



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## SASKATOON STATION 4057180

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

Preliminary **OCTOBER 2014**

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	16.4	14.1	6.9	2.3	11.7	8.1	6.7	6.3	0.0	3.9		-	93	39	1006	1001
2	8.9	15.3	1.6	2.3	5.3	8.8	0.3	12.7	0.0	3.2		-	89	51	1022	1006
3	7.2	13.5	-3.0	1.3	2.1	7.4	0.0	15.9	0.0	0.0		-	82	34	1024	1018
4	10.6	13.1	0.2	0.9	5.4	7.0	0.4	12.6	0.0	1.3		-	97	71	1018	1007
5	11.9	12.8	-0.4	0.4	5.8	6.6	0.8	12.2	0.0	0.0		-	98	60	1011	1004
6	11.4	13.3	3.9	0.2	7.7	6.8	2.7	10.3	0.0	1.0		-	91	69	1004	1000
7	14.6	14.5	1.1	1.2	7.9	7.9	2.9	10.1	0.0	0.0		-	88	25	1014	1004
8	10.7	13.8	-2.1	1.2	4.3	7.6	0.0	13.7	0.0	0.0		-	90	39	1021	1015
9	15.5	14.7	0.4	1.1	8.0	7.9	3.0	10.0	0.0	0.0		-	86	32	1023	1020
10	22.0	14.3	5.2	0.7	13.6	7.5	8.6	4.4	0.0	0.0		-	76	23	1020	1007
11	19.2	11.2	7.2	0.5	13.2	5.9	8.2	4.8	0.0	0.0		-	73	36	1007	998
12	16.9	12.2	3.7	-0.7	10.3	5.8	5.3	7.7	0.0	0.0		-	76	35	1010	1001
13	18.2	11.5	1.1	-0.9	9.7	5.3	4.7	8.3	0.0	0.0		-	88	25	1012	1008
14	21.7	10.2	5.6	-0.1	13.7	5.1	8.7	4.3	0.0	0.0		-	71	25	1008	999
15	15.0	9.8	2.9	-0.8	9.0	4.5	4.0	9.0	0.0	0.0		-	89	49	1007	1002
16	10.9	8.7	0.8	-1.0	5.9	3.9	0.9	12.1	0.0	0.0		-	92	64	1020	1004
17	9.7	8.9	-0.7	-1.6	4.5	3.7	0.0	13.5	0.0	0.0		-	96	57	1022	1013
18	20.4	9.3	5.0	-1.6	12.7	3.9	7.7	5.3	0.0	0.1		-	79	31	1012	1003
19	20.8	9.2	2.4	-1.8	11.6	3.7	6.6	6.4	0.0	0.0		-	88	30	1013	1008
20	24.4	8.1	5.7	-1.8	15.1	3.1	10.1	2.9	0.0	0.1		-	84	26	1010	1003
21	22.5	10.0	5.8	-1.4	14.2	4.3	9.2	3.8	0.0	0.0		-	85	29	1003	999
22	14.3	9.2	3.1	-2.5	8.7	3.4	3.7	9.3	0.0	1.4		-	95	61	1007	1002
23	15.6	9.5	1.2	-2.8	8.4	3.4	3.4	9.6	0.0	0.0		-	95	52	1006	1000
24	11.9	10.0	3.7	-2.5	7.8	3.7	2.8	10.2	0.0	0.3		-	78	35	1014	1000
25	10.2	9.3	-1.7	-2.6	4.3	3.4	0.0	13.7	0.0	0.0		-	80	41	1017	1005
26	12.0	8.6	3.3	-2.5	7.7	3.1	2.7	10.3	0.0	0.0		-	84	52	1005	996
27	3.5	6.8	0.6	-3.0	2.1	1.9	0.0	15.9	0.0	7.6		-	98	87	1015	999
28	2.7	5.8	-0.3	-3.6	1.2	1.1	0.0	16.8	0.0	0.5		-	98	78	1018	1013
29	3.5	4.4	-1.8	-5.2	0.9	-0.4	0.0	17.1	0.0	0.0		-	96	81	1022	1009
30	0.9	4.9	-2.6	-5.9	-0.9	-0.5	0.0	18.9	0.0	0.0		-	95	74	1030	1022
31	8.2	4.0	-2.1	-5.6	3.1	-0.8	0.0	14.9	0.0	0.3		-	89	61	1024	1004
Total							103.4	323.0	0.0	19.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	13.3	10.4	1.8	-1.2	7.6	4.6	1981-2010 Normal			19.2	Normal					
Extreme Date	24.4		-3.0				62.2	415.1	0.1	415.7	Cumulative		98	23	1030	996
Date	20		3							329.2	Cumulative No		5	10	30	26

