



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary **November 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	0.4	-2.4	-1.0	0.0	19.0	0.0	1.2		0	100	90	1016	1006
2	-2.4	-4.6	-3.5	0.0	21.5	0.0	0.2		0	93	80	1017	1012
3	1.1	-3.5	-1.2	0.0	19.2	0.0	0.0		0	94	78	1019	1009
4	3.6	-1.5	1.1	0.0	16.9	0.0	7.7		0	100	87	1009	995
5	3.0	-8.5	-2.8	0.0	20.8	0.0	4.8		2	100	86	1015	995
6	-8.5	-12.2	-10.4	0.0	28.4	0.0	0.0		10	89	78	1025	1015
7	-10.4	-13.8	-12.1	0.0	30.1	0.0	0.3		11	94	71	1025	1024
8	-10.2	-21.6	-15.9	0.0	33.9	0.0	0.1		9	93	73	1032	1024
9	-8.8	-22.8	-15.8	0.0	33.8	0.0	2.1		11	92	72	1032	1008
10	-7.3	-10.2	-8.8	0.0	26.8	0.0	1.9		13	95	79	1019	1008
11	-8.2	-16.6	-12.4	0.0	30.4	0.0	0.0		13	87	74	1033	1019
12	-9.6	-19.1	-14.4	0.0	32.4	0.0	1.1		13	90	75	1033	1022
13	-4.1	-10.6	-7.4	0.0	25.4	0.0	0.0		12	95	86	1022	1013
14	2.7	-10.2	-3.8	0.0	21.8	0.0	0.0		12	99	75	1012	1005
15	-0.4	-11.1	-5.8	0.0	23.8	0.0	0.6		12	98	81	1018	1009
16	-11.1	-22.2	-16.7	0.0	34.7	0.0	0.0		12	89	77	1033	1019
17	-10.7	-22.4	-16.6	0.0	34.6	0.0	0.7		11	90	77	1031	1015
18	-12.6	-18.8	-15.7	0.0	33.7	0.0	0.0		12	90	85	1022	1014
19	-3.8	-18.1	-11.0	0.0	29.0	0.0	2.3		14	96	85	1023	1009
20	-4.8	-13.7	-9.3	0.0	27.3	0.0	0.1		14	95	85	1017	1010
21	-3.3	-13.7	-8.5	0.0	26.5	0.0	0.1		14	99	89	1016	1003
22	1.4	-7.9	-3.3	0.0	21.3	0.0	0.0		13	99	80	1003	995
23	-1.4	-8.2	-4.8	0.0	22.8	0.0	0.3		13	99	88	1006	997
24	-6.8	-10.7	-8.8	0.0	26.8	0.0	0.0		13	90	81	1020	1007
25	-10.5	-13.7	-12.1	0.0	30.1	0.0	0.2		13	92	86	1025	1021
26	-7.3	-12.6	-10.0	0.0	28.0	0.0	0.0		13	92	82	1025	1015
27	-7.7	-10.5	-9.1	0.0	27.1	0.0	1.2		13	92	89	1014	1002
28	-7.8	-9.7	-8.8	0.0	26.8	0.0	1.3		14	94	87	1003	1001
29	-5.3	-8.2	-6.8	0.0	24.8	0.0	0.3		16	98	90	1004	1003
30	-3.4	-5.5	-4.5	0.0	22.5	0.0	0.0		15	99	98	1012	1004
Total				0.0	800.2	0.0	26.5						
Avg	-5.1	-12.2	-8.7				338.8	Cumulative ppt					
Extreme	3.6	-22.8					7.7		16	100	71	1033	995
Date	4	9					4		29	1	7	11	4

