



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary **December 2018**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Comments	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	-4.3	-6.2	-5.3	0.0	23.3	0.0	0.4		13	99	97	1017	1012
2	-4.8	-7.3	-6.1	0.0	24.1	0.0	0.0		12	99	97	1019	1017
3	-5.8	-11.0	-8.4	0.0	26.4	0.0	1.6		13	98	94	1019	1013
4	-6.1	-10.6	-8.4	0.0	26.4	0.0	1.0		17	94	88	1014	1010
5	-7.4	-15.2	-11.3	0.0	29.3	0.0	0.9		20	94	75	1025	1010
6	-8.3	-16.5	-12.4	0.0	30.4	0.0	0.0		18	91	83	1023	1016
7	-13.2	-22.5	-17.9	0.0	35.9	0.0	0.9		18	92	76	1018	1014
8	-9.3	-23.4	-16.4	0.0	34.4	0.0	0.2		17	91	74	1019	1014
9	-6.3	-16.5	-11.4	0.0	29.4	0.0	0.0		17	92	66	1019	1014
10	-9.6	-20.0	-14.8	0.0	32.8	0.0	0.9		16	93	84	1014	1006
11	-3.6	-13.7	-8.7	0.0	26.7	0.0	0.0		16	97	83	1007	994
12	2.6	-5.5	-1.5	0.0	19.5	0.0	0.0		17	90	69	1003	990
13	-1.2	-12.7	-7.0	0.0	25.0	0.0	0.0		16	84	72	1006	1000
14	3.1	-10.8	-3.9	0.0	21.9	0.0	0.0		16	90	68	1008	996
15	5.9	-5.2	0.4	0.0	17.6	0.0	0.0		16	84	57	1010	992
16	-5.1	-16.2	-10.7	0.0	28.7	0.0	0.0		16	87	70	1021	1011
17	-4.4	-15.3	-9.9	0.0	27.9	0.0	0.0		16	95	78	1016	1001
18	-0.7	-12.3	-6.5	0.0	24.5	0.0	0.0		15	99	82	1003	994
19	-3.8	-13.7	-8.8	0.0	26.8	0.0	0.0		16	98	88	1010	995
20	-0.4	-12.2	-6.3	0.0	24.3	0.0	0.0		15	97	81	1013	999
21	2.7	-5.3	-1.3	0.0	19.3	0.0	0.0		15	88	78	1000	990
22	-4.8	-10.0	-7.4	0.0	25.4	0.0	0.0		16	86	75	1015	1001
23	-7.9	-11.2	-9.6	0.0	27.6	0.0	0.0		16	90	80	1016	1014
24	-11.2	-17.7	-14.5	0.0	32.5	0.0	0.0		16	92	88	1023	1016
25	-16.0	-22.8	-19.4	0.0	37.4	0.0	0.3		15	90	86	1025	1023
26	-8.9	-22.9	-15.9	0.0	33.9	0.0	1.0		15	94	85	1023	1018
27	-12.3	-28.8	-20.6	0.0	38.6	0.0	0.0		15	90	76	1026	1021
28	-8.1	-29.0	-18.6	0.0	36.6	0.0	2.3		15	95	83	1025	1009
29	-9.7	-18.9	-14.3	0.0	32.3	0.0	1.0		19	93	83	1008	1002
30	-17.7	-25.1	-21.4	0.0	39.4	0.0	0.2		18	86	64	1028	1002
31	-22.3	-33.1	-27.7	0.0	45.7	0.0	0.0		20	85	68	1033	1023
Total				0.0	904.0	0.0	10.7	0					
Avg	-6.4	-15.9	-11.2				349.5	Cumulative ppt					
Extreme	5.9	-33.1					2.3	0.0	20	99	57	1033	990
Date	15	31					28			1	15	31	12

