



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary OCTOBER 2015

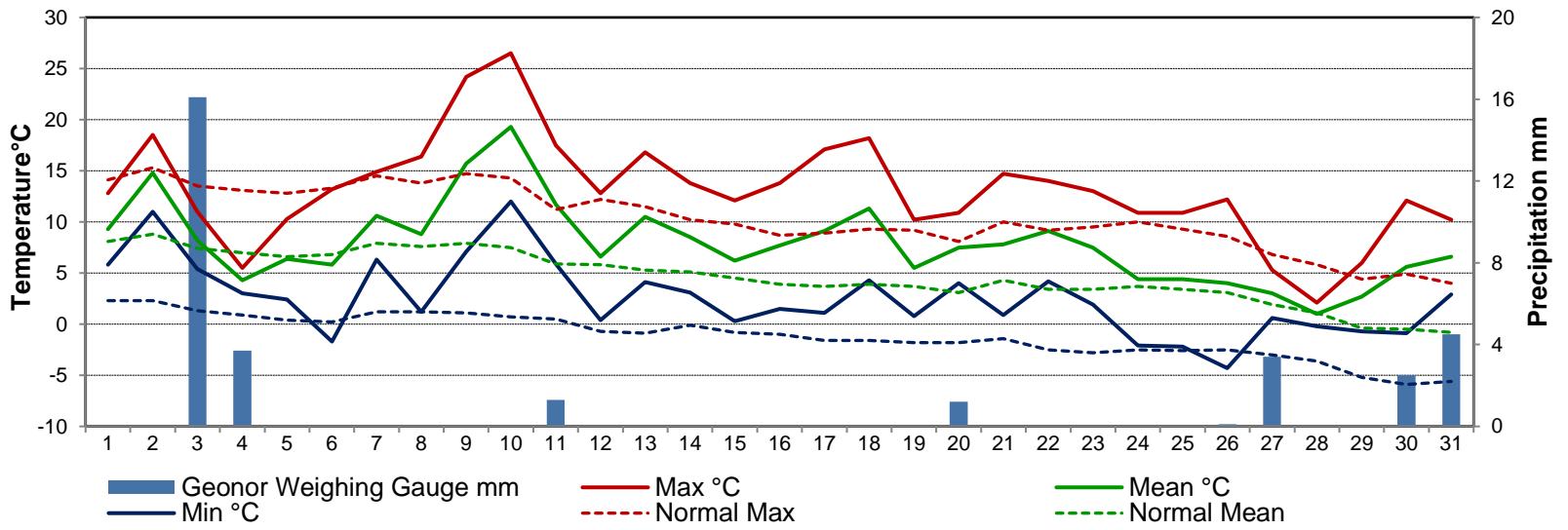
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Geonor Weighing Gauge	Tipping bucket	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm	mm	cm	%	%	mbar	mbar
1	12.8	14.1	5.8	2.3	9.3	8.1	4.3	8.7	0.0	0.0	0.0	-	97	84	1022	1018
2	18.5	15.3	11.0	2.3	14.8	8.8	9.8	3.2	0.0	0.0	0.0	-	95	48	1021	1016
3	11.0	13.5	5.4	1.3	8.2	7.4	3.2	9.8	0.0	16.1	15.2	-	96	79	1020	1018
4	5.5	13.1	3.0	0.9	4.3	7.0	0.0	13.7	0.0	3.7	3.6	-	97	88	1020	1017
5	10.3	12.8	2.4	0.4	6.4	6.6	1.4	11.6	0.0	0.0	0.0	-	95	50	1019	1015
6	13.2	13.3	-1.7	0.2	5.8	6.8	0.8	12.2	0.0	0.0	0.2	-	97	36	1022	1015
7	14.9	14.5	6.3	1.2	10.6	7.9	5.6	7.4	0.0	0.0	0.0	-	83	55	1015	1010
8	16.4	13.8	1.2	1.2	8.8	7.6	3.8	9.2	0.0	0.0	0.0	-	94	39	1021	1015
9	24.2	14.7	7.1	1.1	15.7	7.9	10.7	2.3	0.0	0.0	0.0	-	74	33	1019	1001
10	26.5	14.3	12.0	0.7	19.3	7.5	14.3	0.0	1.3	0.0	0.0	-	68	29	1000	993
11	17.5	11.2	5.9	0.5	11.7	5.9	6.7	6.3	0.0	1.3	0.0	-	86	50	1009	986
12	12.8	12.2	0.4	-0.7	6.6	5.8	1.6	11.4	0.0	0.0	0.0	-	91	52	1013	1007
13	16.8	11.5	4.1	-0.9	10.5	5.3	5.5	7.5	0.0	0.0	0.0	-	87	29	1013	1009
14	13.8	10.2	3.1	-0.1	8.5	5.1	3.5	9.5	0.0	0.0	0.0	-	71	29	1020	1013
15	12.1	9.8	0.3	-0.8	6.2	4.5	1.2	11.8	0.0	0.0	0.0	-	83	37	1029	1020
16	13.8	8.7	1.5	-1.0	7.7	3.9	2.7	10.3	0.0	0.0	0.0	-	82	30	1028	1025
