



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

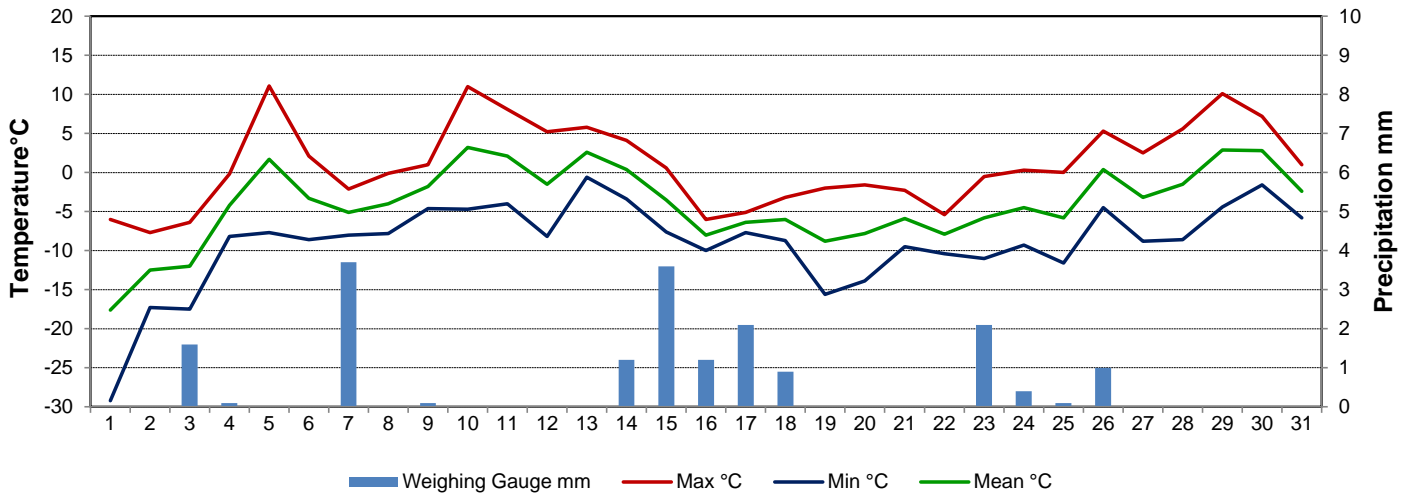
**March 2016**

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	-6.0	-29.2	-17.6	0.0	35.6	0.0	0.0		29	82	58	1019	1011
2	-7.7	-17.3	-12.5	0.0	30.5	0.0	0.0		29	88	64	1018	1010
3	-6.4	-17.5	-12.0	0.0	30.0	0.0	1.6		29	91	70	1017	1007
4	-0.2	-8.2	-4.2	0.0	22.2	0.0	0.1		31	92	71	1014	1007
5	11.1	-7.7	1.7	0.0	16.3	0.0	0.0		31	88	41	1010	997
6	2.1	-8.6	-3.3	0.0	21.3	0.0	0.0		29	92	64	1003	996
7	-2.1	-8.0	-5.1	0.0	23.1	0.0	3.7		30	90	80	1008	1001
8	-0.1	-7.8	-4.0	0.0	22.0	0.0	0.0		32	87	74	1010	1007
9	1.0	-4.6	-1.8	0.0	19.8	0.0	0.1		32	94	71	1013	1007
10	11.0	-4.7	3.2	0.0	14.8	0.0	0.0		31	94	50	1012	995
11	8.1	-4.0	2.1	0.0	15.9	0.0	0.0		30	80	45	1010	995
12	5.2	-8.2	-1.5	0.0	19.5	0.0	0.0		25	87	58	1010	997
13	5.8	-0.6	2.6	0.0	15.4	0.0	0.0		23	88	53	996	991
14	4.1	-3.4	0.4	0.0	17.6	0.0	1.2		18	90	66	1000	993
15	0.6	-7.6	-3.5	0.0	21.5	0.0	3.6		16	93	78	1004	1000
16	-6.0	-10.0	-8.0	0.0	26.0	0.0	1.2		21	91	78	1013	1003
17	-5.1	-7.7	-6.4	0.0	24.4	0.0	2.1		23	90	78	1023	1013
