



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

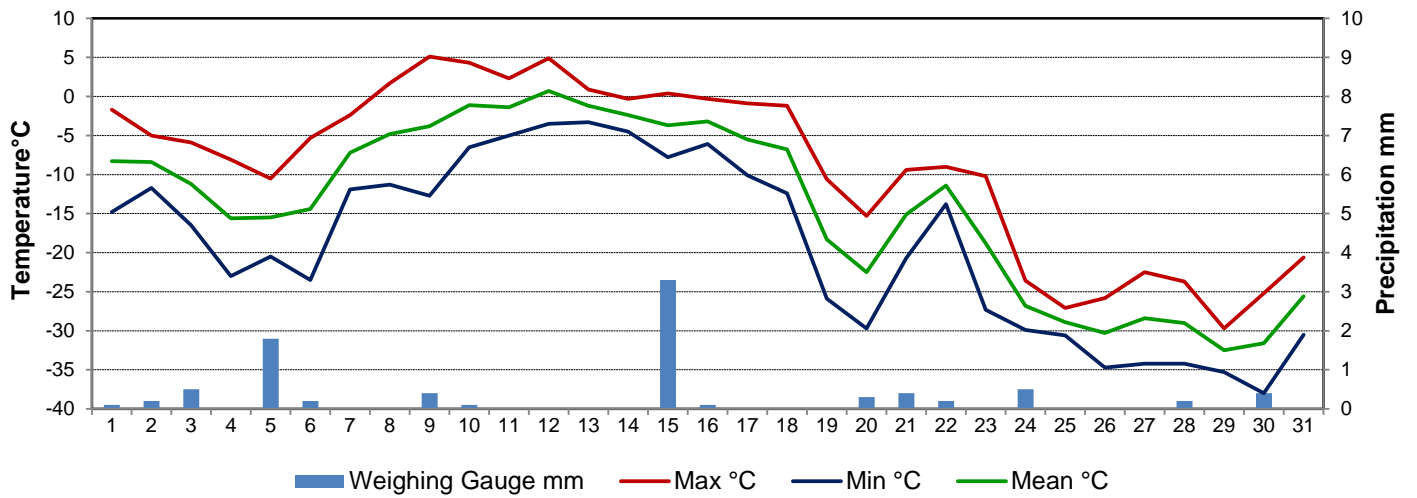
Preliminary **December 2017**

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	-1.7	-14.8	-8.3	0.0	26.3	0.0	0.1		9	91	62	1008	1006
2	-5.0	-11.7	-8.4	0.0	26.4	0.0	0.2		9	92	77	1009	1005
3	-5.9	-16.5	-11.2	0.0	29.2	0.0	0.5		9	91	79	1011	1007
4	-8.1	-23.0	-15.6	0.0	33.6	0.0	0.0		10	83	66	1017	1011
5	-10.5	-20.5	-15.5	0.0	33.5	0.0	1.8		10	87	81	1025	1010
6	-5.3	-23.5	-14.4	0.0	32.4	0.0	0.2		10	90	80	1032	1021
7	-2.4	-11.9	-7.2	0.0	25.2	0.0	0.0		11	90	71	1021	1015
8	1.7	-11.3	-4.8	0.0	22.8	0.0	0.0		12	86	62	1017	1015
9	5.1	-12.7	-3.8	0.0	21.8	0.0	0.4		11	87	47	1015	1008
10	4.3	-6.5	-1.1	0.0	19.1	0.0	0.1		10	84	64	1016	1007
11	2.3	-5.0	-1.4	0.0	19.4	0.0	0.0		7	88	74	1023	1016
12	4.9	-3.5	0.7	0.0	17.3	0.0	0.0		7	81	61	1016	1002
13	0.9	-3.3	-1.2	0.0	19.2	0.0	0.0		7	81	70	1017	1010
14	-0.3	-4.5	-2.4	0.0	20.4	0.0	0.0	data logger error for daily min temps (Dec 14)	5	87	71	1019	1007
15	0.4	-7.8	-3.7	0.0	21.7	0.0	3.3		5	93	79	1006	997
16	-0.3	-6.1	-3.2	0.0	21.2	0.0	0.1		8	84	76	1009	1001
