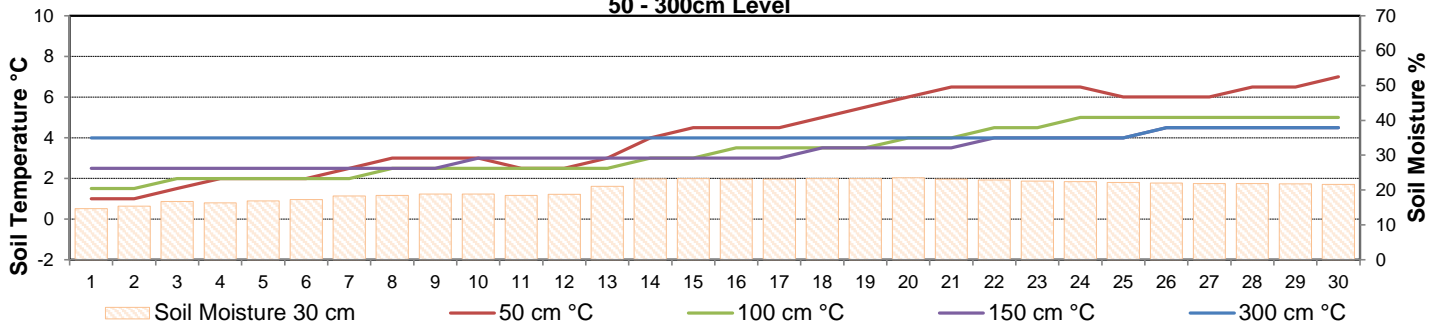
**Bright Sunshine, Global and Diffuse Radiation for April 2016**



**Soil Temperatures for April 2016  
Surface - 20cm Level**



**Soil Temperatures for April 2016  
50 - 300cm Level**





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**SASKATOON STATION** 4057180

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

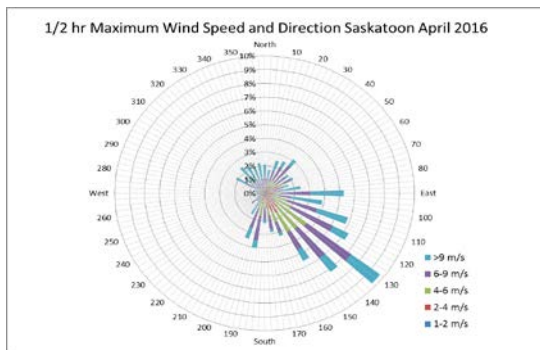
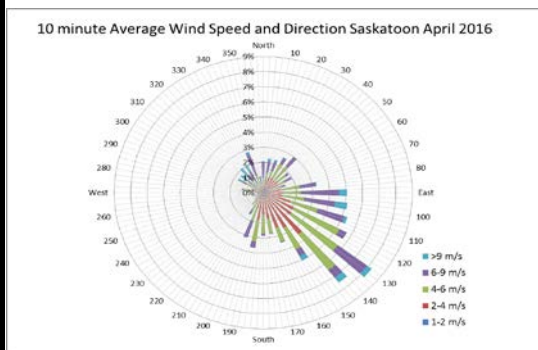
Preliminary **APRIL** 2016

**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

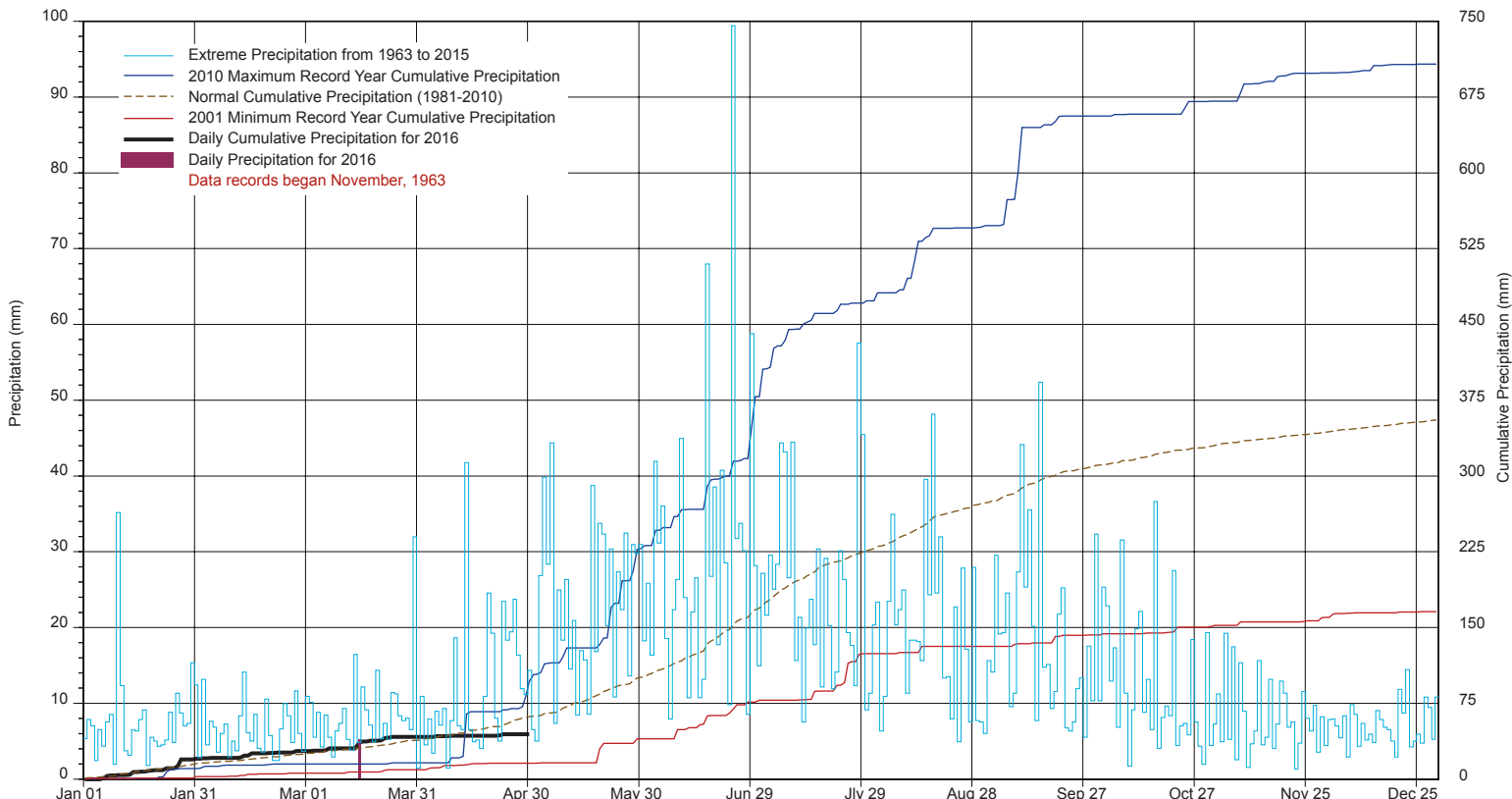
Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Symbol	Description	
Temperature	Highest Daily Maximum	2	20.8	19.5	1992	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Highest Daily Maximum	19	25.0	24.4	1980	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
	Highest Daily Average	19	15.3	15.1	1980	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 -	<b>Degree-days</b>		
						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			



