



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

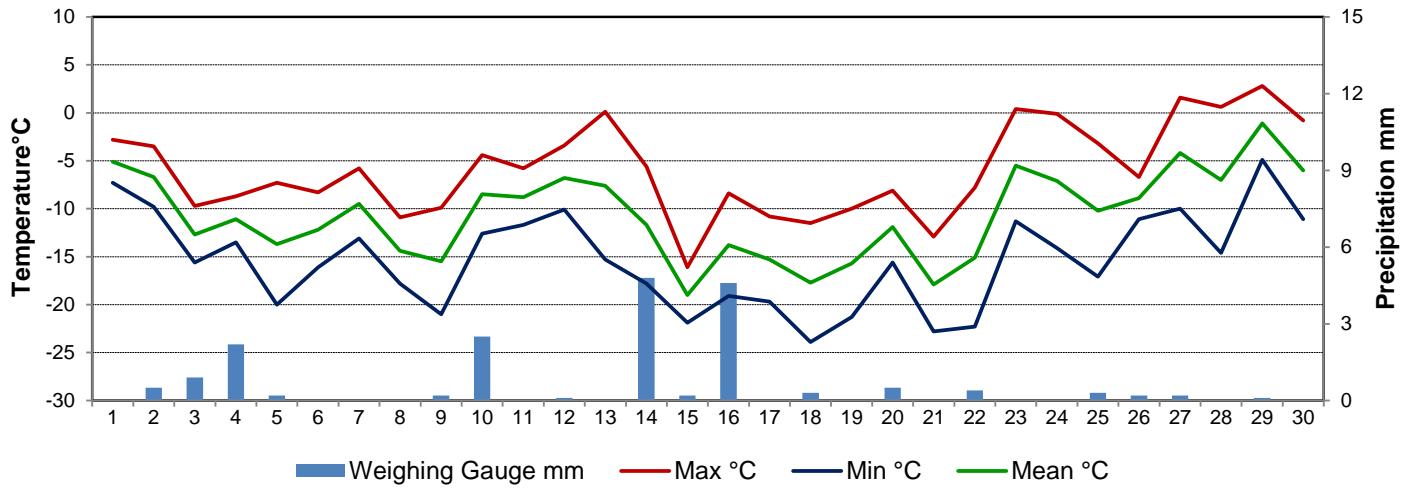
Preliminary **November 2017**

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	-2.8	-7.3	-5.1	0.0	23.1	0.0	0.0		0	89	61	1016	999
2	-3.5	-9.8	-6.7	0.0	24.7	0.0	0.5		0	88	67	1026	1016
3	-9.7	-15.6	-12.7	0.0	30.7	0.0	0.9		0	86	74	1027	1020
4	-8.7	-13.5	-11.1	0.0	29.1	0.0	2.2		2	87	75	1020	1012
5	-7.3	-20.0	-13.7	0.0	31.7	0.0	0.2		1	87	68	1015	1012
6	-8.3	-16.1	-12.2	0.0	30.2	0.0	0.0		2	84	51	1022	1015
7	-5.8	-13.1	-9.5	0.0	27.5	0.0	0.0		2	76	62	1023	1017
8	-10.9	-17.8	-14.4	0.0	32.4	0.0	0.0		2	79	61	1024	1022
9	-9.9	-21.0	-15.5	0.0	33.5	0.0	0.2		2	83	65	1025	1015
10	-4.4	-12.6	-8.5	0.0	26.5	0.0	2.5		5	87	61	1014	1003
11	-5.8	-11.7	-8.8	0.0	26.8	0.0	0.0		5	91	73	1020	1011
12	-3.4	-10.1	-6.8	0.0	24.8	0.0	0.1		5	91	77	1021	1016
13	0.1	-15.3	-7.6	0.0	25.6	0.0	0.0		4	93	64	1016	1004
14	-5.6	-17.8	-11.7	0.0	29.7	0.0	4.8		6	93	76	1023	1003
15	-16.1	-21.9	-19.0	0.0	37.0	0.0	0.2		12	85	76	1025	1013
16	-8.4	-19.1	-13.8	0.0	31.8	0.0	4.6		11	91	77	1013	992
17	-10.8	-19.7	-15.3	0.0	33.3	0.0	0.0		17	83	65	1011	998