Program update 18 Dec 2018

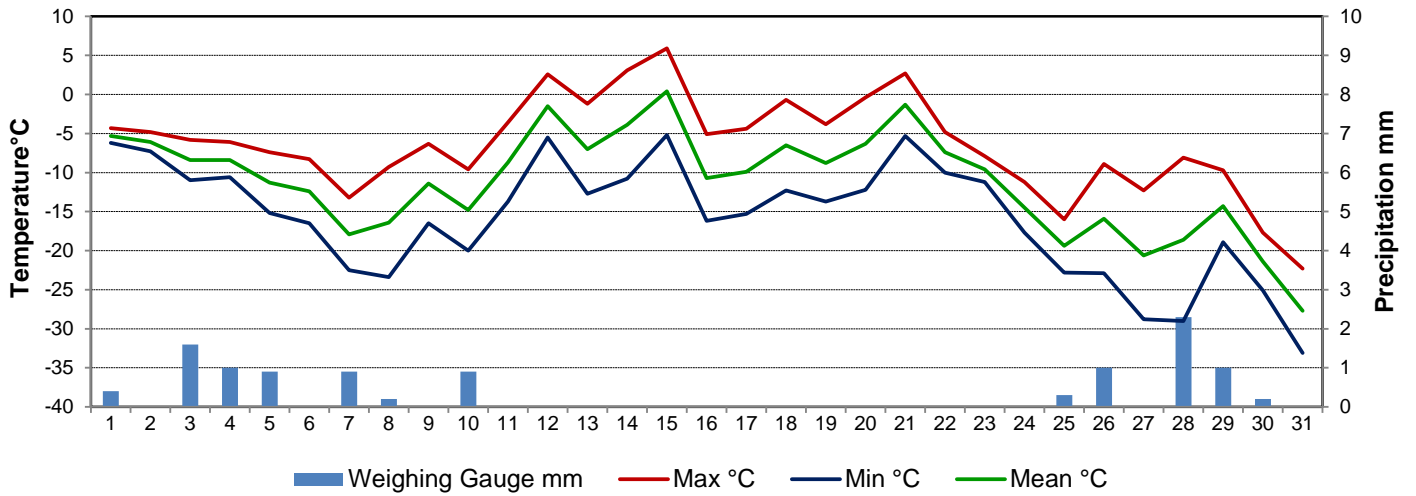
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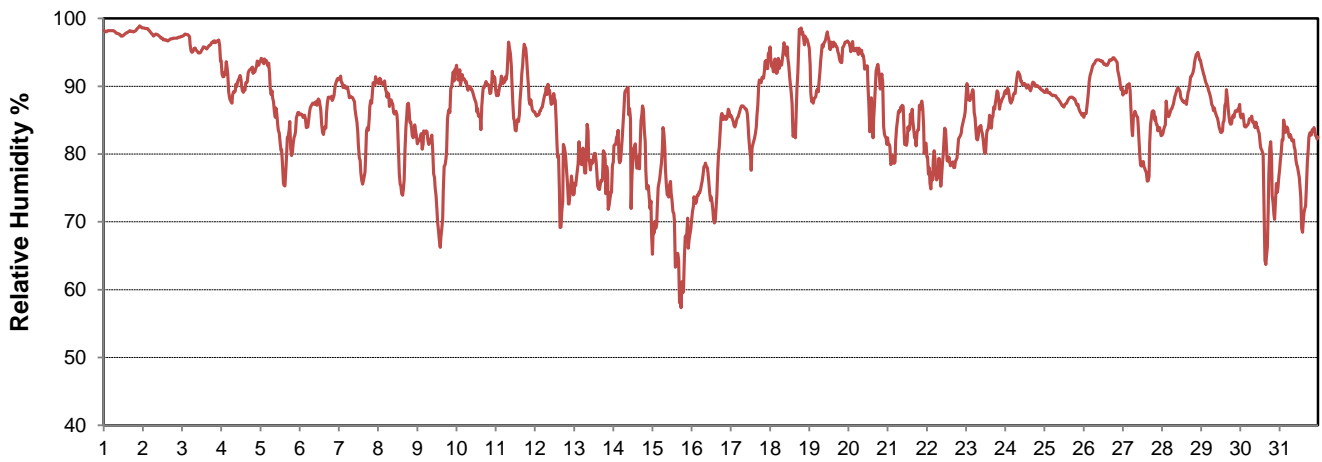