17	17.1	8.9	1.1	-1.6	9.1	3.7	4.1	8.9	0.0	0.0	0.0	-	80	30	1027	1010
18	18.2	9.3	4.3	-1.6	11.3	3.9	6.3	6.7	0.0	0.0	0.0	-	74	38	1010	1004
19	10.2	9.2	0.8	-1.8	5.5	3.7	0.5	12.5	0.0	0.0	0.0	-	90	68	1012	1010
20	10.9	8.1	4.0	-1.8	7.5	3.1	2.5	10.5	0.0	1.2	light rain	-	92	56	1018	1009
21	14.7	10.0	0.9	-1.4	7.8	4.3	2.8	10.2	0.0	0.0	0.0	-	85	39	1018	1013
22	14.0	9.2	4.2	-2.5	9.1	3.4	4.1	8.9	0.0	0.0	0.0	-	91	53	1014	1010
23	13.0	9.5	1.9	-2.8	7.5	3.4	2.5	10.5	0.0	0.0	0.0	-	86	35	1016	1014
24	10.9	10.0	-2.1	-2.5	4.4	3.7	0.0	13.6	0.0	0.0	0.0	-	89	55	1021	1014
25	10.9	9.3	-2.2	-2.6	4.4	3.4	0.0	13.6	0.0	0.0	fog am	-	97	47	1023	1021
26	12.2	8.6	-4.3	-2.5	4.0	3.1	0.0	14.0	0.0	0.1	0.0	-	97	46	1023	1014
27	5.3	6.8	0.6	-3.0	3.0	1.9	0.0	15.0	0.0	3.4	Snow/ rain	-	94	72	1013	1008
28	2.1	5.8	-0.2	-3.6	1.0	1.1	0.0	17.0	0.0	0.0	0.0	-	84	67	1014	1011
29	6.0	4.4	-0.7	-5.2	2.7	-0.4	0.0	15.3	0.0	0.0	0.0	-	89	58	1013	1001
30	12.1	4.9	-0.9	-5.9	5.6	-0.5	0.6	12.4	0.0	2.5	rain	-	95	49	1002	991
31	10.2	4.0	2.9	-5.6	6.6	-0.8	1.6	11.4	0.0	4.5	rain	-	95	62	1000	991
Total							100.1	315.4	1.3	32.8			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	13.2	10.4	2.5	-1.2	7.9	4.6	1981-2010 Normal			19.2	Normal					
Extreme Date	26.5		-4.3				62.2	415.1	0.1	321.1	Cumulative		97	29	1029	986
	10		26							329.2	Cumulative No		1	10	15	11

