



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary FEBRUARY 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	-10.8	-9.1	-18.0	-19.4	-14.4	-14.2	0.0	32.4	0.0	0.0		9	81	54	1030	1023
2	-10.7	-9.8	-19.7	-18.2	-15.2	-14.0	0.0	33.2	0.0	0.0		9	81	67	1030	1023
3	-7.4	-9.7	-17.4	-19.5	-12.4	-14.6	0.0	30.4	0.0	0.0		9	86	55	1023	1013
4	-12.9	-8.2	-16.6	-18.7	-14.8	-13.5	0.0	32.8	0.0	0.5	light snow	9	84	66	1016	1013
5	-13.9	-6.9	-17.6	-16.0	-15.8	-11.5	0.0	33.8	0.0	0.4	light snow	9	83	71	1016	1013
6	-17.5	-6.8	-21.7	-16.5	-19.6	-11.7	0.0	37.6	0.0	1.1	light snow	9	84	73	1016	1014
7	-19.2	-8.8	-26.5	-19.2	-22.9	-14.0	0.0	40.9	0.0	0.1	light snow	10	81	68	1017	1014
8	-16.1	-9.7	-25.1	-19.1	-20.6	-14.4	0.0	38.6	0.0	0.0	manual snow depth 10 cm	10	77	65	1017	1014
9	-10.9	-10.6	-24.6	-20.5	-17.8	-15.5	0.0	35.8	0.0	0.4	light snow	9	87	66	1014	991
10	-9.1	-9.9	-14.5	-19.8	-11.8	-14.9	0.0	29.8	0.0	0.0		9	88	71	1003	991
11	-2.5	-8.7	-11.5	-18.9	-7.0	-13.8	0.0	25.0	0.0	4.8	light snow	14	91	61	1017	1001
12	0.3	-6.7	-10.9	-18.2	-5.3	-12.4	0.0	23.3	0.0	0.0		16	76	56	1018	1011
13	4.3	-7.4	-4.8	-17.1	-0.3	-12.3	0.0	18.3	0.0	0.0		14	84	59	1018	1011
14	4.5	-9.3	-5.9	-19.1	-0.7	-14.2	0.0	18.7	0.0	0.0		14	88	59	1018	1007
15	7.3	-7.9	-4.0	-18.3	1.7	-13.1	0.0	16.3	0.0	0.0	manual snow depth 11 cm	14	88	52	1007	995
16	9.0	-6.9	0.8	-15.4	4.9	-11.1	0.0	13.1	0.0	0.0		12	89	63	996	985
17	7.7	-7.2	2.2	-16.5	5.0	-11.8	0.0	13.0	0.0	0.0		3	87	62	1000	985
18	6.4	-6.8	-1.4	-16.6	2.5	-11.7	0.0	15.5	0.0	0.0		0	97	66	1006	1000
19	3.1	-4.7	0.7	-15.1	1.9	-9.9	0.0	16.1	0.0	0.4	sleet/grapple	1	94	75	1005	999
20	2.6	-4.6	-0.2	-14.9	1.2	-9.8	0.0	16.8	0.0	0.0		1	98	77	1003	1000
21	1.8	-3.6	0.1	-13.5	1.0	-8.5	0.0	17.0	0.0	0.0		0	89	64	1008	1003
22	0.6	-4.9	-4.0	-14.4	-1.7	-9.6	0.0	19.7	0.0	0.1	light snow/rain	0	91	69	1017	1008
23	-3.0	-5.6	-6.5	-15.7	-4.8	-10.7	0.0	22.8	0.0	0.0	no snow cover	0	85	60	1019	1017
24	-1.4	-5.9	-11.5	-15.6	-6.5	-10.7	0.0	24.5	0.0	1.4	light snow	1	93	69	1019	1017
25	-7.9	-5.6	-14.3	-15.5	-11.1	-10.6	0.0	29.1	0.0	0.0		1	88	60	1018	1003
26	-7.6	-6.1	-19.4	-15.8	-13.5	-11.0	0.0	31.5	0.0	0.2	light snow	1	91	59	1011	1003
27	-7.3	-5.0	-20.6	-15.7	-14.0	-10.4	0.0	32.0	0.0	0.0		1	85	48	1011	1007
28	-5.6	-4.4	-16.3	-13.5	-11.0	-9.0	0.0	29.0	0.0	0.3	light snow	1	85	51	1014	1008
Total							0.0	727.0	0.0	9.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-4.2	-7.1	-11.8	-16.9	-8.0	-12.0	1981-2010 Normal			9.3	Normal					
Extreme Date	9.0		-26.5				0.0	848.2	0.0	18.2	Cumulative		98	48	1030	985
	16		7							24.8	Cum. Normal		20	27	1	16

