



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL 2019**

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	8.7	6.6	-1.5	-3.7	3.6	1.5	0.0	14.4	0.0	0.8	rain/snow	-	95	35	1020	1011
2	2.8	6.2	-5.6	-4.4	-1.4	0.9	0.0	19.4	0.0	0.0	light snow	-	93	33	1015	1012
3	9.4	7.0	-6.5	-5.0	1.5	1.0	0.0	16.5	0.0	0.1		-	75	32	1016	1006
4	9.8	7.3	-2.2	-4.3	3.8	1.5	0.0	14.2	0.0	0.0		-	89	44	1015	1005
5	8.0	7.3	-6.8	-4.2	0.6	1.5	0.0	17.4	0.0	0.0		-	91	41	1017	1012
6	4.2	7.8	0.9	-3.5	2.6	2.1	0.0	15.4	0.0	0.1	very light rain	-	96	73	1012	1000
7	17.1	8.3	1.6	-3.0	9.4	2.7	4.4	8.6	0.0	0.0		-	96	24	1007	1001
8	16.8	9.5	-0.9	-2.8	8.0	3.4	3.0	10.0	0.0	0.0	am fog	-	98	19	1015	1008
9	7.6	8.6	-5.2	-2.9	1.2	2.8	0.0	16.8	0.0	0.0		-	94	51	1021	1015
10	9.2	7.2	-5.4	-3.1	1.9	2.1	0.0	16.1	0.0	0.0		-	89	35	1022	1020
11	9.0	9.3	-5.6	-2.9	1.7	3.2	0.0	16.3	0.0	0.0		-	85	23	1022	1018
12	10.6	9.8	-8.0	-2.2	1.3	3.9	0.0	16.7	0.0	0.0		-	86	15	1018	1012
13	15.7	10.8	-1.5	-2.1	7.1	4.4	2.1	10.9	0.0	0.0		-	43	13	1012	1000
14	16.5	10.7	5.0	-1.4	10.8	4.7	5.8	7.2	0.0	0.4	t-storm	-	79	31	999	992
15	12.9	10.8	1.4	-1.8	7.2	4.5	2.2	10.8	0.0	0.4	t-storm	-	87	44	1006	995
16	13.4	12.0	-1.8	-1.9	5.8	5.1	0.8	12.2	0.0	0.0		0	94	27	1012	1006
17	15.9	14.2	3.6	0.0	9.8	7.1	4.8	8.2	0.0	0.2	t-storm	0	76	27	1012	1008
18	17.9	13.4	2.2	-0.1	10.1	6.6	5.1	7.9	0.0	0.0		-	78	18	1017	1008
19	19.4	13.1	9.2	-0.4	14.3	6.4	9.3	3.7	0.0	0.0		-	50	25	1008	1001
20	17.1	14.3	3.5	-0.2	10.3	7.1	5.3	7.7	0.0	0.0		0	61	14	1014	1004
21	14.1	15.7	0.4	0.8	7.3	8.3	2.3	10.7	0.0	0.0		-	68	25	1022	1014
22	21.9	15.8	2.1	1.2	12.0	8.5	7.0	6.0	0.0	0.0		0	60	14	1023	1005
23	20.7	15.1	10.0	0.8	15.4	8.0	10.4	2.6	0.0	0.0		-	48	12	1007	1003
24	17.5	13.2	2.9	1.3	10.2	7.2	5.2	7.8	0.0	0.0		-	50	13	1013	1007
25	12.1	12.6	1.1	-0.4	6.6	6.1	1.6	11.4	0.0	0.0	light snow	-	89	12	1020	1014
26	13.0	12.2	-3.4	-0.2	4.8	6.0	0.0	13.2	0.0	0.0		0	61	17	1018	1015
27	10.9	14.0	-4.1	0.5	3.4	7.3	0.0	14.6	0.0	0.0		0	87	16	1018	1014
28	6.8	14.5	-2.1	1.5	2.4	8.0	0.0	15.6	0.0	0.0		-	66	19	1025	1018
29	9.7	13.9	-6.2	1.1	1.8	7.5	0.0	16.2	0.0	0.0		-	81	17	1025	1020
30	11.7	13.9	-3.6	0.8	4.1	7.4	0.0	13.9	0.0	0.9	snow/rain mix	-	89	18	1019	1015
Total							69.3	362.4	0.0	2.9			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	12.7	11.2	-0.9	-1.4	5.9	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	21.9		-8.0				65.2	402.4	0.2	29.4	Cumulative		98	12	1025	992
	22		12							61.5	Cumulative Normal		8	23	28	14

