



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

**March 2015**

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	-3.5	-18.3	-10.9	0.0	28.9	0.0	0.1		36	90	48	1022	1015
2	-7.7	-18.8	-13.3	0.0	31.3	0.0	0.2		36	86	57	1015	1005
3	-18.1	-28.2	-23.2	0.0	41.2	0.0	0.1		39	70	51	1021	1013
4	-17.6	-30.8	-24.2	0.0	42.2	0.0	0.0		39	71	45	1024	1016
5	-1.2	-23.9	-12.6	0.0	30.6	0.0	0.0		39	72	46	1016	1009
6	4.7	-10.7	-3.0	0.0	21.0	0.0	0.1		39	85	50	1017	1007
7	4.3	-7.7	-1.7	0.0	19.7	0.0	1.1		39	93	56	1017	1012
8	3.5	-6.7	-1.6	0.0	19.6	0.0	0.0		37	82	57	1012	1003
9	8.5	-1.5	3.5	0.0	14.5	0.0	0.0		37	81	55	1004	998
10	3.3	-3.8	-0.3	0.0	18.3	0.0	0.0		34	91	55	1017	1004
11	-2.8	-7.0	-4.9	0.0	22.9	0.0	0.0		31	80	64	1017	1013
12	-1.2	-6.2	-3.7	0.0	21.7	0.0	0.0		31	92	72	1019	1013
13	10.6	-4.8	2.9	0.0	15.1	0.0	0.0		31	96	46	1020	1016
14	8.2	-0.6	3.8	0.0	14.2	0.0	0.0		27	83	57	1016	989
15	6.8	-2.7	2.1	0.0	15.9	0.0	0.0		17	72	46	1016	990
16	1.3	-9.7	-4.2	0.0	22.2	0.0	0.0		12	81	38	1028	1016
17	3.4	-7.0	-1.8	0.0	19.8	0.0	0.0		12	92	53	1027	1020
18	6.6	-6.8	-0.1	0.0	18.1	0.0	0.0		12	95	47	1020	1012
19	2.1	-3.2	-0.6	0.0	18.6	0.0	0.0		0	91	61	1014	1009
20	-2.9	-10.1	-6.5	0.0	24.5	0.0	0.0		0	87	40	1023	1014
21	-5.4	-11.9	-8.7	0.0	26.7	0.0	0.0		0	86	50	1023	1020
22	-4.7	-8.9	-6.8	0.0	24.8	0.0	1.7		6	94	67	1020	1016
23	-1.1	-6.2	-3.7	0.0	21.7	0.0	0.0		6	94	75	1018	1013
24	0.4	-4.4	-2.0	0.0	20.0	0.0	2.6		7	94	69	1016	1012
25	3.3	-7.9	-2.3	0.0	20.3	0.0	0.0		4	89	49	1020	1016
26	2.5	-6.7	-2.1	0.0	20.1	0.0	0.2		3	92	61	1021	1014
27	3.3	-0.6	1.4	0.0	16.6	0.0	0.4		2	94	83	1014	1009
28	7.5	-0.2	3.7	0.0	14.3	0.0	0.0		0	95	66	1008	996
29	12.1	0.1	6.1	1.1	11.9	0.0	0.0		0	78	38	1012	1006
30	11.9	-0.2	5.9	0.9	12.1	0.0	0.0		0	86	45	1011	1005
31	11.2	-2.1	4.6	0.0	13.4	0.0	0.0		0	94	52	1010	994
Total				2.0	662.2	0.0	6.5						
Avg	1.6	-8.3	-3.4				38.2	Cumulative ppt					
Extreme	12.1	-30.8					2.6		39	96	38	1028	989
Date	29	4					24		3	13	16	16	14