18	-11.5	-23.9	-17.7	0.0	35.7	0.0	0.3		16	82	65	1014	1009
19	-10.0	-21.3	-15.7	0.0	33.7	0.0	0.0		16	86	82	1009	991
20	-8.1	-15.6	-11.9	0.0	29.9	0.0	0.5		17	87	69	1017	989
21	-12.9	-22.8	-17.9	0.0	35.9	0.0	0.0		10	82	73	1026	1016
22	-7.8	-22.3	-15.1	0.0	33.1	0.0	0.4		10	83	59	1015	1009
23	0.4	-11.3	-5.5	0.0	23.5	0.0	0.0		10	90	77	1009	988
24	-0.1	-14.1	-7.1	0.0	25.1	0.0	0.0		10	84	65	1010	989
25	-3.2	-17.1	-10.2	0.0	28.2	0.0	0.3	data logger error for daily max min temps (Nov 26)	10	91	76	1014	1006
26	-6.7	-11.1	-8.9	0.0	26.9	0.0	0.2		10	91	81	1016	996
27	1.6	-10.0	-4.2	0.0	22.2	0.0	0.2		10	90	65	999	985
28	0.6	-14.6	-7.0	0.0	25.0	0.0	0.0		10	82	63	1011	999
29	2.8	-4.9	-1.1	0.0	19.1	0.0	0.1		10	81	58	1010	998
30	-0.8	-11.1	-6.0	0.0	24.0	0.0	0.0		10	90	60	1011	1006
Total				0.0	860.7	0.0	18.2						
Avg	-5.9	-15.4	-10.7				255.7	Cumulative ppt					
Extreme	2.8	-23.9					4.8		17	93	51	1027	985
Date	29	18					14		17	13	6	3	27

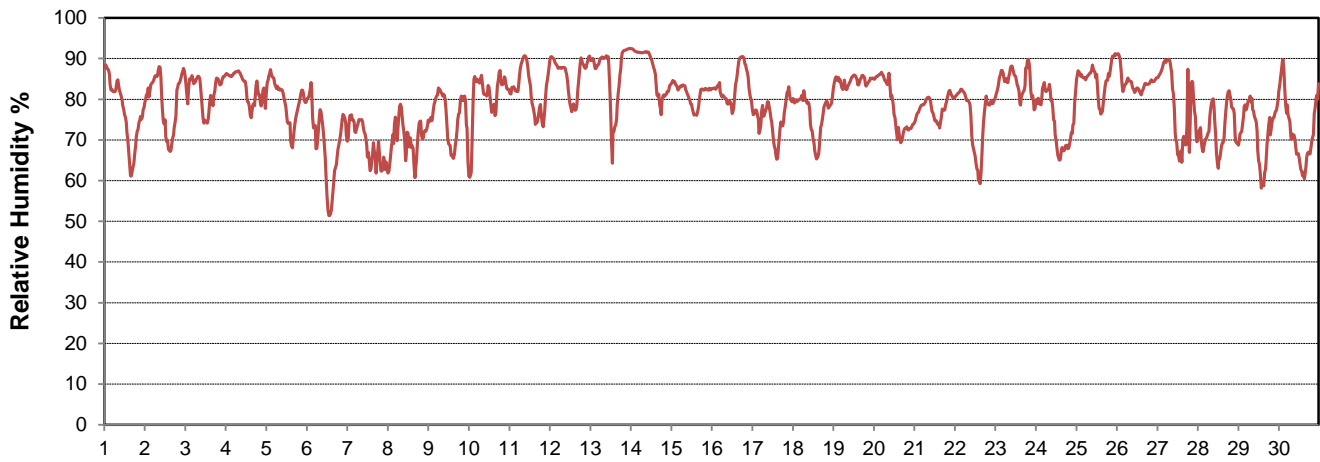
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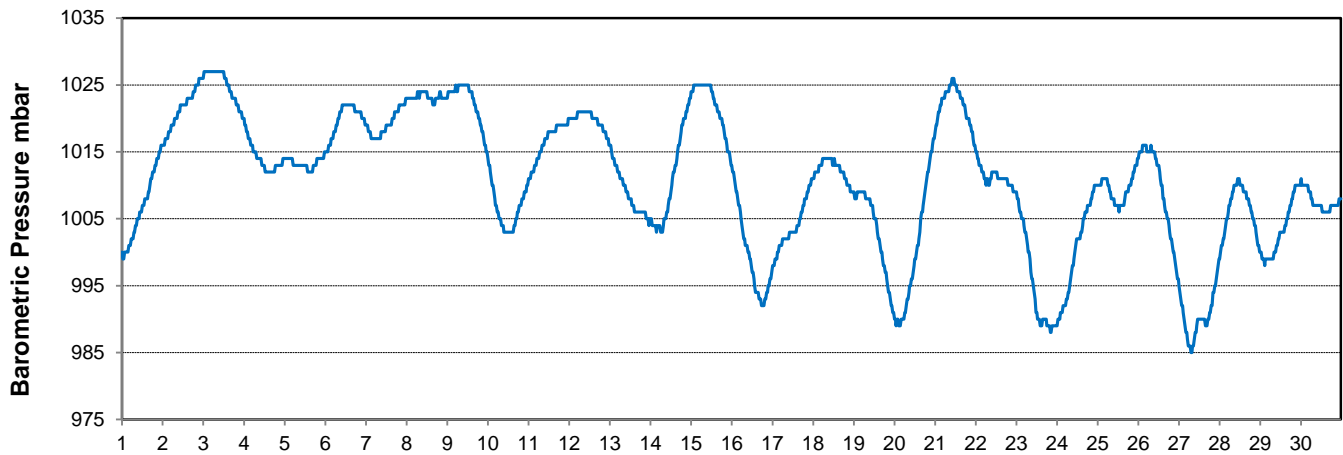
Temperature and Precipitation for November 2017