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

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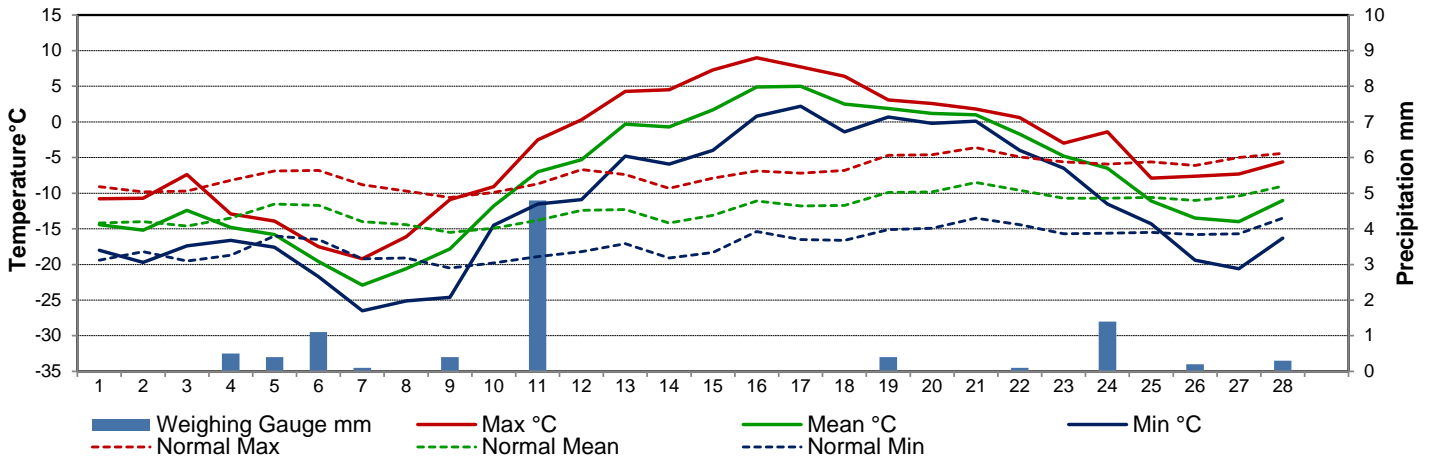


