



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **DECEMBER 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	Comments	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	-1.3	-5.3	-4.1	-14.0	-2.7	-9.6	0.0	20.7	0.0	0.0		0	97	83	1016	1013
2	-1.5	-6.3	-3.2	-14.4	-2.4	-10.3	0.0	20.4	0.0	0.0		0	88	77	1018	1009
3	-2.4	-6.9	-5.5	-15.8	-4.0	-11.3	0.0	22.0	0.0	0.0		0	94	83	1009	1004
4	0.4	-6.6	-8.3	-16.8	-4.0	-11.7	0.0	22.0	0.0	0.0		0	97	58	1006	1000
5	-4.5	-6.8	-13.7	-16.1	-9.1	-11.5	0.0	27.1	0.0	0.1	light snow	0	87	66	1017	1003
6	-13.6	-6.7	-18.3	-15.7	-16.0	-11.2	0.0	34.0	0.0	0.0		0	77	67	1024	1017
7	-14.0	-7.2	-18.5	-16.2	-16.3	-11.7	0.0	34.3	0.0	0.0		0	81	68	1036	1024
8	-17.9	-7.9	-23.5	-17.6	-20.7	-12.8	0.0	38.7	0.0	0.0		0	81	71	1037	1035
9	-19.5	-7.9	-24.4	-17.4	-22.0	-12.6	0.0	40.0	0.0	0.0		0	81	68	1036	1028
10	-16.8	-7.3	-24.4	-16.7	-20.6	-12.0	0.0	38.6	0.0	0.3	light snow	0	80	72	1028	1016
11	-16.2	-7.1	-22.1	-16.2	-19.2	-11.7	0.0	37.2	0.0	0.2	light snow	0	83	65	1016	1012
12	-15.2	-7.8	-21.8	-17.4	-18.5	-12.6	0.0	36.5	0.0	0.1		0	79	51	1013	1009
13	-16.9	-7.9	-21.2	-16.4	-19.1	-12.2	0.0	37.1	0.0	0.1		0	84	47	1019	1008
14	-16.4	-8.1	-23.4	-16.3	-19.9	-12.2	0.0	37.9	0.0	0.0		0	80	63	1024	1020
15	-16.1	-7.1	-21.4	-17.7	-18.8	-12.4	0.0	36.8	0.0	0.0		0	84	63	1020	1018
16	-20.8	-8.1	-27.7	-17.2	-24.3	-12.6	0.0	42.3	0.0	0.0		-	80	64	1021	1018
17	-19.6	-8.6	-29.6	-17.2	-24.6	-12.9	0.0	42.6	0.0	0.0		-	80	63	1021	1015
18	0.1	-9.3	-26.3	-18.0	-13.1	-13.7	0.0	31.1	0.0	0.1	light snow	0	86	68	1015	1001
19	1.1	-8.3	-3.6	-16.9	-1.3	-12.6	0.0	19.3	0.0	0.0		0	78	55	1003	994
20	-1.1	-9.0	-11.5	-18.0	-6.3	-13.5	0.0	24.3	0.0	0.0		0	92	50	1006	1000
21	1.5	-9.6	-11.0	-19.0	-4.8	-14.3	0.0	22.8	0.0	0.2	light snow	0	91	56	1012	1004
22	2.4	-10.3	-7.5	-18.1	-2.6	-14.2	0.0	20.6	0.0	0.0		0	83	50	1009	1000
23	-4.1	-9.1	-17.2	-18.9	-10.7	-14.0	0.0	28.7	0.0	0.2	light snow	0	92	74	1021	1001
24	-15.7	-8.3	-19.9	-18.4	-17.8	-13.3	0.0	35.8	0.0	0.4	light snow	0	81	67	1025	1021
25	-13.8	-8.2	-16.9	-18.0	-15.4	-13.1	0.0	33.4	0.0	1.8	light snow	3	84	78	1025	1017
26	-12.3	-7.0	-17.6	-17.3	-15.0	-12.2	0.0	33.0	0.0	0.3	light snow	4	84	71	1017	1012
27	-3.6	-8.3	-19.4	-17.6	-11.5	-13.0	0.0	29.5	0.0	0.0		5	86	77	1012	995
28	-0.4	-10.2	-10.0	-18.5	-5.2	-14.4	0.0	23.2	0.0	0.0		3	81	67	1012	998
29	-3.6	-11.5	-11.2	-20.2	-7.4	-15.9	0.0	25.4	0.0	0.0		3	81	63	1019	1007
30	-6.1	-12.2	-13.2	-20.3	-9.7	-16.3	0.0	27.7	0.0	6.3	snow	13	94	74	1008	1001
31	-6.1	-13.2	-15.7	-21.7	-10.9	-17.5	0.0	28.9	0.0	0.1	light snow	12	89	76	1008	997
Total							0.0	951.9	0.0	10.2			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-8.8	-8.3	-16.5	-17.4	-12.7	-12.9	1981-2010 Normal			12.7	Normal					
Extreme	2.4		-29.6				0.1	957.5	0.0	363.6	Cumulative		97	47	1037	994
Date	22		17							355.3	Cumulative No		1	13	8	19