18	-3.2	-8.7	-6.0	0.0	24.0	0.0	0.9		28	91	66	1027	1023
19	-2.0	-15.6	-8.8	0.0	26.8	0.0	0.0		21	89	60	1028	1024
20	-1.6	-13.9	-7.8	0.0	25.8	0.0	0.0		21	90	68	1024	1016
21	-2.3	-9.5	-5.9	0.0	23.9	0.0	0.0		20	80	58	1016	1011
22	-5.4	-10.4	-7.9	0.0	25.9	0.0	0.0		19	67	37	1019	1012
23	-0.5	-11.0	-5.8	0.0	23.8	0.0	2.1		22	93	69	1019	1012
24	0.3	-9.3	-4.5	0.0	22.5	0.0	0.4		21	93	62	1012	1008
25	0.0	-11.6	-5.8	0.0	23.8	0.0	0.1		20	91	59	1016	1013
26	5.3	-4.5	0.4	0.0	17.6	0.0	1.0		16	93	53	1013	1009
27	2.5	-8.8	-3.2	0.0	21.2	0.0	0.0		18	93	66	1015	1012
28	5.6	-8.6	-1.5	0.0	19.5	0.0	0.0		18	92	60	1017	1014
29	10.1	-4.4	2.9	0.0	15.1	0.0	0.0		16	95	37	1016	1011
30	7.2	-1.6	2.8	0.0	15.2	0.0	0.0		10	84	55	1011	1007
31	1.0	-5.8	-2.4	0.0	20.4	0.0	0.0		5	84	46	1017	1010
Total				0.0	681.4	0.0	18.1						
Avg	1.0	-9.0	-4.0				50.5	Cumulative ppt					
Extreme	11.1	-29.2					3.7		32	95	37	1028	991
Date	5	1					7		8	29	22	19	13

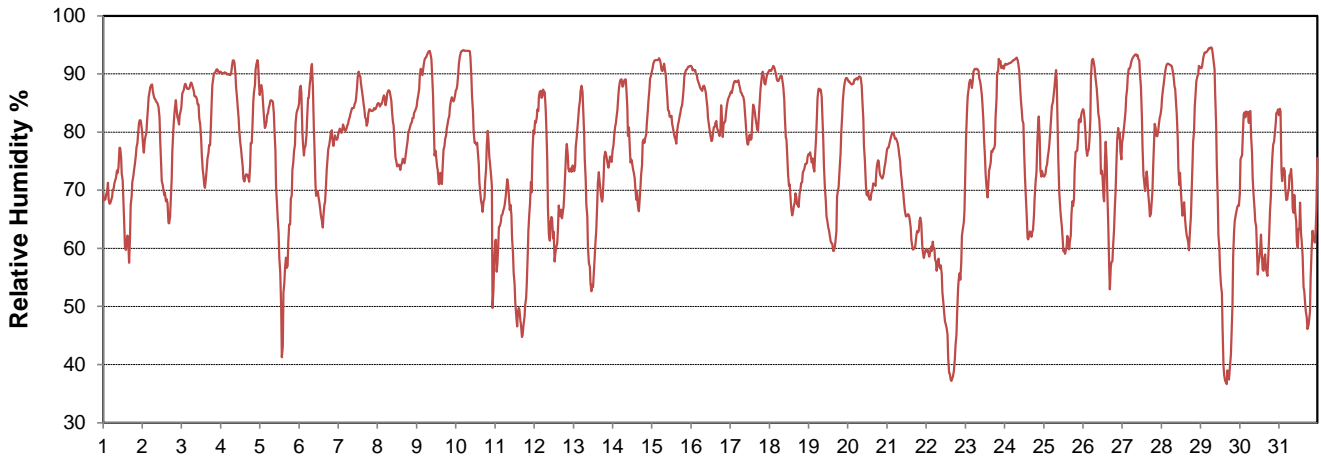
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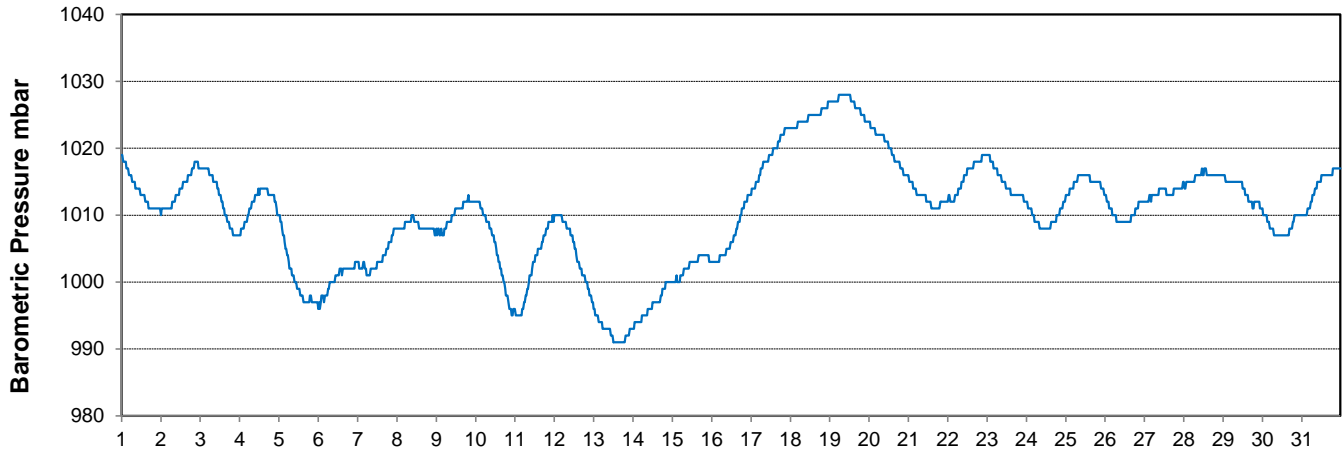
### Temperature and Precipitation for March 2016