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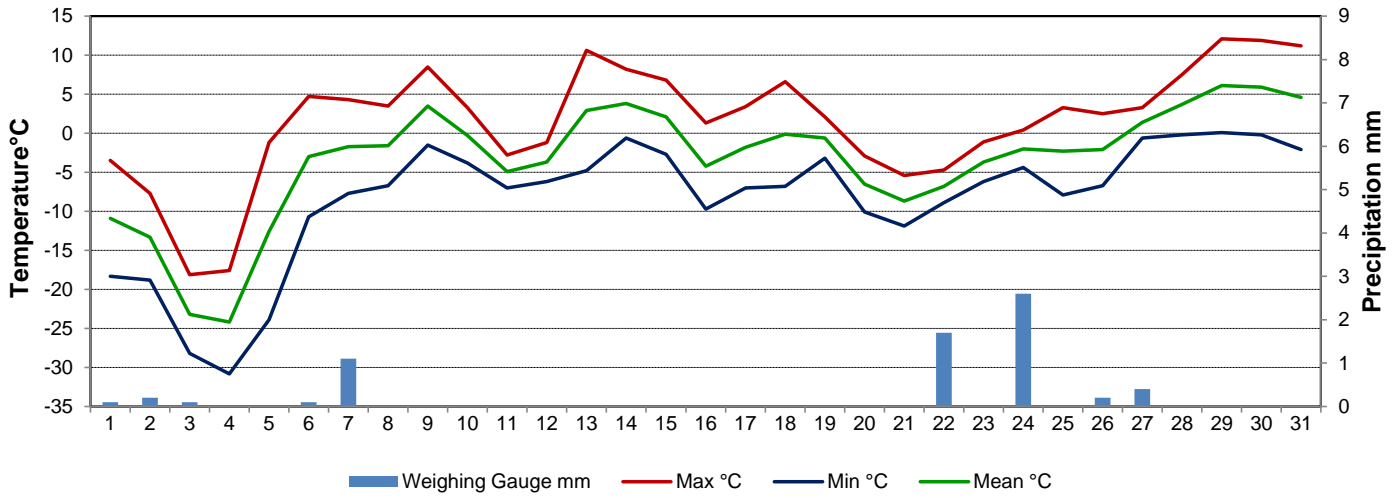