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

SRC proudly recognizes the following CRS supporters:



Agriculture and Agri-Food Canada

Agriculture et Agroalimentaire Canada

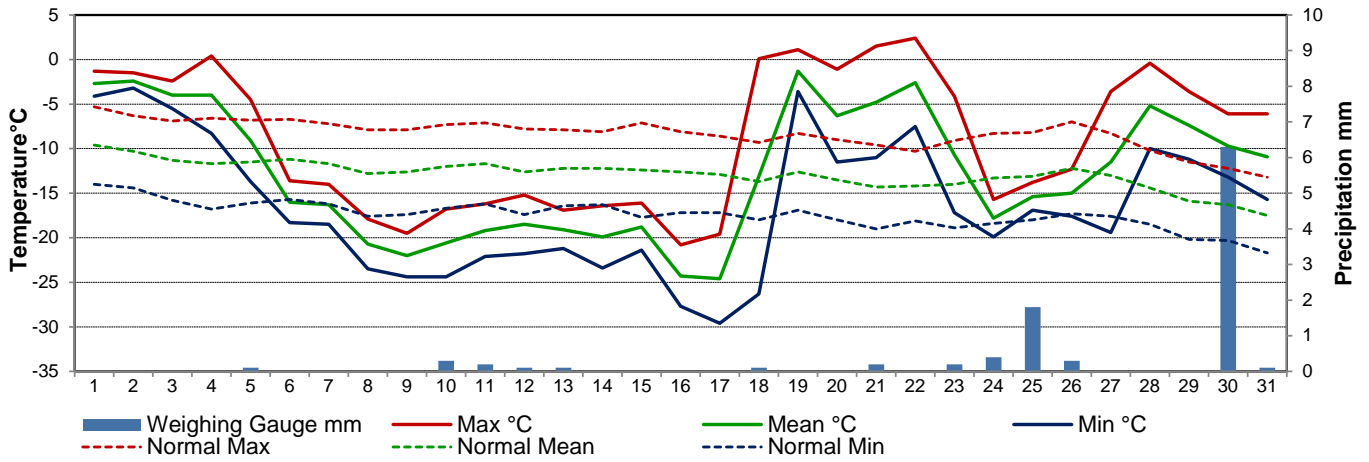


UNIVERSITY OF SASKATCHEWAN

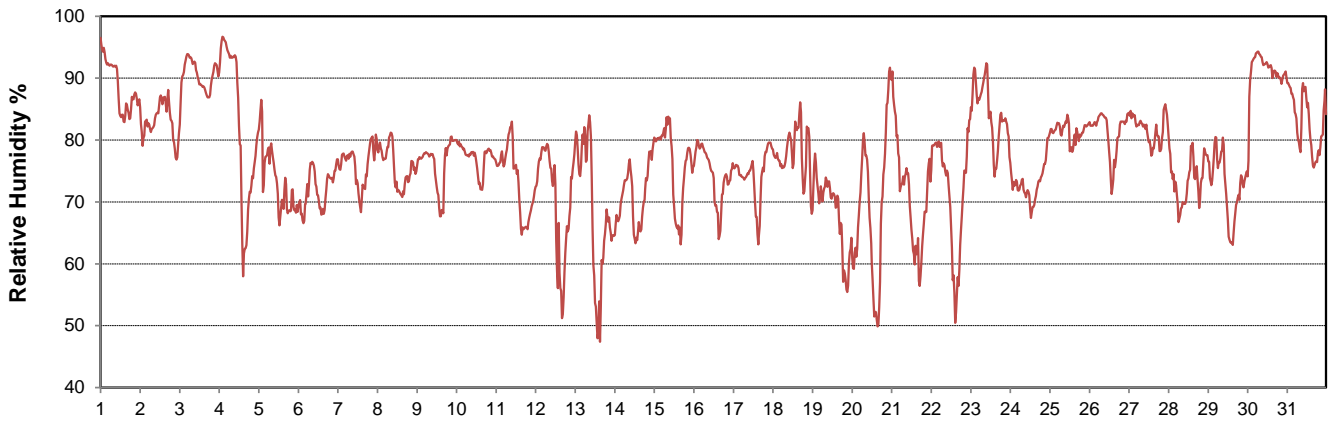


CAMPBELL SCIENTIFIC WHEN MEASUREMENTS MATTER

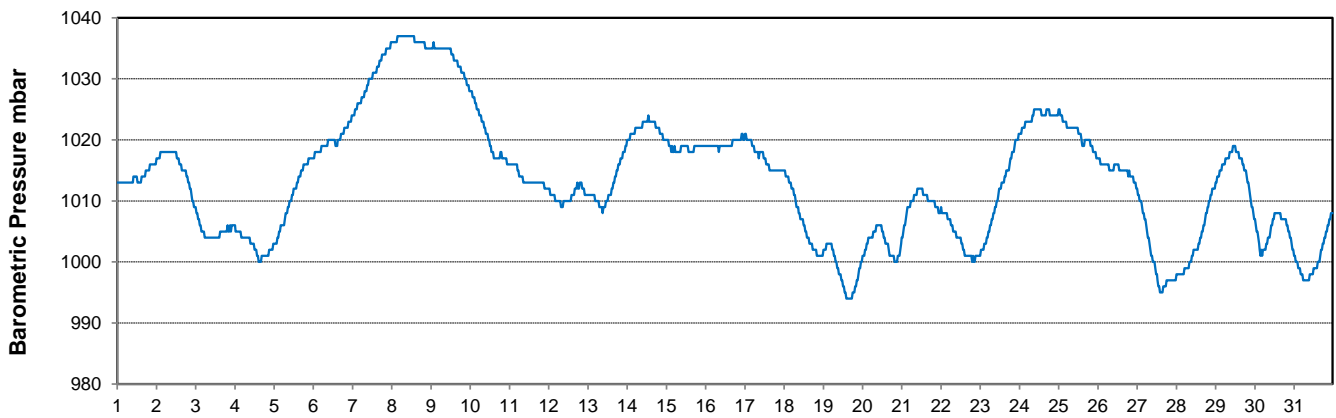
Temperature and Precipitation for December 2016