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

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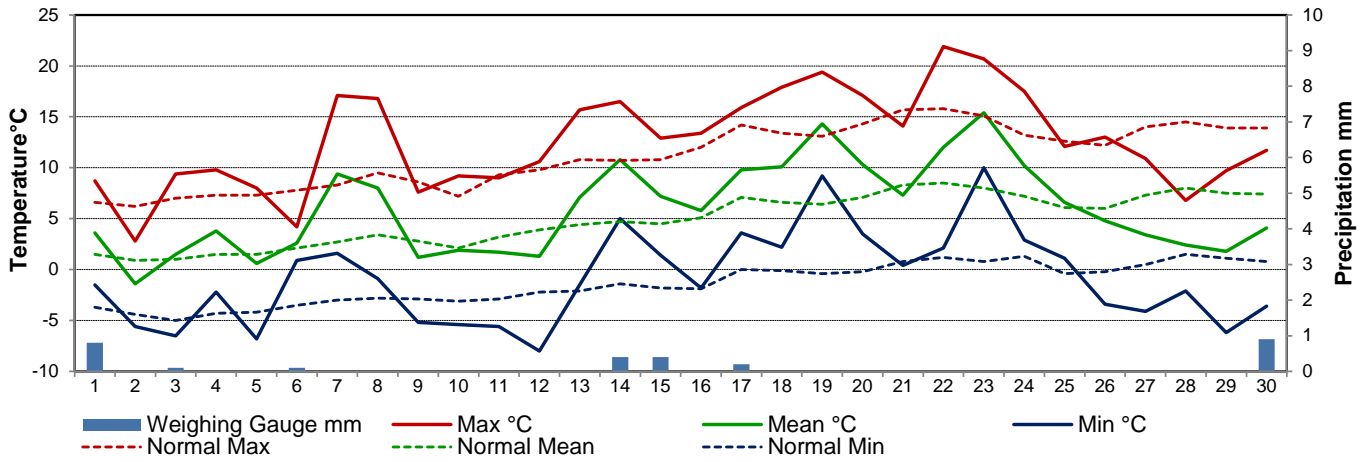