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

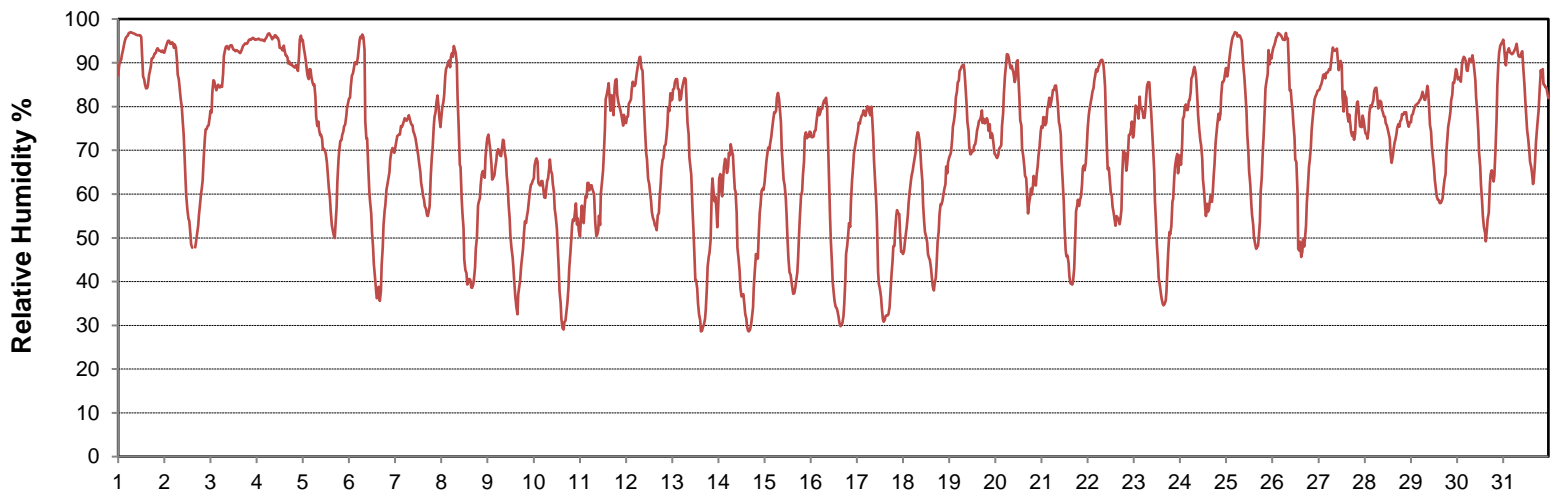
SRC proudly recognizes the following CRS supporters:



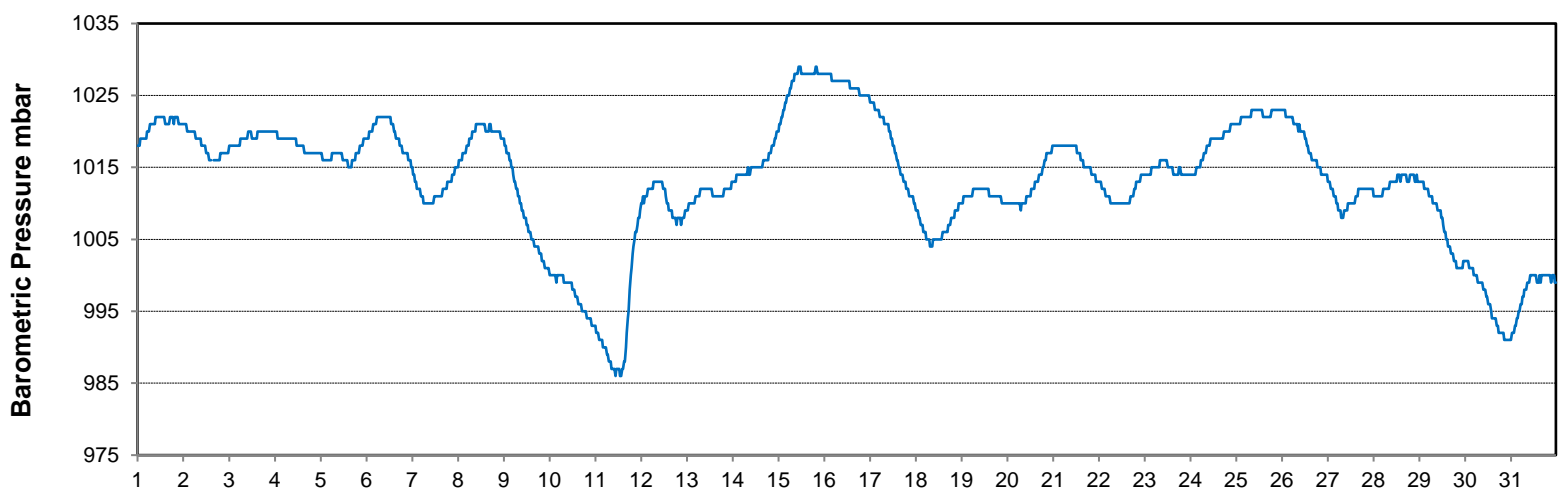
Temperature and Precipitation for October 2015