17	-0.9	-10.1	-5.5	0.0	23.5	0.0	0.0		8	85	68	1008	994
18	-1.2	-12.4	-6.8	0.0	24.8	0.0	0.0		8	81	58	1007	994
19	-10.6	-25.9	-18.3	0.0	36.3	0.0	0.0		8	79	60	1020	1008
20	-15.3	-29.7	-22.5	0.0	40.5	0.0	0.3		8	82	66	1020	1018
21	-9.4	-20.7	-15.1	0.0	33.1	0.0	0.4		8	81	71	1019	1009
22	-9.0	-13.8	-11.4	0.0	29.4	0.0	0.2		8	86	59	1018	1014
23	-10.2	-27.3	-18.8	0.0	36.8	0.0	0.0		10	84	61	1020	1014
24	-23.6	-29.9	-26.8	0.0	44.8	0.0	0.5		9	75	59	1026	1018
25	-27.1	-30.6	-28.9	0.0	46.9	0.0	0.0		9	67	61	1031	1026
26	-25.8	-34.7	-30.3	0.0	48.3	0.0	0.0		9	72	58	1031	1028
27	-22.5	-34.2	-28.4	0.0	46.4	0.0	0.0		9	74	64	1028	1023
28	-23.7	-34.2	-29.0	0.0	47.0	0.0	0.2		8	76	67	1028	1024
29	-29.7	-35.3	-32.5	0.0	50.5	0.0	0.0		9	70	60	1037	1028
30	-25.2	-38.0	-31.6	0.0	49.6	0.0	0.4		9	70	61	1036	1033
31	-20.6	-30.5	-25.6	0.0	43.6	0.0	0.0		8	75	55	1038	1036
Total				0.0	991.0	0.0	8.7	0					
Avg	-8.9	-19.0	-14.0				264.4	Cumulative ppt					
Extreme	5.1	-38.0					3.3	0.0	12	93	47	1038	994
Date	9	30					15			15	9	31	17

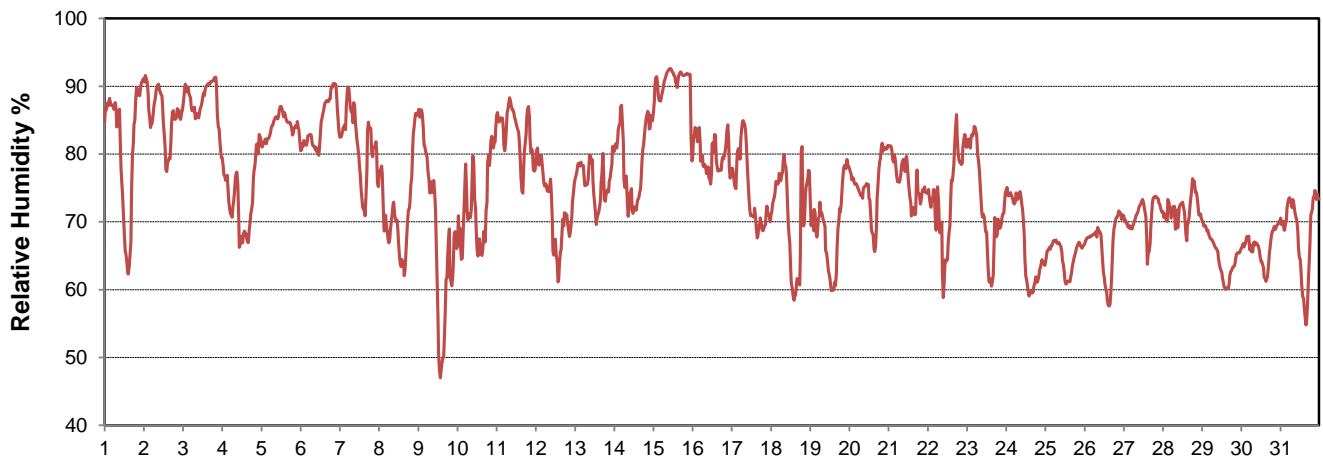
SRC proudly recognizes the following CRS supporters:



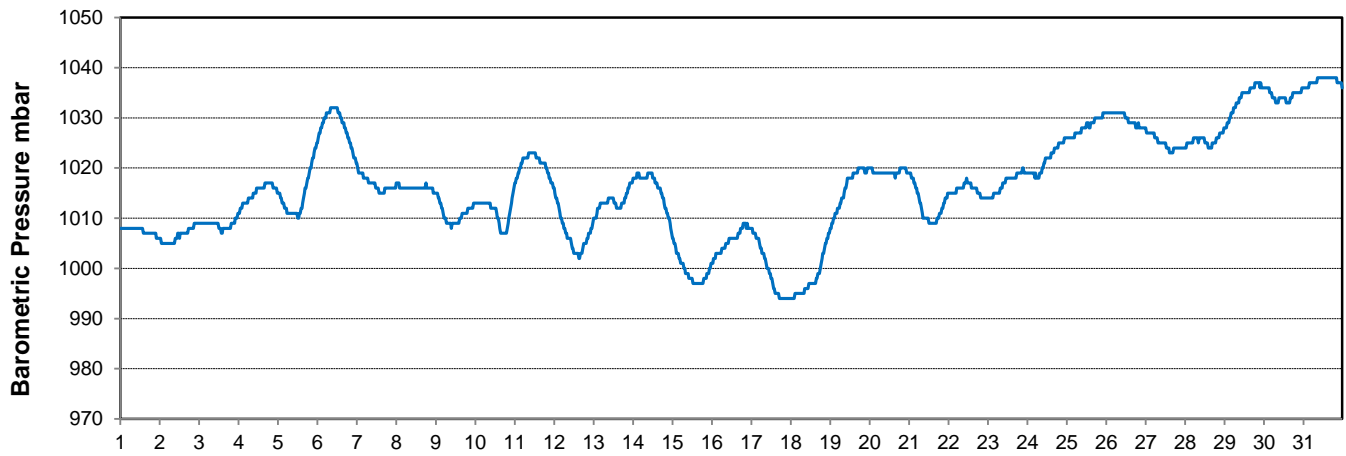
Temperature and Precipitation for December 2017



Relative Humidity for December 2017



Barometric Pressure Corrected to Sea Level for December 2017





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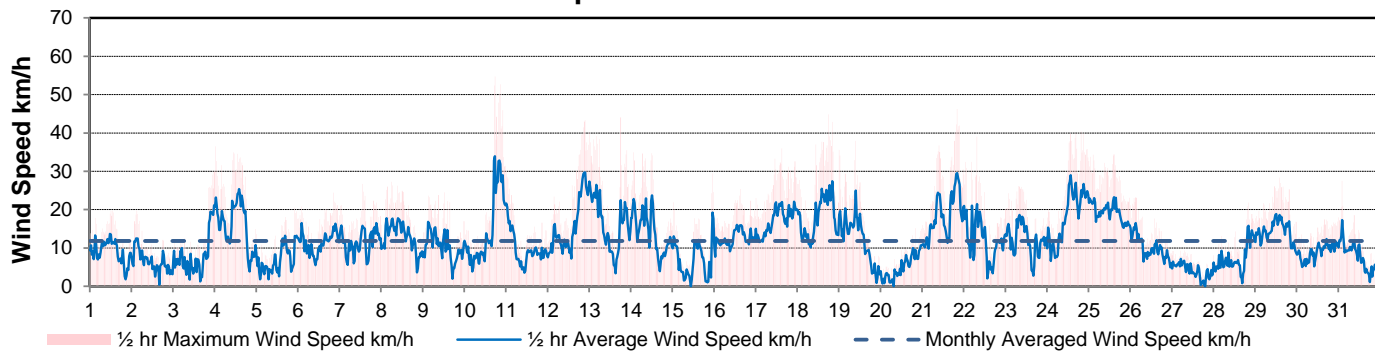
Preliminary **December 2017**