Agriculture and Agri-Food Canada

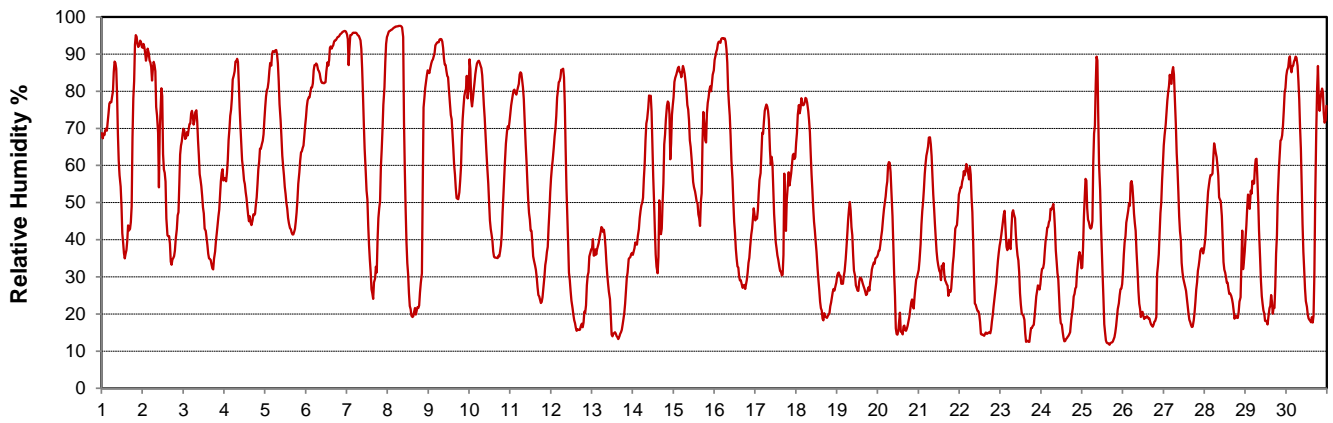
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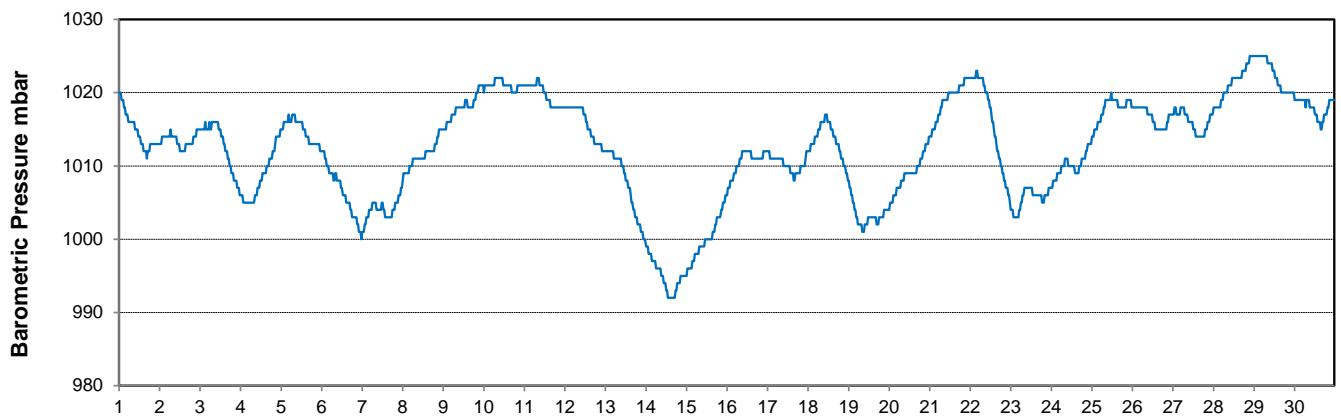
Temperature and Precipitation for April 2019