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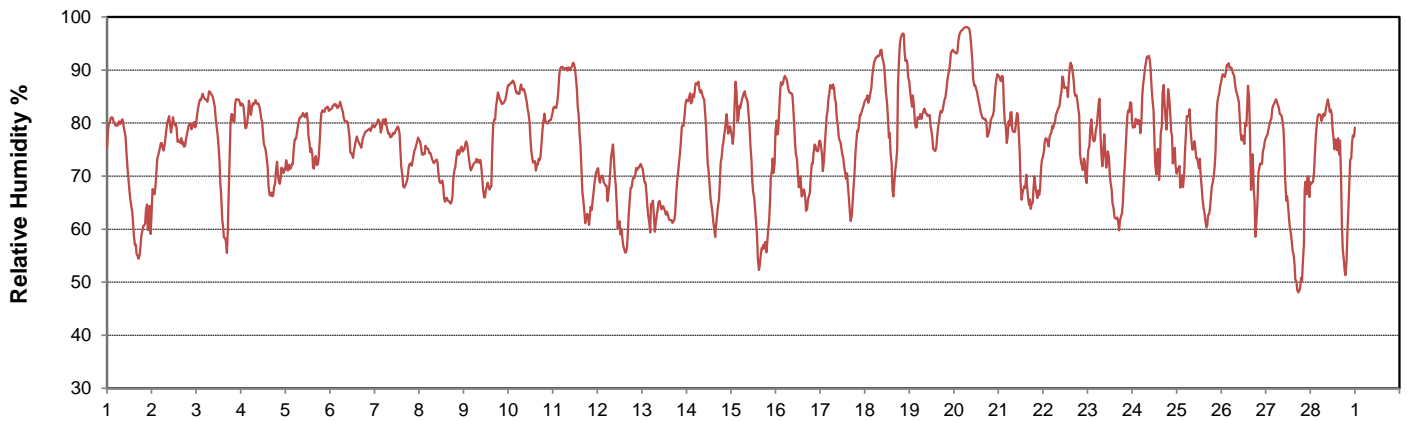
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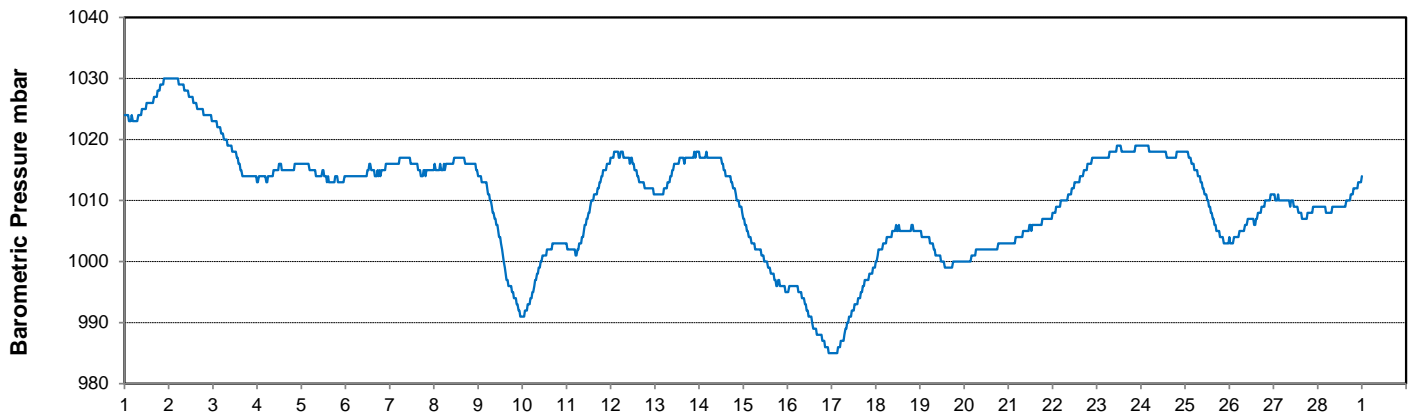
Temperature and Precipitation for February 2017



