



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

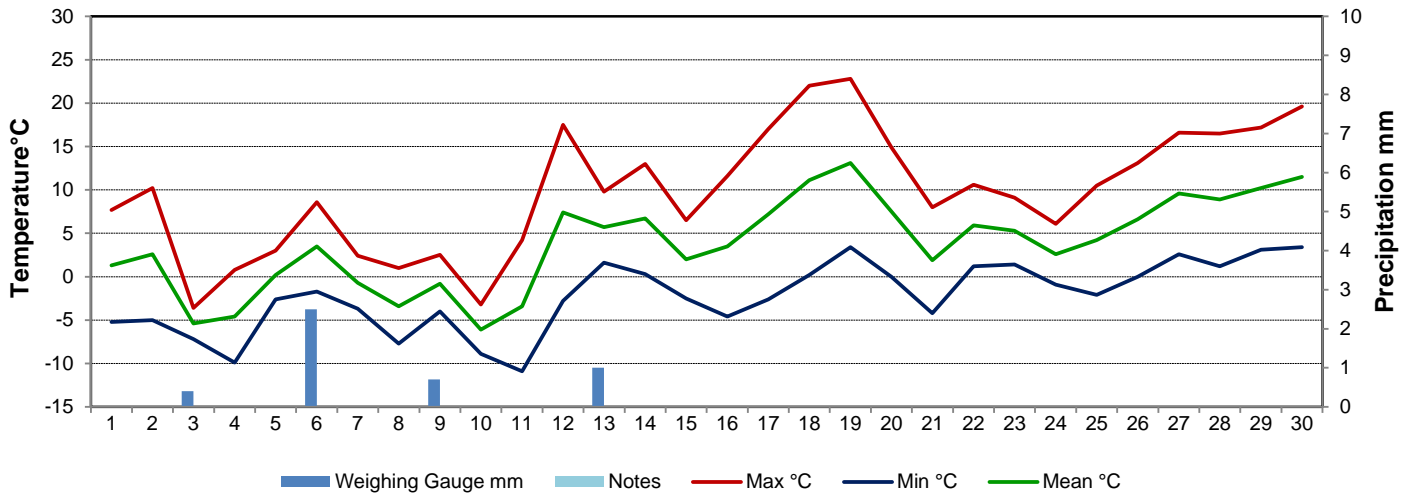
April 2016

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	7.7	-5.2	1.3	0.0	16.7	0.0	0.0		4	73	46	1017	1009
2	10.2	-5.0	2.6	0.0	15.4	0.0	0.0		-	84	51	1013	1000
3	-3.6	-7.2	-5.4	0.0	23.4	0.0	0.4		-	82	72	1020	1003
4	0.8	-9.9	-4.6	0.0	22.6	0.0	0.0		-	91	54	1021	1011
5	3.0	-2.6	0.2	0.0	17.8	0.0	0.0		-	88	47	1015	1007
6	8.6	-1.7	3.5	0.0	14.5	0.0	2.5		-	91	58	1014	1003
7	2.4	-3.7	-0.7	0.0	18.7	0.0	0.0		-	81	52	1022	1014
8	1.0	-7.7	-3.4	0.0	21.4	0.0	0.0		-	81	49	1024	1006
9	2.5	-4.0	-0.8	0.0	18.8	0.0	0.7		-	87	57	1005	992
10	-3.2	-8.9	-6.1	0.0	24.1	0.0	0.0		-	82	54	1020	1006
11	4.2	-10.9	-3.4	0.0	21.4	0.0	0.0		-	89	37	1020	1011
12	17.5	-2.8	7.4	2.4	10.6	0.0	0.0		-	84	26	1011	1008
13	9.8	1.6	5.7	0.7	12.3	0.0	1.0		-	91	61	1009	1001
14	13.0	0.3	6.7	1.7	11.3	0.0	0.0		-	86	40	1013	1002
15	6.5	-2.5	2.0	0.0	16.0	0.0	0.0		-	87	46	1024	1013
16	11.6	-4.6	3.5	0.0	14.5	0.0	0.0		-	94	33	1030	1024
17	17.0	-2.6	7.2	2.2	10.8	0.0	0.0		-	84	19	1031	1028