Relative Humidity for November 2017



Barometric Pressure Corrected to Sea Level for November 2017





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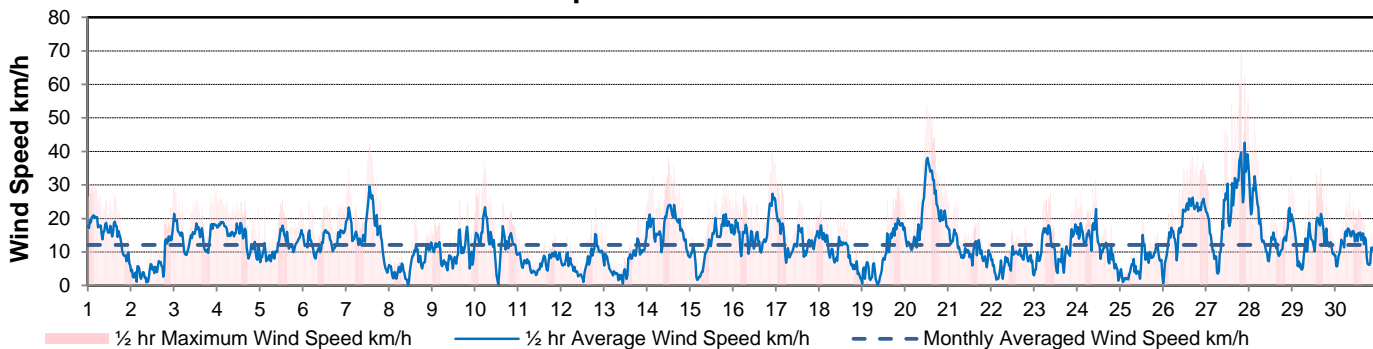
Preliminary **November 2017**

