



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

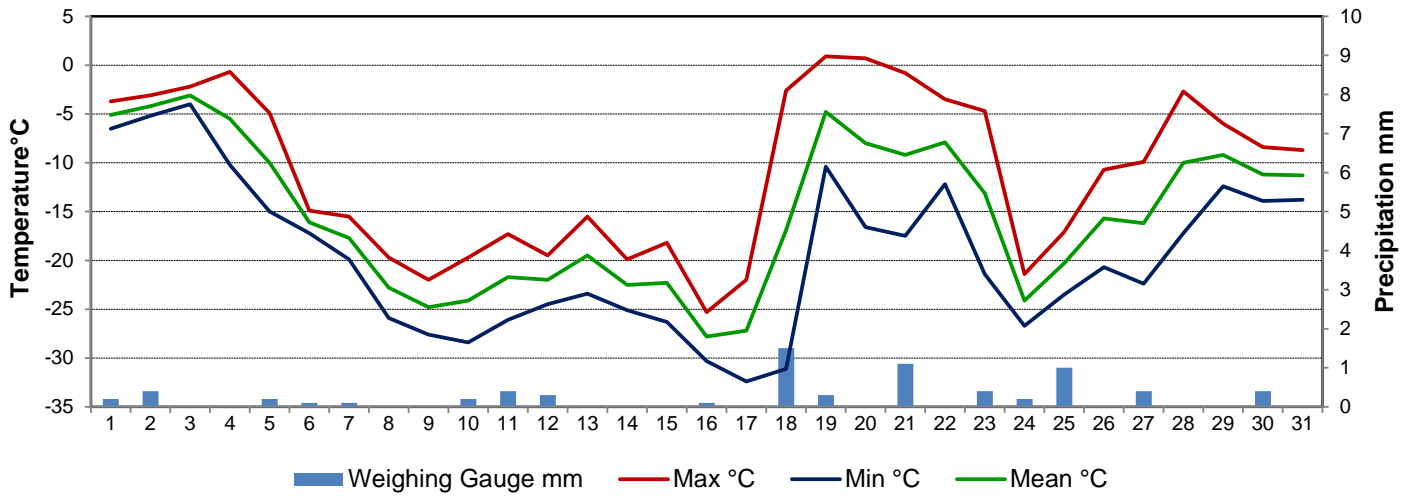
Preliminary **December 2016**

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	-3.7	-6.5	-5.1	0.0	23.1	0.0	0.2		-	94	88	1017	1013
2	-3.1	-5.2	-4.2	0.0	22.2	0.0	0.4		0	94	81	1019	1010
3	-2.2	-4.0	-3.1	0.0	21.1	0.0	0.0		-	89	80	1010	1004
4	-0.7	-10.2	-5.5	0.0	23.5	0.0	0.0		-	94	62	1004	1000
5	-4.9	-15.0	-10.0	0.0	28.0	0.0	0.2		0	85	68	1016	1001
6	-14.9	-17.2	-16.1	0.0	34.1	0.0	0.1		0	76	68	1021	1016
7	-15.5	-19.9	-17.7	0.0	35.7	0.0	0.1		0	77	69	1035	1022
8	-19.7	-25.9	-22.8	0.0	40.8	0.0	0.0		1	77	66	1037	1035
9	-22.0	-27.6	-24.8	0.0	42.8	0.0	0.0		1	78	66	1035	1028
10	-19.7	-28.4	-24.1	0.0	42.1	0.0	0.2		1	79	68	1028	1016
11	-17.3	-26.1	-21.7	0.0	39.7	0.0	0.4		1	80	63	1016	1009
12	-19.5	-24.5	-22.0	0.0	40.0	0.0	0.3		2	77	51	1010	1007
13	-15.5	-23.4	-19.5	0.0	37.5	0.0	0.0		2	79	51	1017	1006
14	-19.9	-25.1	-22.5	0.0	40.5	0.0	0.0		2	80	60	1022	1017
15	-18.2	-26.3	-22.3	0.0	40.3	0.0	0.0		2	80	63	1019	1017