Relative Humidity for February 2017



Barometric Pressure Corrected to Sea Level for February 2017





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SASKATOON STATION 4057180

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

Preliminary FEBRUARY 2017

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 hours	Possible hours	% Possible	Global MJ/m ²	Diffuse MJ/m ²
	km/h			°C	°C	°C	°C	°C	°C	°C	°C						
1	51.4	NW	14:16	-13.5	-2.5	-2.0	-1.5	-1.0	0.5	2.0	4.5	9.7	6.2	9.2	67.8	5.9	1.6
2	31.5	WNW	13:41	-20.0	-4.5	-3.5	-2.5	-1.0	0.5	2.0	4.5	9.0	3.0	9.2	32.6	3.6	2.5
3	17.3	NE	23:13	-18.0	-5.5	-4.5	-3.5	-1.0	0.5	2.0	4.5	8.8	7.7	9.3	83.2	6.3	3.0
4	24.6	NNE	2:57	-14.5	-5.5	-5.0	-4.0	-1.5	0.5	2.0	4.5	8.8	4.2	9.3	45.1	5.8	4.0
5	16.7	WNW	0:33	-16.0	-6.0	-5.5	-4.5	-2.0	0.5	2.0	4.5	8.7	0.3	9.4	3.2	4.0	3.2
6	23.7	NE	16:31	-21.5	-6.5	-5.5	-5.0	-2.0	0.5	2.0	4.5	8.6	1.0	9.4	10.6	3.8	3.0
7	28.6	WNW	15:12	-27.0	-7.0	-6.5	-5.5	-2.5	0.5	2.0	4.5	8.4	8.7	9.5	91.6	9.0	2.6
8	39.4	W	16:10	-24.0	-8.0	-7.5	-6.0	-3.0	0.5	1.5	4.5	8.2	8.6	9.6	90.0	8.2	1.4
9	28.7	ESE	19:56	-23.0	-9.0	-8.0	-6.5	-3.0	0.5	1.5	4.5	8.1	0.2	9.6	2.1	3.8	3.1
10	25.3	NNE	2:34	-14.0	-7.5	-7.0	-6.5	-3.5	0.0	1.5	4.5	8.3	6.4	9.7	66.0	6.3	2.5
11	38.3	WNW	19:18	-11.5	-6.5	-6.5	-6.0	-3.5	0.0	1.5	4.0	8.5	5.8	9.8	59.5	6.8	2.0
12	37.6	WSW	13:50	-11.0	-6.0	-5.5	-5.0	-3.0	0.0	1.5	4.0	8.7	8.2	9.8	83.6	7.9	2.4
13	40.5	NW	11:12	-1.5	-5.0	-5.0	-4.5	-3.0	0.0	1.5	4.0	8.9	9.1	9.9	92.1	8.2	3.0
14	24.3	SW	15:12	-6.5	-4.5	-4.0	-4.0	-2.5	0.0	1.5	4.0	9.2	8.3	9.9	83.5	7.8	2.1
15	29.0	WSW	19:22	-5.0	-4.0	-3.5	-3.5	-2.5	0.0	1.5	4.0	9.4	8.4	10.0	84.0	8.0	2.4
16	37.6	SW	16:37	2.0	-3.0	-2.5	-3.0	-2.0	0.0	1.5	4.0	10.3	3.3	10.1	32.8	6.1	3.9
17	40.3	SW	1:07	2.5	-1.0	-1.0	-2.0	-2.0	0.0	1.5	4.0	10.9	9.3	10.1	91.8	8.8	1.0
18	23.7	E	23:51	-2.0	-0.5	-0.5	-1.0	-1.5	0.0	1.5	4.0	11.4	7.8	10.2	76.5	7.2	2.9
19	47.3	SE	14:58	0.5	-0.5	0.0	-0.5	-1.0	0.0	1.5	4.0	11.9	0.0	10.3	0.0	2.9	2.4
20	23.9	WSW	10:49	1.0	-0.5	0.0	-0.5	-1.0	0.0	1.5	4.0	12.6	0.0	10.3	0.0	2.8	2.3
21	25.8	NNW	15:42	0.0	0.0	0.0	-0.5	-1.0	0.0	1.5	4.0	12.7	0.0	10.4	0.0	3.3	2.8
22	28.9	NW	20:36	0.0	0.0	0.0	-0.5	-0.5	0.0	1.5	4.0	12.8	0.0	10.5	0.0	2.1	1.7
23	28.3	NW	13:28	-6.0	-0.5	0.0	-0.5	-0.5	0.0	1.5	4.0	12.0	5.7	10.5	54.1	7.4	4.1
24	31.2	NW	18:37	-10.0	-1.5	-0.5	-0.5	-0.5	0.0	1.5	4.0	11.5	3.7	10.6	34.9	5.7	3.3
25	23.6	N	0:01	-13.5	-3.0	-1.5	-1.0	-0.5	0.0	1.5	3.5	11.1	5.6	10.7	52.5	8.7	3.1
26	50.6	WNW	15:17	-10.5	-3.5	-2.5	-2.0	-0.5	0.0	1.5	3.5	10.7	4.2	10.7	39.2	7.6	4.9
27	28.3	SSW	13:00	-20.0	-5.5	-4.0	-2.5	-1.0	0.0	1.5	3.5	10.0	10.1	10.8	93.6	12.6	1.6
28	18.6	NW	17:31	-14.0	-6.5	-5.0	-4.0	-1.5	0.0	1.5	3.5	9.8	5.9	10.9	54.3	8.2	4.7
Total													141.7	279.5	50.7	178.8	77.5
Mean				-10.6	-4.1	-3.5	-3.1	-1.7	0.2	1.6	4.1	10.0	1981-2010 Normal for Radiation				
Extreme	51.4	NW	14:16	1971- 2000 Normal for Soil Temperatures									132.6	281.1	47.2	213.0	104.0
Date	1			-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4		No. of Bright Sunshine days = 24					