18	22.0	0.2	11.1	6.1	6.9	0.0	0.0		-	72	16	1030	1023
19	22.8	3.4	13.1	8.1	4.9	0.0	0.0		-	61	13	1022	1009
20	14.9	0.0	7.5	2.5	10.5	0.0	0.0		-	80	27	1023	1008
21	8.0	-4.2	1.9	0.0	16.1	0.0	0.0		-	79	34	1024	1019
22	10.6	1.2	5.9	0.9	12.1	0.0	0.0		-	64	30	1020	1018
23	9.1	1.4	5.3	0.3	12.7	0.0	0.0		-	57	25	1019	1017
24	6.1	-0.9	2.6	0.0	15.4	0.0	0.0		-	51	26	1019	1016
25	10.5	-2.1	4.2	0.0	13.8	0.0	0.0		-	66	23	1017	1015
26	13.1	0.0	6.6	1.6	11.4	0.0	0.0		-	71	23	1017	1016
27	16.6	2.6	9.6	4.6	8.4	0.0	0.0		-	78	20	1021	1017
28	16.5	1.2	8.9	3.9	9.1	0.0	0.0		-	76	22	1024	1021
29	17.2	3.1	10.2	5.2	7.8	0.0	0.0		-	59	18	1021	1020
30	19.6	3.4	11.5	6.5	6.5	0.0	0.0		-	61	17	1026	1022
Total				46.7	425.9	0.0	4.6						
Avg	9.9	-2.3	3.8				55.1	Cumulative ppt					
Extreme	22.8	-10.9					2.5		4	94	13	1031	992
Date	19	11					6		1	16	19	17	9

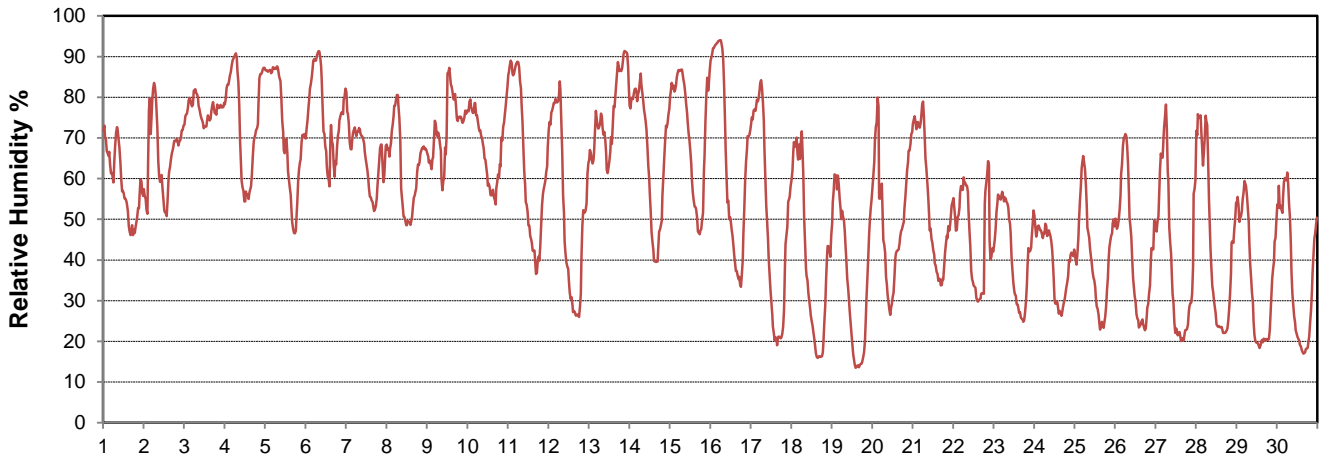
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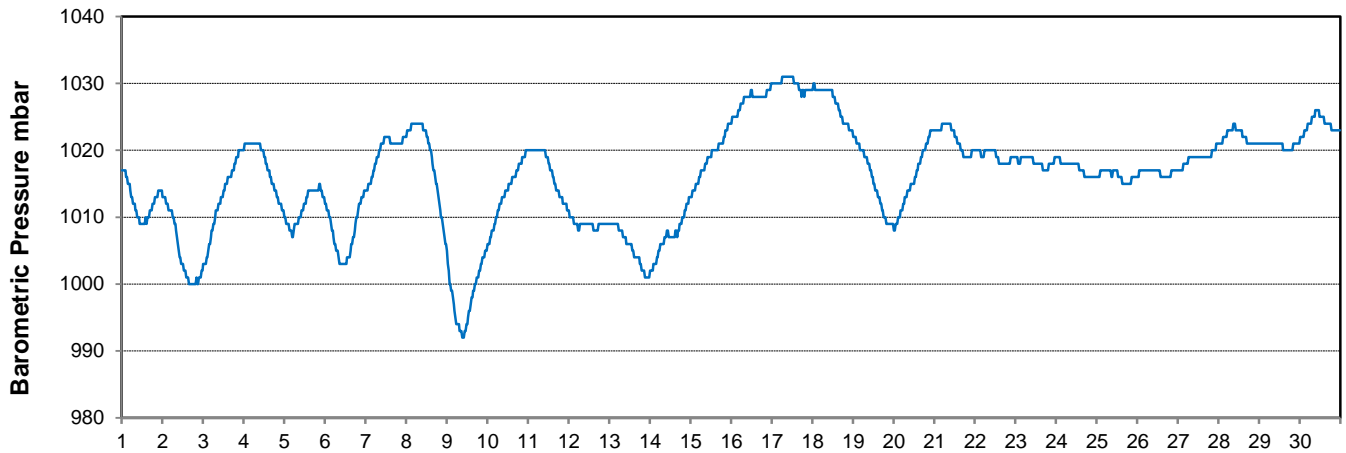
### Temperature and Precipitation for April 2016