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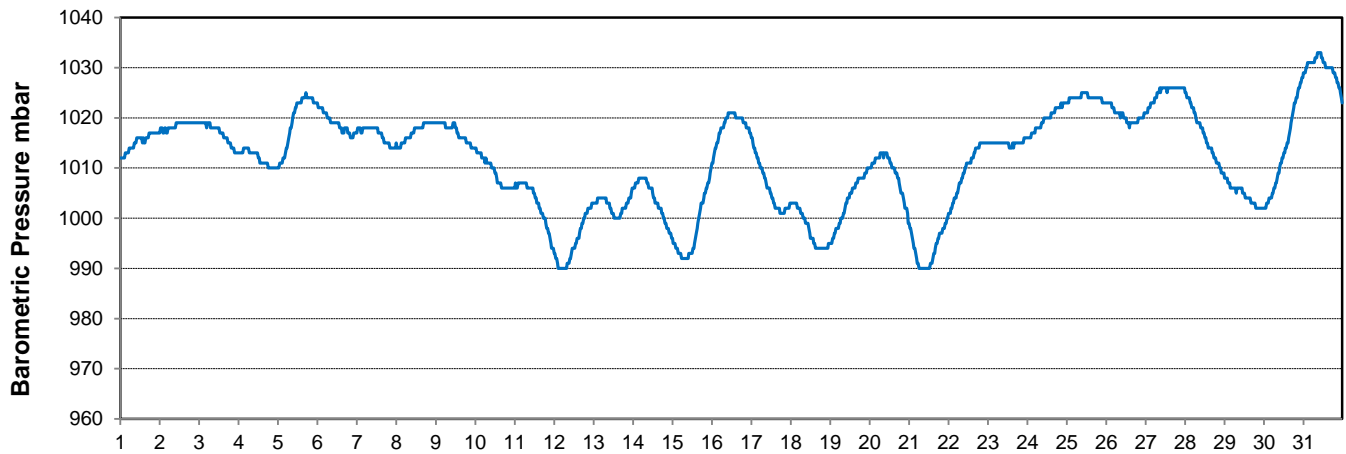
Temperature and Precipitation for December 2018



