



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## SASKATOON STATION 4057180

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

Preliminary **NOVEMBER 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	-1.5	3.0	-5.9	-5.1	-3.7	-1.1	0.0	21.7	0.0	1.1	light snow	2	95	77	1016	997
2	-2.6	3.2	-8.3	-5.7	-5.5	-1.2	0.0	23.5	0.0	0.0		1	90	71	1026	1016
3	-6.2	3.1	-10.2	-5.0	-8.2	-0.9	0.0	26.2	0.0	2.5	snow	0	92	86	1026	1018
4	-8.5	3.8	-16.1	-4.2	-12.3	-0.2	0.0	30.3	0.0	2.2	snow	7	92	81	1018	1012
5	-8.9	4.3	-17.9	-6.0	-13.4	-0.9	0.0	31.4	0.0	0.0		6	87	73	1017	1015
6	-7.5	2.8	-13.0	-6.6	-10.3	-1.9	0.0	28.3	0.0	0.0		6	84	53	1024	1017
7	-5.8	1.5	-14.8	-7.1	-10.3	-2.8	0.0	28.3	0.0	0.1	Manual snow depth 7cm	6	83	65	1023	1019
8	-9.2	0.6	-17.3	-6.8	-13.3	-3.1	0.0	31.3	0.0	0.6	light snow	7	91	68	1026	1024
9	-9.6	-0.5	-19.8	-8.9	-14.7	-4.7	0.0	32.7	0.0	0.0		6	87	69	1026	1013
10	-2.8	0.7	-9.9	-8.7	-6.4	-4.0	0.0	24.4	0.0	2.4	snow	9	91	80	1012	1002
11	-4.8	0.3	-12.3	-9.0	-8.6	-4.3	0.0	26.6	0.0	0.0		10	91	66	1021	1012
12	-6.7	0.7	-11.4	-9.0	-9.1	-4.2	0.0	27.1	0.0	0.0		9	93	90	1022	1016
13	2.1	1.3	-11.5	-8.2	-4.7	-3.4	0.0	22.7	0.0	0.0		9	93	68	1015	1004
14	-5.2	1.1	-15.2	-8.5	-10.2	-3.7	0.0	28.2	0.0	1.2	light snow	9	93	78	1023	1002
15	-12.4	1.0	-22.9	-8.9	-17.7	-4.0	0.0	35.7	0.0	0.0	Manual snow depth 10cm	10	87	80	1025	1011
16	-4.4	0.3	-12.8	-9.7	-8.6	-4.7	0.0	26.6	0.0	2.5	light snow	9	94	78	1010	991
17	-9.6	-1.9	-16.9	-9.0	-13.3	-5.4	0.0	31.3	0.0	0.2	light snow	9	94	71	1013	991
18	-9.9	-0.8	-20.9	-8.7	-15.4	-4.8	0.0	33.4	0.0	0.0		8	83	70	1016	1009
19	-5.3	-1.0	-15.1	-8.9	-10.2	-5.0	0.0	28.2	0.0	0.0		8	91	76	1009	990
20	-5.1	-1.2	-16.2	-9.8	-10.7	-5.5	0.0	28.7	0.0	0.5	light snow	9	90	71	1019	989
21	-14.4	-3.4	-18.9	-11.6	-16.7	-7.5	0.0	34.7	0.0	0.1		8	84	72	1027	1016
22	-7.2	-2.4	-18.1	-12.3	-12.7	-7.4	0.0	30.7	0.0	0.0		8	93	71	1015	1009
23	4.0	-3.8	-8.9	-12.3	-2.5	-8.1	0.0	20.5	0.0	0.0	manual snow depth 12cm	8	96	74	1008	990
24	3.3	-4.4	-10.7	-12.7	-3.7	-8.6	0.0	21.7	0.0	0.0		8	93	74	1010	992
25	1.3	-5.0	-9.2	-13.5	-4.0	-9.3	0.0	22.0	0.0	0.0		8	94	74	1014	1009
26	-0.7	-5.4	-10.0	-14.0	-5.4	-9.7	0.0	23.4	0.0	0.0		8	93	86	1015	993
27	6.6	-5.7	-4.1	-13.3	1.3	-9.6	0.0	16.7	0.0	0.0		6	88	61	1002	988
28	3.2	-3.9	-9.3	-12.8	-3.1	-8.4	0.0	21.1	0.0	0.0		6	82	61	1012	1002
29	3.1	-3.5	-2.2	-11.6	0.5	-7.6	0.0	17.5	0.0	0.1	drizzle	6	87	64	1013	999
30	0.4	-3.7	-6.6	-12.5	-3.1	-8.1	0.0	21.1	0.0	0.1	manual snow depth 6cm	6	83	65	1013	1008
Total							0.0	796.0	0.0	13.6			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-4.1	-0.6	-12.9	-9.4	-8.5	-5.0	1981-2010 Normal			13.4	Normal					
Extreme Date	6.6		-22.9				2.9	690.1	0.0	253.0	Cumulative		96	53	1027	988
	27		15							342.6	Cumulative Norm		23	6	21	27