Relative Humidity for October 2015



Barometric Pressure Corrected to Sea Level for October 2015





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Preliminary **OCTOBER 2015**

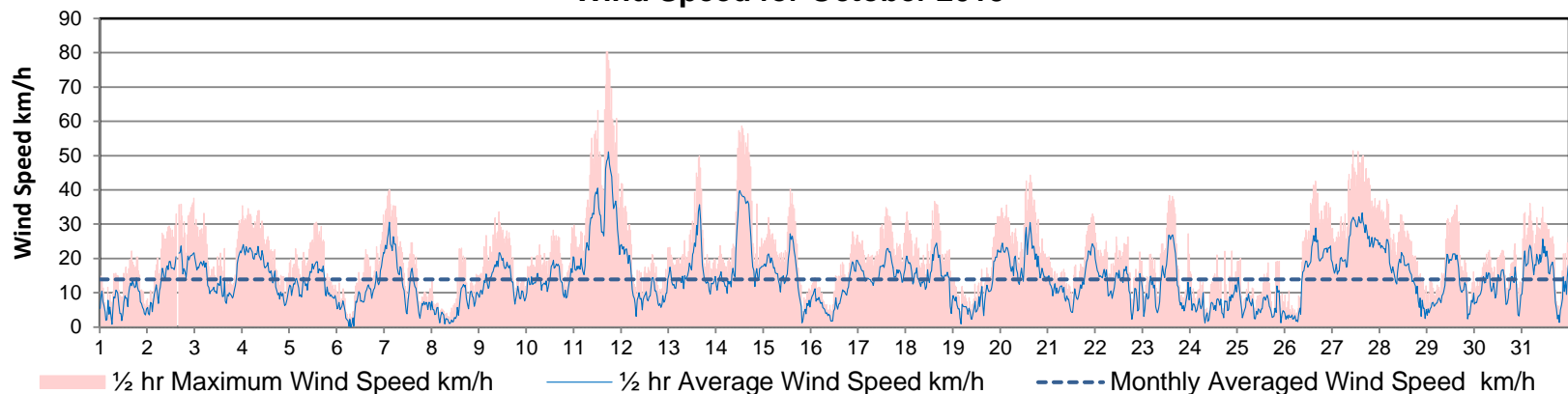
Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm 0900hrs %	Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C		hours	hours		MJ/m ²	MJ/m ²
1	22.2	SE	16:15	8.5	10.0	11.0	11.5	12.0	12.0	12.0	11.0	23	0.0	11.6	0.0	3.7	3.0
2	37.6	ESE	23:44	9.0	11.0	11.5	12.0	12.0	12.0	12.0	11.0	23	1.9	11.6	16.5	9.3	4.1
3	33.2	SE	4:46	7.5	11.5	12.0	12.0	12.0	11.5	12.0	11.0	23	0.0	11.5	0.0	1.8	1.5
4	35.4	NNE	0:26	3.5	9.0	10.0	11.0	12.0	11.5	11.5	11.0	26	0.0	11.4	0.0	2.6	2.2
5	30.6	W	13:46	2.5	7.5	8.5	9.5	11.5	11.5	11.5	11.0	26	5.4	11.4	47.6	10.0	3.4
6	32.7	SE	23:36	1.5	5.0	6.5	8.5	11.0	11.5	11.5	11.0	25	9.6	11.3	85.0	12.8	1.2
7	40.0	SE	2:55	7.0	7.5	8.0	9.0	10.5	11.5	11.5	11.0	25	6.4	11.2	57.0	8.9	2.6
8	23.1	WSW	15:23	3.5	6.0	7.0	8.5	10.5	11.0	11.5	11.0	25	10.6	11.2	95.1	12.1	1.1
9	33.6	SW	10:24	11.5	8.0	8.5	9.0	10.0	11.0	11.5	11.0	25	8.7	11.1	78.4	11.1	2.3
10	29.0	SW	23:28	12.5	10.0	10.0	10.5	10.5	11.0	11.5	11.0	25	6.9	11.0	62.6	9.4	3.1
11	80.3	N	16:49	15.5	10.5	11.0	11.0	11.0	11.0	11.0	11.0	25	2.9	11.0	26.5	4.6	2.2
12	41.9	NW	15:40	2.5	7.5	8.5	10.0	11.0	11.0	11.0	11.0	25	9.5	10.9	87.2	11.1	1.2
13	49.9	WNW	0:09	6.0	7.5	8.5	9.5	10.5	11.0	11.0	11.0	25	10.6	10.8	98.0	10.2	2.0
14	58.6	WNW	13:28	5.0	6.0	7.5	8.5	10.5	11.0	11.0	11.0	24	10.4	10.8	96.7	11.1	1.3
15	40.3	WNW	13:33	1.5	5.0	6.5	7.5	10.0	10.5	11.0	11.0	24	10.4	10.7	97.3	10.8	1.7