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture	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	19.7	SSW	12:09	-13.0	-0.5	-0.5	0.5	2.0	4.0	5.5	7.0	18	7.0	4.6	0.9
2	19.7	SSW	3:11	-12.5	-1.0	-0.5	0.5	2.0	4.0	5.5	7.0	18	0.3	2.5	1.9
3	29.9	NW	23:52	-16.0	-1.0	-1.0	0.5	2.0	4.0	5.0	7.0	17	0.2	2.3	1.7
4	36.5	NW	1:00	-9.0	-1.0	-1.0	0.0	2.0	3.5	5.0	7.0	17	5.9	4.1	0.9
5	20.5	NNE	22:27	-12.5	-1.5	-1.5	0.0	2.0	3.5	5.0	7.0	16	0.0	1.5	1.3
6	24.4	WSW	20:50	-23.0	-1.5	-1.0	0.0	2.0	3.5	5.0	7.0	16	2.4	2.2	1.4
7	26.7	WNW	13:27	-11.0	-1.5	-1.5	0.0	1.5	3.5	5.0	7.0	15	6.4	2.6	0.8
8	27.2	WNW	6:29	-3.5	-1.5	-1.0	0.0	1.5	3.5	5.0	7.0	15	1.5	2.6	2.3
9	24.5	W	12:32	-8.0	-1.0	-1.0	0.0	1.5	3.5	5.0	7.0	15	6.7	3.5	1.0
10	54.8	NW	17:35	-7.0	-1.0	-0.5	0.0	1.5	3.5	5.0	6.5	15	1.4	1.7	1.4
11	30.1	NNW	0:05	-0.5	-0.5	-0.5	0.0	1.5	3.0	4.5	6.5	22	2.2	2.0	1.4
12	43.4	NW	21:52	-3.5	0.0	0.0	0.5	1.5	3.0	4.5	6.5	21	2.9	2.4	1.7
13	44.0	NNW	18:13	-2.0	0.0	0.0	0.5	1.5	3.0	4.5	6.5	23	3.3	2.6	1.2
14	34.9	NW	1:40	-0.5	0.0	0.0	0.5	1.5	3.0	4.5	6.5	23	2.9	3.0	1.6
15	29.4	NW	23:00	-1.5	0.0	0.0	0.5	1.5	3.0	4.5	6.5	22	0.0	0.8	0.6
16	25.3	W	15:28	-5.0	0.0	0.0	0.5	1.5	3.0	4.5	6.5	22	0.2	1.4	1.1
17	35.9	SW	15:25	-7.0	0.0	0.0	0.5	1.5	3.0	4.5	6.5	22	1.9	2.0	1.7
18	44.8	NNW	18:25	-7.5	-0.5	0.0	0.5	1.5	3.0	4.5	6.5	22	6.4	3.6	1.2
19	37.9	N	9:32	-12.0	-1.0	-0.5	0.5	1.5	3.0	4.5	6.5	21	6.0	3.3	0.8
20	15.2	WSW	20:13	-25.5	-2.0	-1.5	0.0	1.5	3.0	4.5	6.5	19	5.4	4.5	0.9
21	46.2	NW	20:27	-12.5	-2.5	-2.0	-0.5	1.5	3.0	4.0	6.5	17	0.7	1.8	1.5
22	39.0	NW	7:39	-13.0	-2.5	-2.0	-1.0	1.0	3.0	4.0	6.5	15	2.3	2.2	1.8
23	26.2	NE	7:48	-16.0	-2.5	-2.5	-1.0	1.0	3.0	4.0	6.5	14	4.7	3.1	1.0
24	40.4	NW	19:42	-24.0	-3.5	-3.0	-1.0	1.0	3.0	4.0	6.5	13	6.7	4.0	1.0
25	34.4	WNW	14:34	-29.5	-5.0	-4.0	-2.0	0.5	2.5	4.0	6.0	12	6.9	3.8	0.9
26	23.1	NW	3:21	-34.0	-6.0	-5.0	-2.5	0.5	2.5	4.0	6.0	11	7.0	4.1	0.9
27	9.4	SW	7:28	-28.5	-6.5	-5.5	-3.0	0.5	2.5	4.0	6.0	11	2.9	3.1	1.9
28	21.8	NNW	20:07	-32.0	-6.5	-6.0	-3.5	0.0	2.5	4.0	6.0	11	3.1	3.6	1.5
29	28.4	NW	14:14	-33.5	-7.0	-6.0	-3.5	0.0	2.0	4.0	6.0	10	6.9	6.0	1.1
30	17.4	WNW	16:23	-35.0	-7.5	-7.0	-4.0	0.0	2.0	4.0	6.0	10	6.8	6.1	1.0
31	27.5	NW	2:10	-24.0	-7.5	-6.5	-4.0	0.0	2.0	3.5	6.0	10	6.7	5.7	2.1
Total	data logger error for max daily wind (Dec 5)												117.7	96.7	40.5
Mean				-14.9	-2.3	-2.0	-0.7	1.3	3.0	4.5	6.5	16.5	datalogger error for daily brightsunshine total (Dec 26)		
Extreme	54.8	NW	17:35												
Date	10														