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

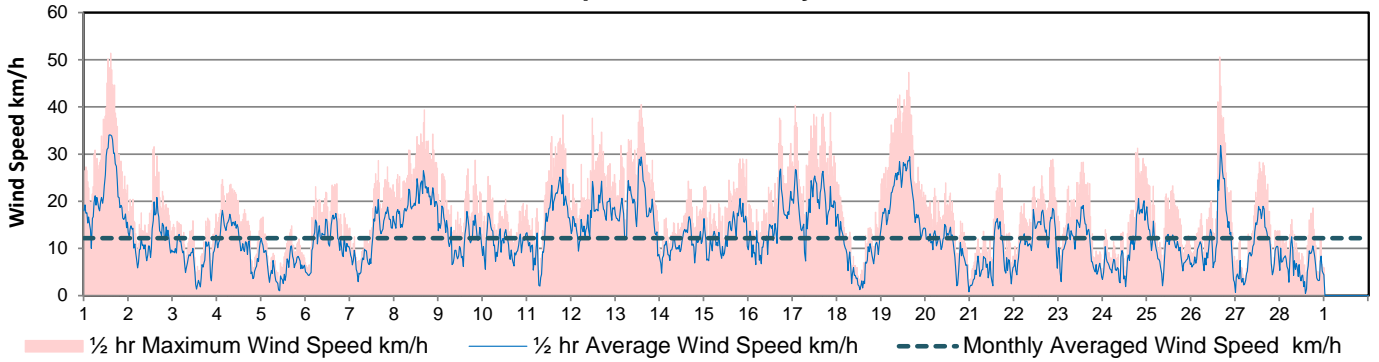
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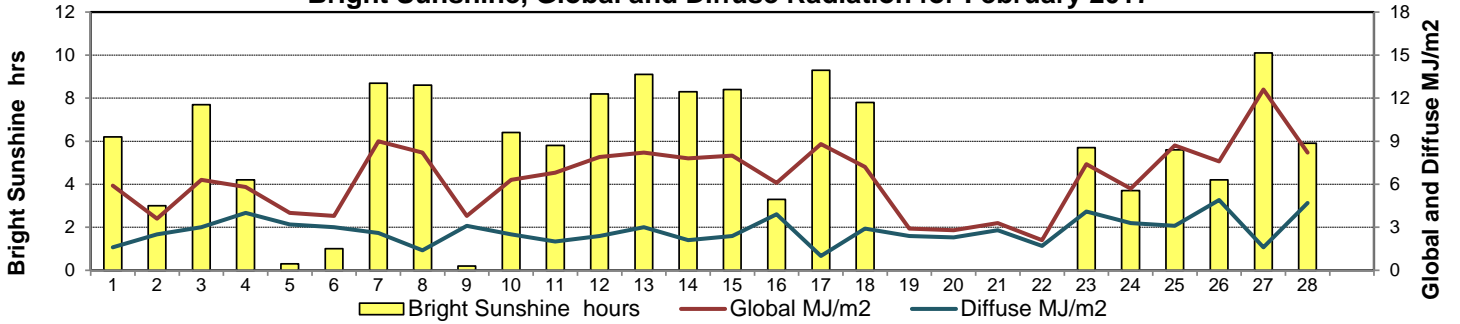
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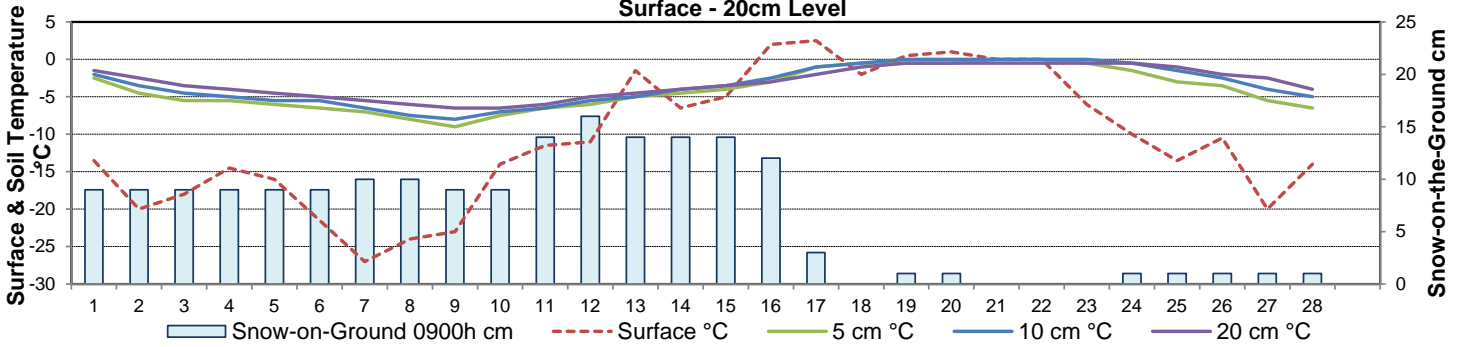
Wind Speed for February 2017