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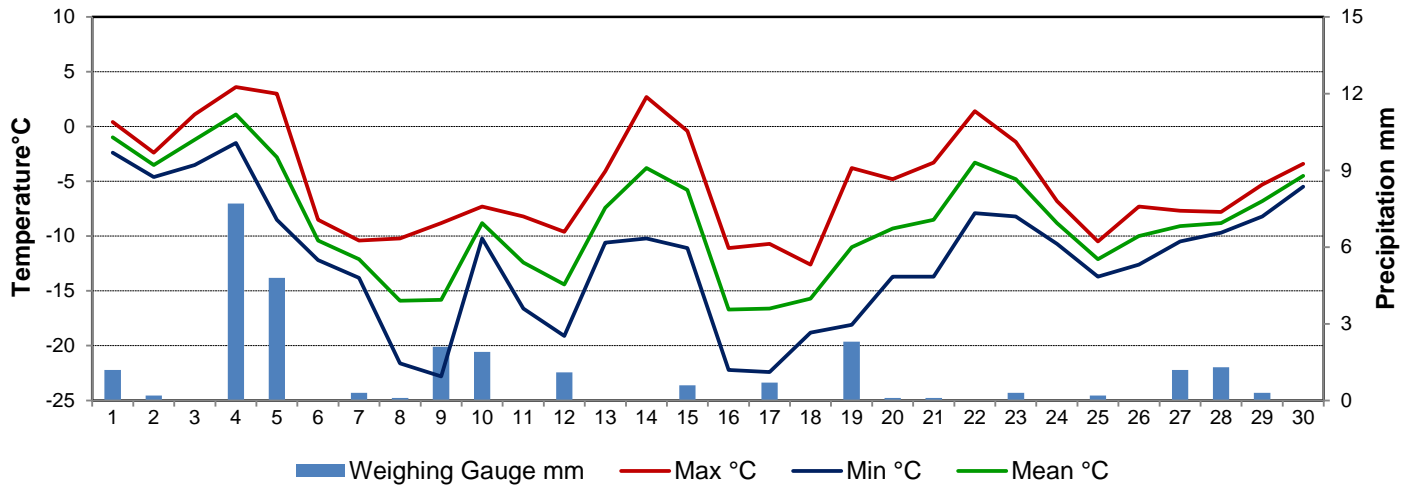
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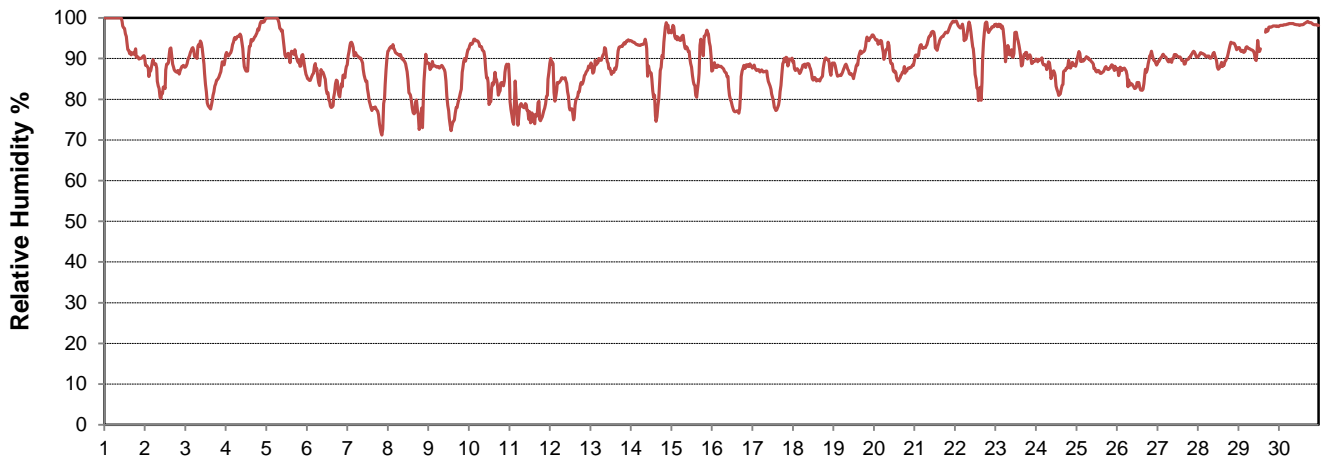
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WHEN MEASUREMENTS MATTER

Equipment maintenance Nov 29, 2018.