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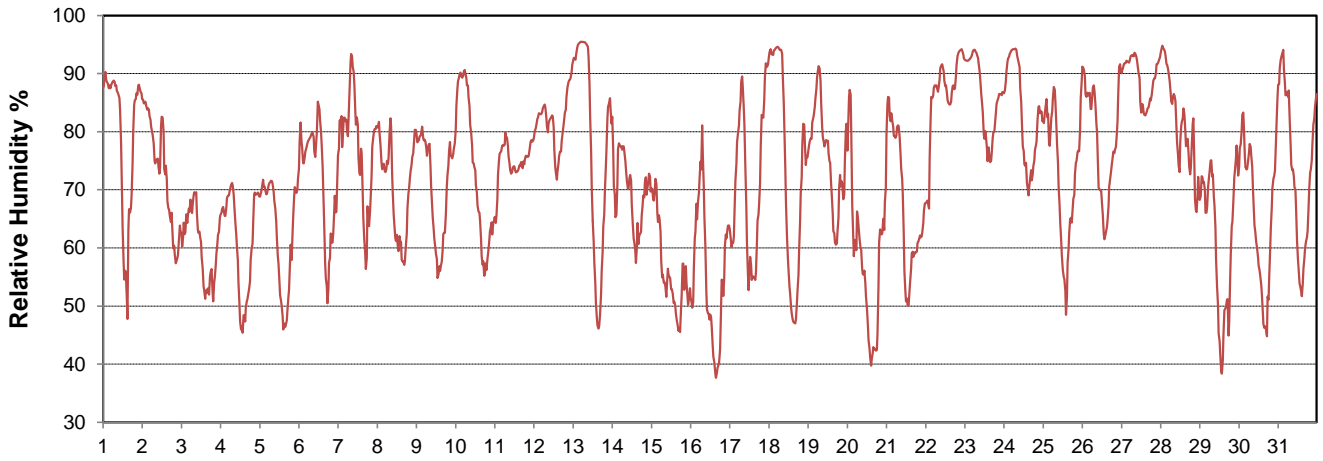
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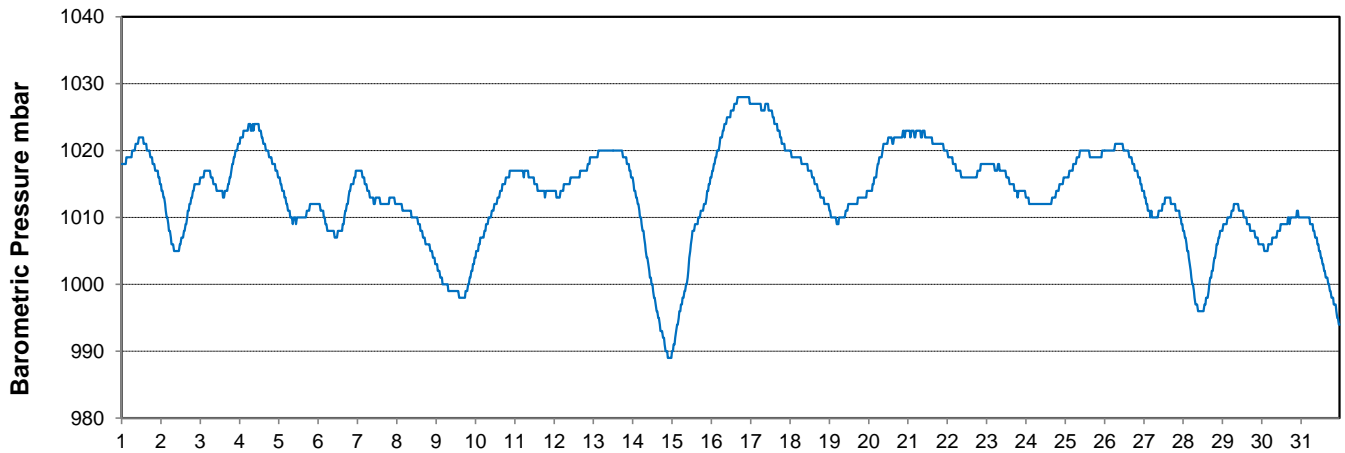
### Temperature and Precipitation for March 2015



