



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

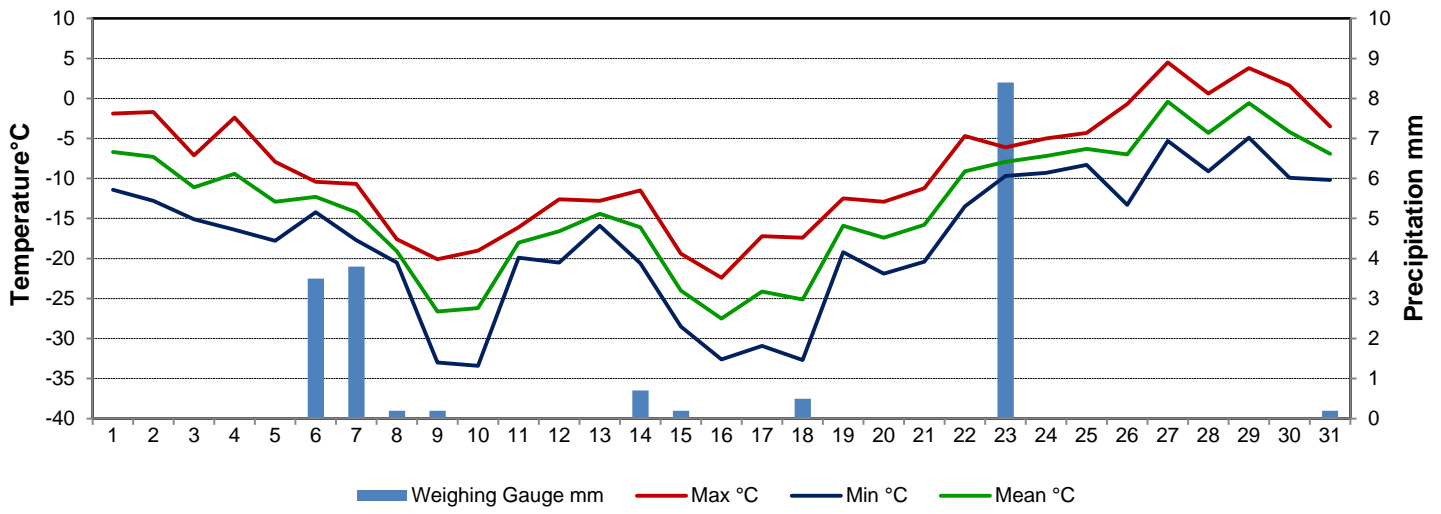
Preliminary **January 2016**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	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	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-1.9	-11.4	-6.7	0.0	24.7	0.0	0.0		10	86	52	1016	1012
2	-1.7	-12.8	-7.3	0.0	25.3	0.0	0.0		11	90	65	1021	1015
3	-7.1	-15.1	-11.1	0.0	29.1	0.0	0.0		11	88	62	1021	1015
4	-2.4	-16.4	-9.4	0.0	27.4	0.0	0.0		10	87	60	1015	1006
5	-7.9	-17.8	-12.9	0.0	30.9	0.0	0.0		9	88	73	1015	1011
6	-10.4	-14.2	-12.3	0.0	30.3	0.0	3.5		10	88	84	1016	1014
7	-10.7	-17.7	-14.2	0.0	32.2	0.0	3.8		20	88	79	1021	1013
8	-17.6	-20.5	-19.1	0.0	37.1	0.0	0.2		20	84	73	1024	1021
9	-20.1	-33.0	-26.6	0.0	44.6	0.0	0.2		19	82	72	1024	1017
10	-19.0	-33.4	-26.2	0.0	44.2	0.0	T		19	83	71	1017	1010
11	-16.1	-19.9	-18.0	0.0	36.0	0.0	0.0		19	84	67	1017	1010
12	-12.6	-20.5	-16.6	0.0	34.6	0.0	T		18	85	76	1017	1005
13	-12.8	-15.9	-14.4	0.0	32.4	0.0	0.0		18	87	84	1005	1001
14	-11.5	-20.6	-16.1	0.0	34.1	0.0	0.7		18	85	67	1011	1001
15	-19.4	-28.5	-24.0	0.0	42.0	0.0	0.2		19	79	67	1021	1011
16	-22.4	-32.6	-27.5	0.0	45.5	0.0	0.0		19	75	64	1023	1020
17	-17.2	-30.9	-24.1	0.0	42.1	0.0	T		19	75	52	1023	1020
18	-17.4	-32.7	-25.1	0.0	43.1	0.0	0.5		19	83	71	1020	1014
19	-12.5	-19.2	-15.9	0.0	33.9	0.0	T		19	86	74	1015	1012
20	-12.9	-21.9	-17.4	0.0	35.4	0.0	0.0		18	86	71	1024	1013
21	-11.2	-20.4	-15.8	0.0	33.8	0.0	T		19	86	69	1025	1017
22	-4.7	-13.5	-9.1	0.0	27.1	0.0	0.0		19	84	63	1016	1002
23	-6.1	-9.7	-7.9	0.0	25.9	0.0	8.4		28	91	80	1010	1000
24	-5.0	-9.3	-7.2	0.0	25.2	0.0	0.0		27	92	83	1011	1009
25	-4.3	-8.3	-6.3	0.0	24.3	0.0	0.0		26	91	77	1016	1011
26	-0.7	-13.3	-7.0	0.0	25.0	0.0	0.0		26	91	72	1016	1000
27	4.5	-5.3	-0.4	0.0	18.4	0.0	0.0		25	84	59	1010	1000
28	0.6	-9.1	-4.3	0.0	22.3	0.0	0.0		23	94	71	1009	989
29	3.8	-4.9	-0.6	0.0	18.6	0.0	0.0		23	94	63	991	989
30	1.6	-9.9	-4.2	0.0	22.2	0.0	T		21	86	55	999	991
31	-3.5	-10.2	-6.9	0.0	24.9	0.0	0.2		20	87	66	1010	999
<b>Total</b>				0.0	972.6	0.0	17.7						
<b>Avg</b>	<b>-9.0</b>	<b>-17.7</b>	<b>-13.4</b>				17.7	<b>Cumulative ppt</b>					
<b>Extreme</b>	4.5	-33.4					8.4		28	94	52	1025	989
<b>Date</b>	27	10					23		23	28	1	21	28