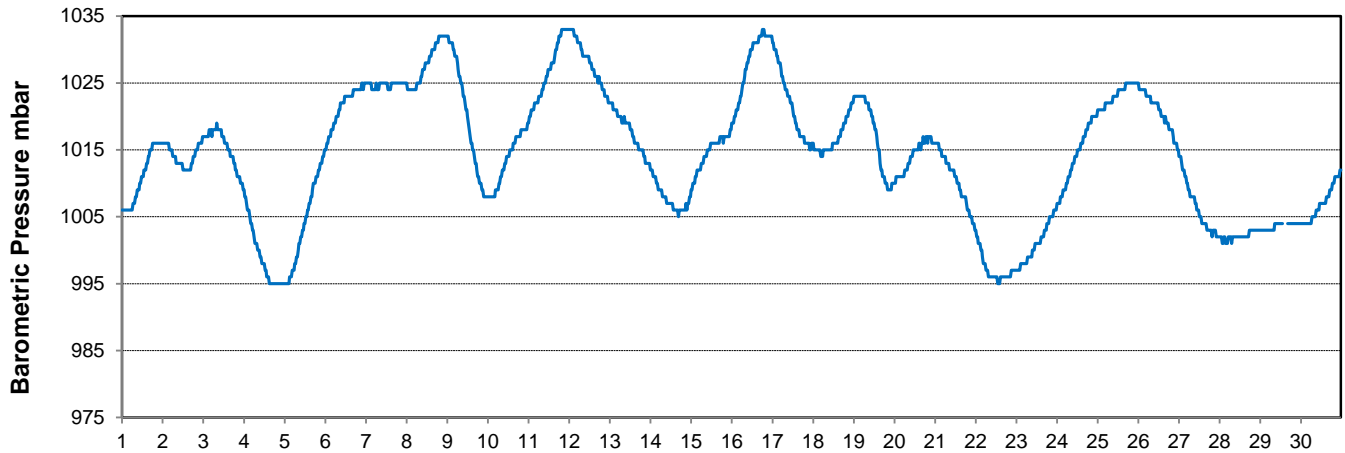
Temperature and Precipitation for November 2018