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

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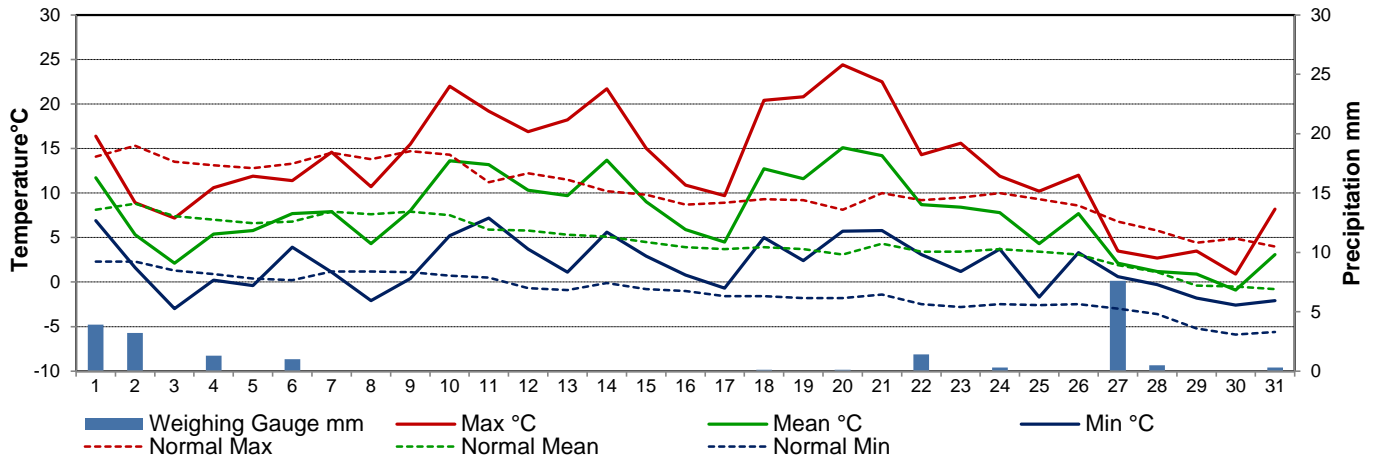


