



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

**SASKATOON STATION 4057180**

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

Preliminary **FEBRUARY 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	-18.3	-9.1	-27.4	-19.4	-22.9	-14.2	0.0	40.9	0.0	0.0		7	79	68	1029	1023
2	-18.8	-9.8	-23.2	-18.2	-21.0	-14.0	0.0	39.0	0.0	0.7	light snow	7	79	69	1024	1020
3	-21.8	-9.7	-25.2	-19.5	-23.5	-14.6	0.0	41.5	0.0	1.2	light snow	8	78	64	1027	1020
4	-16.7	-8.2	-25.5	-18.7	-21.1	-13.5	0.0	39.1	0.0	0.0		9	74	57	1025	1012
5	-16.0	-6.9	-23.1	-16.0	-19.6	-11.5	0.0	37.6	0.0	0.0		9	78	54	1023	1016
6	-16.0	-6.8	-23.0	-16.5	-19.5	-11.7	0.0	37.5	0.0	0.0		9	82	68	1024	1017
7	-17.5	-8.8	-26.5	-19.2	-22.0	-14.0	0.0	40.0	0.0	0.0		9	80	67	1026	1021
8	-17.5	-9.7	-26.1	-19.1	-21.8	-14.4	0.0	39.8	0.0	0.0		9	80	63	1032	1026
9	-15.2	-10.6	-25.6	-20.5	-20.4	-15.5	0.0	38.4	0.0	0.0		9	80	64	1031	1019
10	-8.9	-9.9	-19.0	-19.8	-14.0	-14.9	0.0	32.0	0.0	0.0		8	77	59	1018	1008
11	-13.7	-8.7	-25.8	-18.9	-19.8	-13.8	0.0	37.8	0.0	0.0		8	78	53	1032	1012
12	-14.8	-6.7	-30.0	-18.2	-22.4	-12.4	0.0	40.4	0.0	0.0		8	73	51	1032	1008
13	2.8	-7.4	-16.5	-17.1	-6.9	-12.3	0.0	24.9	0.0	0.0		8	78	61	1007	997
14	0.8	-9.3	-19.5	-19.1	-9.4	-14.2	0.0	27.4	0.0	1.0	light snow	8	94	73	1021	996
15	-13.7	-7.9	-26.1	-18.3	-19.9	-13.1	0.0	37.9	0.0	0.0		7	79	62	1023	1015
16	-6.8	-6.9	-18.6	-15.4	-12.7	-11.1	0.0	30.7	0.0	0.0		9	78	70	1015	1005
17	-11.5	-7.2	-16.6	-16.5	-14.1	-11.8	0.0	32.1	0.0	0.0		9	82	58	1012	1005
18	-12.7	-6.8	-21.4	-16.6	-17.1	-11.7	0.0	35.1	0.0	0.0		9	82	55	1020	1010
19	-14.6	-4.7	-26.8	-15.1	-20.7	-9.9	0.0	38.7	0.0	0.0		9	81	62	1020	1016
20	-13.3	-4.6	-23.5	-14.9	-18.4	-9.8	0.0	36.4	0.0	0.0		9	76	57	1021	1013
21	-12.1	-3.6	-29.0	-13.5	-20.6	-8.5	0.0	38.6	0.0	0.0		9	79	57	1022	1019
22	-7.8	-4.9	-22.9	-14.4	-15.4	-9.6	0.0	33.4	0.0	0.0		8	88	68	1021	1018
23	-5.8	-5.6	-19.6	-15.7	-12.7	-10.7	0.0	30.7	0.0	0.0		8	87	62	1022	1003
24	-1.2	-5.9	-13.4	-15.6	-7.3	-10.7	0.0	25.3	0.0	0.0		9	81	59	1003	999
25	-3.1	-5.6	-13.8	-15.5	-8.5	-10.6	0.0	26.5	0.0	0.0		9	90	53	1001	995
26	-4.9	-6.1	-13.7	-15.8	-9.3	-11.0	0.0	27.3	0.0	0.0		9	89	64	1010	997
27	-3.0	-5.0	-13.3	-15.7	-8.2	-10.4	0.0	26.2	0.0	0.0		9	90	61	1009	1001
28	0.6	-4.4	-12.9	-13.5	-6.2	-9.0	0.0	24.2	0.0	0.0		9	84	57	1013	1003
Total							0.0	959.4	0.0	2.9			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-10.8	-7.1	-21.7	-16.9	-16.3	-12.0	1981-2010 Normal			9.3	Normal					
Extreme Date	2.8		-30.0				0.0	848.2	0.0	14.9	Cumulative		94	51	1032	995
	13		12							24.8	Cum. Normal		14	12	8	25