16	-25.3	-30.3	-27.8	0.0	45.8	0.0	0.1		2	77	60	1020	1018
17	-22.0	-32.4	-27.2	0.0	45.2	0.0	0.0		2	77	64	1020	1014
18	-2.6	-31.1	-16.9	0.0	34.9	0.0	1.5		2	91	73	1014	998
19	0.9	-10.4	-4.8	0.0	22.8	0.0	0.3		3	92	60	1002	991
20	0.7	-16.6	-8.0	0.0	26.0	0.0	0.0		3	89	57	1003	996
21	-0.8	-17.5	-9.2	0.0	27.2	0.0	1.1		3	89	57	1009	1003
22	-3.5	-12.2	-7.9	0.0	25.9	0.0	0.0		3	92	64	1005	999
23	-4.7	-21.4	-13.1	0.0	31.1	0.0	0.4		3	90	68	1022	1001
24	-21.4	-26.7	-24.1	0.0	42.1	0.0	0.2		3	78	74	1028	1023
25	-17.1	-23.5	-20.3	0.0	38.3	0.0	1.0		4	83	76	1027	1017
26	-10.7	-20.7	-15.7	0.0	33.7	0.0	0.0		7	84	56	1017	1012
27	-9.9	-22.4	-16.2	0.0	34.2	0.0	0.4		6	85	75	1011	994
28	-2.7	-17.2	-10.0	0.0	28.0	0.0	0.0		5	88	71	1010	995
29	-6.0	-12.4	-9.2	0.0	27.2	0.0	0.0		5	87	73	1017	1009
30	-8.4	-13.9	-11.2	0.0	29.2	0.0	0.4		5	87	77	1008	999
31	-8.7	-13.8	-11.3	0.0	29.3	0.0	0.0		5	84	73	1007	995
Total				0.0	1032.3	0.0	7.3	0					
Avg	-10.9	-19.6	-15.3				377.6	Cumulative ppt					
Extreme	0.9	-32.4					1.5	0.0	7	94	51	1037	991
Date	19	17					18			1	12	8	19