### Relative Humidity for April 2016



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





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Preliminary

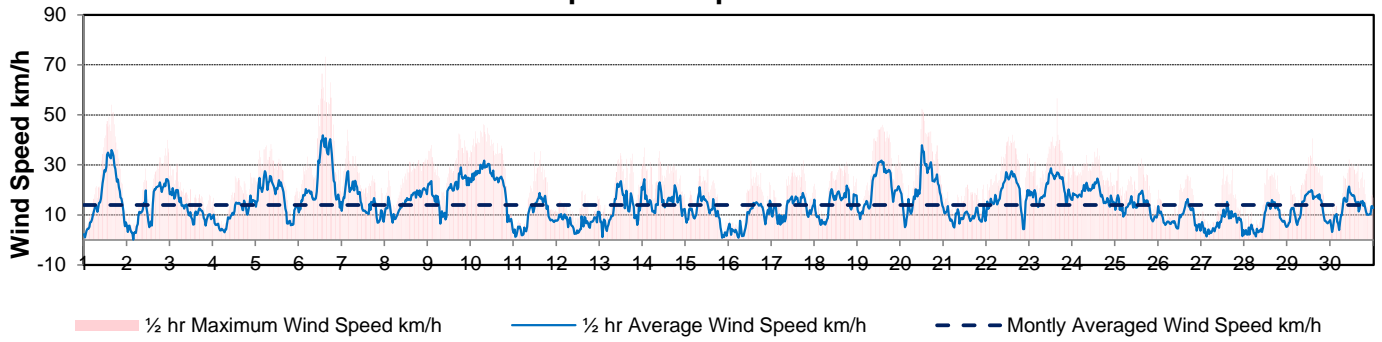
April 2016

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	54.0	NW	15:30	0.5	0.0	-0.5	-0.5	0.0	1.0	2.0	4.0	22	7.8	15.4	4.4
2	39.9	ENE	22:04	0.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	22	12.0	19.3	2.3
3	30.6	NE	3:45	-5.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	22	0.1	6.6	5.9
4	26.8	E	20:46	-3.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	22	8.0	17.2	5.4
5	38.4	ENE	8:22	-1.5	-0.5	-0.5	-0.5	0.0	1.0	2.0	3.5	22	2.5	8.0	6.4
6	73.2	NNW	14:41	1.0	-0.5	-0.5	-0.5	0.0	1.0	1.5	3.5	22	5.5	13.0	7.1
7	44.0	NNW	2:54	-2.5	0.0	-0.5	0.0	0.5	1.5	2.0	4.0	22	4.4	12.4	7.8
8	32.5	SE	22:32	-2.5	0.0	-0.5	0.0	0.5	1.0	2.0	4.0	23	9.6	16.9	5.8
9	42.6	NNW	17:27	1.0	-0.5	-0.5	0.0	0.0	1.0	2.0	3.5	23	1.5	6.2	5.0
10	46.3	NNW	6:44	-5.5	-0.5	-0.5	0.0	0.0	1.0	2.0	3.5	22	6.2	14.3	8.9
11	35.5	SSW	14:47	-4.0	0.0	-0.5	0.0	0.5	1.0	2.0	3.5	22	11.7	21.7	4.6
12	19.8	WSW	14:16	3.5	0.0	-0.5	0.0	0.5	1.0	2.0	4.0	22	12.4	21.3	2.6
13	34.7	ENE	11:19	5.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	22	1.3	6.4	4.9