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

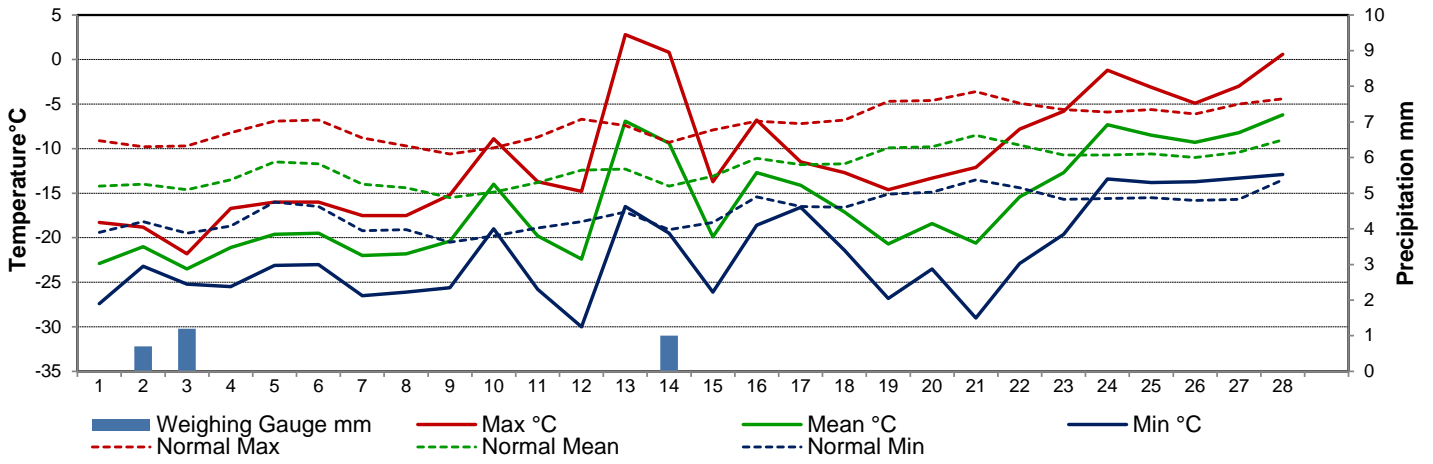
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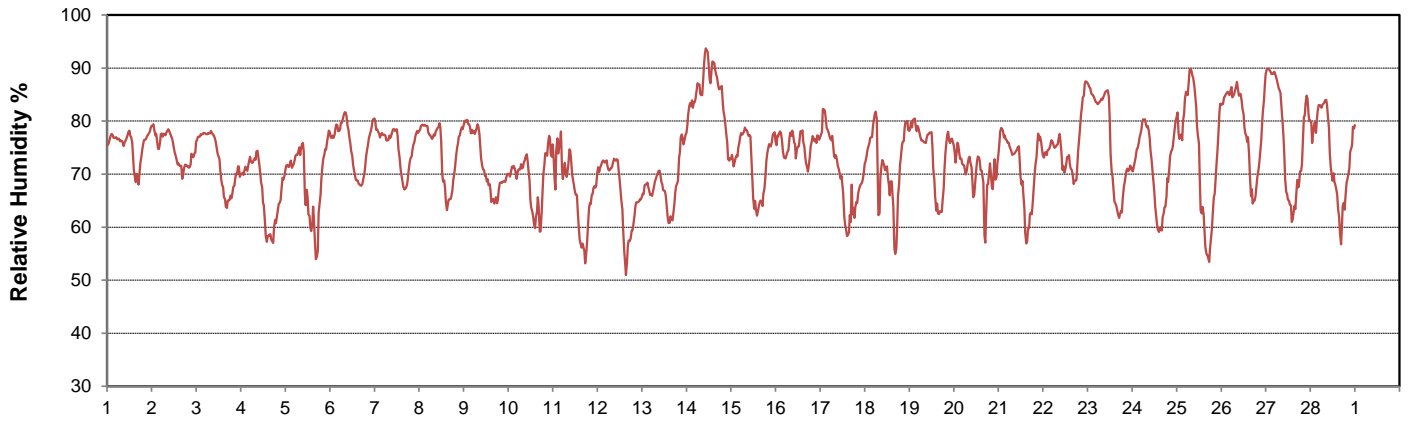