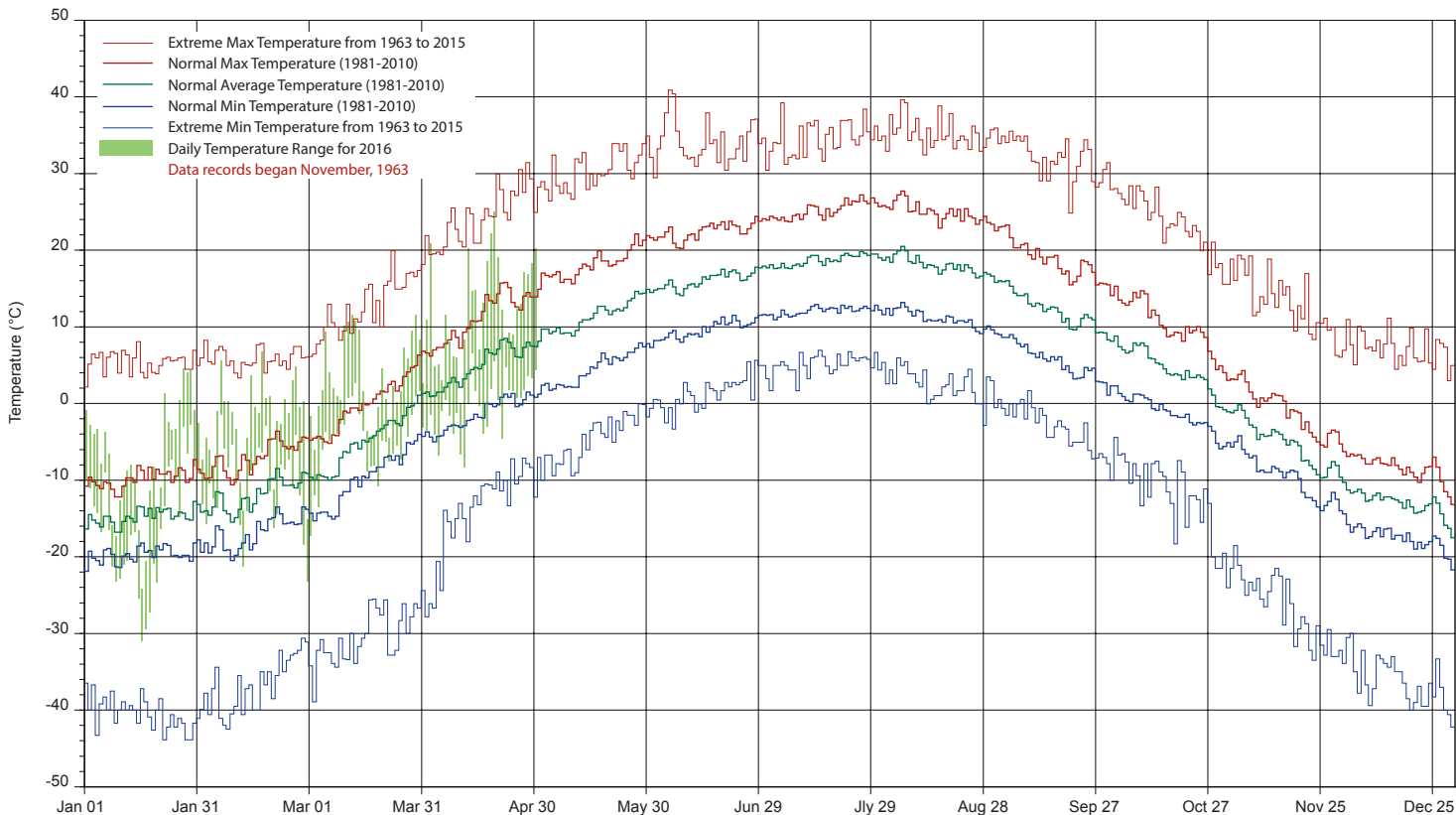
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# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2016 PRECIPITATION AND NORMALS



## 2016 TEMPERATURES AND NORMALS



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