### Relative Humidity for March 2015



### Barometric Pressure Corrected to Sea Level for March 2015





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Preliminary

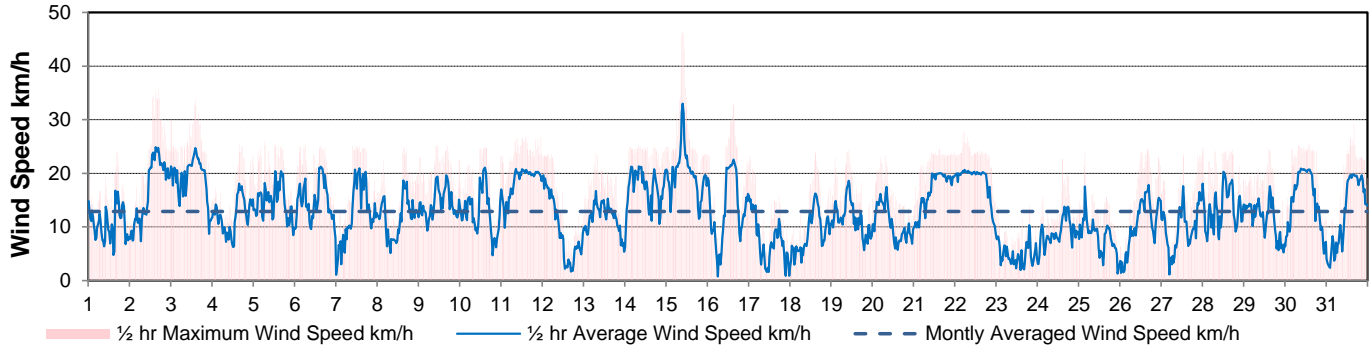
March 2015

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	23.9	SSW	16:57	-7.5	-2.0	-1.5	-1.5	-0.5	1.0	2.0	4.5	15	10.4	14.4	2.8
2	35.9	NW	16:58	-8.5	-2.0	-1.5	-1.5	-0.5	1.0	2.0	4.5	15	2.0	8.7	7.5
3	33.8	NW	14:25	-10.5	-1.5	-1.5	-1.5	-0.5	1.0	2.0	4.5	15	8.9	12.7	5.6
4	25.3	SSW	15:50	-13.0	-2.0	-2.0	-1.5	-0.5	1.0	2.0	4.5	15	10.7	13.2	2.5
5	26.0	SW	6:52	-14.0	-2.0	-2.0	-1.5	-0.5	1.0	2.0	4.5	15	10.6	12.8	2.4
6	25.5	SW	6:17	-6.5	-2.0	-2.0	-1.5	-0.5	0.5	2.0	4.5	15	5.5	10.1	4.9
7	25.3	WNW	11:30	-4.5	-2.0	-2.0	-1.5	-0.5	0.5	2.0	4.0	15	5.1	11.0	5.6
8	24.8	SSW	15:13	-5.5	-1.5	-1.5	-1.5	-0.5	0.5	1.5	4.0	16	10.4	13.5	2.8
9	25.2	WSW	10:21	-1.5	-1.5	-1.5	-1.5	-0.5	0.5	1.5	4.0	16	8.6	12.3	3.6
10	24.8	NW	15:12	-2.0	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	17	10.2	12.9	3.5
11	27.0	ESE	14:13	-5.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	17	5.2	11.5	7.7
12	23.6	ENE	3:44	-5.5	-0.5	-0.5	-1.0	-0.5	0.5	1.5	4.0	17	0.0	7.4	6.9
13	23.9	SW	7:14	-3.5	-0.5	-1.0	-1.0	-1.0	0.5	1.5	3.5	17	10.5	15.8	3.0
14	25.1	S	8:25	2.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	4.2	8.6	6.7
15	46.5	WNW	9:41	3.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	10.7	14.5	2.8
16	32.8	NW	15:05	-6.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	11.6	15.6	2.1
17	23.1	WSW	0:46	-4.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	11.5	15.7	3.0
18	24.1	SSW	15:11	-3.0	0.0	-0.5	-0.5	0.0	0.5	1.5	4.0	18	11.0	16.4	2.9
19	24.3	NNW	10:01	1.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	4.5	7.5	5.6
20	23.2	NE	7:52	-8.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	18	11.4	16.1	2.3
21	24.6	ENE	15:18	-8.5	0.0	0.0	-0.5	0.0	0.5	1.5	4.0	17	3.9	10.5	7.9
22	27.9	E	5:44	-7.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	16	0.0	5.9	5.5
23	14.0	ENE	19:42	-4.0	-0.5	-0.5	-1.0	-0.5	0.5	1.5	3.5	16	0.0	7.6	7.1
24	22.7	N	14:56	-2.5	-0.5	-1.0	-1.0	-0.5	0.5	1.5	3.5	16	2.1	10.8	9.0
25	23.8	NNW	3:42	-5.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	17	11.9	16.8	4.8
26	24.6	S	16:23	-3.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	17	2.5	10.9	9.4
27	23.7	NE	12:40	0.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	17	0.6	7.6	6.7
28	24.7	S	0:13	2.0	-0.5	-0.5	-1.0	-1.0	0.5	1.0	3.0	17	4.7	9.4	6.2
29	24.5	SW	15:21	3.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	18	10.2	17.5	2.7
30	25.5	WNW	14:01	6.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	19	11.4	17.3	2.6
31	29.2	ESE	16:00	1.5	0.0	0.0	-0.5	0.0	0.5	1.5	4.0	18	8.8	15.3	6.1
Total													219.1	380.3	152.2
Mean				-3.9	-0.8	-0.9	-0.9	-0.5	0.6		3.9	16.7			
Extreme	46.5	WNW	9:41												
Date	15														