Agriculture and Agri-Food Canada  
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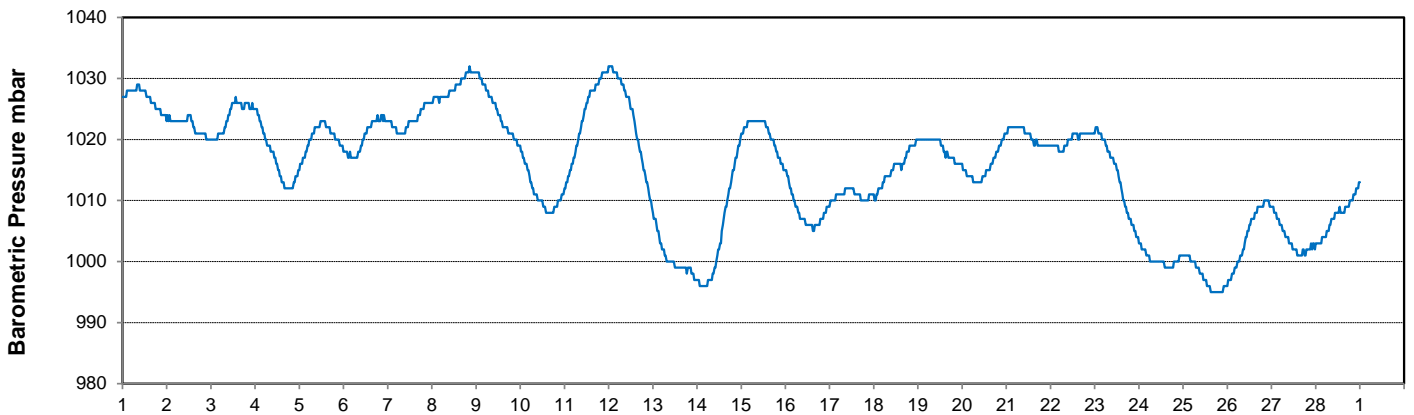
### Temperature and Precipitation for February 2018