### Relative Humidity for March 2016



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





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Preliminary

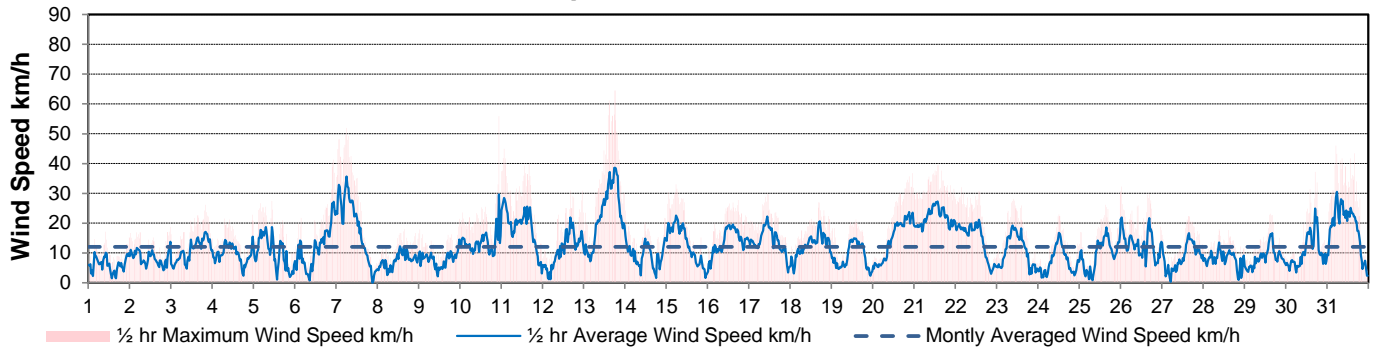
**March 2016**

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	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	17.1	WSW	10:26	-13.5	-0.5	-0.5	0.0	0.5	1.5	2.5	5.0	19	1.1	8.3	7.4
2	18.7	SSW	23:32	-10.5	-0.5	-0.5	0.0	0.5	1.5	2.5	5.0	18	6.9	11.4	6.0
3	26.1	E	20:18	-11.0	-0.5	-0.5	0.0	0.5	1.5	2.5	4.5	18	2.2	8.5	7.0
4	22.9	SSE	23:54	-5.0	-0.5	-0.5	0.0	0.5	1.5	2.5	4.5	18	0.0	7.8	7.2
5	27.4	SSW	10:39	-6.0	-0.5	-0.5	-0.5	0.5	1.5	2.5	4.5	18	9.6	12.9	3.9
6	41.3	ENE	22:57	-7.0	-0.5	-0.5	0.0	0.5	1.5	2.5	4.5	18	8.8	13.7	4.0
7	51.9	E	6:03	-5.5	-0.5	-0.5	-0.5	0.5	1.5	2.5	4.5	18	0.0	5.1	4.7
8	18.0	S	15:37	-3.0	-0.5	-0.5	-0.5	0.5	1.5	2.5	4.5	18	0.0	7.1	6.6
9	21.4	S	23:54	-3.0	-0.5	-0.5	0.0	0.5	1.5	2.5	4.5	18	0.0	8.1	7.4
10	55.9	WSW	22:48	-2.5	-0.5	-0.5	-0.5	0.0	1.5	2.0	4.0	19	4.0	10.6	8.2
11	45.0	SW	1:34	2.0	-0.5	-0.5	0.0	0.5	1.5	2.5	4.5	19	11.0	14.6	2.4
12	31.0	E	16:17	-0.5	0.0	0.0	0.0	0.5	1.5	2.5	4.5	21	1.9	8.9	6.9
13	64.5	WSW	18:22	2.5	0.0	-0.5	0.0	0.5	1.5	2.5	4.5	21	7.3	12.9	4.2
14	24.2	WSW	0:00	-2.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	22	5.9	12.4	4.3
15	33.0	NE	5:46	-2.0	0.0	-0.5	0.0	0.5	1.5	2.5	4.5	22	0.0	4.3	3.9