Relative Humidity for November 2018



Barometric Pressure Corrected to Sea Level for November 2018





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

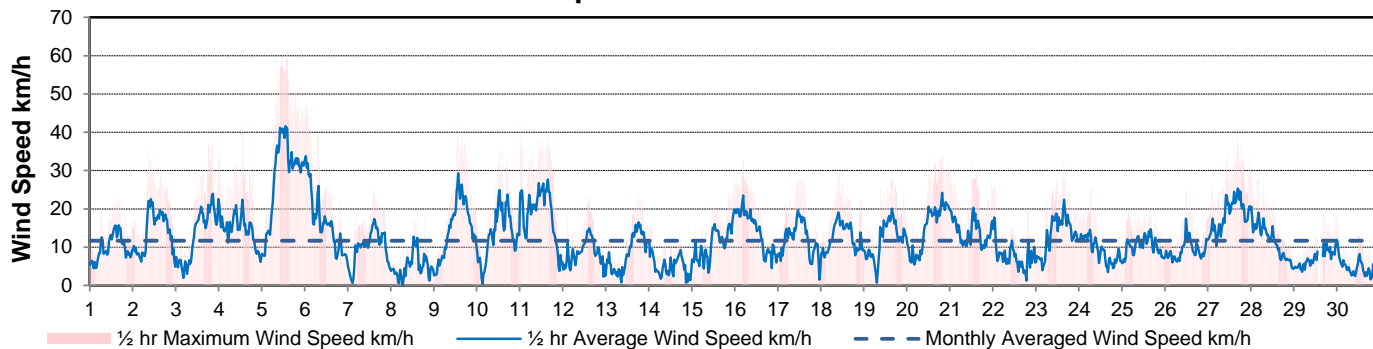
Preliminary **November 2018**

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	23.1	NNE	16:00	0.0	2.5	3.0	3.5	4.0	5.0	6.5	7.0	0.0	1.6	1.5
2	35.3	E	8:40	-3.5	2.0	2.5	3.0	4.0	5.0	6.0	7.0	0.0	1.8	1.6
3	38.1	SSW	20:43	-2.5	1.5	1.5	2.5	4.0	5.0	6.0	7.0	0.0	2.4	2.3
4	42.0	SSE	13:04	0.5	1.5	1.5	2.5	4.0	5.0	6.0	6.5	0.0	1.7	1.6
5	61.5	N	14:01	-3.0	2.5	2.5	3.0	4.0	5.0	6.0	7.0	0.0	2.0	1.8
6	47.2	N	0:42	-12.0	1.5	1.5	2.5	4.0	5.0	6.0	7.0	2.2	4.7	4.0
7	25.1	WNW	14:54	-12.0	1.0	1.5	2.0	3.5	5.0	6.0	7.0	1.5	3.7	3.2
8	19.8	NE	14:38	-15.5	0.5	1.0	2.0	3.5	5.0	6.0	7.0	1.8	3.9	3.3
9	42.9	S	13:40	-17.5	0.5	0.5	1.5	3.0	5.0	6.0	7.0	3.6	4.7	3.6
10	35.5	NNW	12:49	-9.0	0.0	0.5	1.5	3.0	4.5	6.0	7.0	1.1	3.3	3.1
11	42.2	N	0:24	-8.5	0.0	0.5	1.0	3.0	4.5	5.5	7.0	0.0	3.6	3.3
12	23.3	SSW	14:45	-8.5	0.0	0.5	1.0	2.5	4.5	5.5	7.0	1.8	4.0	3.5
13	24.0	E	18:24	-5.0	0.0	0.0	1.0	2.5	4.5	5.5	7.0	1.3	3.6	3.2
14	16.0	ENE	1:37	-6.0	0.0	0.5	1.0	2.5	4.0	5.5	6.5	2.3	3.2	2.9
15	29.1	ENE	23:49	-1.0	0.0	0.5	1.0	2.5	4.0	5.5	6.5	0.0	1.9	1.7
16	32.4	NE	4:49	-15.5	0.0	0.5	1.0	2.5	4.0	5.5	6.5	5.6	4.9	4.3
17	28.3	SW	13:38	-18.0	0.0	0.0	1.0	2.0	4.0	5.5	6.5	6.8	6.7	5.9
18	29.6	ESE	10:04	-12.0	-0.5	0.0	0.5	2.0	4.0	5.5	6.5	0.8	3.2	2.8
19	29.6	SSW	15:26	-12.0	-0.5	0.0	0.5	2.0	4.0	5.0	6.5	0.0	2.7	2.5
20	34.3	E	19:46	-6.0	-0.5	0.0	0.5	2.0	3.5	5.0	6.5	0.0	2.2	2.1
21	31.9	S	12:28	-7.5	-0.5	-0.5	0.5	2.0	3.5	5.0	6.5	0.0	2.1	2.0
22	25.5	SSE	0:27	-6.0	-0.5	-0.5	0.5	2.0	3.5	5.0	6.5	6.3	4.9	1.6
23	32.3	NNW	15:38	-3.5	-0.5	0.0	0.5	1.5	3.5	5.0	6.5	1.6	3.2	2.0
24	25.6	NNE	6:35	-7.5	-0.5	0.0	0.5	1.5	3.5	5.0	6.5	0.0	2.2	2.1
25	20.1	ENE	15:17	-11.0	-0.5	0.0	0.5	1.5	3.5	4.5	6.5	0.0	2.3	2.2
26	25.3	SSE	11:40	-8.0	-0.5	0.0	0.5	1.5	3.5	4.5	6.5	0.6	2.3	2.1
27	39.2	ESE	16:44	-7.0	-0.5	-0.5	0.5	1.5	3.0	4.5	6.5	0.0	1.7	1.6
28	31.7	E	0:10	-7.0	-0.5	-0.5	0.0	1.5	3.0	4.5	6.0	0.0	2.2	2.1
29	18.7	SSW	23:27	-5.0	-0.5	-0.5	0.0	1.5	3.0	4.5	6.0	0.0	1.3	1.3
30	16.9	SW	0:17	-3.5	-0.5	-0.5	0.0	1.5	3.0	4.5	6.0	0.0	1.7	1.6
Total												37.3	89.7	76.8
Mean				-7.8	0.2	0.5	1.2	2.6	4.1	5.4	6.7			
Extreme	61.5	N	14:01											
Date	5													

