



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

April 2017

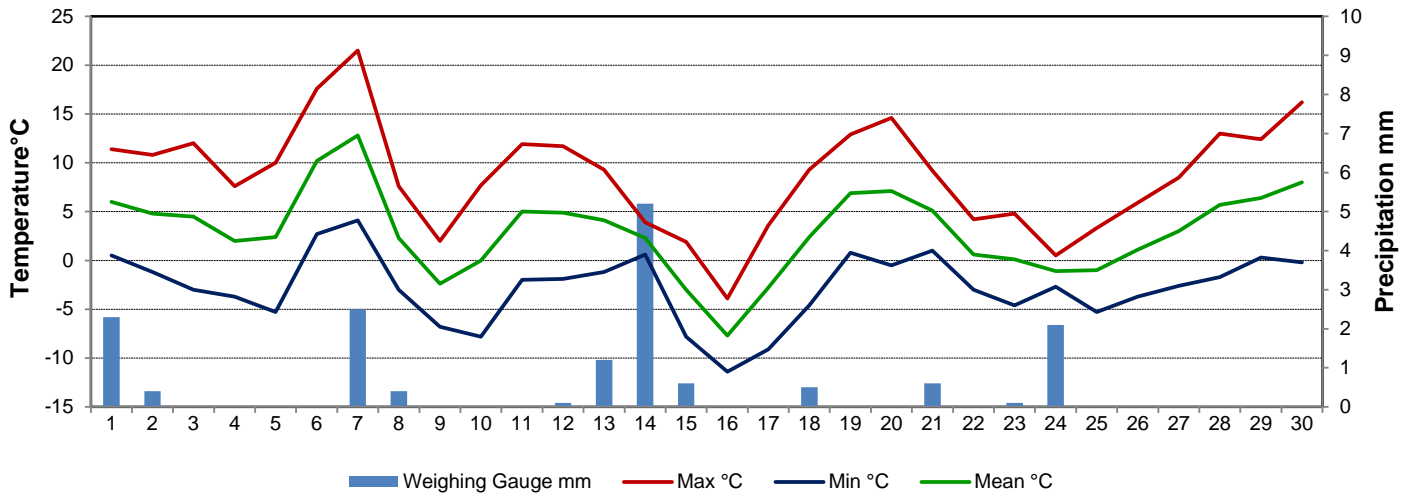
Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	11.4	0.5	6.0	1.0	12.0	0.0	2.3		-	94	59	1016	1001
2	10.8	-1.2	4.8	0.0	13.2	0.0	0.4		-	93	48	1007	1001
3	12.0	-3.0	4.5	0.0	13.5	0.0	0.0		-	93	33	1012	1007
4	7.6	-3.7	2.0	0.0	16.0	0.0	0.0		-	84	35	1018	1013
5	10.0	-5.3	2.4	0.0	15.6	0.0	0.0		-	91	42	1018	1015
6	17.6	2.7	10.2	5.2	7.8	0.0	0.0		-	69	35	1015	1000
7	21.5	4.1	12.8	7.8	5.2	0.0	2.5		-	90	24	1000	991
8	7.6	-3.0	2.3	0.0	15.7	0.0	0.4		-	95	77	1007	990
9	2.0	-6.8	-2.4	0.0	20.4	0.0	0.0		-	84	42	1021	1008
10	7.7	-7.8	0.0	0.0	18.0	0.0	0.0		-	92	49	1021	1014
11	11.9	-2.0	5.0	0.0	13.0	0.0	0.0		-	89	43	1017	1013
12	11.7	-1.9	4.9	0.0	13.1	0.0	0.1		-	94	53	1022	1017
13	9.3	-1.2	4.1	0.0	13.9	0.0	1.2		-	85	60	1022	1011
14	3.9	0.6	2.3	0.0	15.7	0.0	5.2		-	93	67	1011	998
15	1.9	-7.8	-3.0	0.0	21.0	0.0	0.6		-	90	64	1014	999
16	-3.9	-11.4	-7.7	0.0	25.7	0.0	0.0		-	83	59	1023	1014
17	3.6	-9.1	-2.8	0.0	20.8	0.0	0.0		-	86	51	1022	1014
18	9.3	-4.6	2.4	0.0	15.6	0.0	0.5		-	91	45	1015	1013
19	12.9	0.8	6.9	1.9	11.1	0.0	0.0		-	90	51	1017	1012
20	14.6	-0.5	7.1	2.1	10.9	0.0	0.0		-	91	39	1019	1015
21	9.2	1.0	5.1	0.1	12.9	0.0	0.6		-	86	51	1024	1015
22	4.2	-3.0	0.6	0.0	17.4	0.0	0.0		-	84	42	1026	1023
23	4.8	-4.6	0.1	0.0	17.9	0.0	0.1		-	87	41	1022	1013
24	0.5	-2.7	-1.1	0.0	19.1	0.0	2.1		-	92	61	1015	1011
25	3.3	-5.3	-1.0	0.0	19.0	0.0	0.0		-	77	40	1018	1015
26	5.9	-3.7	1.1	0.0	16.9	0.0	0.0		-	75	31	1017	1010
27	8.5	-2.6	3.0	0.0	15.0	0.0	0.0		-	76	24	1012	1009
28	13.0	-1.7	5.7	0.7	12.3	0.0	0.0		-	75	21	1018	1012
29	12.4	0.3	6.4	1.4	11.6	0.0	0.0		-	91	36	1019	1015
30	16.2	-0.2	8.0	3.0	10.0	0.0	0.0		-	90	37	1015	1007
Total				23.2	450.3	0.0	16.0						
Avg	8.7	-2.8	3.0				63.3	Cumulative ppt					
Extreme	21.5	-11.4					5.2		0	95	21	1026	990
Date	7	16					14		#N/A	8	28	22	8