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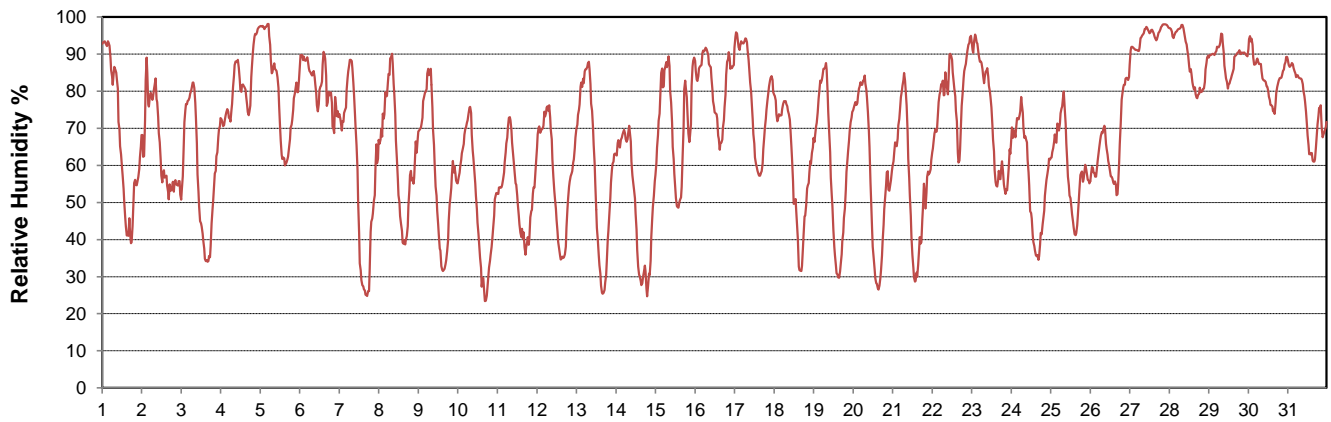
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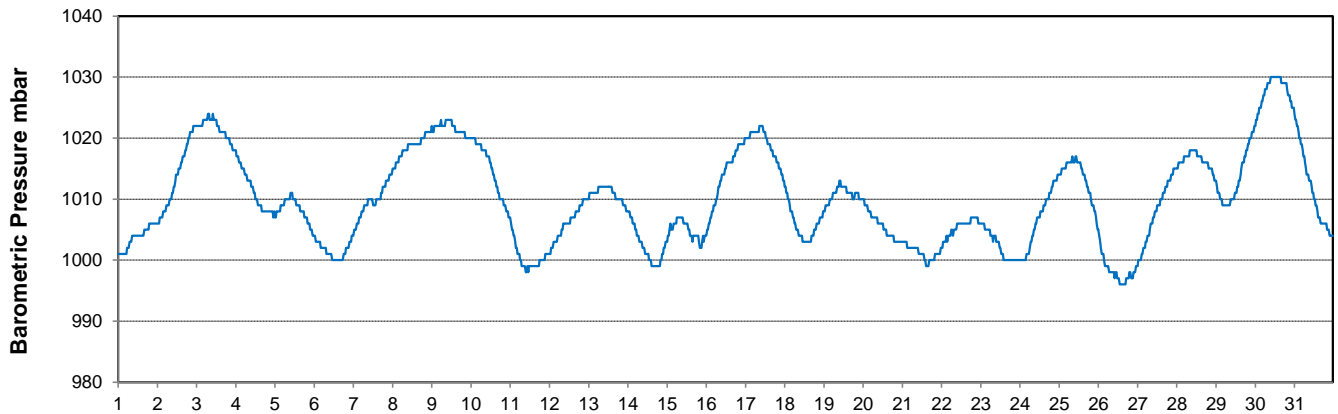
### Temperature and Precipitation for October 2014