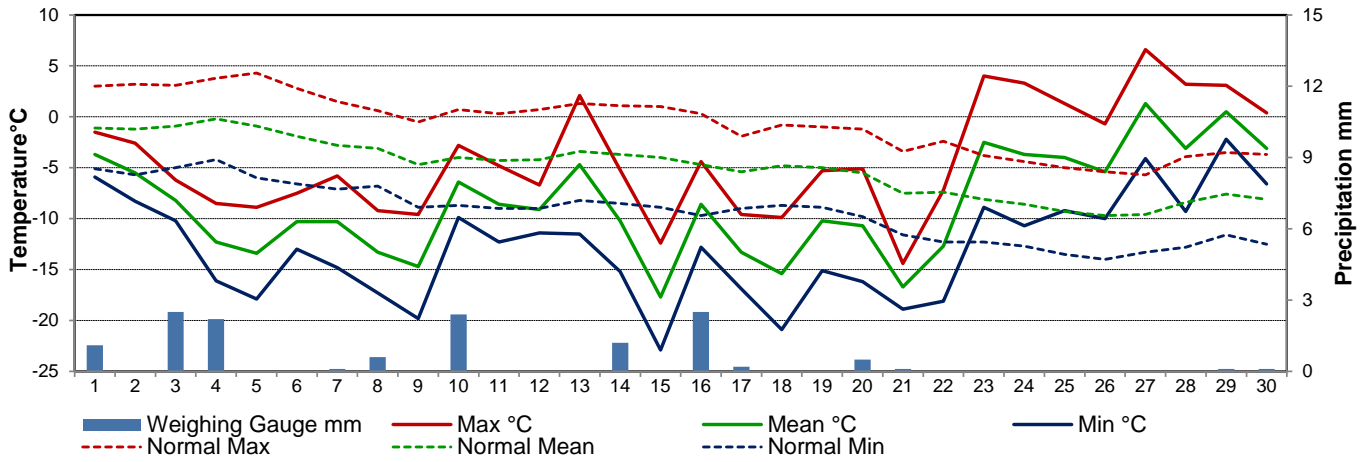
manual snow depth is average of three meter sticks inside the site

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

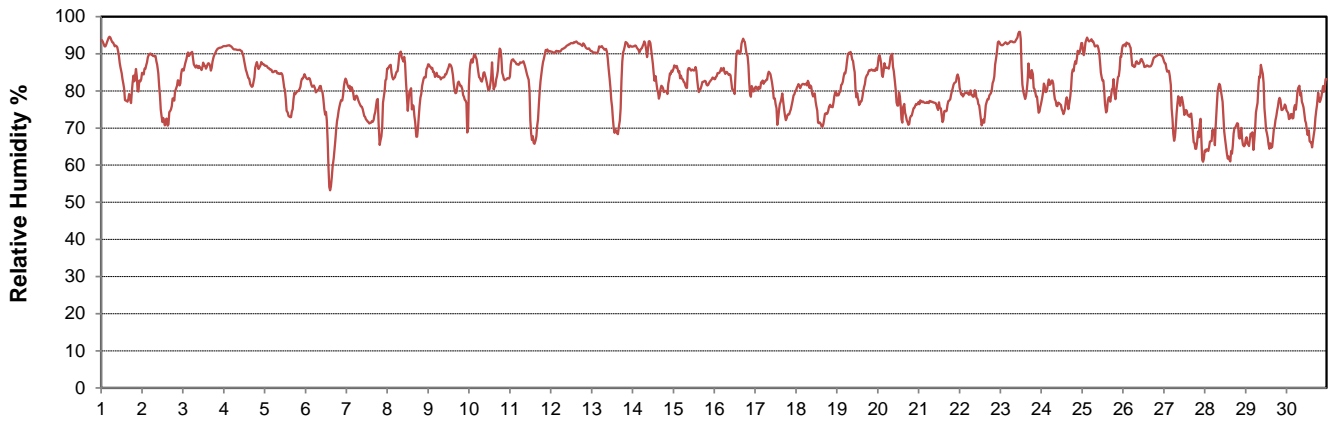
### SRC proudly recognizes the following CRS supporters:



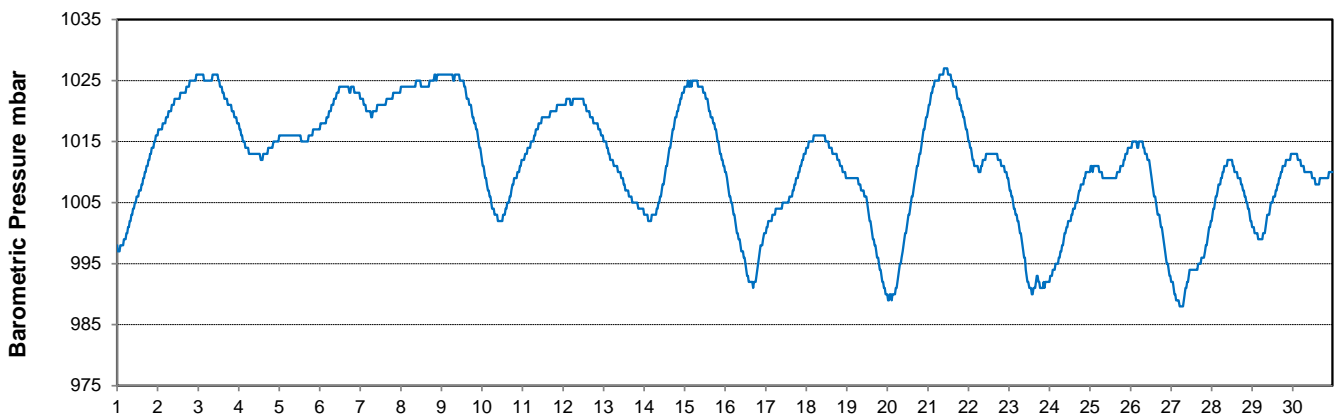
### Temperature and Precipitation for November 2017