Relative Humidity for December 2016



Barometric Pressure Corrected to Sea Level for December 2016





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **DECEMBER 2016**

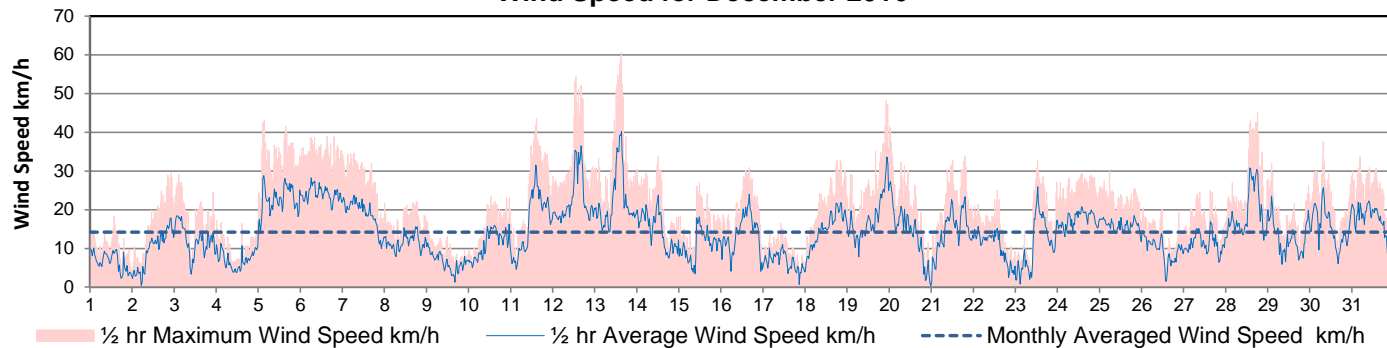
Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		0900hrs	Bright Sunshine	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m ²	MJ/m ²
1	18.3	SE	13:38	-3.5	-0.5	0.5	1.0	3.0	5.5	6.5	8.5	20.4	0.0	8.1	0.0	1.8	1.5
2	29.5	SE	22:23	-2.0	0.0	0.5	1.0	3.0	5.5	6.5	8.5	20.4	0.0	8.0	0.0	0.5	0.4
3	29.1	ESE	2:33	-5.5	-0.5	0.0	0.5	3.0	5.0	6.5	8.5	19.9	0.2	8.0	2.5	1.4	1.1
4	17.3	WSW	0:18	-8.5	-1.0	0.0	0.5	2.5	5.0	6.5	8.5	19.5	2.9	8.0	36.4	3.5	1.3
5	42.9	NW	3:12	-9.0	-1.5	-0.5	0.5	2.5	5.0	6.5	8.5	18.8	0.0	7.9	0.0	1.3	1.1
6	38.9	NW	19:13	-18.0	-4.0	-2.0	0.0	2.5	5.0	6.5	8.5	16.7	3.5	7.9	44.2	2.4	1.6
7	34.6	NW	6:50	-17.5	-6.0	-4.0	-1.0	2.0	5.0	6.0	8.5	13.2	4.0	7.9	50.7	3.1	1.8
8	22.2	NW	18:04	-21.5	-7.0	-5.5	-2.5	2.0	4.5	6.0	8.0	10.5	7.1	7.9	90.2	4.4	1.3
9	13.1	NW	11:56	-24.5	-9.0	-7.0	-4.0	1.5	4.5	6.0	8.0	9.5	6.4	7.9	81.5	4.5	1.0
10	23.5	SE	12:52	-23.5	-10.0	-8.5	-5.5	1.0	4.5	6.0	8.0	8.9	6.2	7.8	79.2	5.1	1.0
11	43.6	WNW	14:33	-18.0	-9.5	-8.5	-6.0	0.5	4.0	6.0	8.0	8.8	1.0	7.8	12.8	1.8	1.3
12	54.3	WNW	17:46	-19.5	-10.0	-9.0	-7.0	0.0	4.0	5.5	8.0	8.6	5.3	7.8	68.0	3.5	1.7
13	38.8	NW	13:05	-14.5	-9.5	-8.5	-7.0	-0.5	3.5	5.5	8.0	8.7	5.1	7.8	65.6	3.2	1.3
14	33.8	NW	12:30	-22.0	-11.0	-9.5	-7.5	-1.0	3.5	5.5	8.0	8.3	4.8	7.8	61.9	3.0	1.6
15	27.0	NNE	11:33	-20.0	-11.0	-9.5	-7.5	-1.5	3.5	5.5	8.0	8.3	5.5	7.8	71.0	3.8	1.6