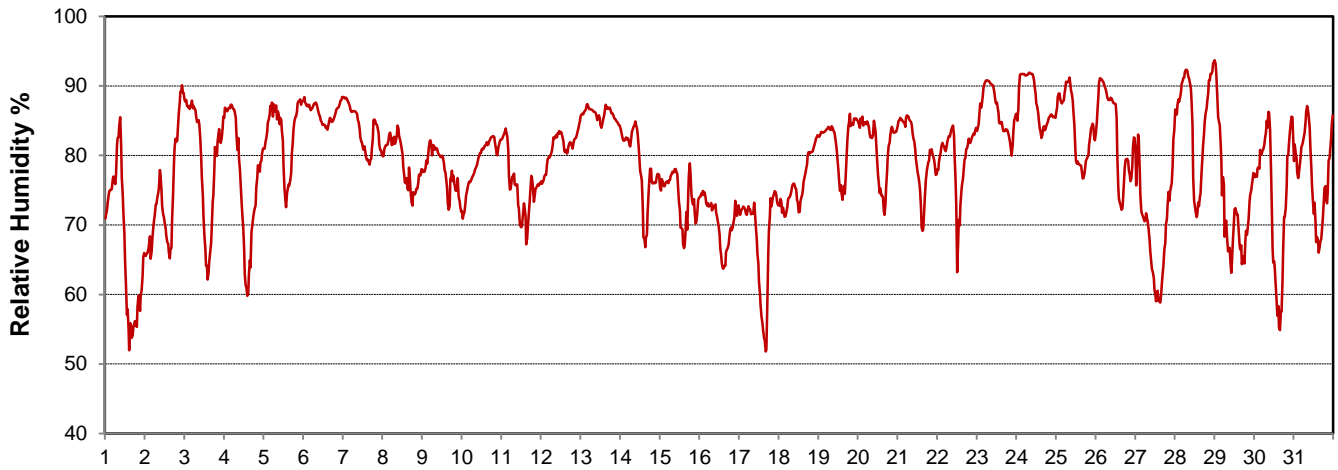
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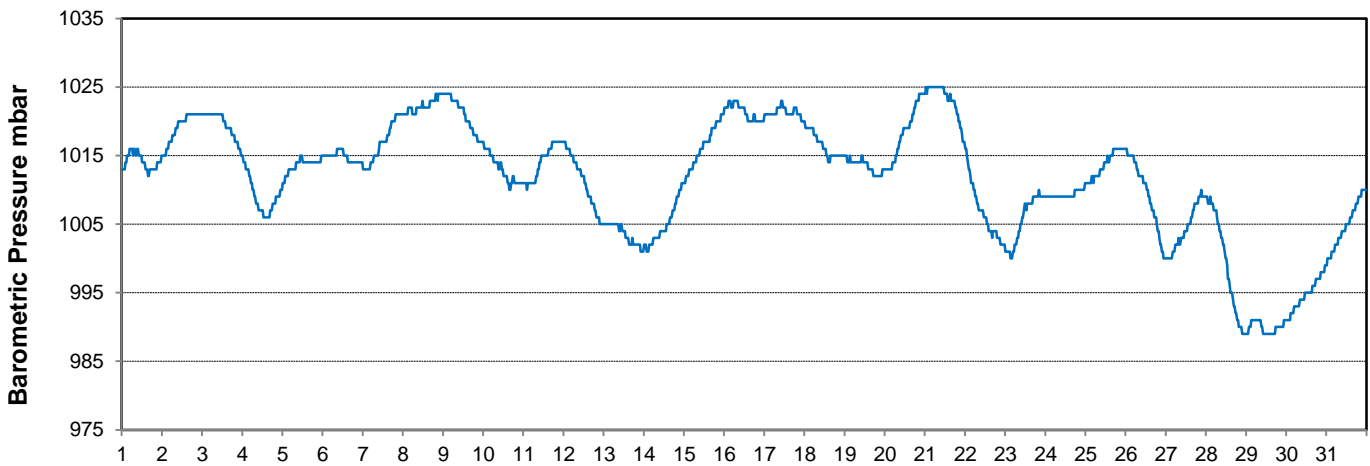
### Temperature and Precipitation for January 2016