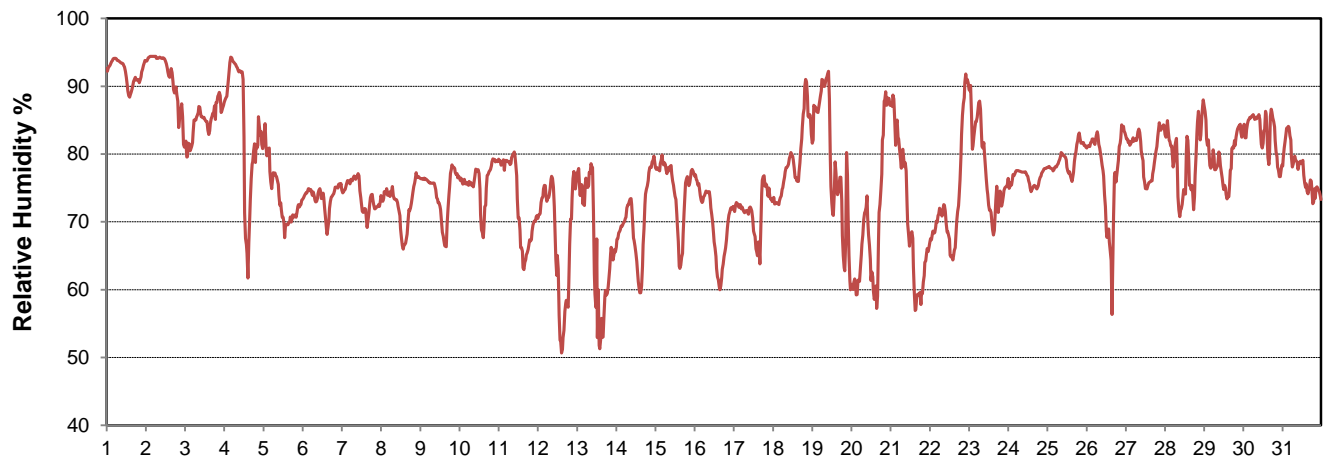
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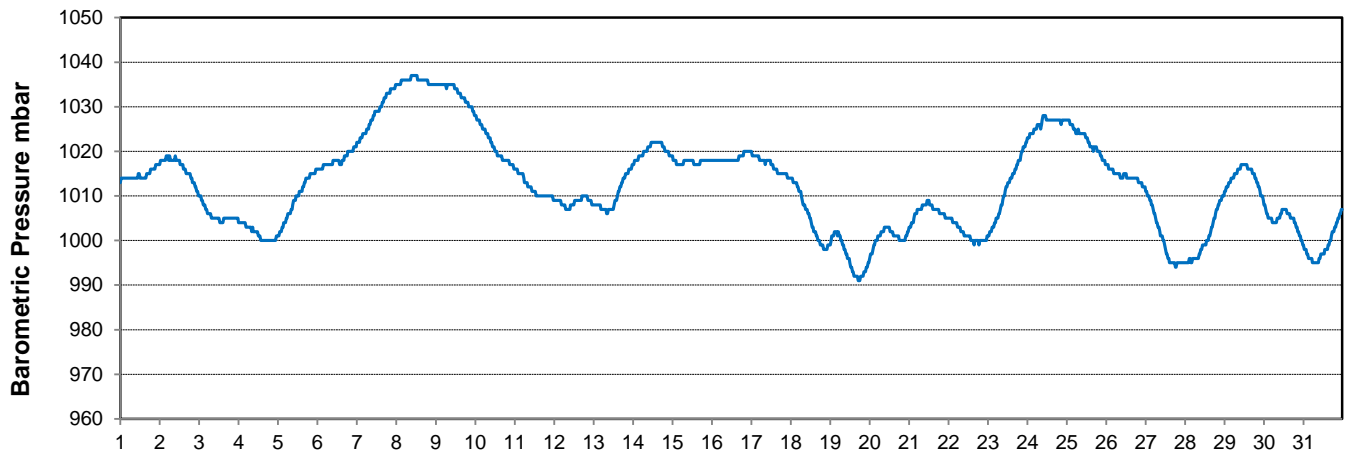
Temperature and Precipitation for December 2016



Relative Humidity for December 2016



Barometric Pressure Corrected to Sea Level for December 2016





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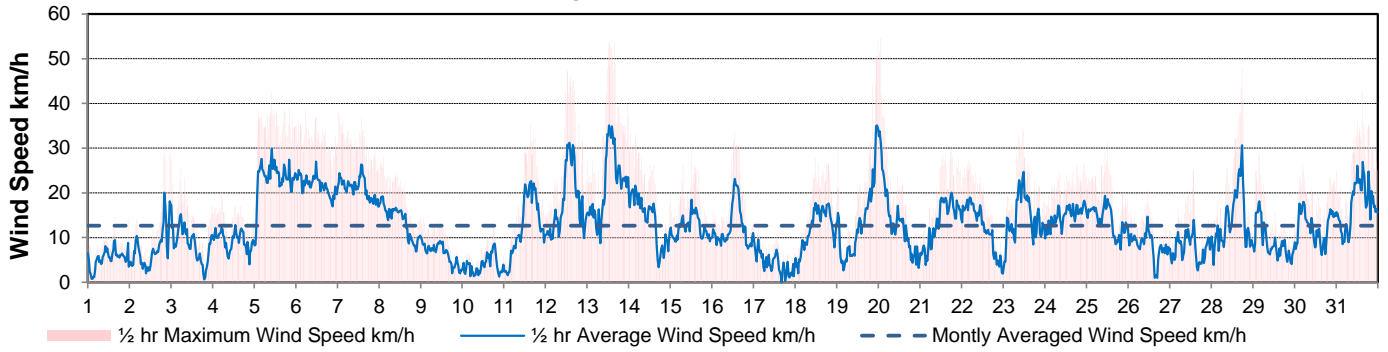
Preliminary **December 2016**