14	37.0	W	0:53	4.5	0.0	-0.5	0.0	0.5	1.0	2.0	4.0	23	9.1	19.4	5.0
15	28.6	NNE	7:46	0.0	0.0	0.0	0.0	0.5	1.0	2.0	4.0	23	7.8	13.8	9.1
16	31.6	SSW	12:24	1.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	23	12.8	23.7	3.0
17	31.8	S	17:35	5.5	0.0	0.0	0.0	0.5	1.0	2.0	4.0	24	13.7	23.5	2.9
18	31.2	SSW	17:46	9.5	0.0	0.0	0.0	0.5	1.5	2.0	4.0	24	13.6	23.3	2.9
19	45.9	SSW	13:47	12.0	0.0	0.0	0.0	0.5	1.5	2.0	4.0	25	12.6	23.1	4.0
20	52.3	NW	11:44	11.0	1.0	0.5	0.5	1.0	1.5	2.0	4.0	26	13.6	23.6	3.5
21	22.1	ESE	22:18	0.5	1.5	1.5	1.5	1.5	1.5	2.0	4.0	26	12.5	23.6	3.1
22	42.0	ENE	14:20	3.5	2.5	2.5	2.0	1.5	1.5	2.0	4.0	26	7.4	18.6	8.7
23	56.7	E	15:23	3.5	3.0	3.0	2.5	2.0	1.5	2.0	4.0	27	5.5	15.1	8.7
24	36.6	E	13:51	1.0	2.5	2.5	2.5	2.0	1.5	2.0	4.0	27	0.4	7.9	7.0
25	32.6	E	14:22	2.5	2.0	2.5	2.5	2.0	2.0	2.0	4.0	28	4.4	15.7	11.1
26	26.2	S	15:54	6.5	3.0	3.0	3.0	2.5	2.0	2.0	4.0	29	10.2	18.7	10.5
27	29.8	E	12:05	10.0	3.5	3.5	3.5	2.5	2.0	2.0	4.0	30	13.5	24.1	6.9
28	28.7	E	12:58	7.0	3.5	3.5	4.0	3.0	2.0	2.0	4.0	31	14.1	25.0	4.0
29	40.6	SSE	13:56	11.5	4.0	4.0	4.0	3.0	2.5	2.5	4.0	32	14.2	25.5	4.1
30	32.2	S	10:16	12.5	4.5	4.5	4.5	3.5	2.5	2.5	4.0	33	14.2	25.3	4.6
Total													262.6	528.6	170.2
Mean				3.0	1.0	0.9	1.0	1.1	1.5	2.0	3.9	24.8			
Extreme	73.2	NNW	14:41												
Date	6														