### Relative Humidity for October 2014



### Barometric Pressure Corrected to Sea Level for October 2014





# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

**SASKATOON STATION 4057180**

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

Preliminary **OCTOBER 2014**

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	48.3	WNW	14:28	9.0	11.5	12.0	12.5	12.5	12.5	12.0	11.0	16.3	7.4	11.6	63.8	10.0	3.1
2	59.3	NNW	11:31	3.0	8.5	10.0	11.0	12.5	12.0	12.0	11.0	16.6	0.6	11.5	5.2	4.3	3.5
3	47.0	NW	11:38	-2.0	4.0	6.0	8.5	11.5	12.0	12.0	11.0	15.8	10.5	11.5	91.7	12.5	1.5
4	27.7	SE	0:34	1.5	5.0	6.0	7.5	10.5	12.0	12.0	11.0	15.7	2.4	11.4	21.1	5.3	3.9
5	42.8	WNW	14:09	3.0	5.0	6.0	7.5	10.0	11.5	12.0	11.0	15.7	6.1	11.3	53.9	8.9	2.5
6	54.8	NW	21:30	5.0	6.5	7.0	8.0	10.0	11.5	11.5	11.0	15.7	1.2	11.3	10.7	3.6	2.9
7	53.9	NW	15:36	4.5	7.0	8.0	8.5	10.0	11.0	11.5	11.0	15.7	7.8	11.2	69.7	10.0	2.6
8	20.1	NE	17:05	0.0	4.0	5.5	7.5	10.0	11.0	11.5	11.0	15.4	10.1	11.1	90.8	11.4	1.7
9	24.9	S	14:54	3.0	5.0	6.0	7.5	9.5	11.0	11.5	11.0	15.4	9.7	11.1	87.8	9.9	3.4
10	39.4	SW	17:17	6.0	6.5	7.5	8.0	9.5	10.5	11.0	11.0	15.5	10.2	11.0	92.8	10.7	1.4
11	44.0	NW	15:52	9.0	8.0	8.5	9.0	9.5	10.5	11.0	11.0	15.6	8.6	10.9	78.8	9.5	2.3
12	45.9	WNW	15:58	5.0	7.0	8.0	9.0	10.0	10.5	11.0	11.0	15.5	10.5	10.9	96.7	10.7	1.1
13	22.7	SSE	14:24	2.5	5.5	7.0	8.5	10.0	10.5	11.0	11.0	15.3	10.3	10.8	95.5	9.6	1.8
14	32.9	SSW	14:29	7.0	6.5	7.5	8.0	9.5	10.5	11.0	10.5	15.3	4.9	10.7	45.7	6.8	4.7
15	62.1	ESE	20:11	3.0	6.5	8.0	9.0	10.0	10.5	10.5	10.5	15.3	5.5	10.7	51.6	6.3	3.3
16	33.4	NNE	1:46	6.5	8.0	8.5	9.0	10.0	10.5	10.5	10.5	15.4	5.6	10.6	52.9	6.8	3.5
17	36.3	SE	16:10	0.5	4.5	6.0	7.5	10.0	10.5	10.5	10.5	15.1	9.5	10.5	90.2	9.5	1.4
18	42.3	S	4:38	7.0	5.5	6.5	7.0	9.0	10.0	10.5	10.5	15.1	5.7	10.5	54.5	6.6	2.7
19	18.3	SSE	15:33	3.5	5.0	6.0	7.5	9.0	10.0	10.5	10.5	15.1	8.8	10.4	84.6	8.8	0.9
20	27.9	S	13:27	6.5	6.0	7.0	7.5	9.0	10.0	10.5	10.5	15.2	10.0	10.3	96.8	9.0	1.1
21	27.0	NW	21:44	7.5	7.0	8.0	8.5	9.0	10.0	10.5	10.5	15.3	6.6	10.3	64.3	6.8	2.3
22	30.1	NW	4:13	8.5	9.0	9.5	9.0	9.5	10.0	10.5	10.5	15.4	2.7	10.2	26.4	3.6	2.3
23	36.6	SSW	15:14	4.0	5.5	6.5	8.0	9.5	10.0	10.5	10.5	15.3	2.3	10.1	22.7	3.8	2.4
24	55.9	WNW	13:09	6.0	7.0	7.5	8.0	9.5	10.0	10.0	10.5	15.2	8.1	10.1	80.4	8.5	1.7
25	40.3	ESE	23:34	-0.5	4.0	5.5	7.0	9.0	10.0	10.0	10.5	14.9	7.8	10.0	77.9	6.4	2.8
26	51.5	SE	3:58	4.0	4.5	5.5	6.5	8.5	9.5	10.0	10.5	14.8	6.9	10.0	69.3	5.7	3.3
27	32.9	NE	7:14	2.0	5.5	6.0	7.0	8.5	9.5	10.0	10.5	16.3	0.0	9.9	0.0	0.9	0.8
28	27.2	SE	23:58	0.5	4.0	5.0	6.0	8.0	9.5	10.0	10.0	16.5	0.0	9.8	0.0	1.8	1.6
29	35.9	ESE	1:47	-1.0	2.5	3.5	5.0	8.0	9.5	10.0	10.0	16.2	3.3	9.8	33.8	3.8	2.5
30	37.3	SSE	21:54	-2.0	3.0	4.0	5.0	7.5	9.0	10.0	10.0	16	0.2	9.7	2.1	3.1	2.7
31	45.9	SE	10:38	-0.5	2.0	3.0	4.0	7.0	9.0	10.0	10.0	15.9	6.3	9.6	65.4	5.3	2.7
Total													189.6	328.62	57.7	219.9	74.4
Mean				3.6	5.8	6.8	7.8	9.5	10.5	10.8	10.6	15.6	1981-2010 Normal for Radiation				
Extreme	62.1	ESE	20:11	1971- 2000 Normal for Soil Temperatures									156.1	329.2	47.4	239.0	97.2
Date	15			4.3	4.7	6.2	8.3	9.2	9.6	9.4		No. of Bright Sunshine days = 29					