16	30.9	NW	16:26	-26.0	-11.5	-10.0	-8.0	-2.0	3.0	5.0	7.5	8.1	6.9	7.7	89.1	5.3	1.2
17	16.5	SSW	10:26	-29.0	-13.5	-12.0	-9.5	-2.5	3.0	5.0	7.5	7.7	7.0	7.7	90.6	5.3	0.9
18	32.8	WSW	20:29	-20.0	-13.0	-12.5	-10.0	-3.0	2.5	5.0	7.5	7.7	0.6	7.7	7.8	2.2	1.6
19	48.1	WNW	22:29	-4.0	-7.5	-7.5	-7.0	-3.5	2.5	4.5	7.5	8.5	0.0	7.7	0.0	1.5	1.2
20	19.2	SE	18:07	-6.5	-6.0	-6.0	-5.0	-3.0	2.0	4.5	7.5	8.8	7.0	7.7	90.7	3.7	0.6
21	33.9	WSW	19:24	-9.5	-7.5	-7.0	-5.5	-2.5	2.0	4.5	7.5	8.7	4.2	7.7	54.4	2.7	1.2
22	25.0	SW	13:33	-6.5	-6.5	-6.0	-5.0	-2.5	2.0	4.0	7.5	8.9	3.4	7.7	44.0	2.8	1.6
23	32.7	NNE	12:45	-7.0	-6.0	-6.0	-5.0	-2.5	1.5	4.0	7.0	9	2.2	7.7	28.5	2.1	1.3
24	29.3	E	14:10	-18.5	-8.5	-7.5	-6.0	-2.5	1.5	4.0	7.0	8.5	1.6	7.7	20.7	2.3	1.6
25	29.8	E	5:48	-15.5	-8.0	-7.5	-6.5	-3.0	1.5	3.5	7.0	8.4	1.3	7.7	16.8	2.3	1.7
26	20.4	NNE	0:49	-15.0	-7.0	-6.5	-6.0	-3.0	1.5	3.5	7.0	8.5	3.6	7.8	46.5	3.1	1.3
27	24.8	W	15:19	-15.0	-6.5	-6.0	-5.5	-3.0	1.5	3.5	7.0	8.6	0.0	7.8	0.0	1.6	1.4
28	45.0	NW	18:08	-9.0	-6.0	-5.5	-5.0	-2.5	1.0	3.5	7.0	8.7	2.3	7.8	29.6	2.6	1.5
29	32.0	WNW	2:23	-12.5	-5.0	-4.5	-4.0	-2.5	1.0	3.5	6.5	8.9	6.1	7.8	78.3	3.6	0.7
30	37.6	NNE	7:34	-8.0	-4.5	-4.5	-4.0	-2.5	1.0	3.0	6.5	9.1	0.6	7.8	7.7	2.2	1.8
31	33.8	W	4:49	-6.5	-4.5	-4.0	-3.5	-2.0	1.0	3.0	6.5	9.2	0.4	7.8	5.1	2.3	1.9
Total													99.2	242.23	41.0	88.9	41.1
Mean				-14.1	-6.8	-6.0	-4.5	-0.7	3.1	5.0	7.7	10.9	1981-2010 Normal for Radiation				
Extreme	54.3	WNW	17:46	1971- 2000 Normal for Soil Temperatures									85.7	242.3	35.4	100.0	50.0
Date	12			-7.1	-6.6	-5.6	-1.7	2.0	3.8	6.4		No. of Bright Sunshine days = 26					