### Relative Humidity for February 2018



### Barometric Pressure Corrected to Sea Level for February 2018





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary FEBRUARY 2018

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm 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 <sup>2</sup>	MJ/m <sup>2</sup>
1	13.5	WNW	0:22	-27.0	-9.5	-8.5	-6.5	-2.5	0.5	2.0	4.5	7	2.4	9.1	26.3	4.8	3.3
2	24.9	ENE	16:19	-21.5	-10.0	-9.0	-7.5	-3.0	0.5	1.5	4.5	7	6.3	9.2	68.6	6.1	3.0
3	33.0	WNW	17:17	-22.5	-10.0	-9.5	-8.0	-3.5	0.0	1.5	4.5	7	6.5	9.3	70.3	6.2	2.1
4	39.9	WSW	6:47	-25.5	-11.5	-11.0	-9.0	-4.0	0.0	1.5	4.5	7	8.7	9.3	93.4	7.8	1.5
5	29.5	NW	5:43	-21.0	-12.0	-11.5	-9.5	-4.5	0.0	1.5	4.5	7	5.7	9.4	60.8	5.9	3.1
6	31.0	W	16:05	-21.0	-12.0	-11.5	-10.0	-5.0	0.0	1.5	4.5	7	8.4	9.4	89.1	8.4	1.7
7	28.9	WNW	15:52	-26.0	-13.0	-12.0	-10.5	-5.0	0.0	1.5	4.5	7	8.8	9.5	92.7	8.1	2.0
8	29.6	N	12:57	-25.5	-14.0	-13.0	-11.0	-5.5	0.0	1.5	4.5	7	7.5	9.6	78.5	8.0	2.7
9	44.1	WSW	9:50	-22.5	-14.0	-13.0	-11.5	-6.0	0.0	1.5	4.0	7	9.2	9.6	95.7	9.8	1.8
10	39.9	WNW	12:58	-18.0	-12.5	-12.0	-11.0	-6.0	-0.5	1.5	4.0	7	6.3	9.7	65.1	7.5	2.7
11	45.6	N	5:23	-23.5	-12.0	-11.5	-10.0	-6.0	-0.5	1.5	4.0	7	9.4	9.7	96.5	9.0	1.5
12	47.8	SSW	0:25	-29.0	-14.0	-13.0	-11.0	-6.0	-0.5	1.5	4.0	7	9.5	9.8	96.9	10.0	1.5
13	43.5	SSW	23:48	-12.5	-13.0	-12.5	-11.5	-6.0	-0.5	1.0	4.0	7	5.8	9.9	58.8	7.2	4.1
14	53.5	NE	13:46	-0.5	-9.0	-8.5	-9.0	-6.0	-0.5	1.0	4.0	7	0.0	9.9	0.0	2.7	2.3
15	39.2	WSW	14:05	-25.5	-9.5	-9.0	-8.0	-5.0	-0.5	1.0	4.0	7	9.2	10.0	92.1	9.6	1.7
16	39.7	NW	15:44	-15.5	-10.5	-10.0	-9.0	-5.0	-0.5	1.0	4.0	7	6.5	10.1	64.7	8.0	3.1
17	34.8	NW	13:51	-16.5	-10.0	-9.5	-8.5	-5.0	-0.5	1.0	4.0	7	0.4	10.1	4.0	5.9	4.6
18	32.9	WNW	16:05	-17.0	-10.0	-9.5	-8.5	-5.0	-0.5	1.0	4.0	7	5.6	10.2	55.0	7.9	3.1
19	29.0	SSW	17:38	-26.5	-11.5	-10.5	-9.0	-5.0	-0.5	1.0	4.0	7	9.9	10.3	96.6	11.1	1.8
20	30.2	SW	1:02	-17.0	-11.5	-11.0	-9.5	-5.5	-1.0	1.0	3.5	7	5.2	10.3	50.4	7.5	5.2
21	29.8	SSW	14:10	-29.0	-13.0	-12.0	-10.0	-5.5	-1.0	1.0	3.5	7	8.6	10.4	82.9	9.8	3.3
22	27.4	WNW	15:31	-22.5	-13.0	-12.0	-10.5	-6.0	-1.0	1.0	3.5	7	8.5	10.4	81.4	9.2	3.0
23	40.8	SSW	14:30	-18.5	-12.5	-11.5	-10.5	-6.0	-1.0	1.0	3.5	7	10.0	10.5	95.1	11.0	1.6
24	29.3	SW	1:41	-11.5	-11.0	-10.5	-9.5	-6.0	-1.0	0.5	3.5	7	8.1	10.6	76.6	9.4	3.3
25	29.8	SSW	14:07	-14.5	-9.0	-8.5	-8.5	-5.5	-1.0	0.5	3.5	7	9.2	10.6	86.5	12.0	2.8
26	32.7	WNW	16:31	-12.0	-9.0	-8.5	-7.5	-5.0	-1.0	0.5	3.5	7	1.6	10.7	14.9	6.4	4.8
27	32.5	SSW	11:20	-12.5	-9.0	-8.5	-7.5	-5.0	-1.0	0.5	3.5	7	4.0	10.8	37.1	9.9	5.1
28	28.4	SW	15:28	-14.0	-8.0	-7.5	-7.0	-5.0	-1.0	0.5	3.5	7	9.5	10.8	87.6	11.0	2.6
Total													190.8	279.1	68.4	230.2	79.3
Mean				-19.6	-11.2	-10.5	-9.3	-5.1	-0.5	1.1	4.0	6.8	1981-2010 Normal for Radiation				
Extreme	53.5	NE	13:46	1971- 2000 Normal for Soil Temperatures									132.6	281.1	47.2	213.0	104.0
Date	14			-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4		No. of Bright Sunshine days = 27					