Relative Humidity for December 2018



Barometric Pressure Corrected to Sea Level for December 2018





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

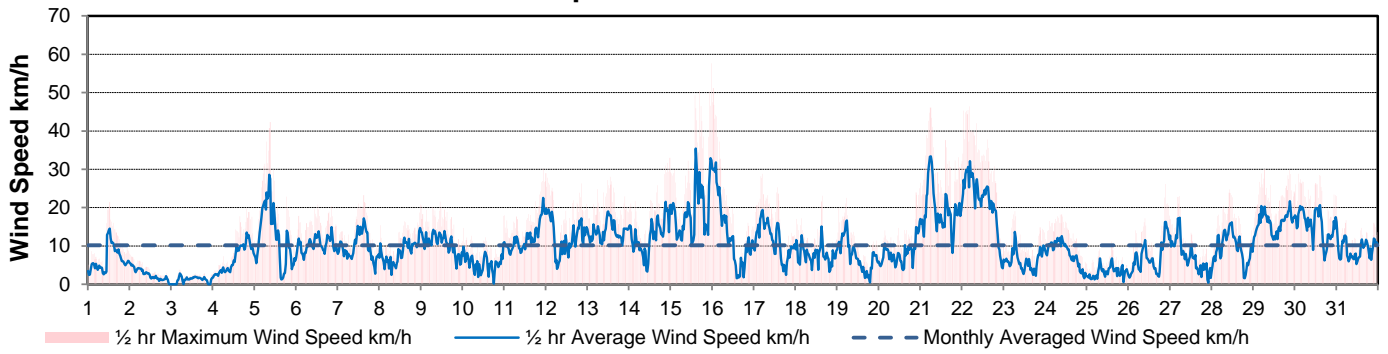
Preliminary **December 2018**

Day	Wind Gust			Soil Temperatures at 0900hrs								Radiation		
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	MJ/m ²	MJ/m ²
1	21.4	ENE	12:34	-4.5	-0.5	-0.5	0.5	1.5	3.0	4.5	6.0	0.0	1.3	1.2
2	8.0	E	0:01	-4.5	0.0	0.0	0.5	1.5	3.0	4.5	6.0	0.0	1.4	1.3
3	3.8	SSW	4:58	-7.5	-0.5	0.0	0.5	1.5	3.0	4.0	6.0	0.0	1.5	1.4
4	19.8	WSW	19:42	-7.5	-0.5	-0.5	0.0	1.5	3.0	4.0	6.0	0.0	2.1	1.8
5	42.3	N	9:07	-7.5	-0.5	-0.5	0.0	1.5	3.0	4.0	6.0	5.4	4.2	1.0
6	20.8	WSW	12:51	-8.5	-0.5	0.0	0.5	1.5	3.0	4.0	6.0	2.8	2.7	1.7
7	23.3	SSW	15:16	-9.5	-0.5	0.0	0.5	1.5	3.0	4.0	6.0	6.9	5.1	1.0
8	20.8	SW	23:59	-9.0	-0.5	0.0	0.5	1.5	3.0	4.0	6.0	6.9	5.2	1.1
9	21.5	SW	11:26	-11.5	-0.5	-0.5	0.0	1.5	3.0	4.0	6.0	7.1	3.7	0.8
10	17.9	SSW	23:56	-10.5	-0.5	-0.5	0.0	1.5	2.5	4.0	6.0	0.1	2.4	1.9
11	30.2	S	22:52	-6.5	-0.5	-0.5	0.0	1.0	2.5	4.0	6.0	6.7	4.8	0.9
12	29.0	SSE	0:16	-3.0	-0.5	-0.5	0.0	1.0	2.5	4.0	5.5	1.3	2.3	1.9
13	28.0	SW	13:20	-10.0	-0.5	-0.5	0.0	1.0	2.5	4.0	6.0	3.5	2.5	1.5
14	33.0	SW	23:56	-9.0	-0.5	-0.5	0.0	1.0	2.5	4.0	6.0	5.0	3.0	0.8
15	57.6	WNW	23:43	-0.5	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	5.2	2.9	0.9
16	51.2	NW	0:56	-13.5	-0.5	0.0	0.0	1.0	2.5	3.5	6.0	4.4	2.7	1.3
17	28.8	E	5:03	-11.5	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	4.6	2.5	1.3
18	23.1	SSW	15:37	-11.0	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	1.8	2.3	1.2
19	22.5	NW	5:46	-9.5	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	0.1	1.6	1.4
20	25.0	SE	23:32	-13.5	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	5.9	3.9	0.9
21	46.1	SSE	5:42	0.0	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	0.6	1.5	1.3
22	46.4	NW	4:43	-9.5	-0.5	-0.5	0.0	1.0	2.5	3.5	5.5	0.0	1.5	1.4
23	19.1	NW	6:58	-8.5	-0.5	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	1.7	1.6
24	18.2	NE	9:42	-13.5	-0.5	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	1.7	1.6
25	11.1	SSE	14:10	-16.5	-0.5	-0.5	0.0	1.0	2.0	3.5	5.5	3.2	2.9	1.7
26	26.2	NNE	21:37	-9.5	-1.0	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	1.5	1.4
27	23.0	NNE	5:46	-22.0	-0.5	-0.5	0.0	1.0	2.0	3.5	5.5	6.9	4.2	0.8
28	24.8	SW	10:35	-16.0	-1.0	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	1.5	1.4
29	30.1	E	6:54	-16.0	-1.0	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	1.7	1.6
30	28.8	NE	2:23	-16.0	-1.0	-0.5	0.0	1.0	2.0	3.5	5.5	0.0	2.2	2.0
31	23.0	N	0:06	-21.5	-1.0	-0.5	0.0	1.0	2.0	3.0	5.5	7.0	7.1	2.9
Total												85.4	85.6	43.0
Mean				-10.2	-0.6	-0.4	0.1	1.2	2.5	3.7	5.7			
Extreme	57.6	WNW	23:43											
Date	15													