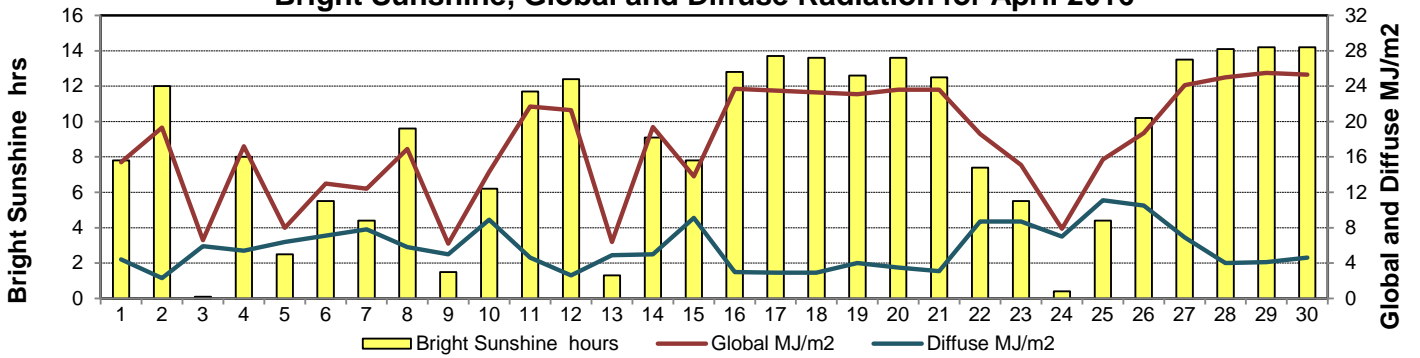
### GLOSSARY OF TERMS

<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	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (Tm-18°C); if Tm ≤ 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
<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 April 2016

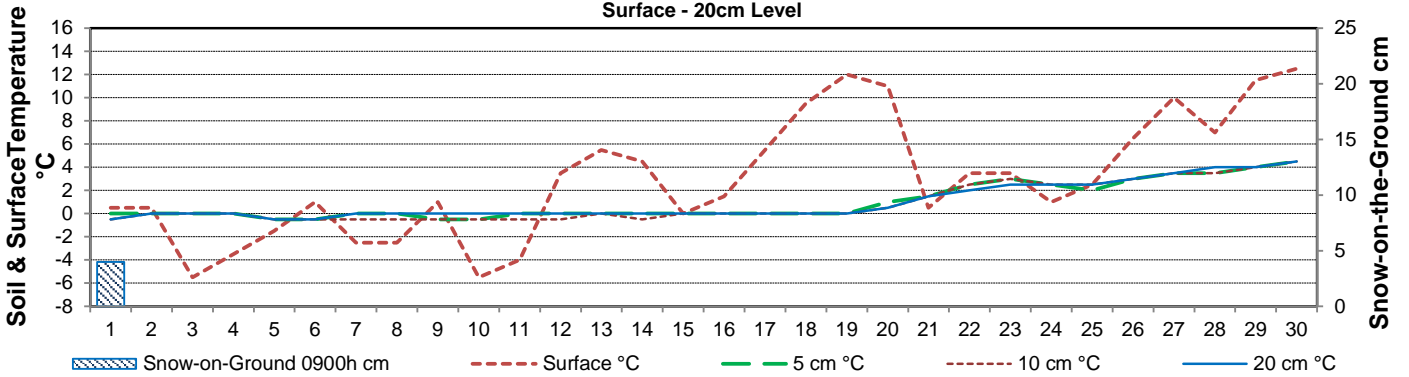


### Bright Sunshine, Global and Diffuse Radiation for April 2016



### Soil Temperatures for April 2016

Surface - 20cm Level



### Soil Temperatures for April 2016

50 - 300cm Level