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	14.7	ENE	15:52	-4.0	1.0	1.0	1.5	3.0	5.0	6.0	7.5	33		1.6	1.5
2	30.7	S	20:06	-3.5	1.0	1.0	2.0	3.0	4.5	6.0	7.5	33		1.0	1.0
3	27.3	SSE	0:08	-2.5	1.0	1.0	1.5	2.5	4.5	5.5	7.0	33		1.0	0.9
4	20.0	SW	5:29	-7.0	1.0	1.0	1.5	2.5	4.5	5.5	7.0	33		4.2	1.6
5	42.5	NW	10:04	-9.0	1.0	1.0	1.5	3.0	4.5	6.0	7.5	32		2.3	1.9
6	38.7	NW	5:57	-15.5	0.5	0.5	1.5	3.0	4.5	6.0	7.5	31		2.6	1.7
7	38.2	NW	0:49	-16.0	0.0	0.5	1.0	2.5	4.5	6.0	7.5	31		2.8	1.9
8	27.9	NW	2:31	-21.5	0.0	0.0	1.0	2.5	4.5	6.0	7.5	30		3.2	1.7
9	14.4	NW	1:59	-25.0	-1.0	0.0	0.5	2.5	4.5	5.5	7.5	29		4.9	0.9
10	12.3	ESE	18:17	-25.0	-1.5	-0.5	0.5	2.0	4.5	5.5	7.5	27		4.8	1.0
11	35.5	WNW	15:25	-18.5	-1.5	-1.0	0.5	2.0	4.0	5.5	7.5	26		3.3	1.7
12	47.2	NW	12:50	-21.5	-2.0	-1.0	0.0	2.0	4.0	5.5	7.5	25		3.6	1.5
13	53.5	NW	12:40	-16.5	-2.0	-1.0	0.0	2.0	4.0	5.5	7.5	23		3.3	1.6
14	33.2	NW	1:14	-24.0	-2.5	-1.5	0.0	1.5	4.0	5.5	7.0	21		3.5	1.0
15	28.8	NW	12:10	-20.5	-2.5	-2.0	-0.5	1.5	3.5	5.0	7.0	19		3.8	1.4
16	33.4	NW	13:14	-26.5	-3.0	-2.0	-0.5	1.5	3.5	5.0	7.0	17		5.5	1.1
17	12.6	WNW	2:52	-30.0	-3.5	-2.5	-1.0	1.0	3.5	5.0	7.0	15		4.5	1.4
18	27.8	SW	11:33	-21.5	-4.0	-3.5	-1.5	1.0	3.5	5.0	7.0	13		1.9	1.6
19	54.5	WNW	23:31	-7.0	-2.5	-2.0	-1.5	1.0	3.0	5.0	7.0	14		1.8	1.6
20	54.6	NW	1:04	-7.0	-1.5	-1.5	-1.0	0.5	3.0	4.5	7.0	14		3.5	0.7
21	29.9	WSW	18:22	-12.0	-2.0	-2.0	-1.0	0.5	3.0	4.5	7.0	14		3.3	1.5
22	27.2	SW	4:29	-8.0	-2.0	-1.5	-1.0	0.5	3.0	4.5	7.0	14		2.2	1.7
23	34.6	N	11:26	-6.5	-2.0	-1.5	-1.0	0.5	3.0	4.5	7.0	14		3.5	0.7
24	26.5	E	22:15	-24.5	-3.0	-2.5	-1.0	0.5	2.5	4.5	7.0	13		2.9	1.8
25	31.5	E	12:00	-18.5	-3.5	-3.0	-2.0	0.5	2.5	4.5	7.0	13		2.3	1.8
26	20.8	NNW	11:17	-13.5	-2.5	-2.5	-1.5	0.5	2.5	4.0	7.0	13		2.9	1.8
27	25.1	S	13:49	-15.5	-2.5	-2.5	-1.5	0.5	2.5	4.0	6.5	13		2.0	1.6
28	47.7	NW	17:41	-7.0	-2.5	-2.0	-1.5	0.0	2.5	4.0	6.5	13		2.2	1.8
29	28.8	NW	3:24	-7.0	-2.0	-2.0	-1.5	0.0	2.0	4.0	6.5	13		1.7	1.6
30	26.5	NE	4:58	-10.5	-2.0	-2.0	-1.5	0.0	2.0	4.0	6.5	13		2.2	1.7
31	42.8	NW	15:11	-8.0	-2.0	-2.0	-1.5	0.0	2.0	4.0	6.5	13		4.0	3.4
Total															
Mean				-14.6	-1.5	-1.2	-0.3	1.4	3.5	5.0	7.1	20.8			
Extreme	54.6	NW	1:04												
Date	20														