### Relative Humidity for November 2017



### Barometric Pressure Corrected to Sea Level for November 2017





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

Preliminary **NOVEMBER 2017**

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	34.1	NNE	6:56	-4.0	0.5	1.5	2.5	6.0	8.5	9.5	10.0	14	0.7	9.6	7.3	4.1	3.2
2	19.8	ENE	15:49	-7.0	0.5	1.0	2.0	5.5	8.5	9.5	10.0	14	6.3	9.5	66.2	6.6	2.2
3	35.4	ENE	16:47	-9.0	0.0	1.0	2.0	5.5	8.0	9.0	10.0	14	0.0	9.5	0.0	3.0	2.5
4	32.9	NNE	12:01	-10.0	0.0	0.5	1.5	5.0	8.0	9.0	10.0	13	6.2	9.4	66.0	6.6	2.6
5	33.5	W	16:59	-18.0	-0.5	0.5	1.5	5.0	8.0	9.0	10.0	13	7.9	9.3	84.6	7.7	2.8
6	33.2	SW	21:33	-10.5	-0.5	0.0	1.0	4.5	7.5	9.0	10.0	13	5.9	9.3	63.6	6.0	2.5
7	33.4	WNW	15:04	-13.0	-1.5	-0.5	0.5	4.5	7.5	8.5	10.0	13	6.3	9.2	68.3	6.5	2.6
8	34.0	WNW	14:53	-16.0	-1.5	-0.5	0.5	4.0	7.5	8.5	10.0	12	3.5	9.2	38.2	4.5	2.8
9	41.8	SSE	23:17	-19.5	-2.0	-1.0	0.0	4.0	7.0	8.5	9.5	12	7.0	9.1	76.8	5.7	2.1
10	40.2	SSE	0:59	-6.5	-2.0	-1.5	0.0	3.5	7.0	8.5	9.5	12	0.0	9.1	0.0	2.3	1.9
11	21.8	WSW	17:41	-7.5	-1.0	-1.0	0.0	3.5	7.0	8.0	9.5	12	3.8	9.0	42.3	4.5	2.5
12	22.5	ESE	13:18	-9.0	-1.0	-0.5	0.0	3.5	7.0	8.0	9.5	12	0.0	8.9	0.0	2.7	2.3
13	22.4	S	14:03	-9.0	-1.0	-0.5	0.5	3.5	6.5	8.0	9.5	12	7.8	8.9	87.7	8.2	1.4
14	45.8	N	13:33	-7.5	-1.0	-0.5	0.5	3.5	6.5	8.0	9.5	12	0.0	8.8	0.0	2.2	1.8
15	51.7	SE	21:55	-19.5	-1.0	-0.5	0.5	3.5	6.5	8.0	9.5	11	6.3	8.8	71.8	5.3	2.5
16	51.2	SSE	6:23	-9.0	-1.5	-1.0	0.0	3.0	6.5	7.5	9.5	11	0.1	8.7	1.1	2.4	1.9
17	36.1	NW	20:37	-14.0	-1.0	-1.0	0.0	3.0	6.0	7.5	9.0	11	1.1	8.7	12.7	3.7	2.7
18	25.7	SW	14:33	-19.5	-1.5	-1.0	0.0	3.0	6.0	7.5	9.0	11	6.2	8.6	71.8	5.2	2.2
19	32.6	SE	12:06	-15.5	-2.0	-1.5	-0.5	3.0	6.0	7.5	9.0	11	3.2	8.6	37.3	4.1	2.7
20	63.4	NW	13:30	-8.0	-1.5	-1.5	-0.5	2.5	6.0	7.5	9.0	11	2.3	8.5	27.0	3.7	2.3
21	23.7	WNW	1:14	-16.0	-2.0	-1.5	-0.5	2.5	6.0	7.0	9.0	10	1.2	8.5	14.2	3.3	2.6
22	23.7	SSW	20:23	-11.0	-2.0	-1.5	-1.0	2.5	5.5	7.0	9.0	10	1.9	8.4	22.5	3.3	2.2
23	39.1	WNW	16:29	-7.5	-2.0	-1.5	-1.0	2.5	5.5	7.0	9.0	10	2.6	8.4	31.0	3.3	1.9
24	32.6	W	9:17	-0.5	-1.5	-1.0	-0.5	2.5	5.5	7.0	9.0	10	1.9	8.4	22.8	3.0	2.2
25	26.2	SW	12:09	-6.0	-1.0	-1.0	0.0	2.5	5.5	7.0	8.5	10	1.0	8.3	12.0	3.2	2.4
26	45.9	SE	21:38	-5.5	-1.5	-1.0	0.0	2.5	5.5	6.5	8.5	10	0.0	8.3	0.0	2.1	1.7
27	74.3	WNW	20:04	2.5	-1.0	-0.5	0.0	2.5	5.5	6.5	8.5	11	6.4	8.2	77.9	4.4	1.1
28	59.2	NW	0:15	-11.5	-0.5	-0.5	0.0	2.5	5.0	6.5	8.5	11	6.6	8.2	80.7	4.2	1.1
29	44.0	WNW	15:03	0.5	-0.5	-0.5	0.0	2.5	5.0	6.5	8.5	11	6.0	8.2	73.6	4.1	1.0
30	31.6	SSW	8:58	-5.0	-0.5	0.0	0.0	2.5	5.0	6.5	8.5	11	7.6	8.1	93.7	4.4	0.7
Total													109.8	263.58	41.7	130.3	64.4
Mean				-9.7	-1.1	-0.6	0.3	3.5	6.5	7.8	9.3	11.5	1981-2010 Normal for Radiation				
Extreme	74.3	WNW	20:04	1971- 2000 Normal for Soil Temperatures									97.0	270.3	35.9	127.2	63.8
Date	27			-2.2	-1.7	-0.5	3.0	5.6	6.8	8.1		No. of Bright Sunshine days = 25					