Note: Red numbers indicate manual calculation

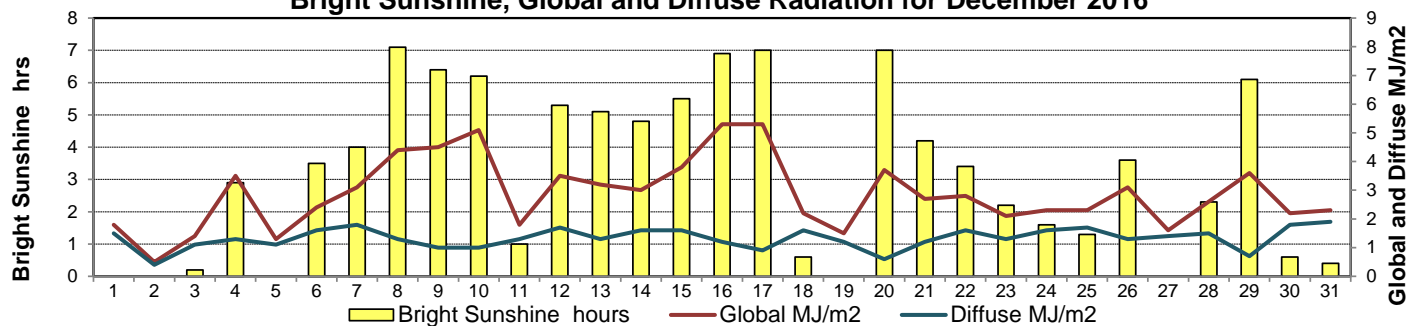
SRC proudly recognizes the following CRS supporters:



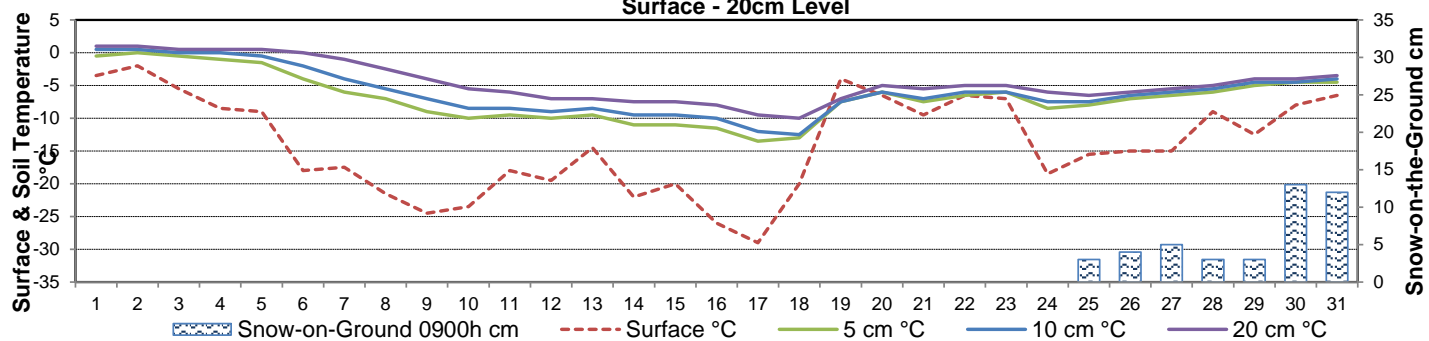
Wind Speed for December 2016



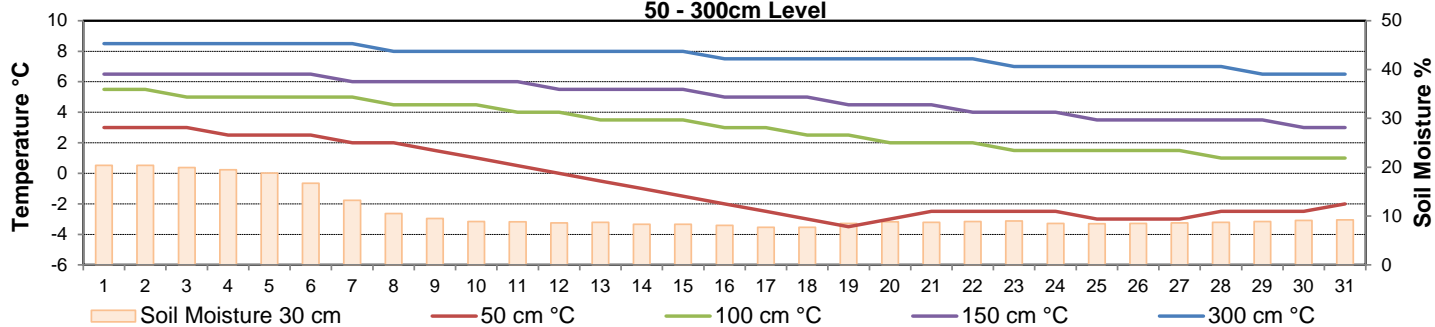
Bright Sunshine, Global and Diffuse Radiation for December 2016



Soil Temperatures for December 2016 Surface - 20cm Level



Soil Temperatures for December 2016 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 **DECEMBER 2015**

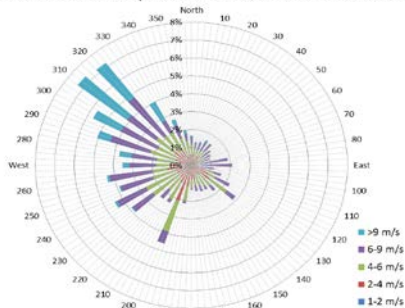
Extreme Records for December

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
14.4	05/1939	SE	11.2	14/1997	59.2	1956	SA	48.2	1973	121 ^W	12/1955	89.4	1992	123.3	2006	27	1994*
-43.9	22/1892	SM	-42.2	31/1973	0.0	1906, '30	SE	0.4	2009					49.1	1973	17	1966*

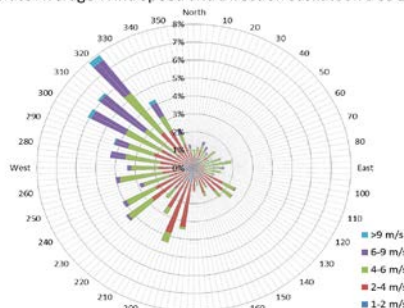
**1975 forward * more than one year

Notable Events for CRS Saskatoon - December						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Location	Period	Term	Definition
Temperature	Highest Minimum Daily	19	-3.6	-4	1988	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Precipitation	Total Daily	30	6.3	5.3	1965	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
						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	Site maintenance on Dec 9, 13, 20	
						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 Dec 2016



10 minute Average Wind Speed and Direction Saskatoon Dec 2016



SRC proudly recognizes the following CRS supporters:



Agriculture et Agroalimentaire Canada