Note: Red numbers indicate manual calculation

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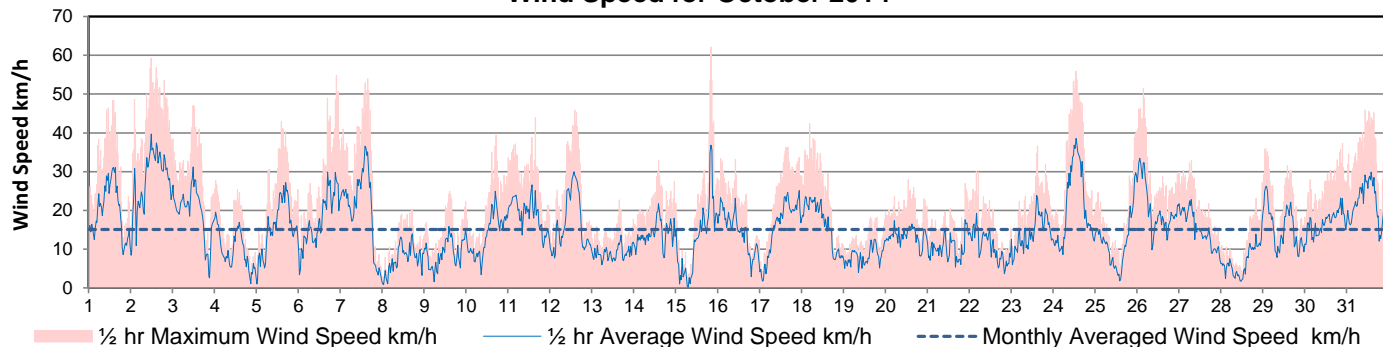


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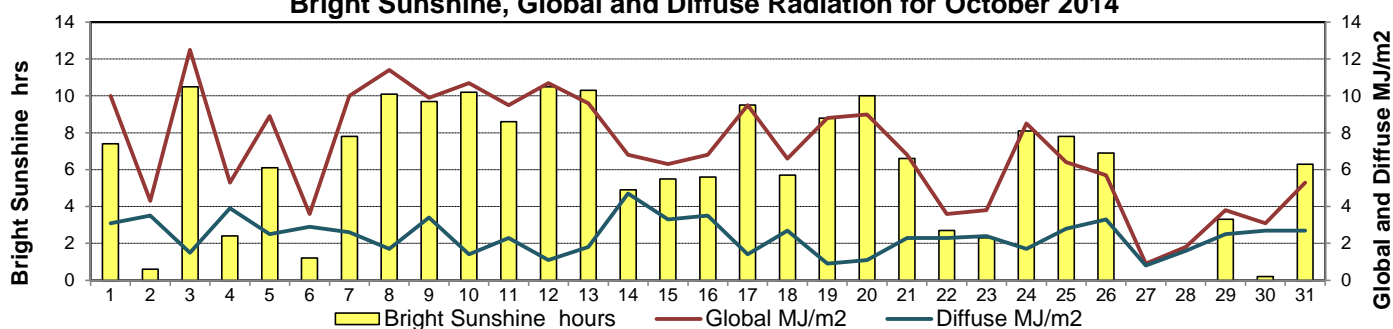
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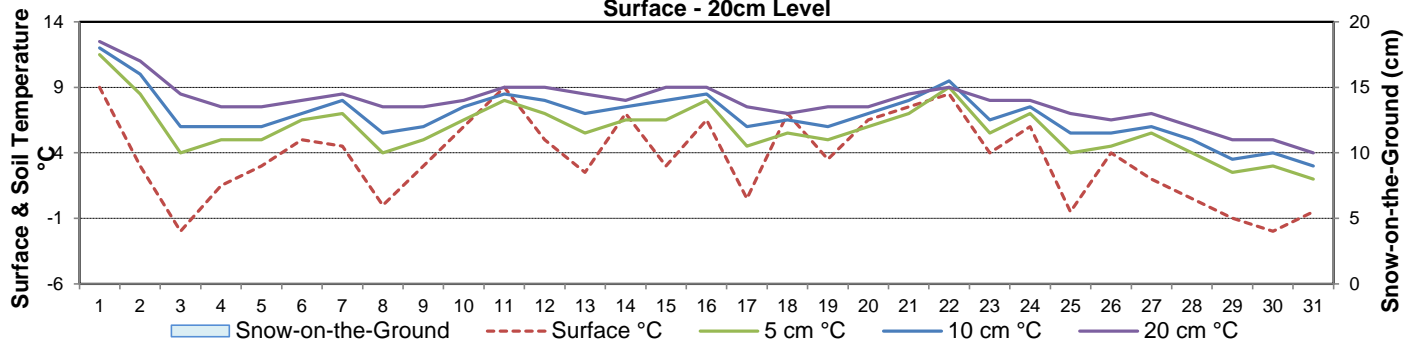
### Wind Speed for October 2014