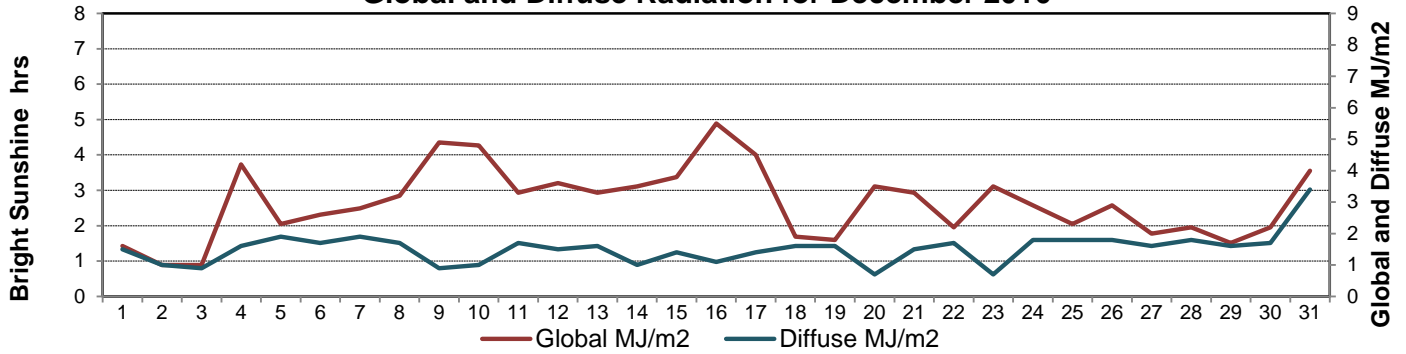
GLOSSARY OF TERMS

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 2016

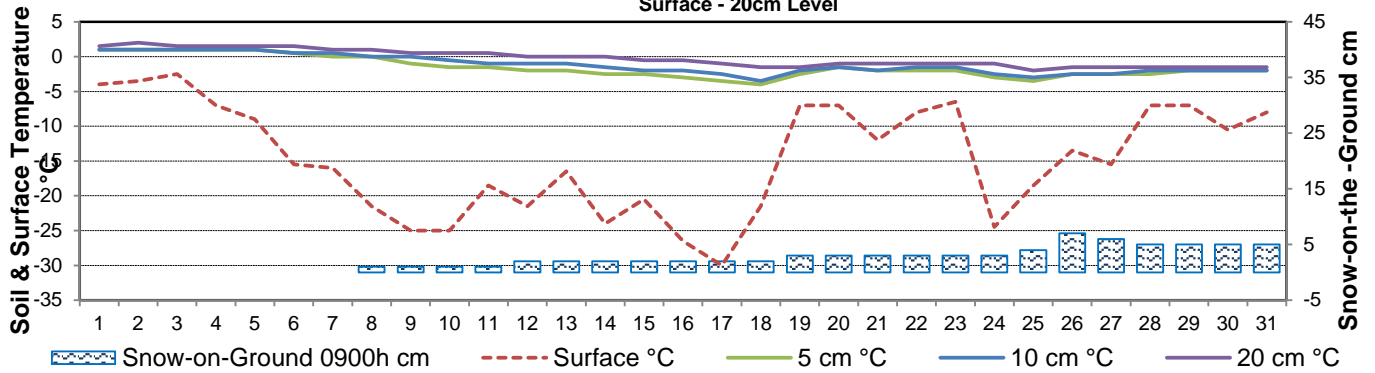


Global and Diffuse Radiation for December 2016



Soil Temperatures for December 2016

Surface - 20cm Level



Soil Temperatures for December 2016

50 - 300cm Level