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	30.8	ENE	4:49	-4.0	2.0	2.5	3.5	5.5	7.5	8.0	8.0	22	0.3	4.1	3.7
2	28.4	NE	23:45	-8.0	1.0	1.5	3.5	5.5	7.5	8.0	8.0	22	2.2	4.1	2.6
3	29.8	NE	0:12	-11.5	0.5	1.5	3.0	5.0	7.0	8.0	8.0	21	3.1	4.8	3.2
4	26.2	ENE	3:15	-10.0	0.5	1.0	2.5	5.0	7.0	8.0	8.0	21	1.4	5.1	4.2
5	25.8	W	12:38	-17.0	0.5	1.0	2.5	4.5	7.0	8.0	8.0	21	7.3	6.3	3.4
6	25.2	SW	22:26	-15.5	0.5	0.5	2.0	4.5	6.5	7.5	8.0	21	8.4	6.7	2.1
7	42.5	NW	13:14	-11.5	0.0	0.5	2.0	4.0	6.5	7.5	8.0	20	3.0	4.9	3.7
8	22.5	NW	14:54	-12.5	0.0	0.5	1.5	4.0	6.0	7.5	8.0	20	5.1	4.9	3.9
9	25.3	S	19:42	-20.0	-0.5	0.0	1.5	4.0	6.0	7.5	8.0	20	8.2	6.9	3.4
10	37.2	SSE	5:20	-7.0	-1.0	-0.5	1.0	3.5	6.0	7.0	7.5	19	0.0	2.2	2.1
11	15.4	SW	20:47	-7.0	-0.5	0.0	1.0	3.5	5.5	7.0	7.5	20	0.7	2.6	2.4
12	23.3	ESE	19:24	-5.5	-0.5	0.0	1.0	3.5	5.5	7.0	7.5	20	0.7	2.5	2.3
13	24.1	ENE	23:07	-8.0	0.0	0.0	1.0	3.0	5.5	7.0	7.5	20	5.6	6.3	4.3
14	38.3	NNE	12:14	-6.0	0.0	0.0	1.0	3.0	5.0	7.0	7.5	20	0.0	3.4	3.0
15	29.7	E	18:46	-14.0	0.0	0.0	1.5	3.0	5.0	6.5	7.5	20	8.0	6.6	3.1
16	40.9	NW	22:00	-9.0	-0.5	0.0	1.0	3.0	5.0	6.5	7.5	20	0.0	2.0	1.8
17	31.3	NW	3:01	-8.5	-0.5	0.0	1.0	3.0	5.0	6.5	7.5	20	5.2	4.9	2.3
18	25.3	W	1:16	-15.0	-0.5	0.0	1.0	3.0	5.0	6.5	7.5	20	7.0	6.0	2.0
19	30.5	E	20:18	-11.5	-0.5	0.0	1.0	3.0	5.0	6.5	7.5	20	0.0	2.7	2.4
20	54.0	NW	12:19	-6.5	-0.5	0.0	1.0	2.5	4.5	6.0	7.5	20	0.0	2.5	2.3
21	25.3	NW	4:56	-13.5	-0.5	0.0	1.0	2.5	4.5	6.0	7.5	19	0.5	3.6	3.3
22	17.9	SW	19:01	-13.5	-0.5	-0.5	0.5	2.5	4.5	6.0	7.5	19	2.7	3.5	3.2
23	27.5	SE	9:13	-8.0	-0.5	-0.5	0.5	2.5	4.5	6.0	7.5	19	1.5	2.8	2.4
24	32.0	NW	10:38	-2.0	-0.5	-0.5	0.5	2.0	4.0	6.0	7.0	19	4.2	4.0	1.6
25	21.0	SW	12:37	-12.5	-0.5	0.0	1.0	2.5	4.5	6.0	7.5	19	4.8	3.0	1.8
26	39.5	E	19:15	-7.5	-0.5	-0.5	0.5	2.5	4.0	5.5	7.0	18	0.2	2.5	2.3
27	69.5	WNW	19:35	-3.0	-1.0	-0.5	0.5	2.0	4.0	5.5	6.5	18	4.0	3.7	1.6
28	49.2	NW	3:12	-14.0	-1.0	-0.5	0.5	2.5	4.0	5.5	7.0	18	6.4	4.2	1.0
29	35.1	NW	16:04	0.0	-0.5	-0.5	0.5	2.0	4.0	5.5	7.0	18	4.8	3.8	1.4
30	28.5	SW	8:08	-6.0	-0.5	0.0	0.5	2.0	4.0	5.5	7.0	18	6.4	3.8	1.3
Total													101.7	124.4	78.1
Mean				-9.6	-0.2	0.2	1.3	3.3	5.3	6.7	7.5	19.7			
Extreme	69.5	WNW	19:35												
Date	27														