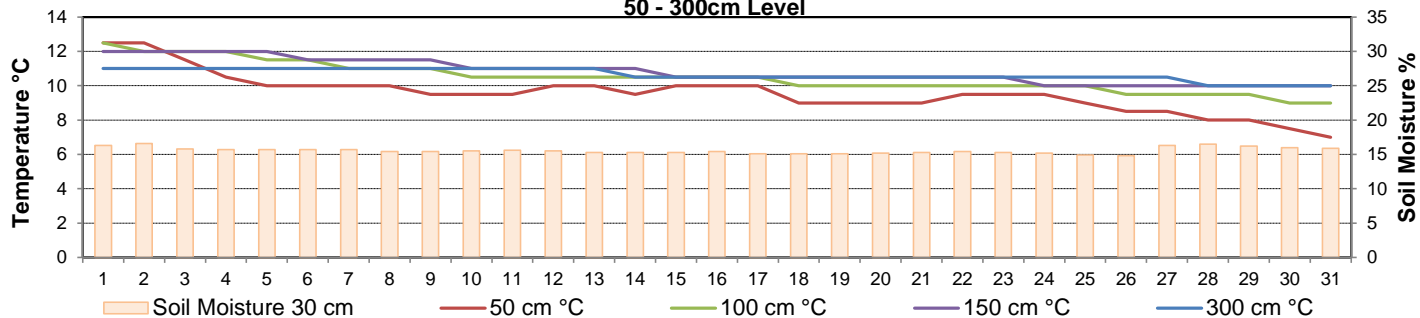
### Bright Sunshine, Global and Diffuse Radiation for October 2014



### Soil Temperatures for October 2014 Surface - 20cm Level



### Soil Temperatures for October 2014 50 - 300cm Level





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

Preliminary **OCTOBER 2014**

### 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 <sup>NW</sup>	16/1967	97	1976	231.3	2010	31	1965, 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	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Highest Maximum Daily	20	24.4	21.7	1974	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Highest Minimum Daily	18	5.0	4.4	1974	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Highest Extreme Monthly Minimum	3	-3.0	-4.9	2011	S	Saskatoon	1941-1942	na	not available
	Highest Mean Daily	20	15.1	14.5	1974	SA	Saskatoon A	1942 -	<b>Degree-days</b>	
	Highest Mean Daily	21	14.2	13.4	2003	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
	Average Mean Monthly		7.6	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
Precipitation	Daily maximum	27	7.6	1.3	2005	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	Thermometer in Stevensen Screen measured coldest temperature between Oct 1 to 8 (-2.9 C)	
						K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
RCS	Environment Canada	2008-	Site winterized October 8th							
SF	Sutherland Forestry	1943-1970								

**Summary**

2014 had 1578.6 Growing Degree-days during the Frost Free Season (May 15 to Oct 2)

### SRC proudly recognizes the following CRS supporters:



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