



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

March 2017

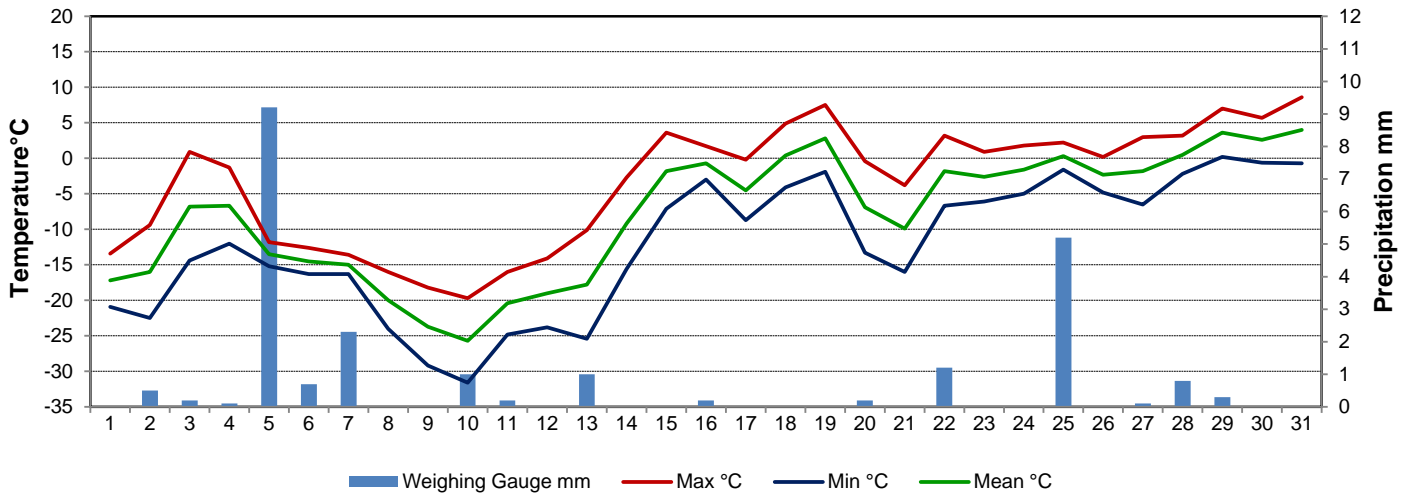
Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Notes:	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-13.4	-20.9	-17.2	0.0	35.2	0.0	0.0		5	78	60	1026	1013
2	-9.4	-22.5	-16.0	0.0	34.0	0.0	0.5		4	85	58	1028	1017
3	0.9	-14.4	-6.8	0.0	24.8	0.0	0.2		5	86	65	1017	1001
4	-1.3	-12.0	-6.7	0.0	24.7	0.0	0.1		4	90	76	1006	998
5	-11.8	-15.2	-13.5	0.0	31.5	0.0	9.2		6	89	83	1007	1003
6	-12.6	-16.3	-14.5	0.0	32.5	0.0	0.7		16	85	73	1003	998
7	-13.6	-16.3	-15.0	0.0	33.0	0.0	2.3		13	84	69	1014	996
8	-16.0	-24.0	-20.0	0.0	38.0	0.0	0.0		5	73	48	1028	1015
9	-18.2	-29.2	-23.7	0.0	41.7	0.0	0.0		5	73	37	1038	1028
10	-19.7	-31.6	-25.7	0.0	43.7	0.0	1.0		5	74	40	1038	1035
11	-16.0	-24.8	-20.4	0.0	38.4	0.0	0.2		5	70	47	1037	1029
12	-14.1	-23.8	-19.0	0.0	37.0	0.0	0.0		5	79	42	1033	1028
13	-10.1	-25.4	-17.8	0.0	35.8	0.0	1.0		5	81	64	1031	1018
14	-2.7	-15.6	-9.2	0.0	27.2	0.0	0.0		5	84	66	1018	1013
15	3.6	-7.1	-1.8	0.0	19.8	0.0	0.0		4	92	69	1013	1004
16	1.7	-3.0	-0.7	0.0	18.7	0.0	0.2		3	92	66	1016	1002
17	-0.2	-8.7	-4.5	0.0	22.5	0.0	0.0		3	74	51	1024	1016
18	4.9	-4.1	0.4	0.0	17.6	0.0	0.0		2	79	57	1020	993
19	7.5	-1.9	2.8	0.0	15.2	0.0	0.0		-	81	34	1014	990
20	-0.4	-13.3	-6.9	0.0	24.9	0.0	0.2		-	84	46	1031	1014
21	-3.8	-16.0	-9.9	0.0	27.9	0.0	0.0		-	87	45	1031	1020
22	3.2	-6.7	-1.8	0.0	19.8	0.0	1.2		-	86	57	1020	998
23	0.9	-6.1	-2.6	0.0	20.6	0.0	0.0		-	88	58	1017	1002
24	1.8	-5.0	-1.6	0.0	19.6	0.0	0.0		-	83	59	1020	1010
25	2.2	-1.6	0.3	0.0	17.7	0.0	5.2		-	93	78	1010	1001
26	0.2	-4.8	-2.3	0.0	20.3	0.0	0.0		-	92	75	1013	1010
27	3.0	-6.5	-1.8	0.0	19.8	0.0	0.1		-	94	62	1018	1013
28	3.2	-2.2	0.5	0.0	17.5	0.0	0.8		-	91	82	1018	1014
29	7.0	0.2	3.6	0.0	14.4	0.0	0.3		-	95	73	1014	1008
30	5.7	-0.6	2.6	0.0	15.4	0.0	0.0		-	89	65	1017	1008
31	8.6	-0.7	4.0	0.0	14.0	0.0	0.0		-	87	53	1022	1017
Total				0.0	803.2	0.0	23.2						
Avg	-3.5	-12.3	-7.9				47.3	Cumulative ppt					
Extreme	8.6	-31.6					9.2		16	95	34	1038	990
Date	31	10					5		6	29	19	9	19

Mar 13, 2017 datalogger program changes. Missing 13/3/2017 13:30 data

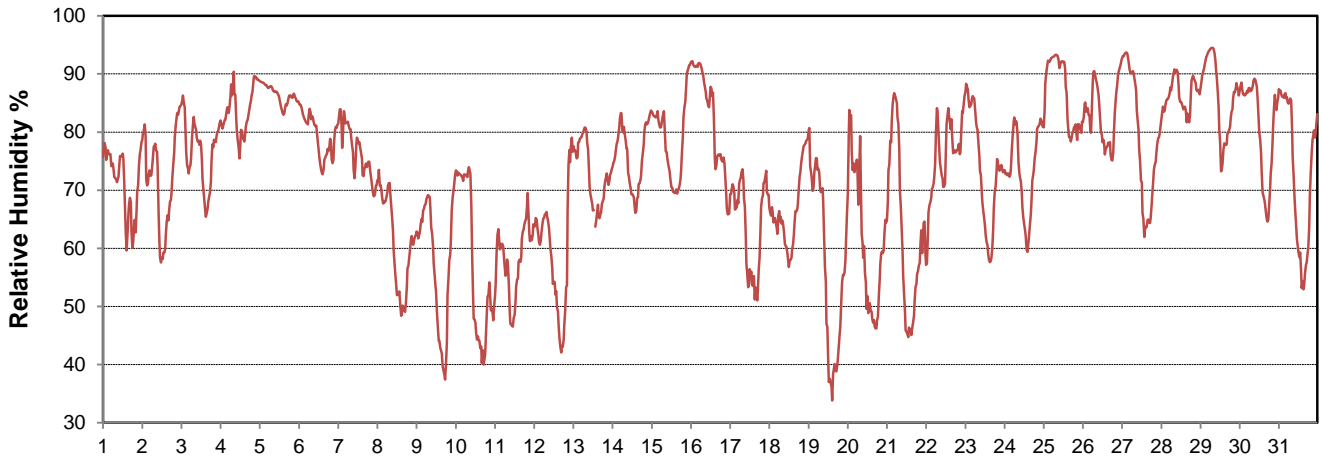
SRC proudly recognizes the following CRS supporters:



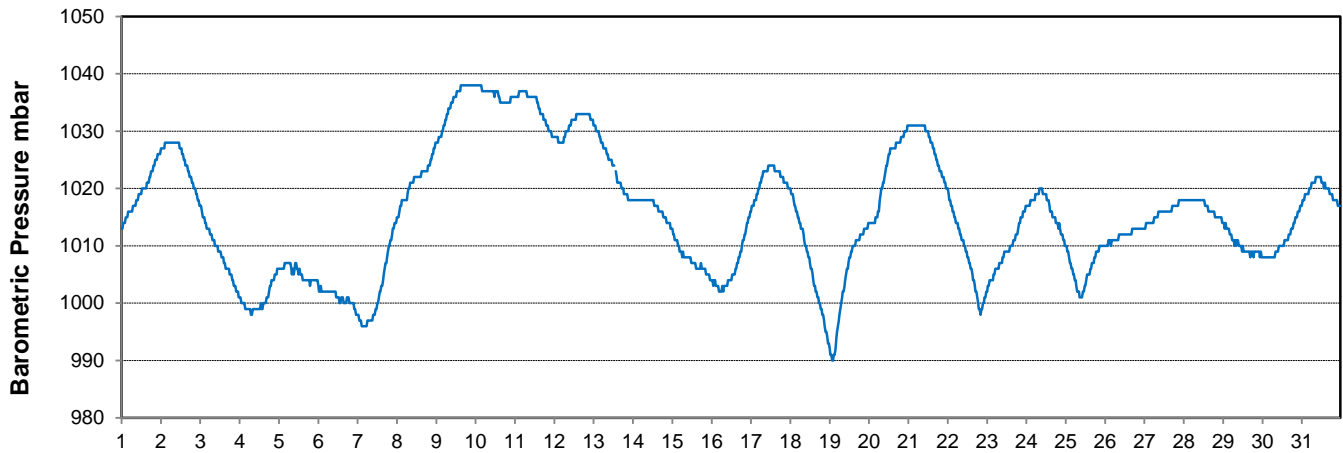
Temperature and Precipitation for March 2017



Relative Humidity for March 2017



Barometric Pressure Corrected to Sea Level for March 2017





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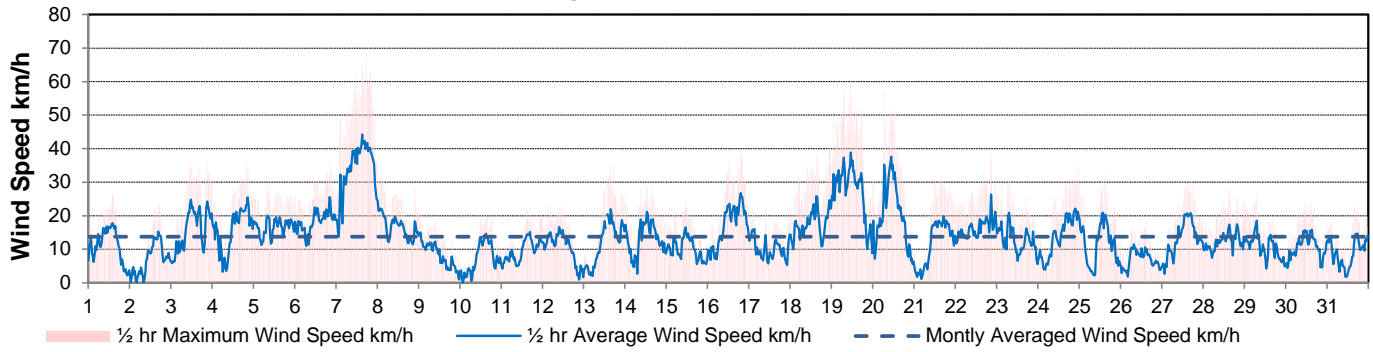
March 2017

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	26.6	E	14:29	-15.5	-4.0	-3.5	-2.0	-0.5	0.5	2.0	4.5	12	4.1	7.7	6.3
2	23.1	SSE	16:59	-17.0	-4.5	-4.0	-2.5	-0.5	0.5	2.0	4.5	12	6.5	10.2	4.7
3	36.3	SSE	11:53	-6.5	-4.0	-4.0	-2.5	-1.0	0.5	2.0	4.5	12	6.6	10.2	4.8
4	35.9	NNW	20:39	-6.0	-3.0	-2.5	-2.0	-1.0	0.5	1.5	4.5	13	3.7	8.2	4.5
5	29.8	NE	8:06	-12.5	-3.5	-3.0	-2.0	-1.0	0.5	1.5	4.5	13	0.0	4.9	4.4
6	36.0	NNW	20:22	-13.5	-3.0	-2.5	-2.0	-1.0	0.5	1.5	4.5	13	0.0	6.0	5.5
7	67.5	NNW	17:43	-12.0	-3.0	-2.5	-2.0	-1.0	0.5	1.5	4.0	13	0.0	7.1	6.4
8	35.5	NW	0:24	-20.5	-4.0	-3.5	-2.5	-1.0	0.5	1.5	4.5	13	10.0	14.0	3.2
9	20.9	N	0:00	-23.5	-5.0	-4.5	-3.0	-1.0	0.5	1.5	4.5	12	11.1	14.7	2.2
10	20.9	E	15:05	-21.5	-6.5	-5.5	-3.5	-1.0	0.5	1.5	4.5	12	8.9	12.7	6.9
11	21.4	ENE	15:20	-19.0	-6.0	-5.5	-4.0	-1.5	0.5	1.5	4.5	12	10.2	13.3	6.2
12	23.2	E	4:32	-19.0	-6.0	-5.5	-4.0	-1.5	0.5	1.5	4.0	12	10.3	14.7	3.7
13	35.4	SSE	15:45	-15.0	-6.5	-6.0	-4.5	-1.5	0.5	1.5	4.0	12	3.9	9.4	7.5
14	29.5	S	16:15	-11.0	-5.5	-5.0	-4.0	-2.0	0.5	1.5	4.0	12	9.2	14.3	3.1
15	25.3	SSE	11:07	-5.0	-4.0	-4.0	-3.5	-1.5	0.5	1.5	4.0	12	10.5	14.5	3.5
16	38.2	N	19:51	-1.5	-1.0	-1.5	-2.0	-1.5	0.5	1.5	4.0	13	0.0	4.4	4.0
17	23.3	NNW	2:21	-6.5	-1.5	-1.5	-1.5	-1.0	0.5	1.5	4.0	13	9.9	15.8	2.3
18	40.3	S	22:50	-1.5	-1.5	-1.5	-1.0	-1.0	0.5	1.5	4.0	13	6.5	11.7	5.9
19	60.7	NW	11:09	3.0	-0.5	-1.0	-1.0	-1.0	0.5	1.5	4.0	14	10.1	16.1	2.3
20	56.5	NNW	6:36	-8.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	15	10.1	16.1	3.7
21	32.3	SE	16:13	-10.5	-3.5	-3.0	-1.5	-0.5	0.5	1.5	4.0	14	10.7	16.5	4.3
22	39.1	SW	20:42	-4.0	-2.5	-2.0	-1.5	-0.5	0.5	1.5	4.0	14	0.0	3.0	2.7
23	30.5	NW	7:23	-4.0	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.0	14	10.3	15.6	4.4
24	35.8	ESE	23:13	-2.5	-1.5	-1.5	-1.0	-0.5	0.5	1.5	4.0	14	7.6	14.4	6.3
25	32.5	WNW	15:11	0.0	-0.5	-1.0	-1.0	-0.5	0.5	1.5	4.0	14	1.3	6.8	5.8
26	18.8	NE	15:17	-1.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	15	2.0	6.6	5.5
27	29.9	E	15:16	-3.0	-1.0	-1.0	-0.5	-0.5	0.5	1.5	4.0	15	10.6	17.8	5.6
28	28.3	ESE	15:11	0.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	15	0.0	4.6	4.2
29	26.7	E	7:06	1.5	-0.5	-0.5	-0.5	-0.5	0.0	1.0	3.5	16	4.1	11.3	8.7
30	24.1	NE	14:32	1.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	16	1.4	7.6	6.7
31	22.9	SW	16:16	2.5	-0.5	-0.5	-0.5	-0.5	0.0	1.5	3.5	16	10.6	16.3	11.4
Total													190.2	346.5	156.7
Mean				-8.1	-2.8	-2.6	-1.9	-0.9	0.5	1.5	4.1	13.4			
Extreme	67.5	NNW	17:43												
Date	7														