16	27.7	NNW	17:42	-7.0	0.0	0.0	0.0	0.5	1.5	2.5	4.5	22	0.0	8.4	7.6
17	29.8	N	10:31	-5.5	0.0	-0.5	0.0	0.5	1.5	2.0	4.5	22	0.6	9.8	8.7
18	27.0	WNW	16:37	-5.5	0.0	-0.5	0.0	0.5	1.5	2.0	4.5	22	6.9	14.8	8.9
19	21.2	SSW	14:10	-6.5	0.0	0.0	0.0	0.5	1.5	2.5	4.5	22	10.2	17.2	4.1
20	36.8	E	23:06	-6.5	0.0	0.0	0.0	0.5	1.5	2.0	4.5	22	9.8	16.3	7.6
21	39.5	ENE	13:38	-8.0	0.0	0.0	0.0	0.5	1.5	2.0	4.5	21	4.8	12.2	9.5
22	32.1	ENE	3:47	-9.0	0.0	-0.5	0.0	0.5	1.5	2.0	4.0	21	5.5	12.9	9.5
23	28.2	SSW	9:43	-4.5	0.0	-0.5	0.0	0.5	1.5	2.0	4.0	20	0.2	9.3	8.4
24	22.9	ENE	12:27	-4.0	0.0	-0.5	0.0	0.5	1.5	2.0	4.0	20	5.4	14.3	9.0
25	30.3	SSW	23:49	-5.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	20	7.0	16.1	6.7
26	32.3	SSW	0:34	-0.5	-0.5	-0.5	-0.5	0.0	1.0	2.0	3.5	20	6.2	12.7	7.9
27	22.4	E	15:46	-1.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	20	6.4	13.8	6.7
28	18.0	ENE	9:25	-3.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	20	10.9	18.0	5.6
29	23.1	WNW	15:11	0.0	0.0	0.0	0.0	0.5	1.5	2.0	4.0	21	10.0	17.3	3.3
30	37.3	NNE	17:11	2.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	21	1.7	9.2	7.7
31	46.0	N	5:00	0.5	0.0	-0.5	0.0	0.5	1.5	2.0	4.0	22	8.2	13.3	
Total													152.5	362.2	195.3
Mean				-4.2	-0.2	-0.3	-0.1	0.5	1.5		4.3	20.1			
Extreme	64.5	WSW	18:22												
Date	13														Mar 31st diffuse ring mal-adjusted