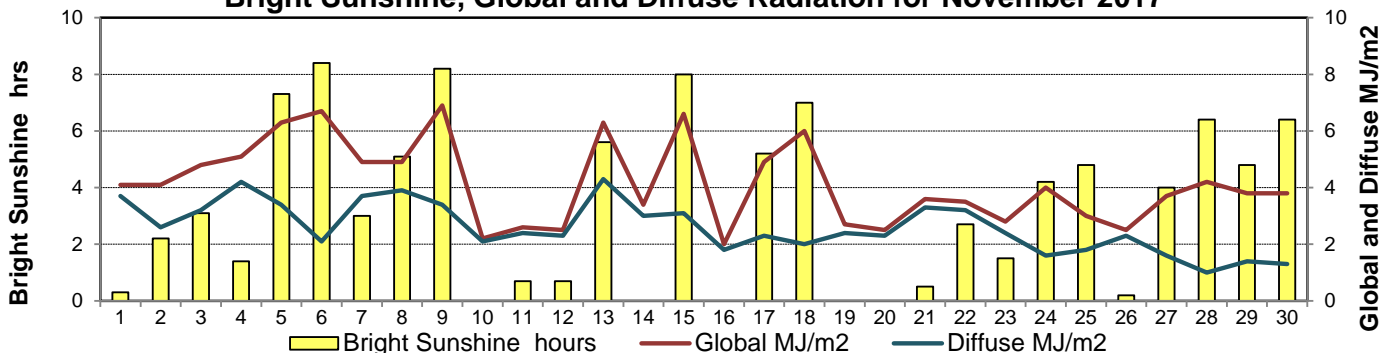
GLOSSARY OF TERMS

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 November 2017

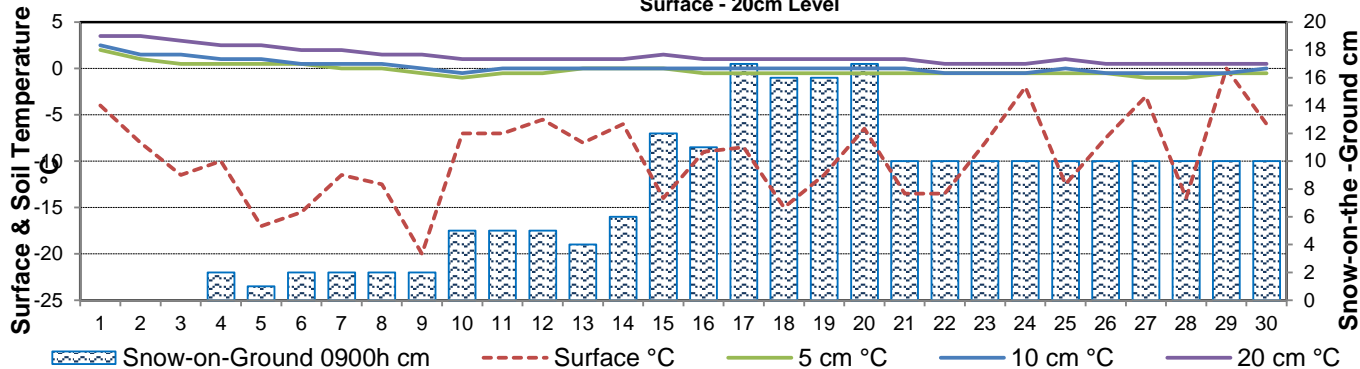


Bright Sunshine, Global and Diffuse Radiation for November 2017



Soil Temperatures for November 2017

Surface - 20cm Level



Soil Temperatures for November 2017

50 - 300cm Level