16	27.8	SE	21:26	3.0	5.0	6.0	7.0	9.5	10.5	11.0	11.0	23	9.4	10.6	88.4	10.4	1.1
17	34.9	SSE	14:04	3.0	5.0	6.0	7.0	9.0	10.5	11.0	11.0	23	10.2	10.6	96.6	10.4	1.0
18	36.7	NW	14:58	5.0	6.0	6.5	7.5	9.0	10.5	11.0	11.0	23	10.0	10.5	95.2	9.3	2.5
19	32.3	SE	22:34	2.5	5.0	6.0	7.5	9.0	10.0	10.5	11.0	23	1.6	10.4	15.3	2.8	2.2
20	44.3	WNW	15:03	8.0	7.5	8.0	8.0	9.0	10.0	10.5	10.5	23	0.9	10.4	8.7	2.4	1.9
21	33.0	SE	22:48	1.5	5.0	6.0	7.0	9.0	10.0	10.5	10.5	23	9.4	10.3	91.3	8.8	1.7
22	27.3	SE	0:04	5.5	5.5	6.5	7.0	8.5	10.0	10.5	10.5	23	9.0	10.2	87.9	8.0	2.3
23	38.4	WNW	13:52	2.5	5.0	6.0	7.0	8.5	10.0	10.5	10.5	23	9.5	10.2	93.4	9.2	1.0
24	22.2	ENE	21:10	-1.0	3.5	4.5	6.0	8.5	9.5	10.5	10.5	22	6.4	10.1	63.3	7.3	1.4
25	20.0	NNW	1:49	-2.0	2.5	4.0	5.5	8.0	9.5	10.0	10.5	22	9.6	10.1	95.5	9.0	1.1
26	42.5	SSE	15:44	-0.5	1.5	3.0	5.0	7.5	9.5	10.0	10.5	22	8.3	10.0	83.2	7.4	2.4
27	51.4	NW	10:32	2.5	4.5	4.5	5.0	7.0	9.5	10.0	10.5	22	0.0	9.9	0.0	1.8	1.5
28	37.3	NW	3:53	0.5	2.5	3.5	4.5	7.0	9.0	10.0	10.5	22	0.0	9.9	0.0	2.2	1.9
29	35.5	SE	15:11	-1.0	2.5	3.5	4.0	6.5	9.0	10.0	10.5	22	7.2	9.8	73.5	6.6	3.3
30	24.3	SW	20:54	0.0	2.5	3.0	4.5	6.5	9.0	9.5	10.5	22	7.5	9.7	77.1	7.4	1.3
31	36.0	NW	4:20	4.0	5.0	5.0	5.0	6.5	8.5	9.5	10.5	24	5.9	9.7	61.0	6.6	1.2
Total													198.2	329.62	60.1	239.1	60.7
Mean				4.2	6.1	7.0	7.9	9.5	10.5	10.9	10.8	24	1981-2010 Normal for Radiation				
Extreme	80.3	N	16:49	1971- 2000 Normal for Soil Temperatures									156.1	329.2	47.4	239.0	97.2
Date	11			4.3	4.7	6.2	8.3	9.2	9.6	9.4		No. of Bright Sunshine days = 26					