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

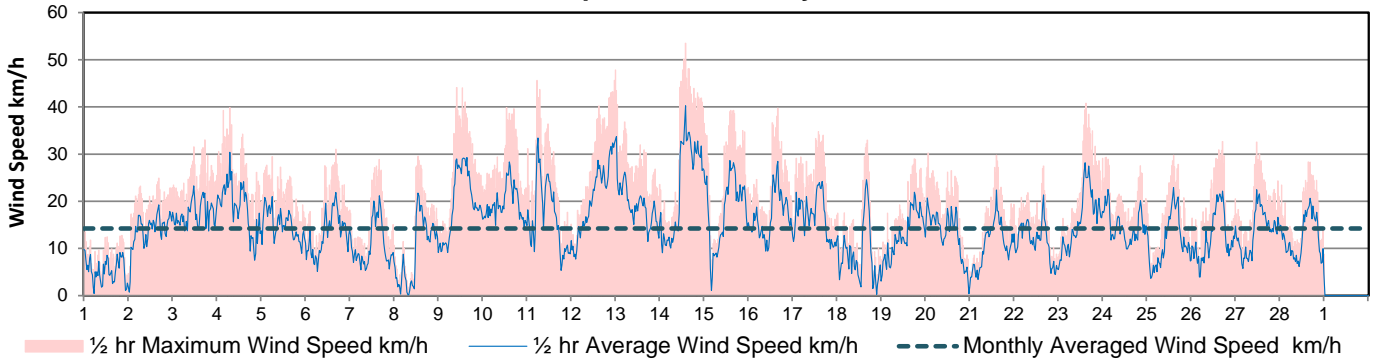
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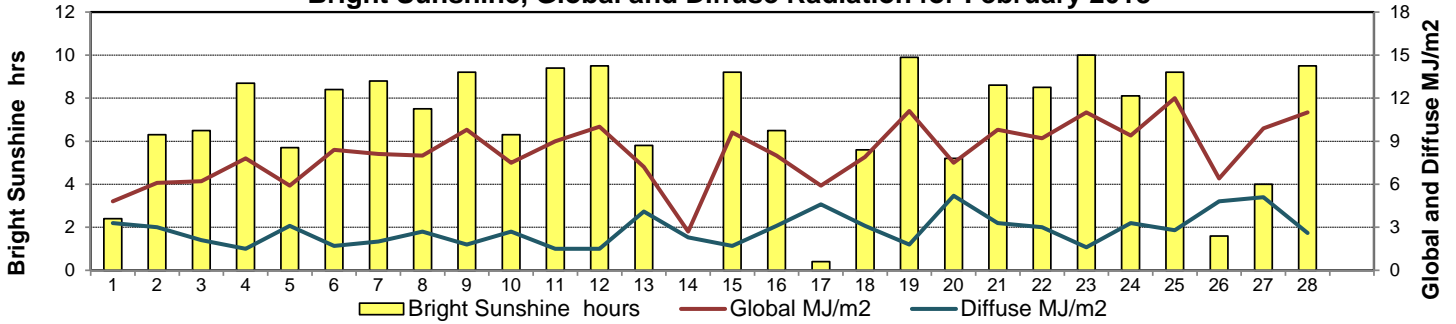
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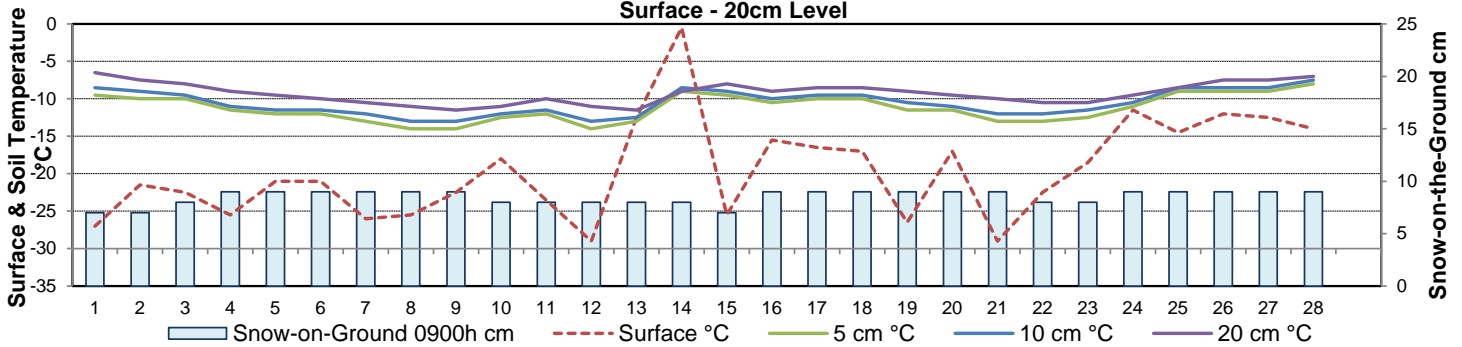
**Wind Speed for February 2018**