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

### SRC proudly recognizes the following CRS supporters:

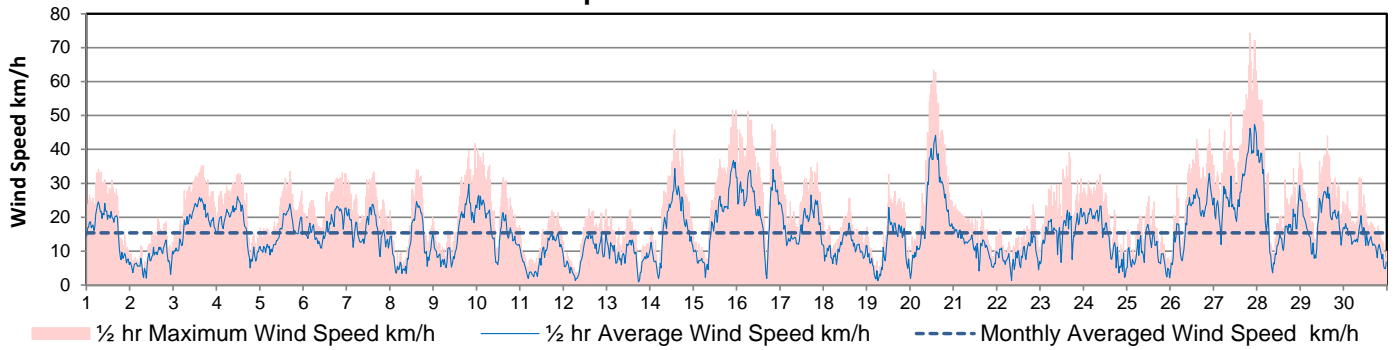


Agriculture and Agri-Food Canada

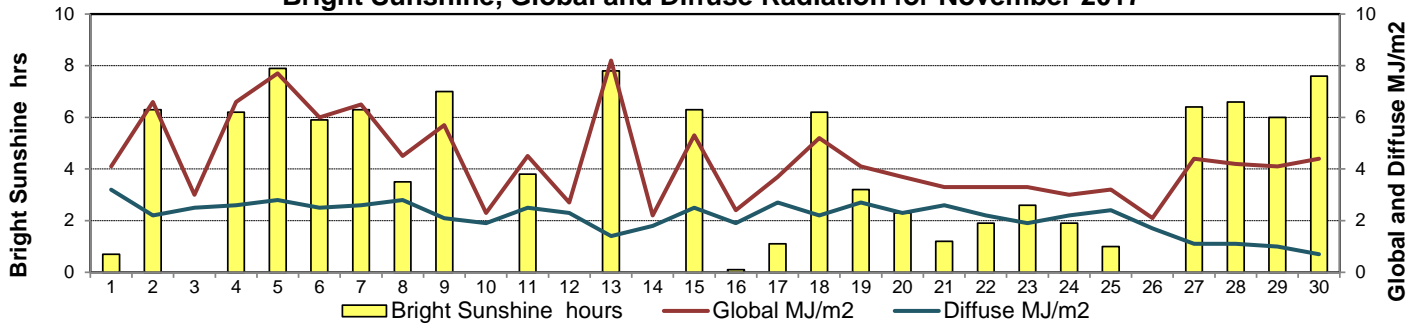
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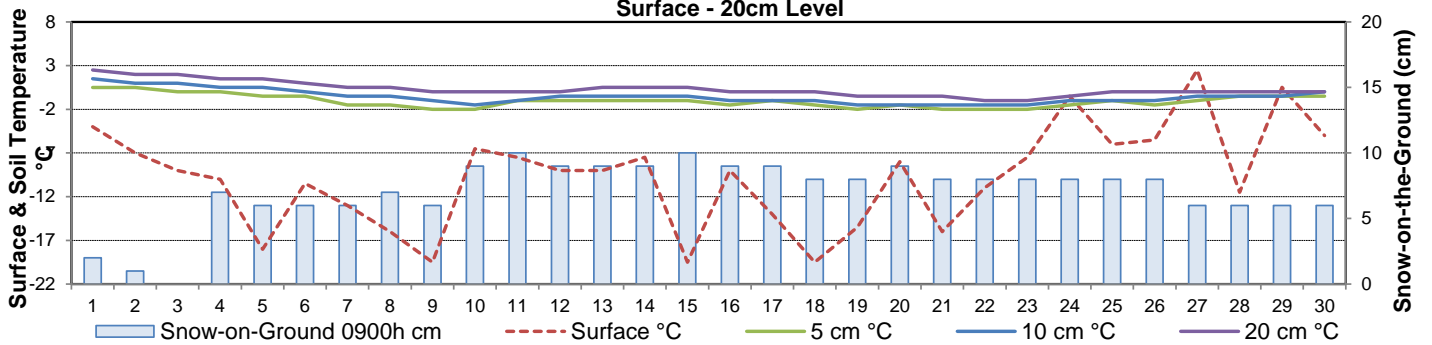
**Wind Speed for November 2017**