Spring maintenance 25 April 2017 tipping bucket re-installed and operational for May 1, dessicant replacement in radiation sensors, general site maintenance, auto diffuse ring realignment, geonor bucket emptied and re-installed, diffuse radiation data are estimates due to auto diffuse ring alignment issues

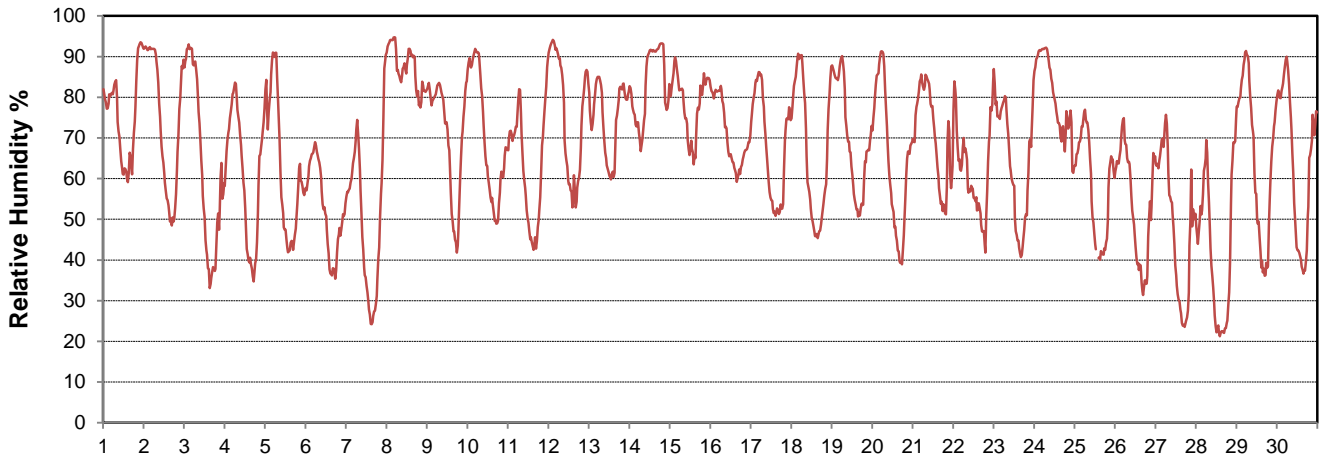
SRC proudly recognizes the following CRS supporters:



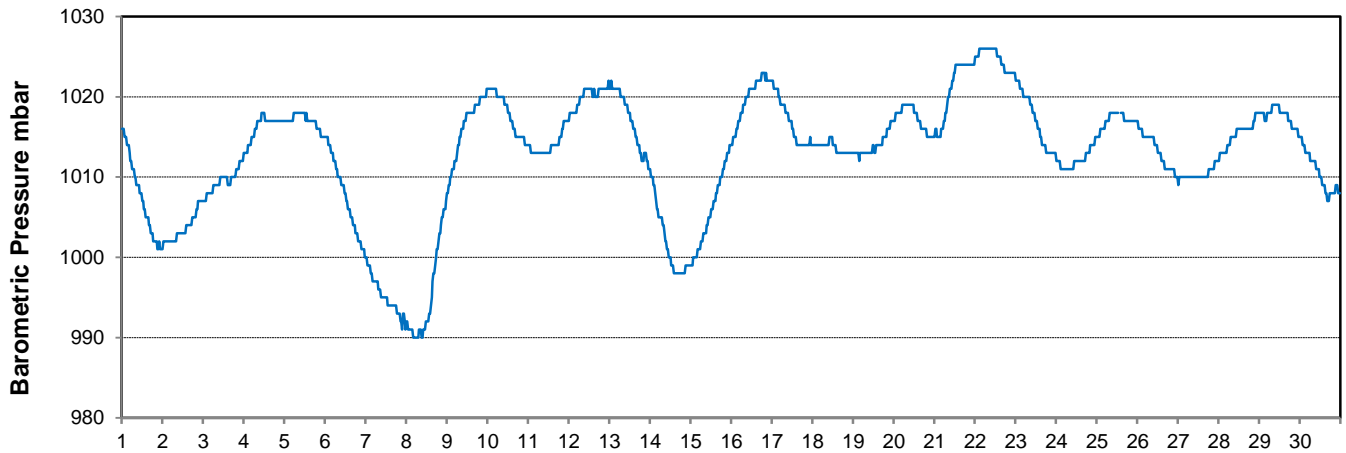
Temperature and Precipitation for April 2017



Relative Humidity for April 2017



Barometric Pressure Corrected to Sea Level for April 2017





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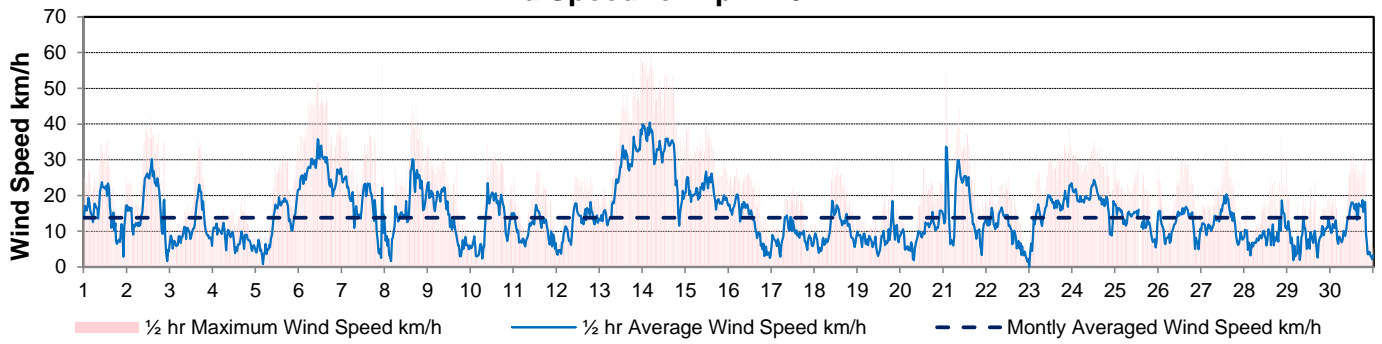
April 2017

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 ²	MJ/m ²
1	35.7	S	13:17	5.0	-0.5	-0.5	-0.5	-0.5	0.0	1.0	3.5	16	5.1	10.1	5.8
2	41.8	NW	13:49	3.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	17	12.4	19.5	10.9
3	35.3	NW	15:37	3.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	4.0	16	12.4	19.7	10.8
4	19.3	ESE	17:49	-0.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	16	13.0	20.1	10.8
5	34.4	SSE	23:18	1.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	17	12.6	20.9	10.3
6	51.7	SSW	10:20	5.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	17	7.4	12.8	10.5
7	57.2	SW	22:13	10.5	0.0	-0.5	-0.5	-0.5	0.5	1.0	3.5	18	9.3	17.5	7.9
8	45.4	NNW	15:23	5.5	0.0	0.0	-0.5	-0.5	0.5	1.0	3.5	19	2.8	5.5	4.0
9	33.2	NNE	0:23	-5.5	0.0	-0.5	-0.5	-0.5	0.0	1.0	3.5	18	6.7	14.5	13.4
10	34.8	S	9:09	-2.0	0.0	0.0	-0.5	-0.5	0.5	1.0	3.5	18	11.5	17.9	12.4
11	26.8	E	12:25	2.5	0.0	0.0	0.0	-0.5	0.5	1.0	3.5	18	12.2	20.4	11.2
12	25.8	ENE	10:17	2.0	0.0	0.0	0.0	-0.5	0.5	1.0	3.5	18	8.2	17.1	10.7
13	58.6	ENE	22:39	2.5	0.0	0.0	-0.5	-0.5	0.5	1.0	3.5	19	6.3	11.7	7.2
14	61.5	E	4:00	3.5	0.0	0.0	0.0	-0.5	0.0	1.0	3.5	20	0.0	1.6	1.4
15	39.3	SW	1:01	1.0	0.0	-0.5	-0.5	-1.0	0.0	1.0	3.0	23	3.8	12.1	10.1
16	27.8	NNE	4:23	-9.0	0.0	-0.5	-0.5	-0.5	0.0	1.0	3.5	21	7.5	16.3	12.1
17	21.9	SSW	11:36	-2.0	0.0	0.0	0.0	-0.5	0.0	1.0	3.5	20	13.2	17.7	11.4
18	28.8	E	12:50	2.0	0.0	0.0	0.0	0.0	0.5	1.0	3.5	20	10.1	19.7	11.7
19	29.8	N	19:09	5.5	0.0	0.0	0.0	0.0	0.5	1.0	3.5	21	9.3	15.2	10.2
20	27.7	SE	12:37	5.0	0.0	0.0	0.0	0.0	0.5	1.0	3.5	21	9.9	18.9	9.7
21	54.3	SW	1:24	3.0	0.5	0.0	0.0	-0.5	0.5	1.0	3.5	22	5.4	13.1	11.1
22	25.0	NE	2:51	1.5	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	8.6	17.2	11.3
23	38.3	ESE	22:17	0.0	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	3.5	11.2	8.4
24	35.2	E	12:05	-1.5	0.0	0.0	0.0	-0.5	0.5	1.0	3.5	22	0.0	9.2	8.2
25	31.8	E	12:55	-2.0	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	5.2	13.9	7.9
26	30.9	SE	14:36	0.5	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	9.2	16.3	11.4
27	33.6	E	13:49	3.0	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	9.0	16.8	11.4
28	36.5	SSW	20:50	5.5	0.0	0.0	0.0	0.0	0.5	1.0	3.5	22	9.9	18.2	9.8
29	23.9	WNW	14:54	6.0	0.5	0.5	0.0	0.0	0.5	1.0	3.5	22	7.3	15.9	9.3
30	31.9	ESE	12:32	7.5	0.5	0.5	0.0	0.0	0.5	1.0	3.5	22	9.3	17.6	8.7
Total													241.1	458.6	290.0
Mean				2.1	0.0	-0.1	-0.2	-0.3	0.4	1.1	3.5	19.8			
Extreme	61.5	E	4:00												
Date	14														