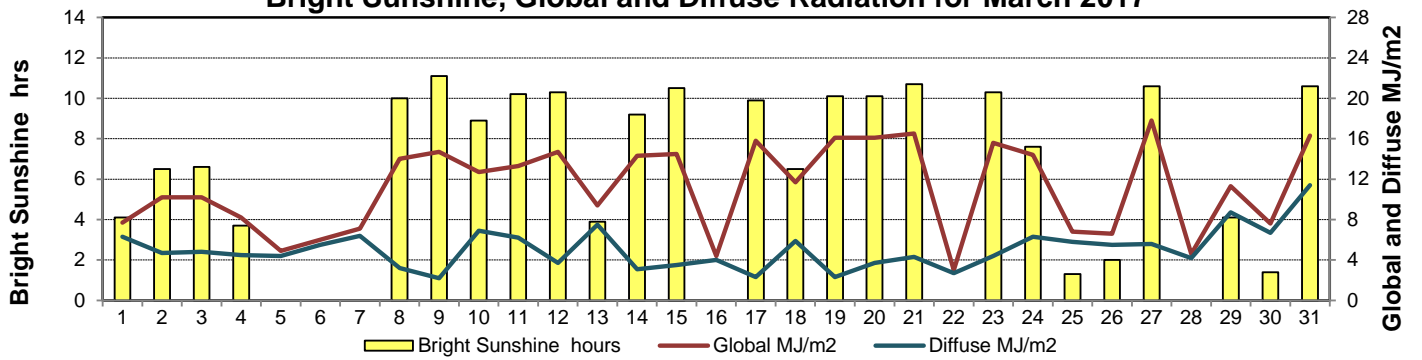
GLOSSARY OF TERMS

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

Wind Speed for March 2017

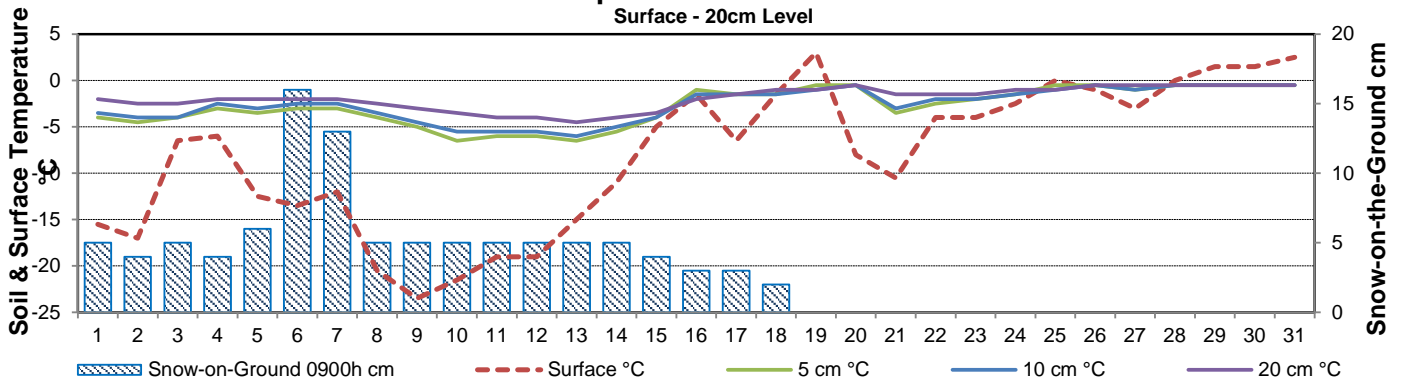


Bright Sunshine, Global and Diffuse Radiation for March 2017



Soil Temperatures for March 2017

Surface - 20cm Level



Soil Temperatures for March 2017

50 - 300cm Level