Relative Humidity for April 2019



Barometric Pressure Corrected to Sea Level for April 2019





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SASKATOON STATION 4057180

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

Preliminary **APRIL 2019**

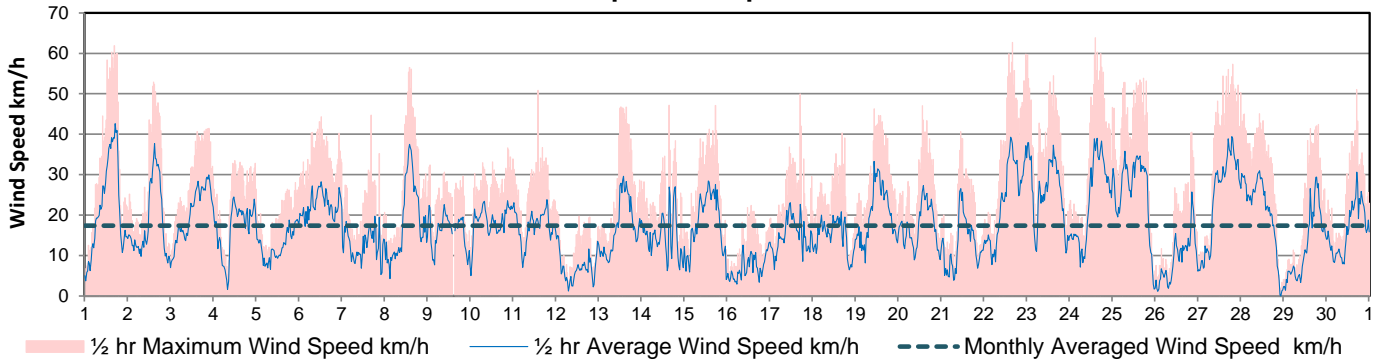
Day	Wind Gust			Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	61.9	WNW	16:00	1.5	0.5	1.0	1.0	0.5	0.0	0.5	3.0	6.3	13.0	48.5	13.5	5.9
2	52.9	NW	14:23	-3.5	1.0	1.0	1.0	0.5	0.0	0.5	3.0	5.7	13.1	43.7	12.4	6.1
3	41.5	SE	21:25	-2.5	0.5	0.5	0.5	0.5	0.0	0.5	3.0	9.3	13.1	70.9	14.9	6.7
4	33.5	N	11:31	3.5	0.5	1.0	1.0	0.5	0.0	0.5	3.0	9.4	13.2	71.3	17.6	4.4
5	28.0	ESE	21:42	-1.5	1.0	1.5	2.0	0.5	0.0	0.5	3.0	11.5	13.3	86.8	19.9	2.5
6	44.3	ESE	12:13	2.0	2.5	3.0	2.5	1.0	0.0	0.5	3.0	0.0	13.3	0.0	3.1	2.4
7	44.7	NW	16:02	4.0	2.0	2.5	2.0	1.0	0.0	0.5	3.0	9.1	13.4	68.0	18.1	3.5
8	56.5	WNW	13:40	2.5	4.0	4.0	4.0	1.5	0.5	1.0	2.5	11.1	13.5	82.5	20.1	2.2
9	32.4	SE	1:06	0.0	3.5	4.0	4.5	2.0	0.5	1.0	2.5	5.0	13.5	37.0	11.2	4.6
10	36.6	ESE	20:52	-0.5	1.5	2.5	3.0	2.0	0.5	1.0	2.5	11.8	13.6	86.8	19.4	4.5
11	50.9	SSE	13:30	-1.5	1.5	2.5	3.0	2.0	1.0	1.0	2.5	12.6	13.7	92.3	20.8	3.3
12	20.8	ESE	0:45	0.0	1.5	2.5	3.0	2.0	1.0	1.0	2.5	12.5	13.7	91.1	20.7	4.4
13	46.8	SW	12:16	4.5	2.0	3.0	3.5	2.5	1.0	1.0	3.0	10.8	13.8	78.4	21.3	2.4
14	47.2	WSW	15:15	5.5	5.0	5.5	5.0	3.0	1.5	1.5	3.0	5.7	13.9	41.2	13.9	6.3
15	47.1	WSW	17:04	9.0	5.0	5.5	5.5	3.5	1.5	1.5	3.0	6.1	13.9	43.9	14.4	5.8
16	22.4	NW	13:29	5.0	3.5	4.5	5.0	4.0	2.0	1.5	3.0	12.2	14.0	87.3	21.1	3.4
17	50.0	W	16:59	9.5	6.0	6.0	6.0	4.0	2.0	1.5	3.0	8.3	14.0	59.1	18.5	4.5
18	40.3	WNW	16:20	7.5	6.0	6.5	7.0	4.5	2.5	2.0	3.0	12.1	14.1	85.8	22.1	2.7
19	46.3	WNW	10:19	13.0	8.5	8.5	8.0	5.0	2.5	2.0	3.0	11.7	14.2	82.6	21.7	4.2
20	47.1	NW	13:20	9.5	8.5	9.0	9.0	6.0	3.0	2.0	3.0	11.3	14.2	79.4	19.3	4.6
21	40.6	WNW	10:45	7.5	6.5	7.5	8.0	6.5	3.0	2.5	3.0	10.0	14.3	69.9	18.7	4.8
22	62.7	S	15:34	12.0	7.0	7.5	8.0	6.5	3.5	2.5	3.0	10.6	14.4	73.8	21.1	5.6
23	59.6	SSW	0:05	14.5	10.0	10.0	9.5	6.5	3.5	2.5	3.0	11.1	14.4	76.9	19.8	6.5
24	63.9	WNW	14:10	10.5	8.5	9.0	9.5	7.0	4.0	3.0	3.0	12.3	14.5	84.9	23.6	3.5
25	53.8	WNW	17:17	2.0	8.0	9.0	9.5	7.5	4.0	3.0	3.0	9.2	14.6	63.2	19.1	5.7
26	40.5	NE	20:00	6.0	5.5	6.5	7.5	7.0	4.5	3.0	3.0	11.4	14.6	78.0	17.7	8.9
27	57.3	NE	19:14	6.0	5.5	6.5	7.5	7.0	4.5	3.5	3.0	10.7	14.7	72.9	20.8	6.5
28	45.1	NE	10:04	0.5	6.0	7.0	7.5	6.5	4.5	3.5	3.0	8.1	14.7	55.0	16.9	8.4
29	42.4	SW	19:07	3.5	3.0	4.5	6.0	6.5	4.5	3.5	3.5	11.4	14.8	77.0	21.1	5.2
30	51.1	WNW	16:50	3.5	4.5	5.5	6.5	6.0	4.5	3.5	3.5	9.4	14.9	63.3	20.7	4.6
Total												286.7	418.15	68.6	543.5	144.1
Mean				4.5	4.3	4.9	5.2	3.8	2.0	1.7	3.0	1981-2010 Normal for Radiation				
Extreme	63.9	WNW	14:10	1971- 2000 Normal for Soil Temperatures								227.2	418.5	54.3	486.9	186.9
Date	24			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