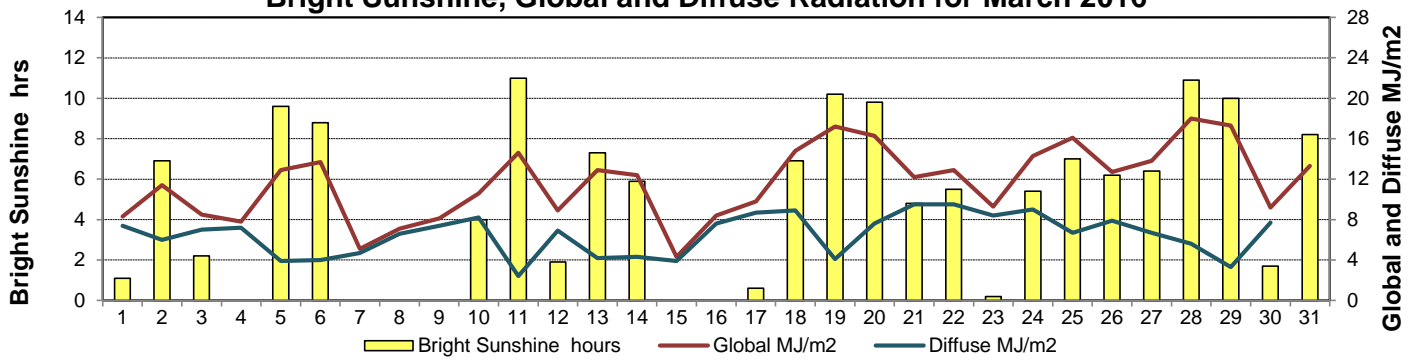
### GLOSSARY OF TERMS

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

### Wind Speed for March 2016

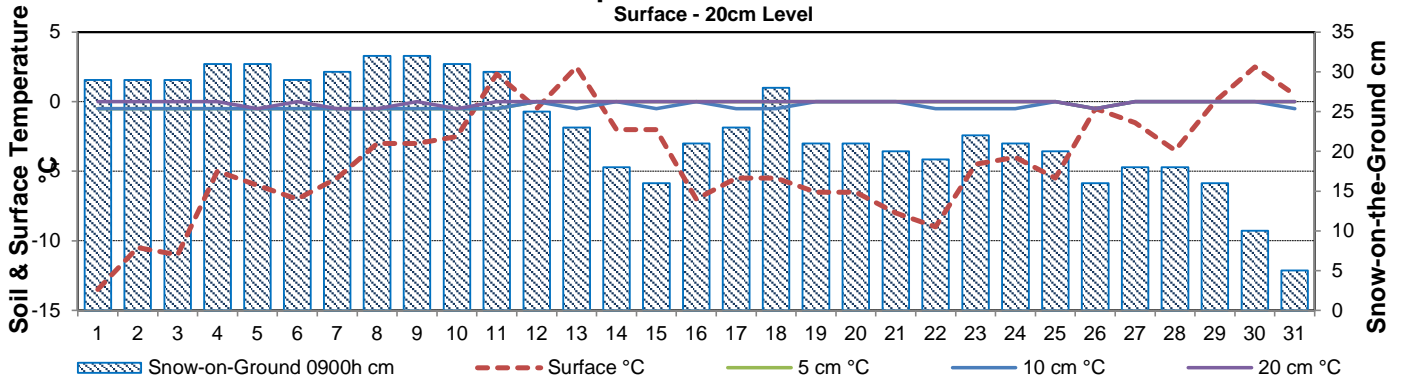


### Bright Sunshine, Global and Diffuse Radiation for March 2016



### Soil Temperatures for March 2016

Surface - 20cm Level



### Soil Temperatures for March 2016

50 - 300cm Level