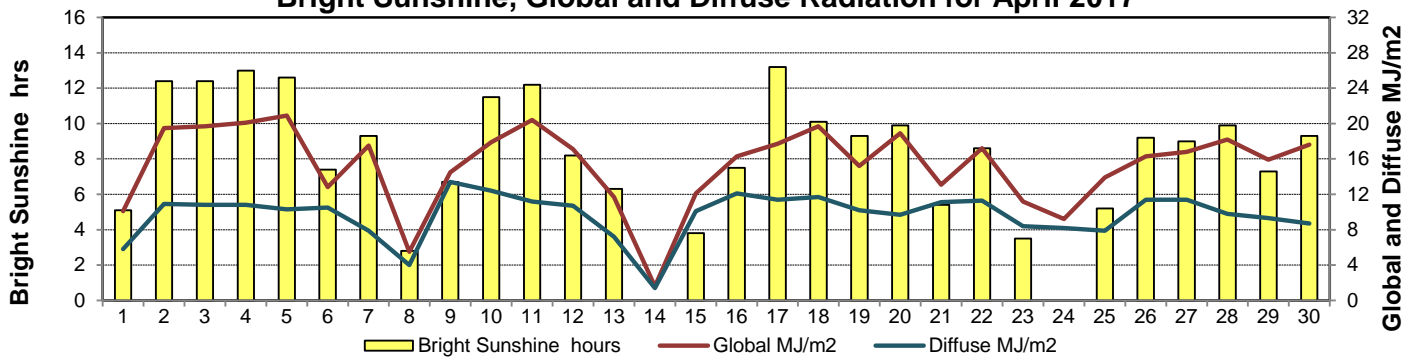
GLOSSARY OF TERMS

Degree-days	Radiation
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	Relative Humidity The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
SOG Depth of snow-on-the-ground	
Red Cell no data available	Air Pressure The force exerted by the weight of a column of air above a given point
Red Number manual calculation	Wind Gust The daily highest instantaneous value recorded irrespective of direction and/or duration

Wind Speed for April 2017

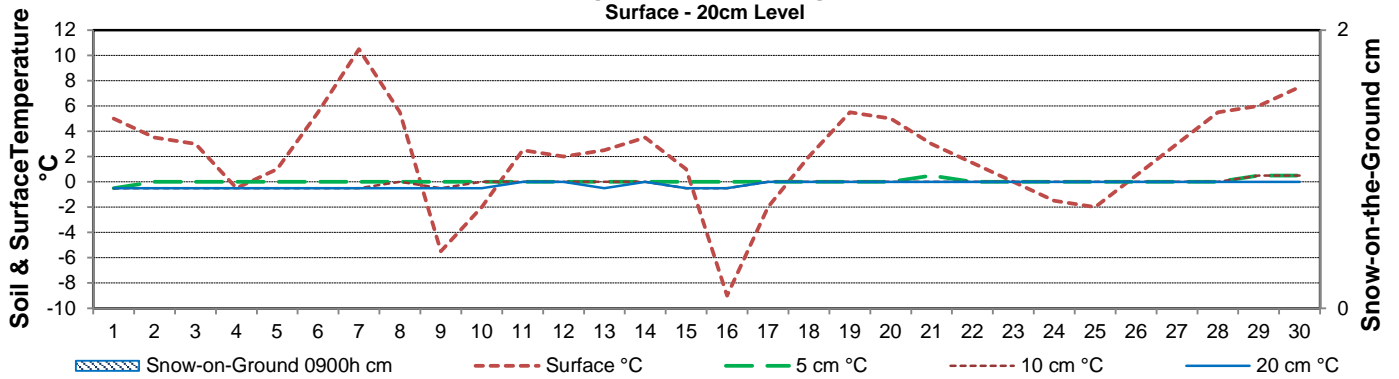


Bright Sunshine, Global and Diffuse Radiation for April 2017



Soil Temperatures for April 2017

Surface - 20cm Level



Soil Temperatures for April 2017

50 - 300cm Level