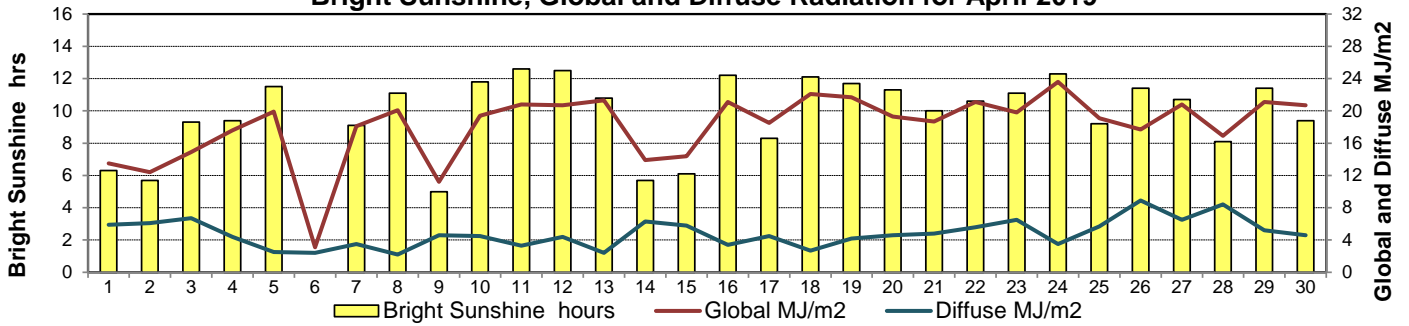
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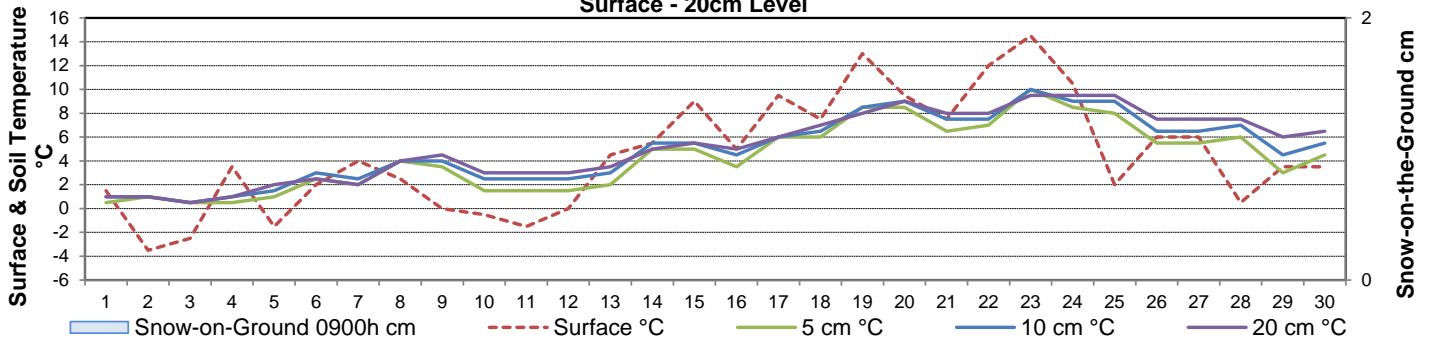
Wind Speed for April 2019