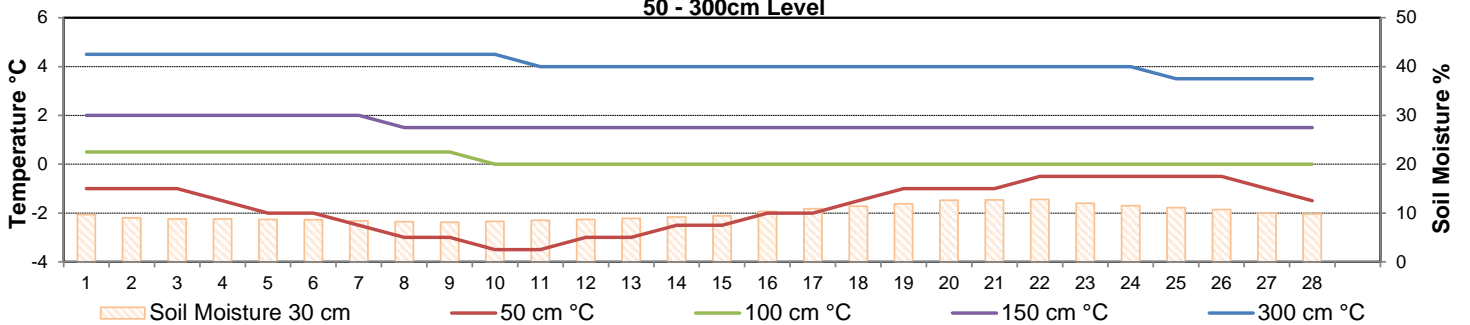
Bright Sunshine, Global and Diffuse Radiation for February 2017



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



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





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

Preliminary FEBRUARY 2017

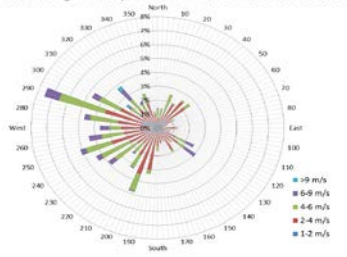
Extreme Records for February

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	8.3 02/2005	43.7	1924	SE	40.2 1979	106 ^N	22/1988	82.3 ^{NNW}	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

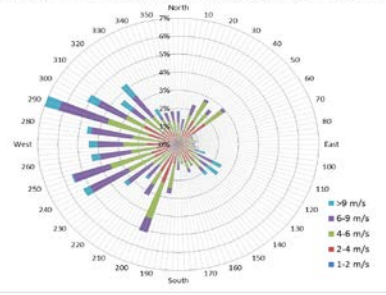
**1975 forward * more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Symbol	Description	
Temperature	Highest Maximum Daily	15	7.3	5.3	2011	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
	Highest Maximum Daily	16	9.0	7.7	2002	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
	Highest Maximum Daily	18	6.4	4.0	1981	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Highest Minimum Daily	16	0.8	-1.5	1981	S	Saskatoon	1941-1942	na	not available	
	Highest Minimum Daily	17	2.2	-0.6	1998	SA	Saskatoon A	1942 -	Degree-days		
	Highest Minimum Daily	18	-1.4	-2.9	1998, 2016	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature	
	Highest Minimum Daily	19	0.7	-3.7	1998	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
	Highest Minimum Daily	21	0.1	-0.5	1988	SWT	S'toon Water Treatment Plant	1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0	
	Highest Average Daily	15	1.7	0.9	2002	SC	S'toon Central Ave	1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0	
	Highest Average Daily	16	4.9	1.3	1981	S1	Saskatoon 1	1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0	
	Highest Average Daily	17	5.0	3.1	2002	S2	Saskatoon 2	1977-1990	Continuous Snow cover lasted from 25 December 2016 to 18 February 2017		
	Highest Average Daily	18	2.5	-1.1	2016	K	S'toon Kernen Farm	1993-2004			
	Highest Average Daily	19	1.9	-0.3	1982	KCS	S'toon Kernen Farm CS	1996-			
	Highest Daily Maximum Temperature for the Month	16	9.0	8.3	2005 (2)	RCS	Environment Canada	2008-			
	Highest Daily Mean Temperature for the Month	17	5.0	4.8	1991 (2)	SF	Sutherland Forestry	1943-1970			
Highest Number of Frost Free Days	4	3	1991								
Lowest No. of days ≤ 2°	27	27	1991								
Lowest No. of days ≤ -2°	22	25	1991								
Precipitation	Highest Daily	11	4.8	3.8	1966						

10 minute Average Wind Speed and Direction Saskatoon Feb 2017



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



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