### Relative Humidity for January 2016



### Barometric Pressure Corrected to Sea Level for January 2016





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## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

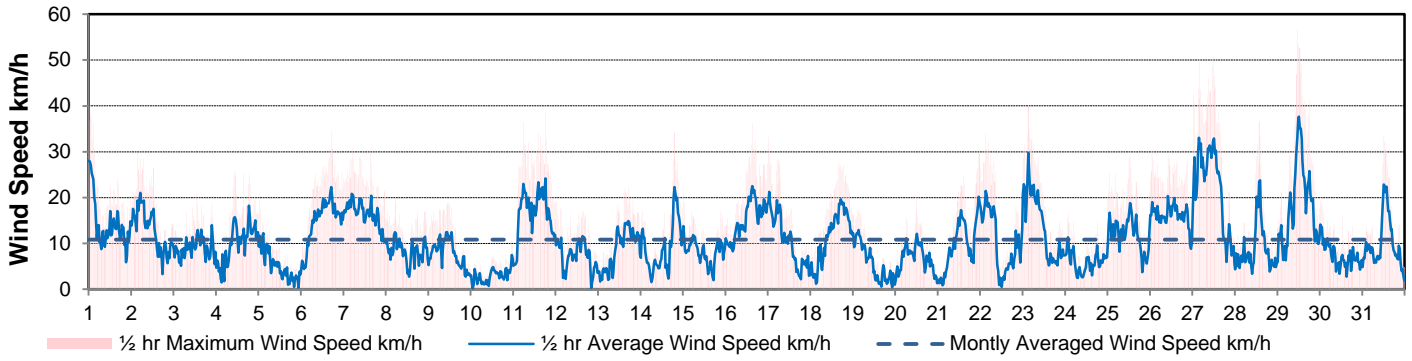
January 2016

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture	Radiation		
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	0900hrs	Bright Sunshine	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	40.1	NW	0:31	-8.0	-0.5	-0.5	0.0	1.5	3.0	4.5	6.5	28	4.3	3.8	0.7
2	29.8	SE	3:50	-6.5	-0.5	-0.5	0.0	1.0	3.0	4.0	6.5	28	4.4	3.7	0.7
3	21.0	SSW	13:20	-11.5	-0.5	-0.5	0.0	1.5	3.0	4.0	6.5	28	7.2	5.2	0.9
4	26.0	SW	10:59	-8.0	-0.5	-0.5	0.0	1.5	3.0	4.0	6.5	27	3.0	3.9	1.3
5	19.3	NNW	0:45	-13.5	-0.5	-0.5	0.0	1.5	3.0	4.0	6.5	27	4.2	3.9	1.7
6	34.4	ENE	17:21	-11.5	-0.5	-0.5	0.0	1.0	3.0	4.0	6.5	27	0.0	2.1	2.0
7	30.9	NE	5:06	-10.5	-0.5	-0.5	0.0	1.0	2.5	4.0	6.5	27	0.0	2.4	2.2
8	20.1	N	5:26	-14.0	-0.5	-0.5	0.0	1.0	2.5	4.0	6.5	26	0.0	2.2	2.1
9	19.0	W	11:06	-14.5	-0.5	-0.5	0.0	1.0	2.5	4.0	6.5	26	0.0	3.6	1.7
10	10.7	W	23:15	-10.0	-0.5	-0.5	0.0	1.0	2.5	4.0	6.5	26	0.0	2.1	1.9
11	38.6	NNW	18:21	-14.5	-0.5	-0.5	0.0	1.0	2.5	4.0	6.0	26	1.9	3.4	2.2
12	19.2	NNW	0:33	-11.0	-1.0	-0.5	0.0	1.0	2.5	4.0	6.0	25	0.0	2.3	2.1
13	22.2	ENE	17:02	-5.5	-0.5	-0.5	0.0	1.0	2.5	4.0	6.0	25	0.0	2.2	2.1