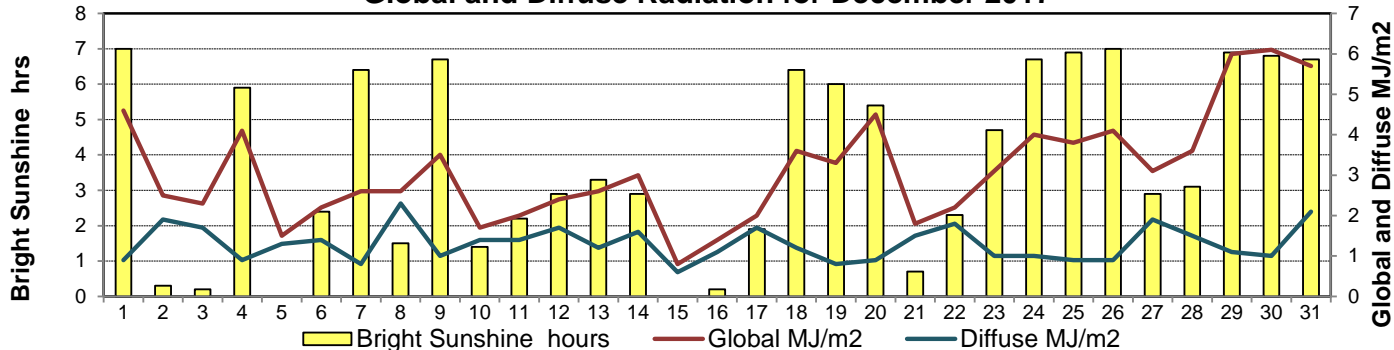
GLOSSARY OF TERMS

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 December 2017

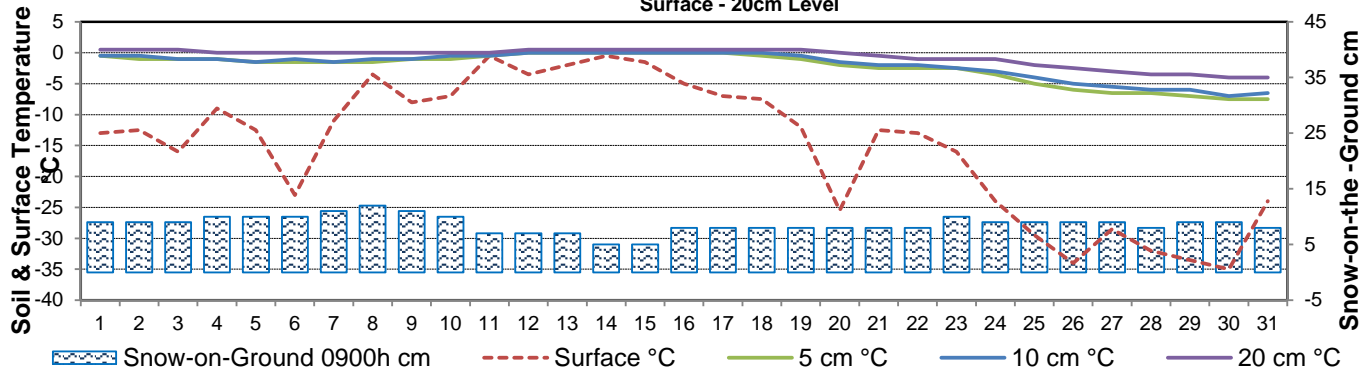


Global and Diffuse Radiation for December 2017



Soil Temperatures for December 2017

Surface - 20cm Level



Soil Temperatures for December 2017

50 - 300cm Level