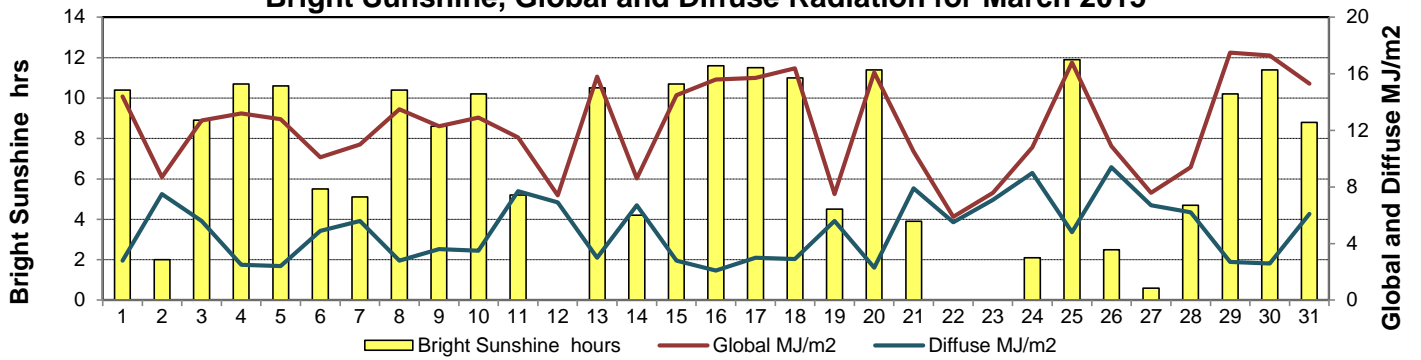
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
T <sub>m</sub> 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 (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 is 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 is 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
Red Number manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for March 2015

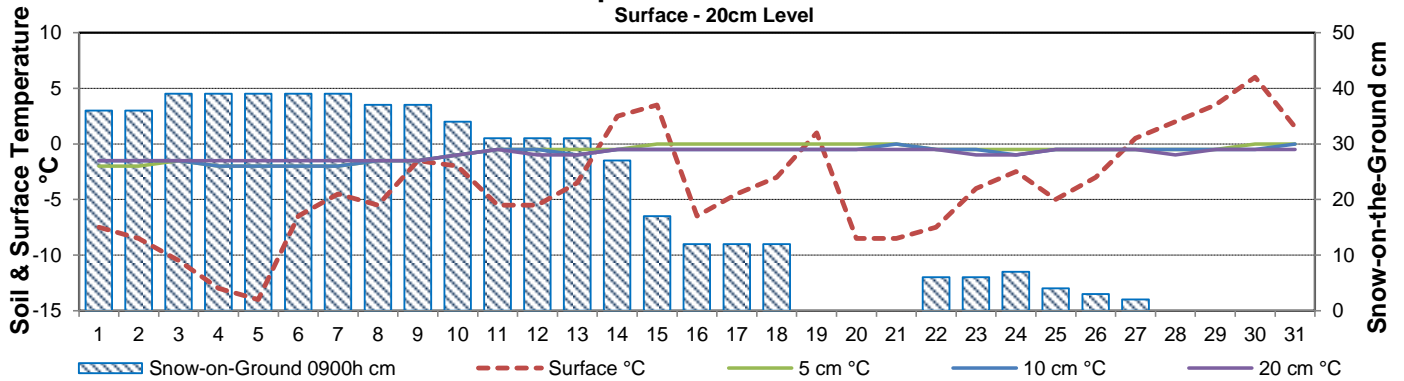


### Bright Sunshine, Global and Diffuse Radiation for March 2015



### Soil Temperatures for March 2015

Surface - 20cm Level



### Soil Temperatures for March 2015

50 - 300cm Level