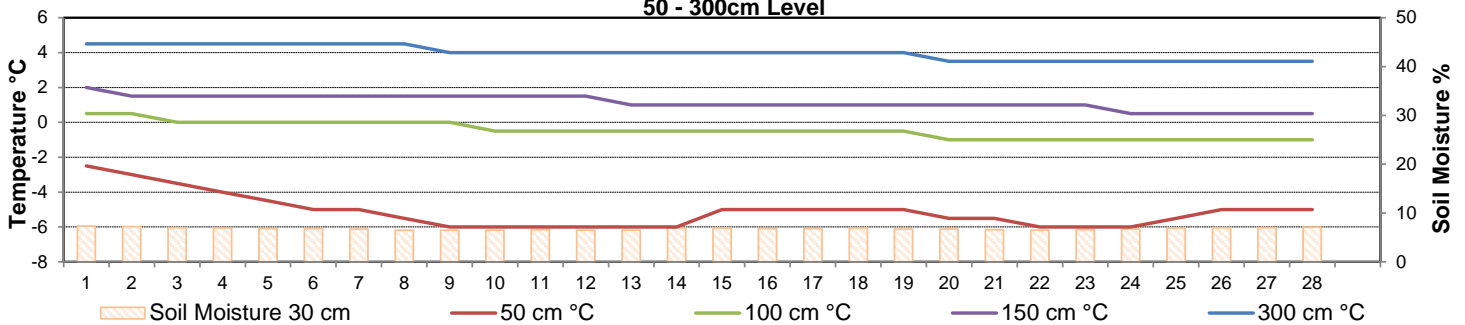
**Bright Sunshine, Global and Diffuse Radiation for February 2018**



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



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





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

**SASKATOON STATION** 4057180

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

Preliminary **FEBRUARY 2018**

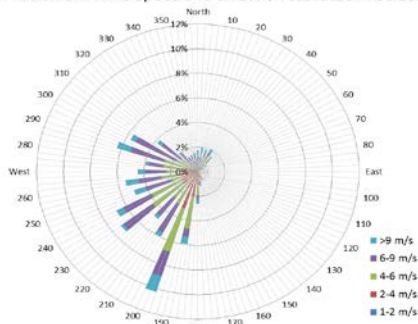
**Extreme Records for February**

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
12.8	19/1931	SE	9.0 16/2017	43.7	1924	SE	40.2 1979	106 <sup>N</sup>	22/1988	82.3 <sup>NNW</sup>	10/2004	186.9	1980	28	1978&84
-50.0	01/1893	SM	-41.1 06/1972	0.0	multiply sites		1.9 2012					57.6	1983	17	1983&98

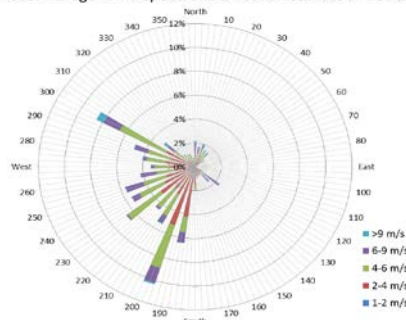
\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Symbol	Description
Bright Sunshine	No. of days >= 1hour		26	26	1966	SM	NWMP	c. 1892-1901	T	Trace of precipitation
	No. of days >=5 hours		23	21	1980	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Greatest Monthly Bright Sunshine Hours		190.8	186.9	1980	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Ranking by % of Actual to Possible Bright Sunshine		68.4	64.8	1980	S	Saskatoon	1941-1942	na	not available
Winter 2017/2018	No. of days with Bright Sunshine greater or equal 1 hour		75	73	2007	SA	Saskatoon A	1942 -	<b>Degree-days</b>	
	Ranking by % of Actual to Possible Bright Sunshine		56.6	55.0	1980	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		