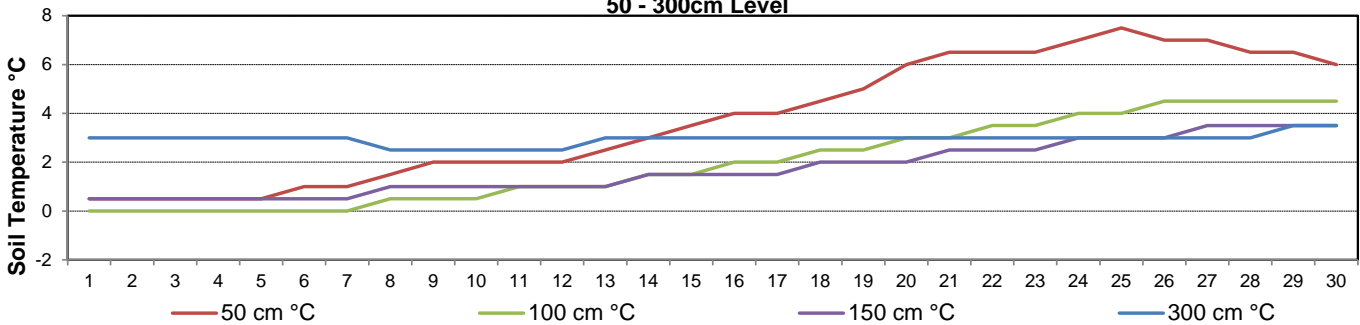
Bright Sunshine, Global and Diffuse Radiation for April 2019



**Soil Temperatures for April 2019
Surface - 20cm Level**



**Soil Temperatures for April 2019
50 - 300cm Level**





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SASKATOON STATION 4057180

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

Preliminary **APRIL** **2019**

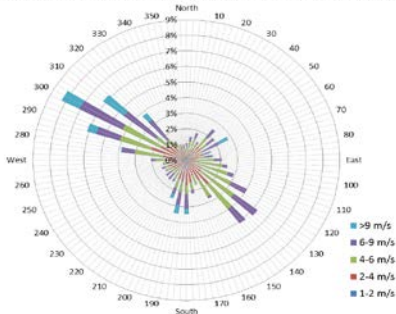
Extreme Records for April

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	312.5	2018	30	1968*
-30.5	01/1979	SWT	-27.8 01/1979	0.0	1897	SM	2.4 2007					165.7	1996	19	2003

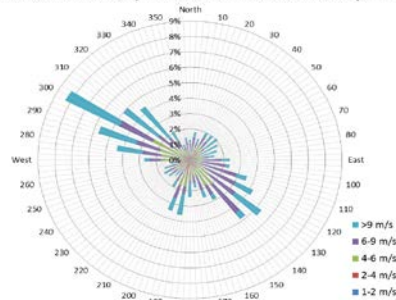
**1975 forward * more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Symbol	Description	
Bright sunshine	No. of days >=5 hours		29	28	2011	SM	NWMP c. 1892-1901	T	Trace of precipitation	
Temperature	Highest Minimum Daily	19	9.2	8.5	2007	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
Precipitation	Lowest daily maximum		0.9	1.0	1994	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 -	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	Had a hopper bottom grain bin located at the north east corner of the CRS for about 6 hours April 8 2019		
					K	S'toon Kernen Farm 1993-2004				
					KCS	S'toon Kernen Farm CS 1996-				
					RCS	Environment Canada 2008-				
						SF	Sutherland Forestry 1943-1970	Tipping bucket actived for the May to September period (29 April 2019)		