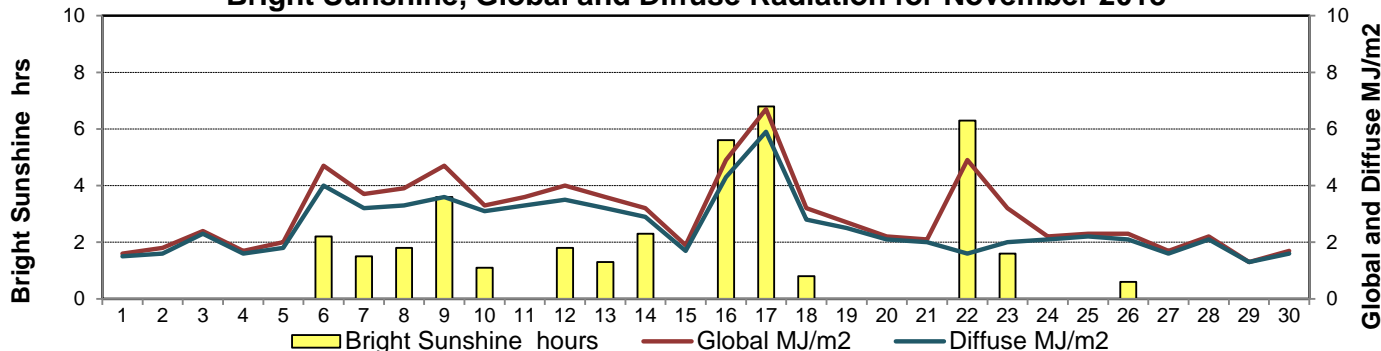
GLOSSARY OF TERMS

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 2018

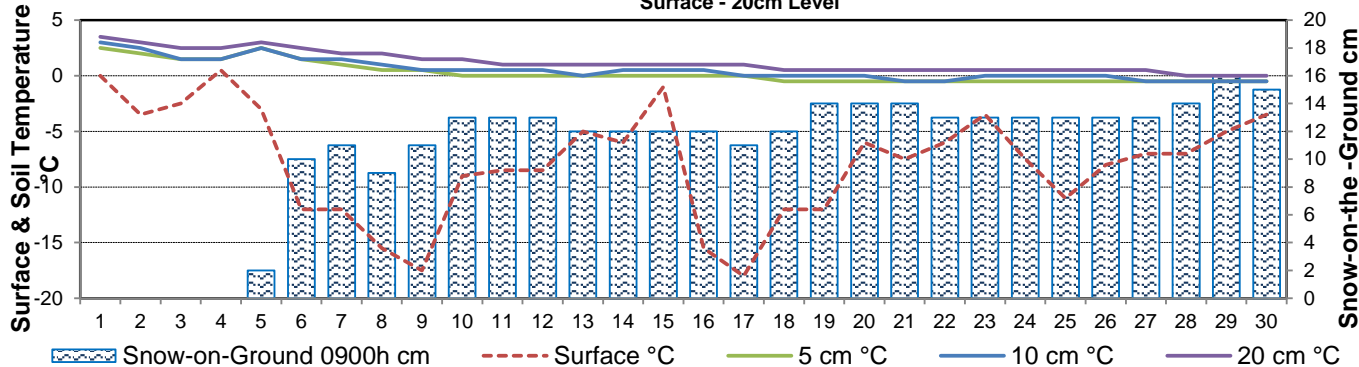


Bright Sunshine, Global and Diffuse Radiation for November 2018



Soil Temperatures for November 2018

Surface - 20cm Level



Soil Temperatures for November 2018

50 - 300cm Level