1/2 hr Maximum Wind Speed and Direction Saskatoon Feb 2018



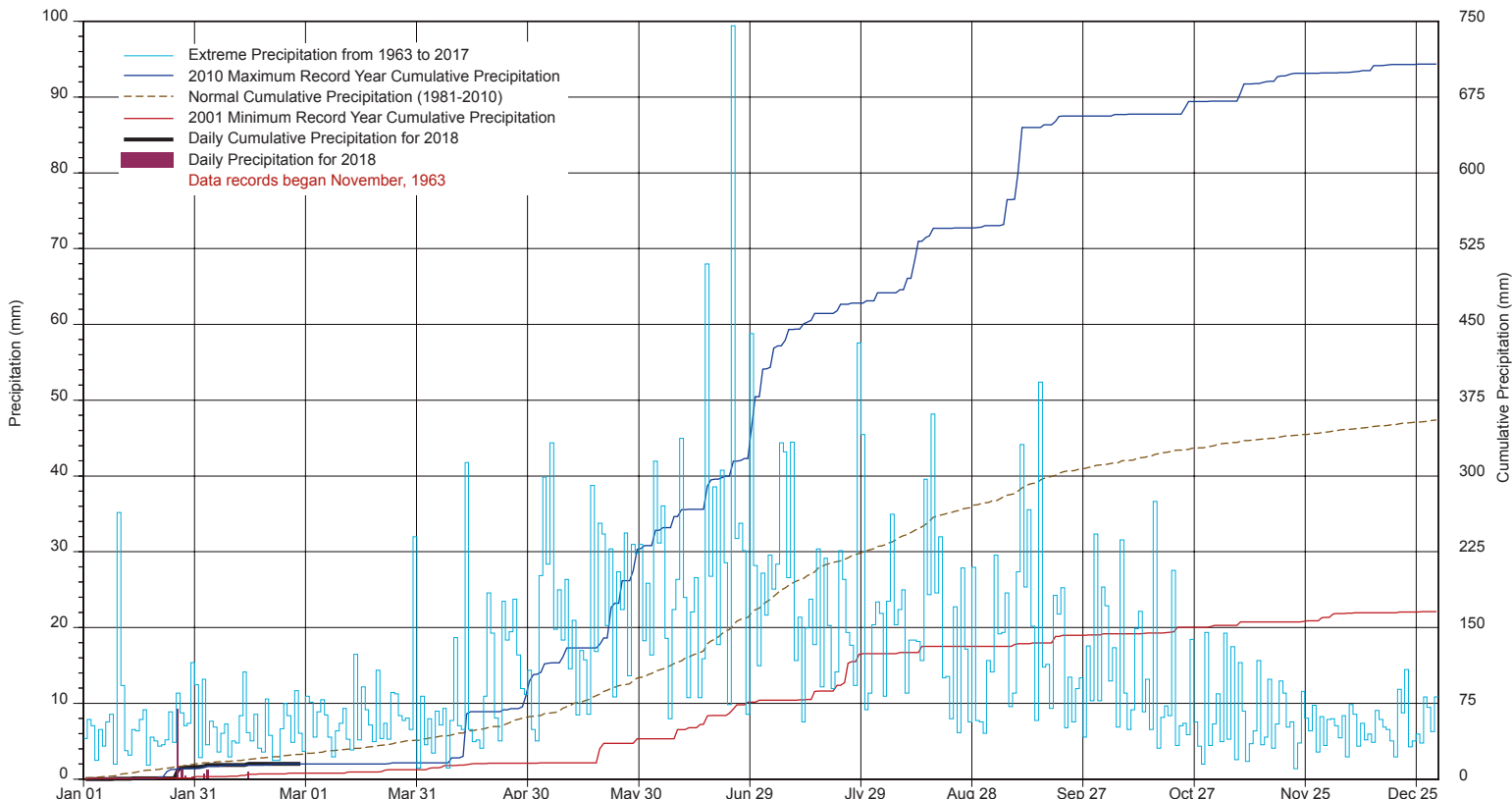
10 minute Average Wind Speed and Direction Saskatoon Feb 2018