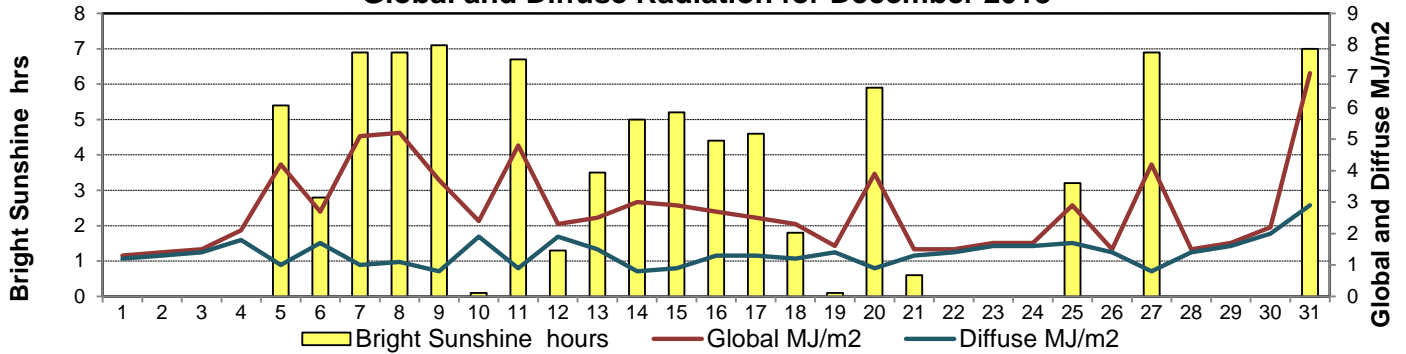
GLOSSARY OF TERMS

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 of 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 December 2018

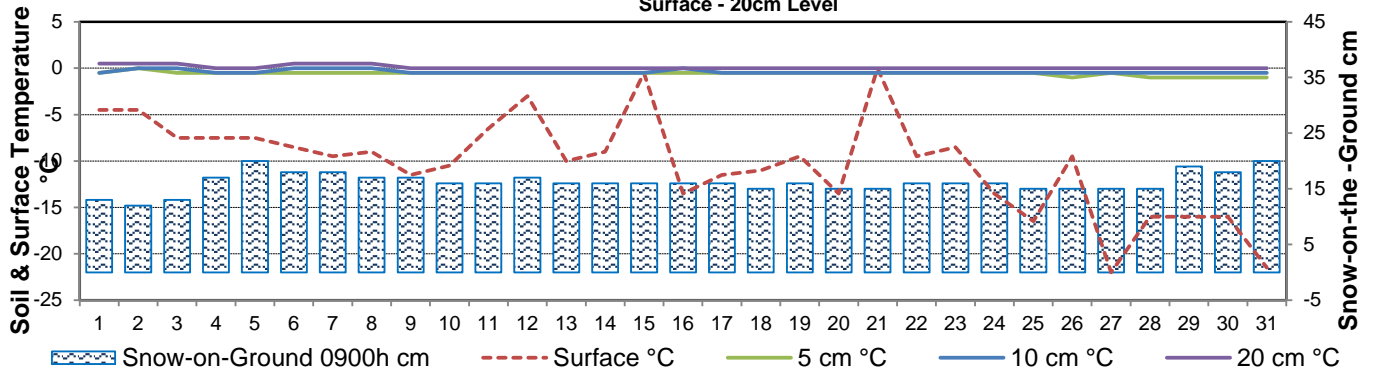


Global and Diffuse Radiation for December 2018



Soil Temperatures for December 2018

Surface - 20cm Level



Soil Temperatures for December 2018

50 - 300cm Level