14	34.2	NNE	19:06	-6.5	-0.5	-0.5	0.0	1.0	2.5	3.5	6.0	25	0.0	2.5	2.2
15	20.9	NE	0:23	-11.0	-0.5	-0.5	0.0	1.0	2.5	3.5	6.0	25	0.0	3.3	2.7
16	36.1	WNW	15:06	-24.5	-1.0	-0.5	0.0	1.0	2.5	3.5	6.0	25	7.9	6.3	1.4
17	33.2	NW	0:30	-15.5	-1.0	-0.5	0.0	1.0	2.5	3.5	6.0	24	6.1	4.9	0.9
18	27.8	E	16:17	-11.0	-1.0	-1.0	0.0	1.0	2.5	3.5	6.0	24	0.0	2.8	2.6
19	17.1	ENE	3:05	-6.5	-1.0	-1.0	0.0	1.0	2.5	3.5	6.0	24	0.0	3.1	2.9
20	20.1	NNW	12:22	-7.5	-1.0	-0.5	0.0	1.0	2.5	3.5	6.0	23	3.0	4.6	2.7
21	29.8	S	23:37	-8.0	-1.0	-0.5	0.0	1.0	2.5	3.5	6.0	23	0.1	3.6	2.6
22	34.1	S	3:24	-9.0	-1.0	-0.5	0.0	1.0	2.0	3.5	6.0	23	3.0	3.6	2.6
23	40.1	ENE	3:26	-6.5	-0.5	-0.5	-0.5	0.5	2.0	3.5	5.5	23	0.0	3.6	3.4
24	16.8	S	1:30	-4.0	-0.5	-0.5	-0.5	0.5	2.0	3.5	5.5	23	0.0	2.6	2.4
25	29.4	NNW	12:45	-5.0	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.5	23	0.0	2.0	1.9
26	30.5	SW	1:30	-10.5	-0.5	-0.5	0.0	0.5	2.0	3.0	5.5	23	5.0	4.9	2.7
27	50.8	WNW	11:56	0.0	-0.5	-1.0	-0.5	0.0	1.5	3.0	5.0	23	7.2	5.1	2.2
28	36.5	SSW	13:47	-5.0	-0.5	-0.5	0.0	0.5	2.0	3.0	5.5	23	3.7	5.1	2.3
29	56.7	WNW	11:22	-2.0	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.5	23	7.4	4.7	3.0
30	19.5	W	0:17	-9.0	0.0	-0.5	0.0	0.5	2.0	3.0	5.5	24	6.3	6.5	1.0
31	33.6	NW	12:21	-4.5	0.0	0.0	0.0	1.0	2.0	3.0	5.5	23	0.3	10.6	4.6
Total													75.0	120.6	65.7
Mean				-9.2	-0.6	-0.5	-0.1	0.9	2.4	3.6	6.0	25			
Extreme	56.7	WNW	11:22												
Date	29														