10 minute Average Wind Speed and Direction Saskatoon April 2019



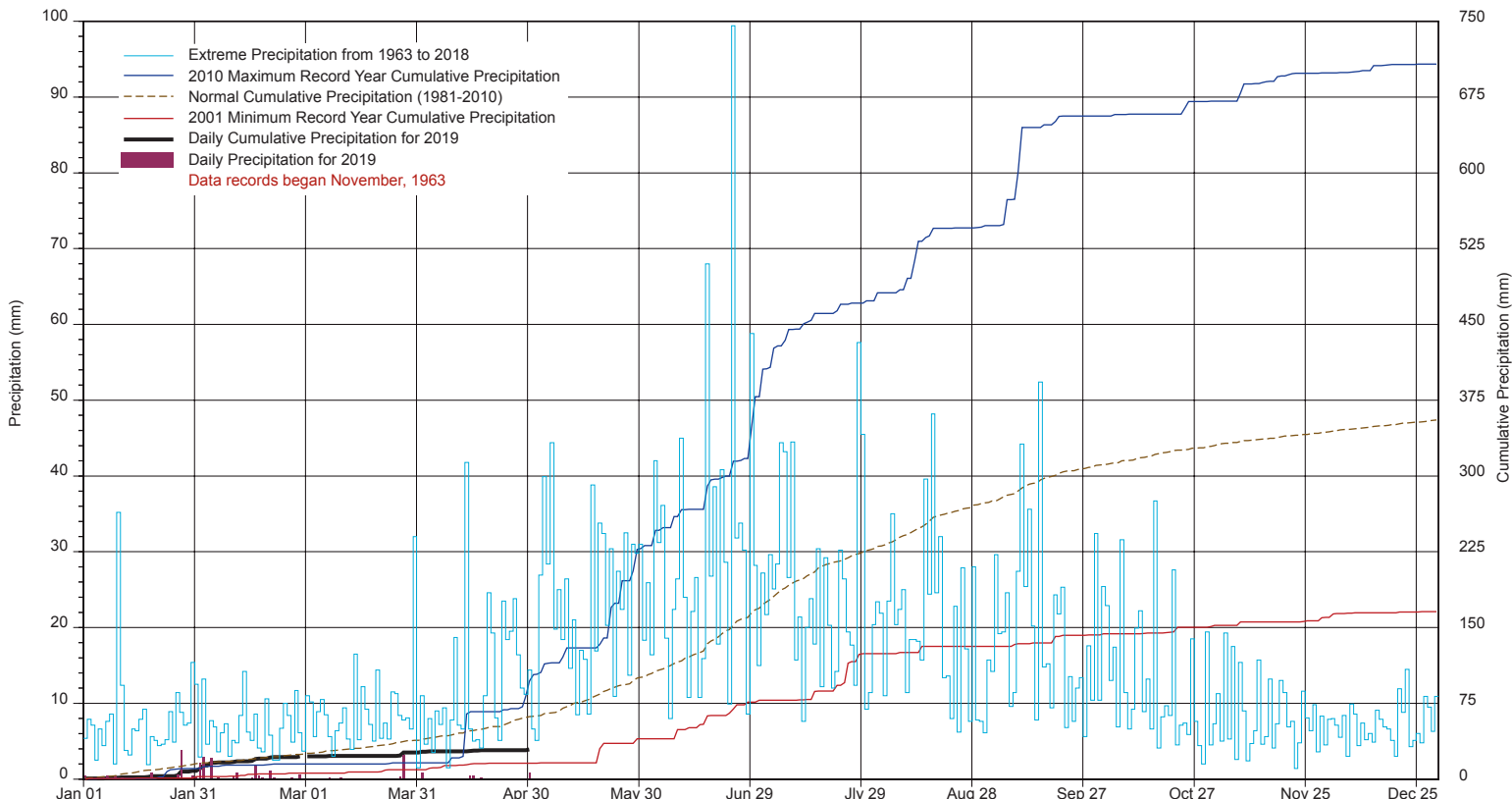
1/2 hr Maximum Wind Speed and Direction Saskatoon April 2019