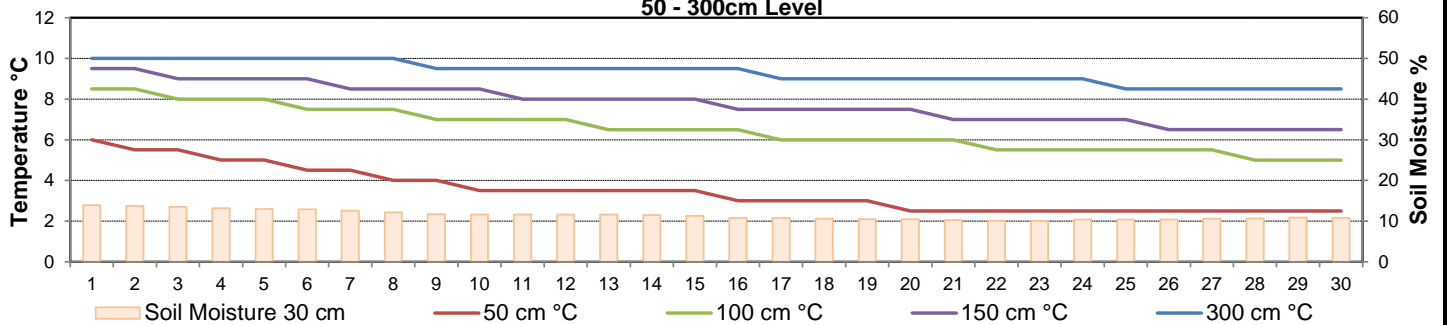
**Bright Sunshine, Global and Diffuse Radiation for November 2017**



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



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





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Preliminary **NOVEMBER 2017**

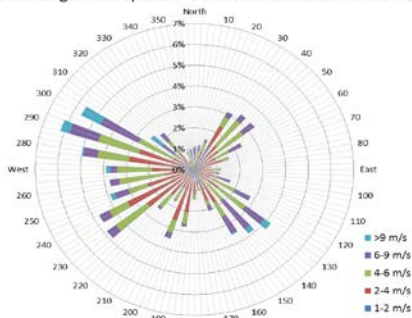
### Extreme Records for November

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
21.7	03/1903	SE	20.0	06/2016	57.3	1940	SE	48.2	1973	100 <sup>W</sup>	17/1976	101	1976	188.5	1976	30	1976
-39.4	30/1893	SM	-33.5	24/1985	0.0	2002*	SWT*	0.4	2009					37.2	1972	10	1972

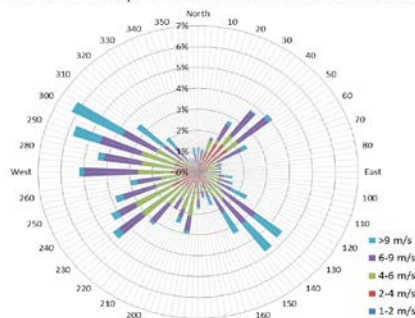
\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - November						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year (day)	Station	Location	Period	Term	Definition	
Temperature	Lowest Minimum Daily	15	-22.9	-22.5	1986	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
	Highest Minimum Daily	29	-2.2	-2.2	2016	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
Precipitation	Highest Daily	10	2.4	1.6	2012	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	<b>Oct 24 Max wind speed/dir/time is manual calculations due to datalogger error.</b>		
						K	S'toon Kernen Farm	1993-2004			
						KCS	S'toon Kernen Farm CS	1996-			
						RCS	Environment Canada	2008-			
						SF	Sutherland Forestry	1943-1970			

10 minute Average Wind Speed and Direction Saskatoon November 2017



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



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