Note: Red numbers indicate manual calculation

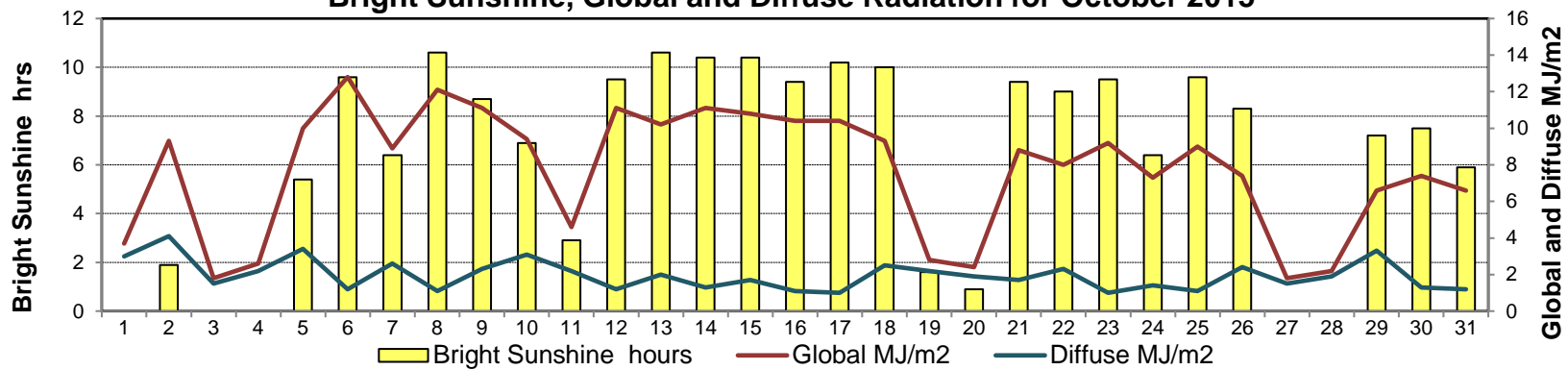
SRC proudly recognizes the following CRS supporters:



Wind Speed for October 2015

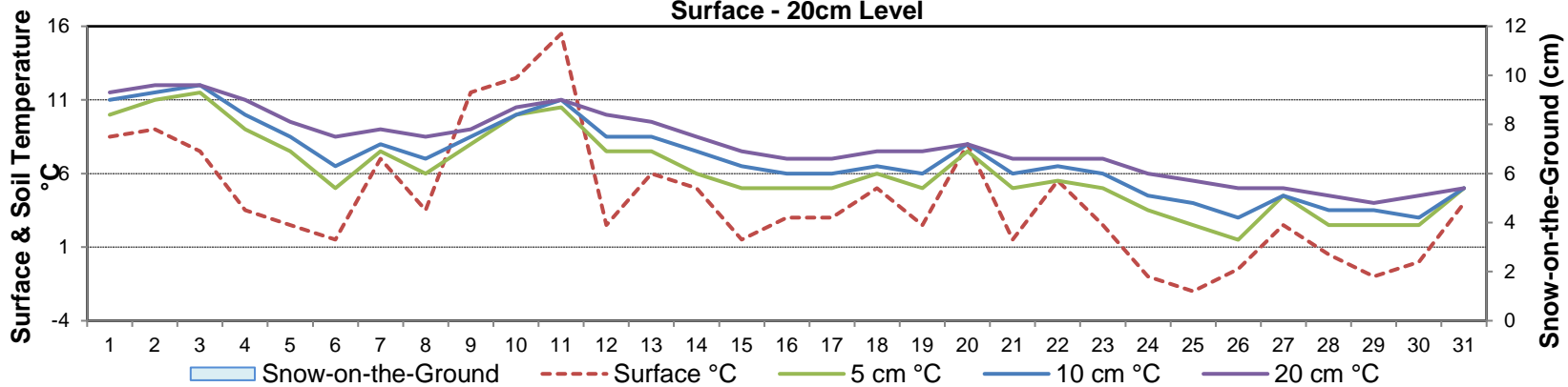


Bright Sunshine, Global and Diffuse Radiation for October 2015



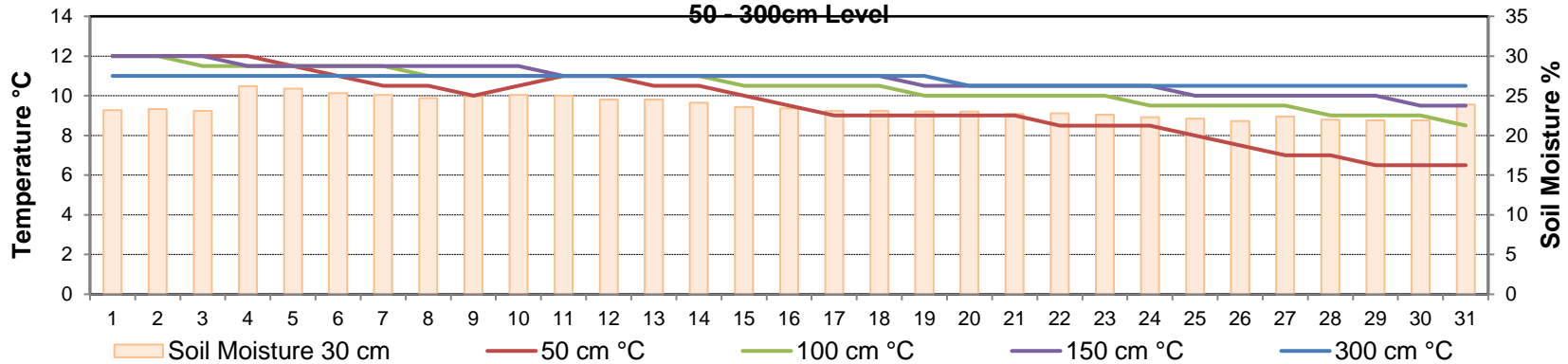
Soil Temperatures for October 2015

Surface - 20cm Level



Soil Temperatures for October 2015

50 - 300cm Level





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Extreme Records for October

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
32.2	05/1943	SA US SF	28.5	06.08/1980, 84	72.4	1969	SF	69.8	1969	138 ^{NW}	16/1967	97	1976	231.3	2010	31	1963, 88
-25.6	26/1919	SE US	-21.5	29/1991	0.0	1965*	NRC*	0.0	2000					69.9	2009	20	1969

**1975 forward * more than one year/site

Notable Events for CRS Saskatoon - October							Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year						
Temperature	Highest Maximum Daily	10	26.5	24.3	2010	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
	Highest Minimum Daily	2	11.0	9.1	1997	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
		10	12.0	10.5	1991	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm	
		31	2.9	1.7	1967	S	Saskatoon	1941-1942	na	not available	
	Highest Mean Daily	10	19.3	17.0	1991	SA	Saskatoon A	1942 -	Degree-days		
	Highest Average Minimum Monthly			2.5	2.0	2011	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
		Highest Average Mean Monthly		7.9	7.6	2010	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
		Highest Number of Frost Free Days		24	22	2011	SC	S'toon Central Ave	1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0
	Lowest number of days ≤ 2°			16	17	2003	S1	Saskatoon 1	1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0
			3	4	2014	S2	Saskatoon 2	1977-1990			
Lowest number of days ≤ -2°				315.4	322.8	2010	K	S'toon Kernen Farm	1993-2004		
		Lowest Total Heating Degree Days					KCS	S'toon Kernen Farm CS	1996-		
Precipitation	Greatest Daily	31	4.5	3.8	1973	RCS	Environment Canada	2008-			
						SF	Sutherland Forestry	1943-1970			

Fog Morning of Oct 1st

Geonor all precipitation unit became Active at 2 Oct 2015 16:30

Bright Sunshine instrument was replaced with re-calibrated instrument (2 Oct 2015)

Fall scheduled maintenance occurred on Oct 1 and 2 (desiccant replacement, manual snow stake installation)

Tipping bucket capped 8 Oct 2015

SRC proudly recognizes the following CRS supporters:

