



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

March 2018

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	-6.3	-20.1	-13.2	0.0	31.2	0.0	0.0		19	88	53	1026	1012
2	-10.1	-24.2	-17.2	0.0	35.2	0.0	0.0		19	86	67	1028	1026
3	-6.3	-11.2	-8.8	0.0	26.8	0.0	2.2		20	90	82	1026	1023
4	-7.5	-11.9	-9.7	0.0	27.7	0.0	2.6		27	89	79	1023	1019
5	-8.6	-11.6	-10.1	0.0	28.1	0.0	7.4		38	89	74	1020	1016
6	-2.8	-15.9	-9.4	0.0	27.4	0.0	0.6		43	89	63	1024	1020
7	-6.6	-26.5	-16.6	0.0	34.6	0.0	0.0		40	85	56	1023	1017
8	-9.4	-24.2	-16.8	0.0	34.8	0.0	0.0		40	85	62	1017	1010
9	-7.7	-23.8	-15.8	0.0	33.8	0.0	0.0		39	84	70	1010	1003
10	4.4	-10.5	-3.1	0.0	21.1	0.0	0.0		38	87	37	1019	1007
11	3.2	-17.6	-7.2	0.0	25.2	0.0	0.0		38	88	44	1026	1020
12	-0.6	-19.8	-10.2	0.0	28.2	0.0	0.0		37	88	60	1028	1024
13	1.1	-15.4	-7.2	0.0	25.2	0.0	0.0		37	88	61	1024	1015
14	-3.7	-18.4	-11.1	0.0	29.1	0.0	0.0		36	88	71	1017	1015
15	-5.7	-18.6	-12.2	0.0	30.2	0.0	0.0		36	85	64	1015	1013
16	-1.3	-15.7	-8.5	0.0	26.5	0.0	0.0		36	83	61	1013	1012
17	-0.7	-3.5	-2.1	0.0	20.1	0.0	0.0		36	88	80	1013	1011
18	-2.4	-9.4	-5.9	0.0	23.9	0.0	0.0		35	88	63	1021	1013
19	-6.2	-13.1	-9.7	0.0	27.7	0.0	0.0		35	85	66	1022	1015
20	0.1	-6.9	-3.4	0.0	21.4	0.0	0.0		35	88	71	1015	1010
21	1.7	-12.5	-5.4	0.0	23.4	0.0	0.0		34	91	67	1020	1010
22	0.1	-16.5	-8.2	0.0	26.2	0.0	0.0		33	90	68	1025	1020
23	-1.8	-7.0	-4.4	0.0	22.4	0.0	1.9		34	90	79	1023	1012
24	2.7	-2.2	0.3	0.0	17.7	0.0	0.7		37	91	63	1011	1004
25	2.0	-12.1	-5.1	0.0	23.1	0.0	7.7		43	95	54	1012	1002
26	2.5	-12.6	-5.1	0.0	23.1	0.0	0.0		51	91	55	1012	1006
27	-3.8	-13.7	-8.8	0.0	26.8	0.0	2.6		50	85	60	1010	1004
28	-5.9	-23.6	-14.8	0.0	32.8	0.0	0.0		50	84	51	1017	1011
29	-11.1	-25.6	-18.4	0.0	36.4	0.0	0.0		54	77	33	1026	1018
30	-8.7	-34.4	-21.6	0.0	39.6	0.0	0.0		53	74	31	1024	1019
31	-5.5	-23.9	-14.7	0.0	32.7	0.0	0.0		53	68	39	1025	1017
Total				0.0	862.4	0.0	25.7						
Avg	-3.4	-16.2	-9.8				50.5	Cumulative ppt					
Extreme	4.4	-34.4					7.7		54	95	31	1028	1002
Date	10	30					25		29	25	30	2	25

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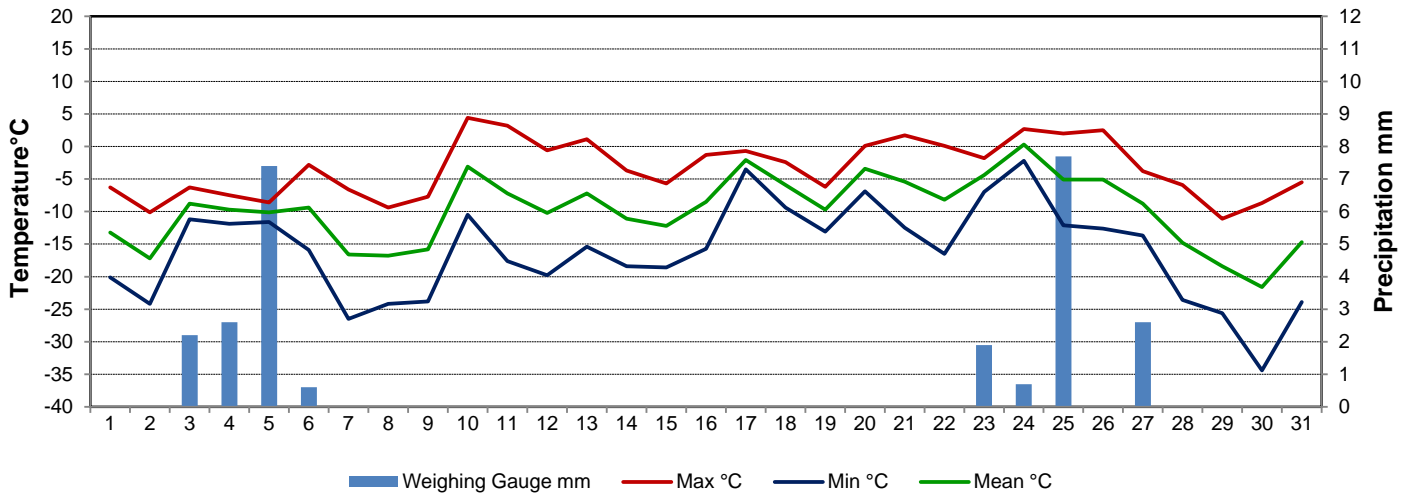
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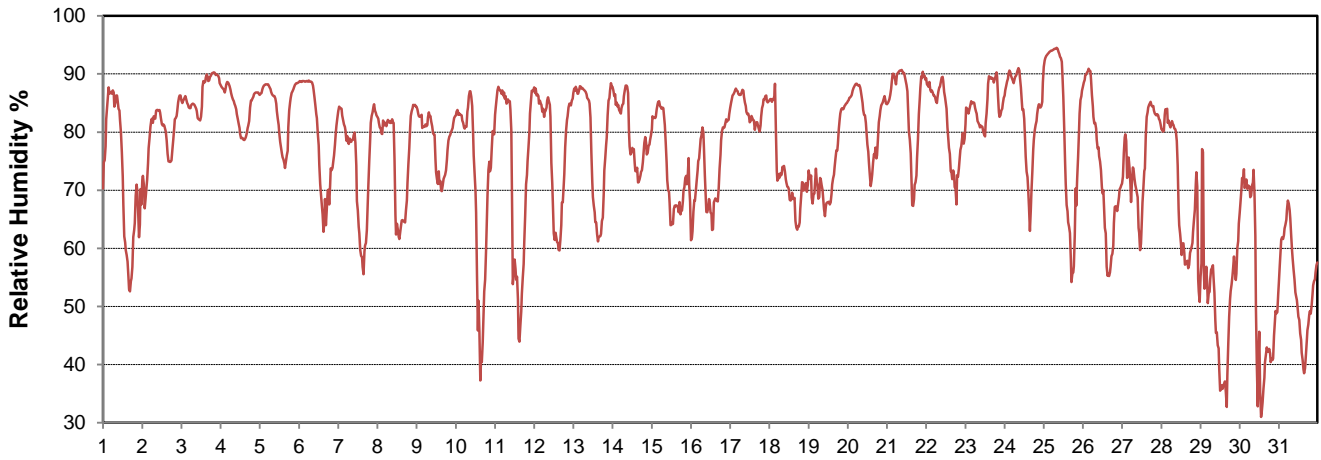


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WHEN MEASUREMENTS MATTER

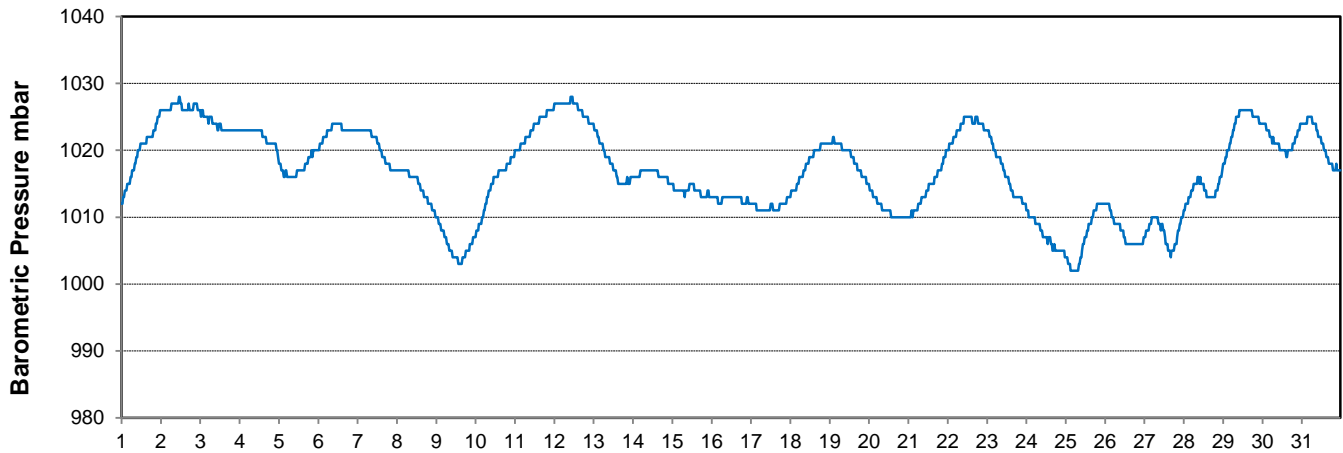
Temperature and Precipitation for March 2018



Relative Humidity for March 2018



Barometric Pressure Corrected to Sea Level for March 2018





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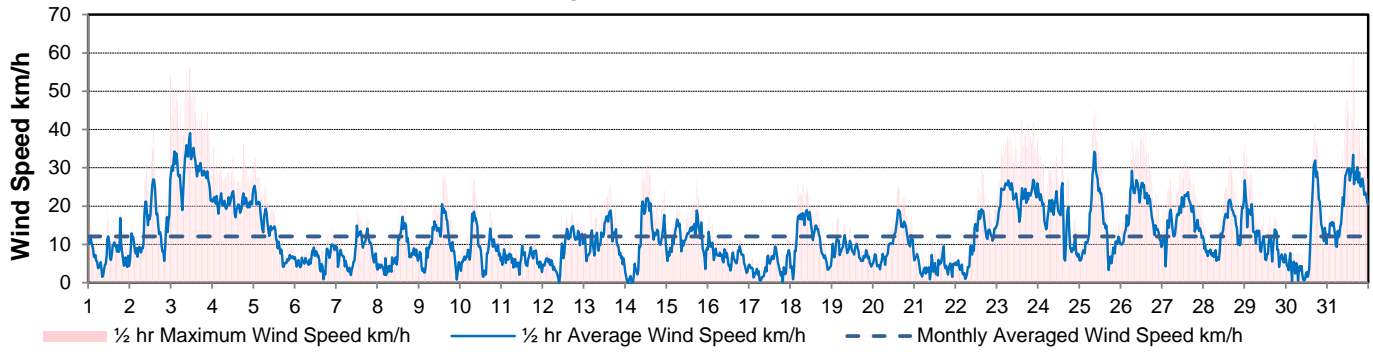
March 2018

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	18.9	N	11:20	-16.5	-3.5	-3.5	-2.5	-1.0	0.0	1.5	4.0	11	10.3	14.7	2.2
2	54.1	ESE	23:54	-18.0	-3.5	-3.5	-2.5	-1.0	0.0	1.5	4.0	11	4.6	10.1	7.1
3	56.2	ESE	10:48	-7.5	-4.0	-3.5	-3.0	-1.5	0.0	1.5	4.0	11	0.0	4.3	4.0
4	36.1	NE	18:08	-8.0	-3.5	-3.5	-2.5	-1.5	0.0	1.0	3.5	12	0.0	5.7	5.2
5	32.7	NE	1:00	-9.0	-3.0	-3.0	-2.5	-1.5	0.0	1.0	3.5	12	0.0	8.5	7.7
6	13.9	W	21:42	-7.0	-3.0	-3.0	-2.5	-1.0	0.0	1.5	4.0	12	4.4	5.7	4.2
7	20.0	SSW	12:07	-15.0	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	12	10.8	11.0	2.9
8	21.9	S	14:24	-12.5	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	12	8.5	14.1	3.2
9	28.2	E	15:05	-13.0	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	12	1.3	9.3	7.8
10	27.1	NW	8:05	-7.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	4.0	12	8.2	13.5	4.3
11	11.7	S	1:48	-13.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	4.0	12	10.9	15.6	2.9
12	18.9	S	17:54	-13.5	-2.5	-2.0	-2.0	-1.0	0.0	1.0	4.0	12	11.0	16.1	2.8
13	25.5	SW	15:07	-11.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	4.0	12	10.6	16.4	5.5
14	30.9	E	12:48	-10.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	4.0	12	11.2	17.9	3.0
15	26.4	E	17:57	-14.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	4.0	12	11.4	17.9	3.0
16	17.7	E	0:34	-11.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	12	3.0	9.7	7.7
17	12.6	NE	15:27	-3.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	12	0.0	6.4	5.9
18	26.1	E	4:03	-6.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	12	0.0	7.6	6.9
19	17.1	ENE	3:58	-10.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	12	3.9	11.4	8.5
20	25.5	S	14:34	-4.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	13	0.4	10.9	9.7
21	13.1	S	17:09	-6.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	13	7.5	14.9	6.2
22	30.6	ESE	15:24	-10.0	-1.5	-1.5	-1.5	-0.5	0.0	1.0	3.5	13	10.0	16.3	5.8
23	43.1	ESE	14:02	-6.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	13	0.0	6.4	5.8
24	38.0	S	14:02	-1.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0	13	2.1	11.9	10.0
25	45.0	N	9:05	-0.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	13	7.9	13.4	6.2
26	39.4	SW	14:56	-5.0	-1.5	-1.5	-1.0	-1.0	0.0	1.0	3.5	13	9.8	18.4	4.8
27	31.2	ENE	13:59	-9.0	-1.5	-1.5	-1.0	-0.5	0.0	1.0	3.5	13	0.4	10.3	9.3
28	34.2	N	23:59	-11.5	-1.5	-1.5	-1.0	-0.5	0.0	1.0	3.5	13	10.0	19.6	12.8
29	36.1	NNE	0:21	-11.0	-1.5	-1.5	-1.0	-0.5	0.0	1.0	3.5	13	12.6	20.5	10.0
30	42.0	NW	16:04	-14.5	-1.5	-1.5	-1.0	-0.5	0.0	1.0	3.5	13	11.5	19.8	10.3
31	59.5	NW	15:19	-10.5	-2.0	-1.5	-1.0	-0.5	0.0	1.0	3.5	13	12.6	20.5	13.3
Total													194.9	398.8	199.0
Mean				-9.6	-2.2	-2.2	-1.7	-1.0	0.0	1.1	3.7	12.3			
Extreme	59.5	NW	15:19												
Date	31														