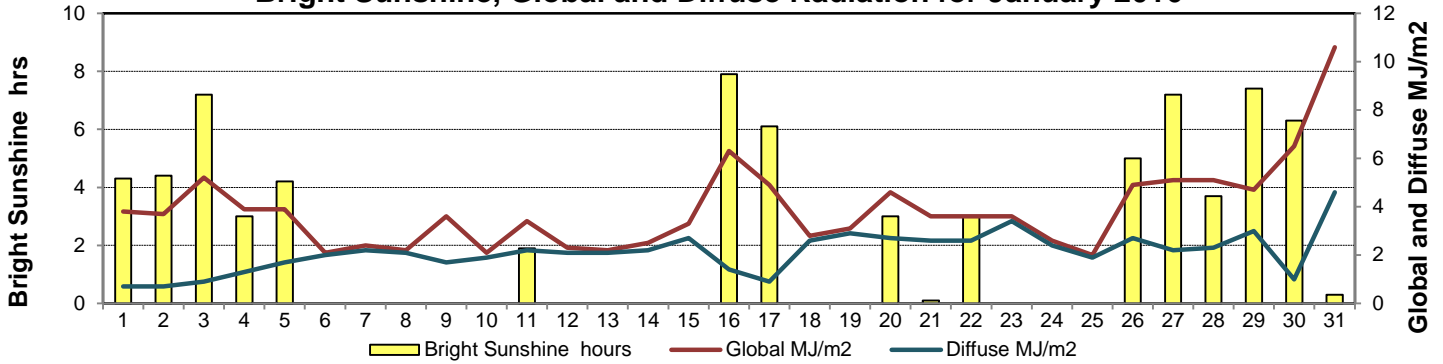
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
T <sub>m</sub> Mean Temperature	Bright Sunshine The unobstructed direct radiation from the sun, as opposed to the shading of a location by clouds or by other atmospheric obstructions.
Growing (T <sub>m</sub> -5°C); if T <sub>m</sub> ≤ 5°C then GDD = 0	
Heating (18°C-T <sub>m</sub> ); if T <sub>m</sub> ≥ 18°C then HDD = 0	Diffuse Radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (T <sub>m</sub> -18°C); if T <sub>m</sub> ≤ 18°C then CDD = 0	Global The sum of the direct solar and diffuse radiation
T Trace of Precipitation	<b>Relative Humidity</b> The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
<b>SOG</b> Depth of snow-on-the-ground	
<b>Red Cell</b> No data available	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
<b>Red Number</b> Manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for January 2016

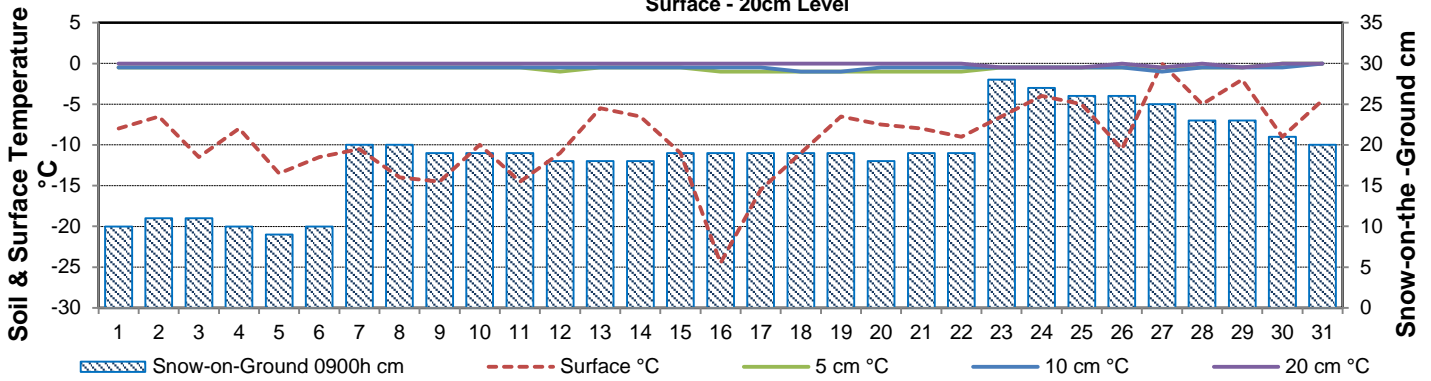


### Bright Sunshine, Global and Diffuse Radiation for January 2016



### Soil Temperatures for January 2016

Surface - 20cm Level



### Soil Temperatures for January 2016

50 - 300cm Level