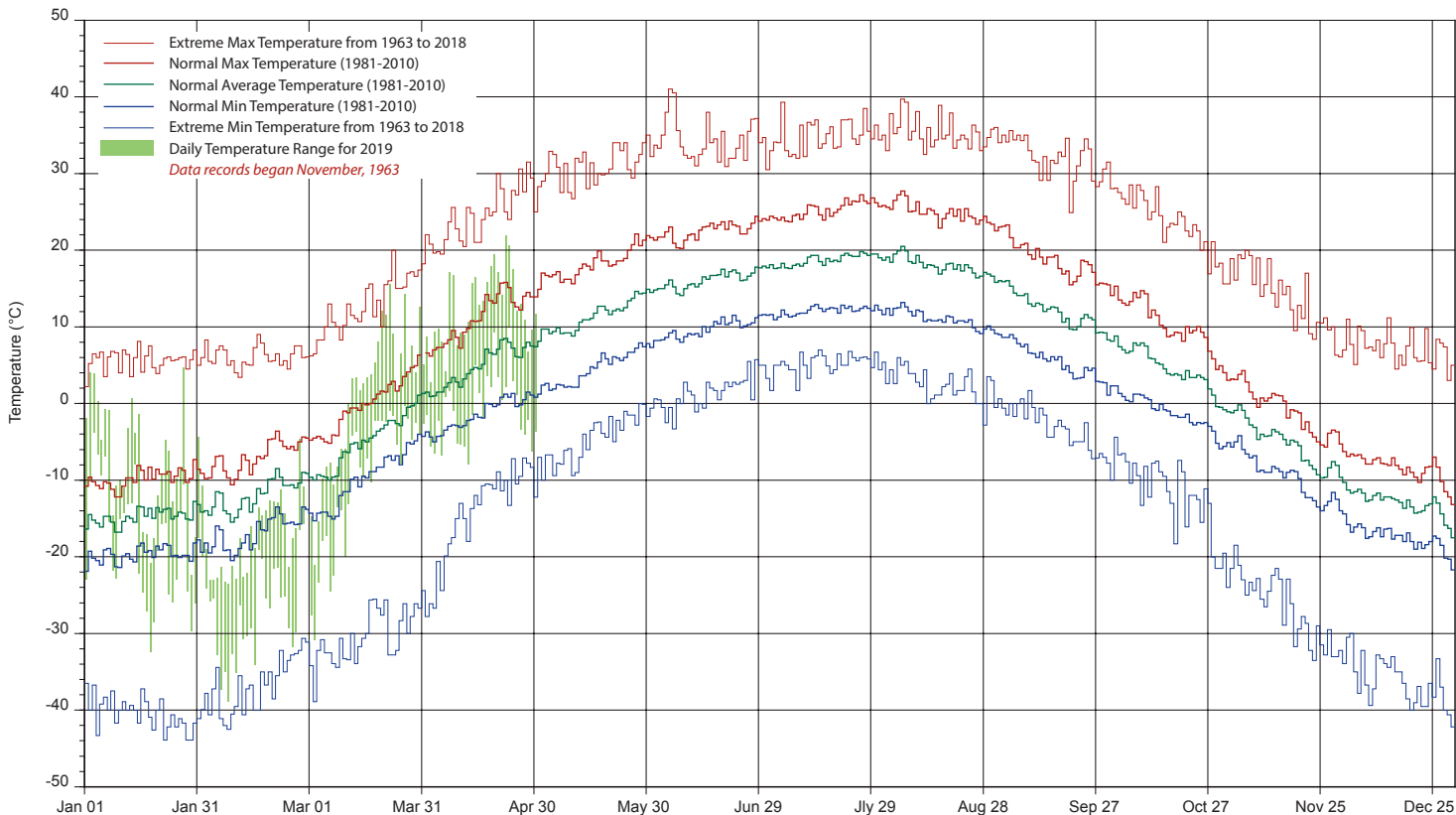
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2019 TEMPERATURES AND NORMALS



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