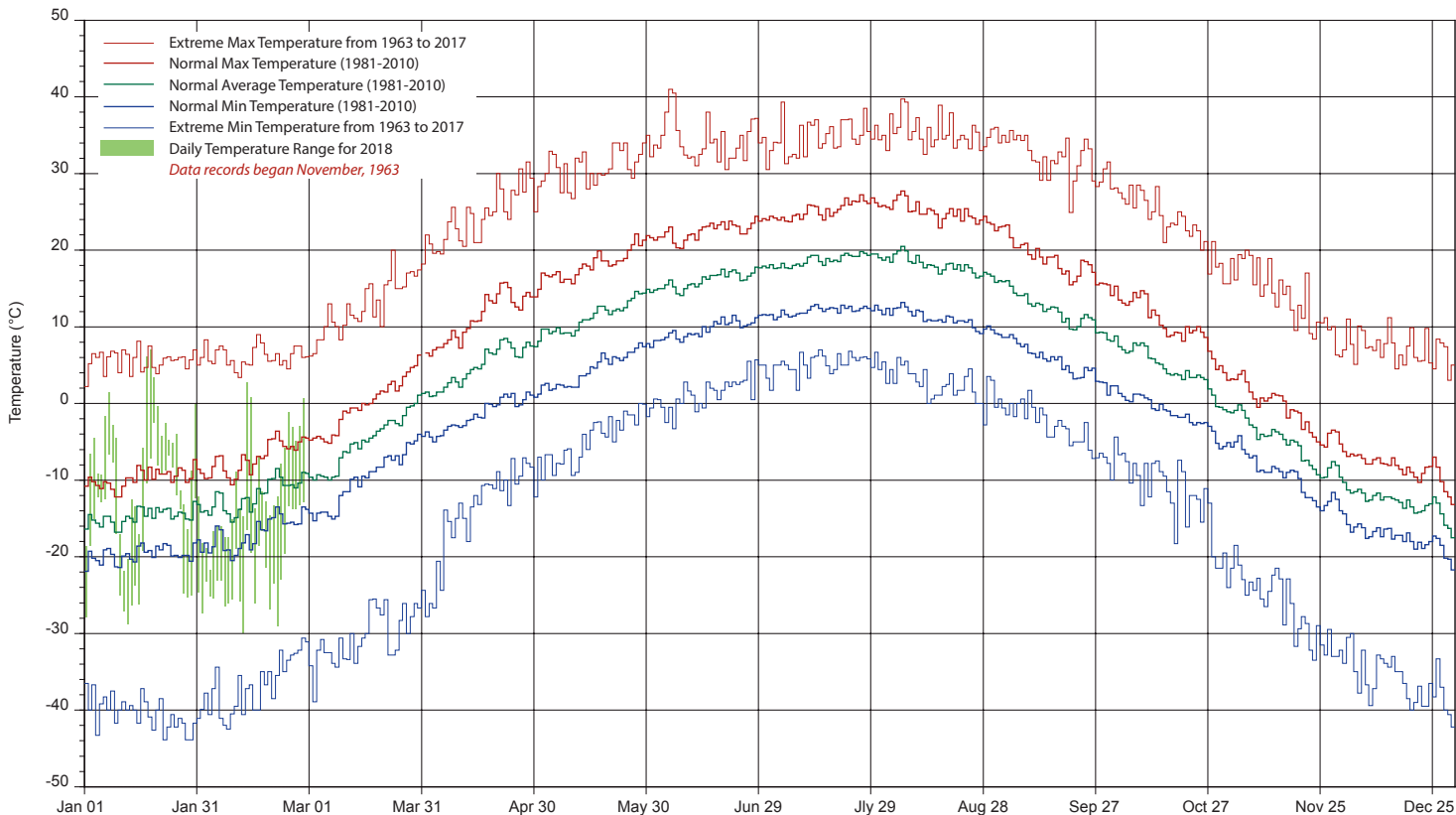
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# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2018 PRECIPITATION AND NORMALS



## 2018 TEMPERATURES AND NORMALS



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