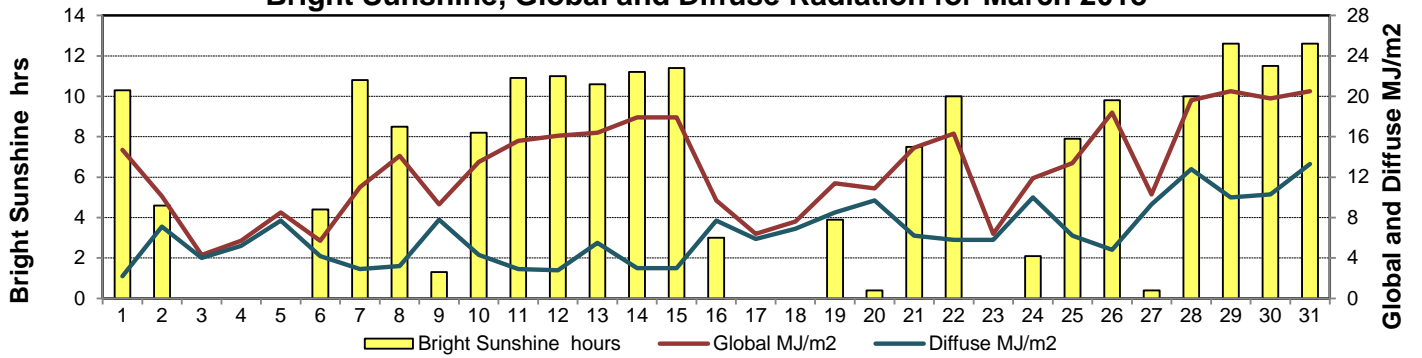
GLOSSARY OF TERMS

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 March 2018

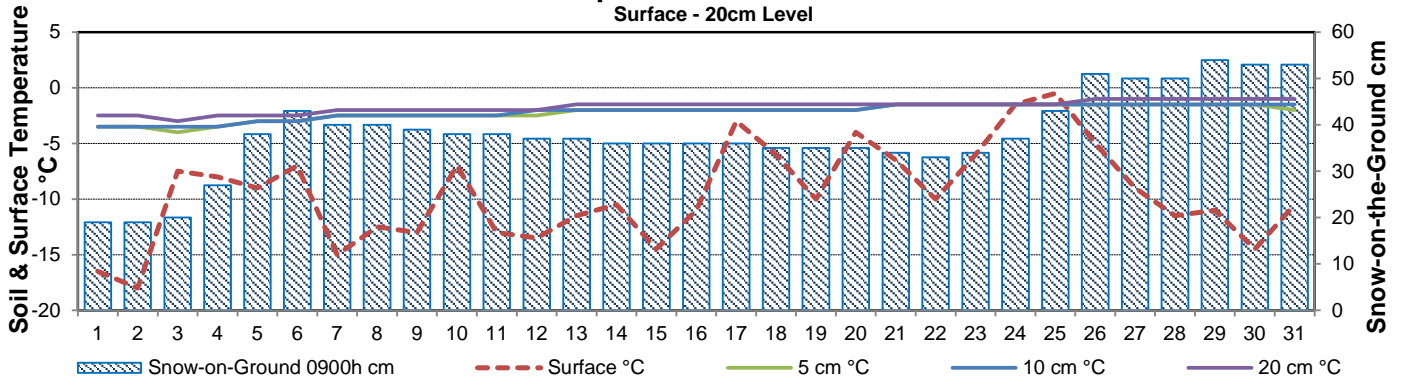


Bright Sunshine, Global and Diffuse Radiation for March 2018



Soil Temperatures for March 2018

Surface - 20cm Level



Soil Temperatures for March 2018

50 - 300cm Level

